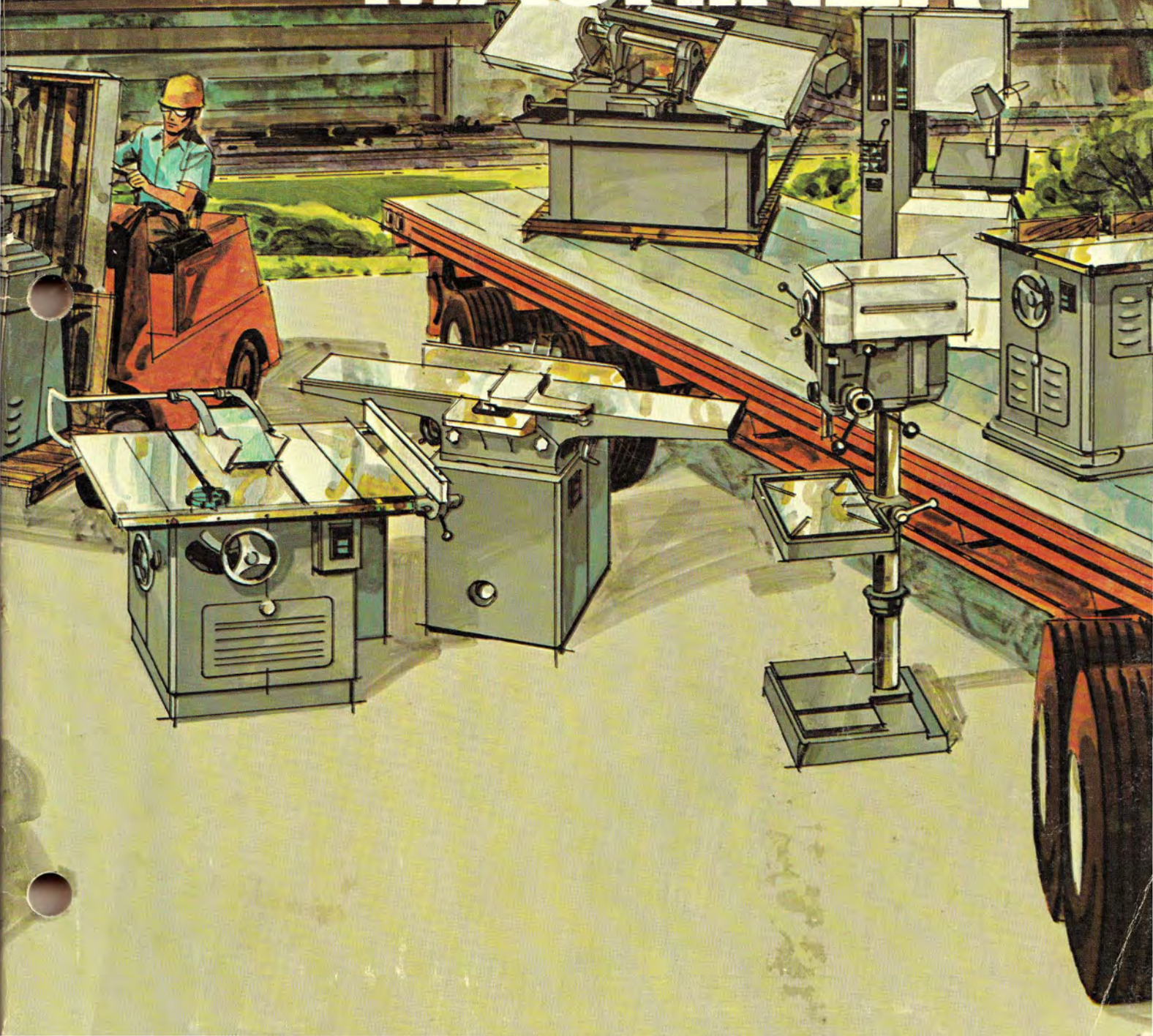


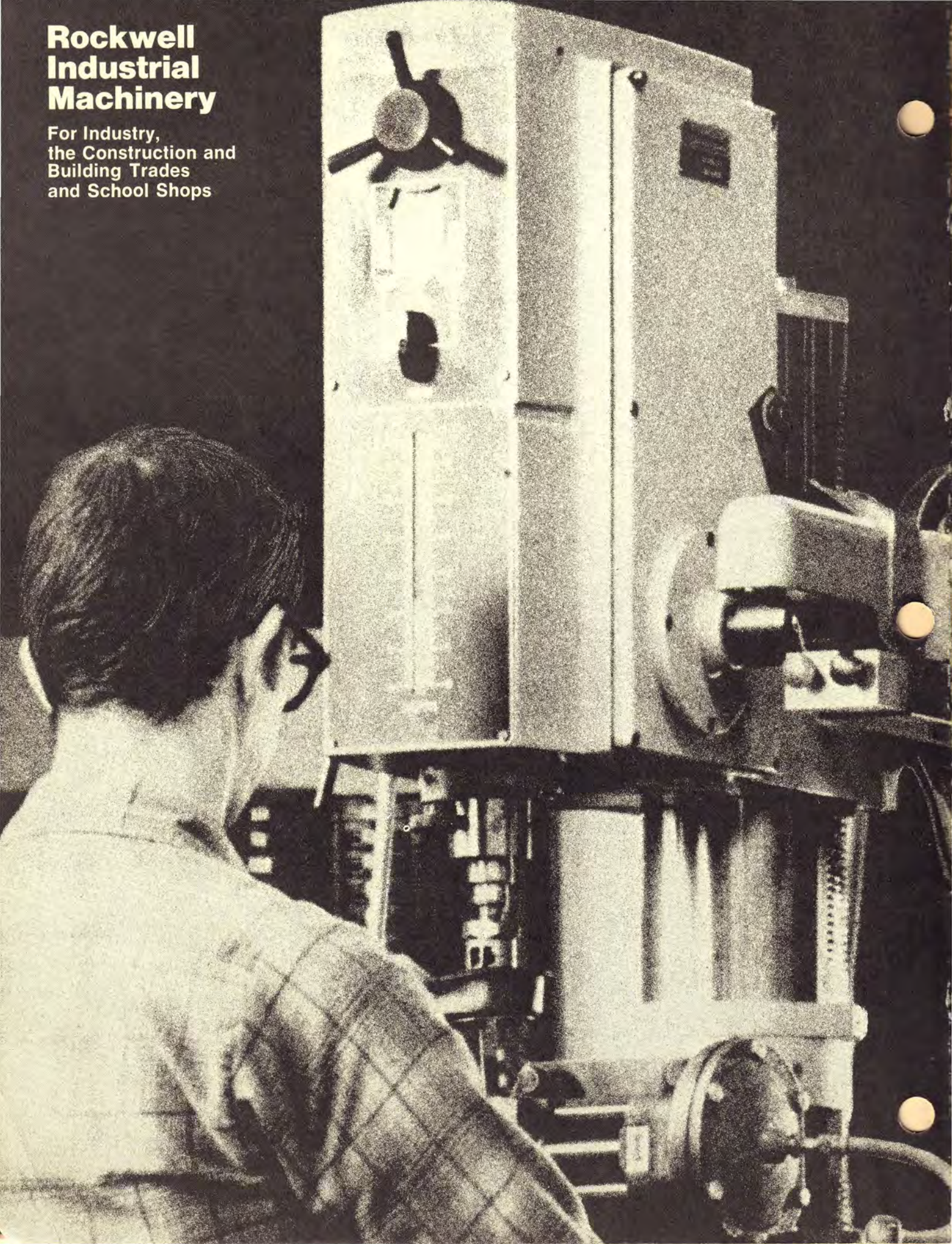


# Rockwell INDUSTRIAL MACHINERY



# Rockwell Industrial Machinery

For Industry,  
the Construction and  
Building Trades  
and School Shops



# Value added by your Rockwell Distributor



He will provide you with . . .

**Assistance in Your Production Planning.**  
His years of experience and technical know-how have equipped him to give you expert advice on your specific job problems.

**Fast Delivery From Local Stocks.**  
Because of his knowledge of local markets, he stocks the products you need and delivers your orders quickly.

**Prompt Information on New and Old Products.**  
He is in constant touch with manufacturers who supply him with information on new products and developments.

**One Source for Many Types of Products.**  
One source ordering simplifies your purchasing procedure and reduces your accounting costs.

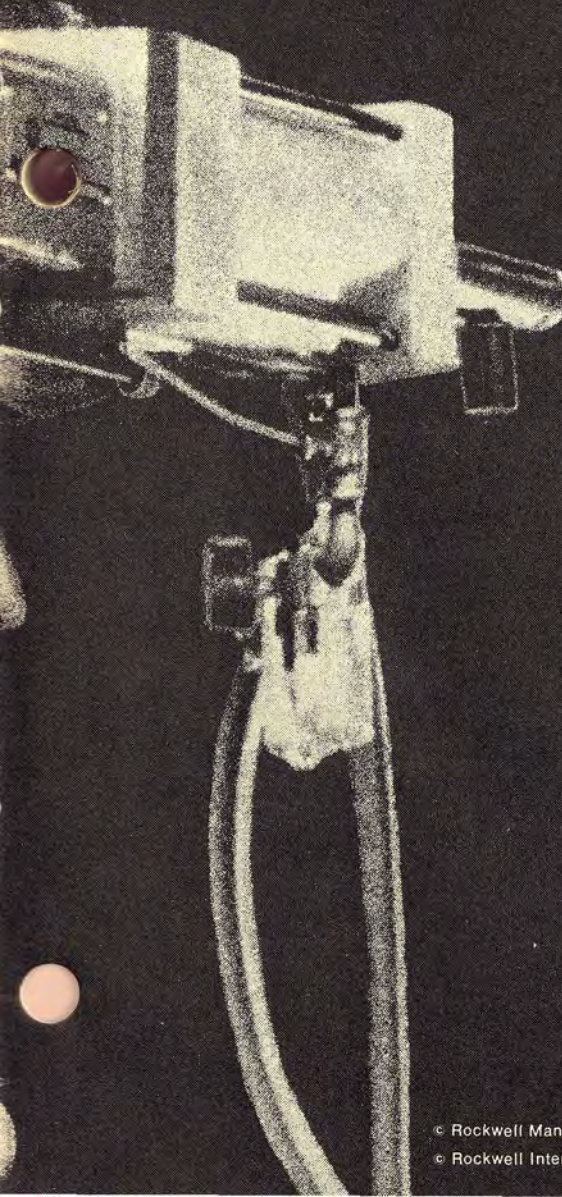


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### NOTE TO NIDA-SIDA MEMBERS:

This edition of the Rockwell Catalog lists numbers that are compatible with the National Industrial Distributors Association and Southern Industrial Distributors Association standard numbering system as suggested by your Modern Methods Committee. It meets EDP requirements. Number 8143 is the manufacturer's code number assigned to the Power Tool Division of Rockwell International by the NIDA-SIDA Modern Methods Committee.

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58	L1	4	<b>807</b>	A8	1	<b>1211</b>	M1	4	<b>09-121</b>	I5	3	<b>15-130</b>	A5	2	<b>17-862</b>	A9	2
59	L1	4	<b>808</b>	A9	1	<b>1212</b>	M1	4	<b>09-123</b>	I5	3	<b>15-132</b>	A5	2	<b>17-880</b>	A9	2
60	L1	4	<b>809</b>	A9	1	<b>1213</b>	M1	4	<b>09-124</b>	I5	3	<b>15-153</b>	A4	6	<b>20-100</b>	B1	3
61	L1	4	<b>810</b>	A9	1	<b>1214</b>	M1	4	<b>09-125</b>	I5	3	<b>15-155</b>	A4	6	<b>20-216</b>	B1	4
64	L1	4	<b>812</b>	A9	1	<b>1236</b>	C3	3	<b>09-</b>								

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20-660	A9	1	22-227	K2	2	23-516	C9	3	25-250	R1	7	25-810	R1	6	28-886	J7	1
20-661	A4	6	22-228	K2	2	23-556	C9	3	25-251	R1	7	25-822	R1	6	28-887	J7	1
20-761	A4	6	22-229	K2	2	23-557	C9	3	25-252	R1	7	25-825	R1	6	28-984	J7	1
20-800	B1	4	22-250	K2	2	23-566	C6	2	25-253	R1	7	25-828	R1	6	31-014	E1	4
20-801	B1	4	22-252	K2	2	23-567	C6	2	25-254	R1	7	25-839	R1	6	31-034	E3	3
20-802	B1	4	22-300	K4	2	23-568	C6	2	25-255	R1	7	25-840	R1	6	31-122	E2	3
20-817	B1	4	22-401	K3	2	23-569	C6	2	25-256	R1	7	25-841	R1	7	31-123	E2	2
20-819	B1	4	22-420	K5	1	23-570	C6	2	25-258	R1	8	25-843	R1	7	31-125	E2	2
20-820	B1	4	22-422	K5	1	23-571	C6	2	25-259	R1	8	25-844	R1	7	31-126	E2	2
20-832	B1	4	22-423	K5	1	23-572	C6	2	25-260	R1	8	25-845	R1	7	31-131	E2	2
20-838	D1	1	22-424	K5	1	23-612	C8	2	25-261	R1	8	25-850	R1	6	31-132	E2	2
20-840	B1	4	22-425	K5	1	23-620	N2	4	25-262	R1	6	25-851	R1	8	31-142	E1	4
20-846	B1	4	22-426	K5	1	23-621	N2	4	25-263	R1	6	25-852	R1	6	31-314	E1	4
20-847	B1	4	22-500	K1	4	23-632	C5	2	25-278	R1	7	25-853	R1	6	31-351	C10	3
20-848	B1	4	22-501	K5	1	23-636	C6	2	25-425	R1	5	25-854	R1	6	31-352	C10	3
20-849	B1	4	22-502	K5	1	23-637	C5	2	25-426	R1	5	25-856	R1	6	31-360	C10	3
20-900	J2	2	22-503	K1	4	23-638	C5	2	25-427	R1	5	25-857	R1	8	31-361	C10	3
20-902	J2	2	22-504	K5	1	23-661	C9	3	25-450	R1	4	25-859	R1	8	31-362	C10	3
20-903	J2	2	22-800	K5	1	23-662	C9	3	25-451	R1	4	25-861	R1	6	31-363	C10	3
20-904	J2	2	22-801	K5	1	23-663	C4	4	25-452	R1	4	25-862	R1	6	31-364	C10	3
20-905	J2	2	22-802	K5	1	23-664	C2	4	25-490	R1	3	25-863	R1	6	31-365	C10	3
20-906	J2	2	22-803	K5	1	23-800	C9	3	25-491	R1	3	25-864	R1	6	31-366	C10	3
20-907	J1	2	22-804	K5	1	23-801	C2	3	25-492	R1	3	25-865	R1	6	31-370	C10	3
20-908	J2	2	22-810	K5	1	23-802	D1	1	25-541	R1	7	25-866	R1	6	31-371	C10	3
20-916	J1	4	22-811	K5	1	23-803	C2	4	25-542	R1	7	25-870	R1	6	31-372	C10	3
20-940	J2	1	22-812	K5	1	23-805	C2	4	25-543	R1	7	25-873	R1	6	31-373	C10	3
20-949	J2	2	22-813	K5	1	23-815	C5	2	25-544	R1	7	25-875	R1	6	31-374	C10	3
21-001	S1	6	22-835	K4	2	23-816	C5	2	25-545	R1	7	28-005	J7	2	31-375	C10	3
21-002	S1	6	22-836	K4	2	23-817	C2	4	25-551	R1	8	28-032	J7	1	31-376	C10	3
21-100	S1	5	22-837	K4	2	23-818	C2	4	25-552	R1	8	28-033	J7	1	31-401	E1	4
21-120	S1	4	23-001	N2	4	23-819	C2	4	25-553	R1	7	28-034	J7	1	31-403	E1	4
21-122	S1	3	23-002	N2	4	23-820	C2	4	25-554	R1	7	28-036	J7	1	31-404	E1	4
21-800	S1	6	23-004	C9	3	23-825	C5	2	25-556	R1	8	28-038	J7	1	31-405	E1	4
21-801	S1	6	23-005	C9	3	23-826	C9	3	25-558	R1	8	28-040	J7	1	31-425	D1	3
21-802	S1	6	23-007	C9	3	23-827	C9	3	25-559	R1	8	28-045	J7	1	31-427	E2	2
21-803	S1	6	23-008	C9	3	23-828	C8	2	25-561	R1	8	28-046	J7	1	31-428	E2	2
21-804	S1	6	23-009	C9	3	23-841	C9	3	25-564	R1	8	28-047	J7	1	31-431	D1	3
21-805	S1	6	23-010	C9	3	23-842	C9	3	25-566	R1	8	28-048	J7	1	31-438	D1	3
21-806	S1	6	23-025	C2	4	23-845	C8	2	25-567	R1	8	28-050	J7	1	31-520	E1	3
21-807	S1	6	23-111	C3	2	24-165	C1	5	25-568	R1	8	28-052	J7	1	31-710	E3	2
21-808	S1	6	23-112	C3	2	24-166	C1	5	25-572	R1	6	28-058	J7	2	31-803	D1	1
21-809	S1	6	23-113	C9	3	24-167	C1	5	25-576	R1	6	28-060	J7	2	31-804	C9	3
21-810	S1	6	23-114	C9	3	24-170	C1	5	25-580	R1	6	28-062	J7	2	31-856	D1	1
21-811	S1	6	23-118	C3	2	24-171	C1	5	25-600	R1	6	28-064	J7	2	31-875	D1	3
21-812	S1	6	23-120	C3	2	24-172	C1	5	25-610	R1	6	28-200	J5	2	31-876	D1	3
21-813	S1	6	23-125	C3	2	24-800	C1	6	25-625	R1	6	28-230	J5	2	31-877	D1	3
21-816	S1	4	23-136	C2	4	24-802	C1	6	25-626	R1	6	28-300	J6	2	33-001	I5	1
21-820	S1	6	23-137	C2	4	24-803	C1	6	25-628	R1	6	28-340	J3	4	33-002	I5	1
21-821	S1	6	23-138	C2	4	24-804	C1	6	25-629	R1	7	28-345	J4	2	33-003	I5	1
21-822	S1	6	23-146	C2	4	24-805	C1	6	25-630	R1	6	28-353	J1	4	33-004	I5	1
21-823	S1	6	23-148	C2	4	24-807	C1	6	25-642	R1	6	28-354	J1	4	33-005	I5	1
21-824	S1	6	23-150	C2	4	24-808	C1	6	25-646	R1	6	28-355	J5	1	33-174	G1	4
21-825	S1	6	23-151	C4	2	24-812	C1	6	25-650	R1	6	28-700	J7	2	33-179	I5	1
21-826	S1	6	23-153	C4	2	24-819	D1	1	25-651	R1	6	28-701	J7	2	33-180	I5	1
21-827	S1	6	23-154	C4	2	24-820	C1	6	25-652	R1	6	28-702	J7	2	33-182	I5	1
21-828	S1	6	23-156	C4	2	24-822	C1	7	25-653	R1	6	28-703	J7	2	33-183	I5	1
21-829	S1	6	23-200	C5	2	24-823	C1	7	25-654	R1	6	28-704	J7	2	33-184	I5	1
21-830	S1	6	23-201	C5	2	24-902	A9	1	25-655	R1	6	28-705	J7	2	33-186	I5	1
21-831	S1	6	23-202	C5	2	24-955	C1	6	25-656	R1	6	28-708	J7	2	33-197	I5	1
21-832	S1	6	23-206	C5	2	24-957	C1	6	25-661	R1	6	28-709	J7	2	33-198	G5	2
21-833	S1	6	23-207	C5	2	24-958	C1	6	25-662	R1	6	28-710	J7	2	33-199	G1	4
21-834	S1	6	23-208	C5	2	24-959	C1	6	25-663	R1	6	28-711	J7	2	33-202	G1	4
21-835	S1	6	23-209	C5	2	24-960	C1	6	25-664	R1	6	28-712	J7	2	33-203	I5	1
21-836	S1	6	23-211	C3	2	24-961	C1	6	25-665	R1	6	28-725	J7	1	33-204	I5	1
21-837	S1	6	23-212	C5	2	24-962	C1	6	25-666	R1	6	28-726	J7	1	33-212	G7	1
21-838	S1	6	23-213	C5	2	24-963	C1	6	25-667	R1	7	28-727	J7	1	33-223	G6	2
21-889	S1	6	23-214	C5	2	24-964	C1	6	25-668	R1	8	28-728	J7	1	33-227	G6	2
21-890	S1	6	23-215	C5	2	24-965	C1	6	25-669	R1	8	28-729	J7	1	33-228	G1	4
21-891	S1	6	23-233	C9	2	24-967	C1	6	25-671	R1	7	28-730	J7	1	33-246	G1	4
21-892	S1	6	23-234	C9	2	24-968	C1	6	25-672	R1	7	28-731	J7	1	33-277	I5	1
21-893	S1	6	23-239	C9	2	24-970	C1	6	25-673	R1	7	28-732	J7	1	33-278	I5	2
21-894	S1	6	23-241	C9	2	24-973	C1	6	25-674	R1	7	28-740	J7	2	33-279	I5	2
21-895	S1	6	23-242	C9	2	24-974	C1	6	25-675	R1	7	28-741	J7	2	33-282	I5	2
21-896	S1	6	23-243	C9	2	25-119	R1	7	25-676	R1	7	28-742	J7	2	33-304	I5	1
21-897	S1	6	23-249	C9	2	25-120	R1	6	25-677	R1	7	28-743	J7	2	33-307	I5	1
21-898	S1	6	23-251	C9	2	25-217	R1	6	25-678	R1	7	28-744	J7	2	33-446	I5	1
21-899	S1	6	23-261	C9	2	25-222	R1	6	25-679	R1	7	28-745	J7	2	33-449	I5	1
22-128	K5	1	23-262	C9	2	25-223	R1	6	25-680	R1	7	28-746	J1	4	33-450	I5	1
22-161	K2	4	23-263	C9	2	25-224	R1	6	25-681	R1	7	28-747	J1	4	33-471	I5	1
22-163	K2	4	23-267	C5	2	25-225	R1	6	25-682	R1	7	28-748	J1	4	33-521	I5	2
22-171	K2	4	23-268	C9	2	25-226	R1	6	25-683	R1	7	28-749	J1	4	33-543	I5	1
22-173	K2	4	23-280	C2	4	25-227	R1	6	25-684	R1	7	28-750	J7	1	33-544	I5	2
22-181	K2	4	23-281	C9	2	25-228	R1	6	25-685	R1	7	28-751	J7	1	33-548	I5	1
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33-743	I5	1	35-123	G7	1	41-042	O1	1	43-190	M2	2	43-665	M3	5	46-681	A9	2
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33-763	I1	4	35-131	G7	1	41-044	O1	1	43-192	M1	4	43-667	M3	5	46-683	A9	2
33-764	I1	4	35-190	G7	1	41-052	O1	1	43-193	M1	3	43-668	M3	5	46-684	A9	2
33-770	I2	2	35-196	G7	1	41-053	O1	1	43-194	M1	3	43-701	M3	5	46-685	A9	2
33-771	I2	2	35-197	G7	1	41-054	O1	1	43-195	M1	3	43-702	M3	5	46-686	A9	2
33-772	I2	2	35-198	G7	1	41-062	O1	1	43-196	M1	3	43-703	M3	5	46-687	A9	2
33-780	I3	2	35-201	G7	1	41-063	O1	1	43-198	M1	4	43-704	M3	5	46-690	N4	2
33-781	I3	2	35-202	G7	1	41-064	O1	1	43-205	M1	3	43-705	M3	5	46-692	N4	2
33-782	I3	2	35-204	G7	2	41-072	O1	1	43-206	M1	3	43-706	M3	5	46-694	N4	2
33-783	I3	2	35-211	G7	2	41-073	O1	1	43-207	M1	3	43-707	M3	5	46-695	N4	2
33-784	I3	2	35-221	G7	2	41-074	O1	1	43-210	M1	4	43-708	M3	5	46-697	N4	2
33-790	I4	2	35-222	G7	2	41-082	O1	1	43-211	M1	4	43-709	M3	5	46-800	N1	4
33-791	I4	2	35-223	G7	2	41-083	O1	1	43-212	M1	4	43-710	M3	5	46-801	N4	1
33-792	I4	2	35-224	G7	2	41-084	O1	1	43-213	M1	4	43-711	M3	5	46-802	N4	1
33-793	I4	2	35-236	G7	2	41-092	O1	1	43-214	M1	4	43-712	M3	5	46-803	N4	1
33-814	I5	1	35-237	G7	2	41-093	O1	1	43-301	M1	3	43-713	M3	5	46-804	N4	1
33-842	I5	1	35-238	G7	2	41-094	O1	1	43-340	M1	3	43-714	M3	5	46-805	N4	2
33-942	I5	1	35-241	G7	2	41-102	O1	1	43-342	M1	4	43-716	M3	5	46-815	I5	1
34-010	G6	2	35-242	G7	2	41-103	O1	1	43-343	M1	4	43-717	M3	5	46-817	I5	1
34-015	G5	3	35-243	G7	2	41-104	O1	1	43-345	M1	3	43-718	M3	5	46-832	A9	2
34-016	G2	4	35-245	G7	2	41-112	O1	1	43-347	M1	3	43-719	M3	5	46-836	I5	1
34-017	G2	4	35-247	G7	2	41-113	O1	1	43-348	M1	4	43-720	M3	5	46-837	A9	2
34-018	G2	4	37-220	F2	2	41-114	O1	1	43-349	M1	3	43-721	M3	5	46-838	A9	2
34-105	G2	4	37-290	F3	1	41-122	O1	1	43-350	M1	3	43-722	M3	5	46-840	N1	4
34-154	G4	2	37-305	F1	3	41-123	O1	1	43-351	M1	3	43-723	M3	5	46-841	A9	2
34-171	G7	1	37-308	F1	3	41-124	O1	1	43-354	M1	3	43-724	M3	5	46-847	A9	2
34-172	G7	1	37-315	F1	3	41-134	O1	1	43-502	M3	3	43-725	M3	5	46-850	N4	1
34-226	G6	2	37-342	F1	3	41-136	O1	1	43-503	M3	3	43-726	M3	5	46-905	N4	1
34-227	G6	2	37-522	F2	2	41-140	O1	1	43-510	M3	3	43-727	M3	5	46-916	N4	1
34-254	G4	2	37-600	F3	2	41-142	O1	1	43-511	M3	3	43-728	M3	5	46-933	N4	1
34-333	G7	1	37-601	F3	2	41-143	O1	1	43-517	M3	4	43-729	M3	5	46-934	N4	2
34-334	G7	1	37-602	F3	2	41-144	O1	1	43-601	M3	5	43-730	M3	5	46-935	N4	1
34-390	G1	3	37-659	F2	2	41-152	O1	1	43-602	M3	5	43-731	M3	5	46-936	N4	1
34-395	G1	3	37-802	F3	1	41-153	O1	1	43-603	M3	5	43-732	M3	5	46-937	N4	1
34-426	G3	3	37-806	F3	1	41-154	O1	1	43-604	M3	5	43-733	M3	5	46-938	N4	1
34-429	G3	3	37-807	F2	2	41-162	O1	1	43-605	M3	5	43-734	M3	5	46-939	N4	1
34-430	G3	3	37-808	F2	2	41-163	O1	1	43-606	M3	5	43-735	M3	5	46-940	N4	1
34-440	G4	2	37-810	F1	3	41-164	O1	1	43-607	M3	5	43-736	M3	5	46-950	N4	1
34-453	G4	2	37-815	F1	3	41-174	O1	1	43-608	M3	5	43-737	M3	5	46-951	N4	1
34-461	G2	3	37-816	F1	3	41-175	O1	1	43-609	M3	5	43-738	M3	5	46-954	N4	1
34-466	G2	3	40-058	L1	4	41-177	O1	1	43-610	M3	5	43-739	M3	5	46-961	N4	1
34-472	G2	4	40-159	L1	4	41-194	O1	1	43-611	M3	5	43-740	M3	5	46-963	N4	1
34-521	G1	4	40-160	L1	4	41-195	O1	1	43-612	M3	5	43-804	M2	2	46-966	N4	1
34-525	G2	4	40-161	L1	4	41-197	O1	1	43-613	M3	5	43-805	M2	2	46-968	R1	6
34-545	G2	4	40-164	L1	4	41-203	O1	1	43-614	M3	5	43-817	M2	2	49-000	Q1	2
34-562	G7	1	40-165	L1	4	41-504	O1	1	43-615	M3	5	43-826	M1	3	49-025	O1	1
34-568	G7	1	40-184	L1	4	41-505	O1	1	43-616	M3	5	43-828	M1	3	49-034	O1	1
34-601	G5	2	40-185	L1	4	41-515	O1	1	43-617	M3	5	43-830	M1	3	49-035	O1	1
34-607	G5	2	40-187	L1	4	41-517	O1	1	43-618	M3	5	43-900	M1	4	49-051	O1	1
34-609	G5	2	40-188	L1	4	41-607	O1	1	43-619	M3	5	43-901	M1	4	49-054	F1	3
34-614	G4	3	40-191	L1	4	41-610	O1	1	43-620	M3	5	43-935	M2	2	49-055	F1	3
34-636	G5	2	40-192	L1	4	41-627	O1	1	43-621	M3	5	43-937	M1	3	49-066	F1	3
34-639	G2	4	40-193	L1	4	41-637	O1	1	43-622	M3	5	43-983	M1	3	49-067	F1	3
34-641	G3	3	40-194	L1	4	41-644	O1	1	43-623	M3	5	43-990	I5	1	49-083	G6	2
34-649	H1	1	40-195	L1	4	41-702	O1	1	43-624	M3	5	46-038	A9	2	49-085	C1	6
34-652	H1	2	40-196	L1	4	41-703	O1	1	43-625	M3	5	46-048	A9	2	49-091	A9	3
34-661	G5	2	40-198	L1	4	41-704	O1	1	43-626	M3	5	46-121	N4	1	49-092	A9	3
34-662	G5	2	40-202	L1	4	41-707	J7	2	43-627	M3	5	46-122	N4	1	49-093	A9	3
34-663	G5	2	40-203	L1	4	41-708	J7	2	43-628	M3	5	46-123	N4	1	49-094	O1	1
34-707	G2	4	40-204	L1	4	41-712	O1	1	43-629	M3	5	46-124	N4	1	49-096	O1	1
34-708	G6	2	40-207	L1	4	41-713	O1	1	43-630	M3	5	46-125	N4	1	49-101	O1	1
34-709	G6	2	40-216	L1	3	41-714	O1	1	43-631	M3	5	46-126	N4	1	49-104	O1	1
34-813	G7	1	40-217	L1	3	41-722	O1	1	43-632	M3	5	46-127	N4	1	49-105	O1	1
34-821	G7	1	40-218	L1	3	41-723	O1	1	43-633	M3	5	46-128	N4	1	49-111	J7	1
34-832	G1	4	40-219	L1	3	41-724	O1	1	43-634	M3	5	46-130	N4	1	49-112	K5	1
34-840	I5	1	40-306	L1	3	41-732	O1	1	43-635	M3	5	46-138	A9	2	49-115	O1	1
34-841	I5	1	40-307	L1	3	41-733	O1	1	43-636	M3	5	46-144	N4	2	49-121	O1	1
34-842	G1	4	40-308	L1	3	41-734	O1	1	43-637	M3	5	46-145	N4	2	49-124	O1	1
34-843	G2	4	40-309	L1	3	41-746	O1	1	43-638	M3	5	46-163	N4	2	49-130	O1	1
34-862	M1	3	40-440	L1	3	41-747	O1	1	43-639	M3	5	46-164	N4	2	49-131	J7	2
34-873	G7	1	40-442	L1	4	41-748	O1	1	43-640	M3	5	46-171	N4	2	49-132	J7	2
34-884	K4	3	40-443	L1	3	41-772	A9	3	43-641	M3	5	46-200	N2	3	49-134	J1	4
34-885	G2	4	40-444	L1	4	41-773	A9	3	43-642	M3	5	46-201	N2	3	49-135	F1	4
34-891	Q1	1	40-446	L1	3	41-812	A9	2	43-643	M3	5	46-248	A9	2	49-136	J1	4
34-893	Q1	1	40-447	L1	3	41-813	A9	2	43-644	M3	5	46-338	A9	2	49-137	J1	4
34-895	E1	4	40-703	L1	4	41-814	A9	2	43-645	M3	5	46-430	N4	2	49-140	O1	1
34-925	G1	4	40-704	L1	4	41-815	A9	2	43-647	M3	5	46-431	N4	2	49-141	O1	1
34-936	G1	4	40-711	L1	4	41-822	A9	2	43-648	M3	5	46-439	N4	1	49-142	O1	1
34-937	G1	4	40-715	L1	4	41-823	A9	2	43-649	M3	5	46-440	N4	2	49-144	O1	1
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49-178	O1	1	49-689	S1	3	50-052	O2	3	52-312	G1	3	66-061	P1	2	87-044	P1	1
49-179	O1	1	49-691	S1	3	50-053	O2	3	52-313	G1	3	66-130	P1	2	87-045	P1	1
49-195	O1	1	49-692	S1	3	50-054	O2	3	52-314	E3	2	66-135	P1	2	87-046	P1	1
49-196	O1	1	49-694	J3	3	50-055	O2	3	52-316	N2	4	66-341	P1	1	87-047	P1	1
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49-226	O3	1	49-702	A5	3	50-070	O2	4	52-318	N1	3	66-359	P1	1	87-130	P1	1
49-228	O3	1	49-703	A5	3	50-071	O2	4	52-319	N2	3	66-369	P1	1	87-135	P1	1
49-229	O3	1	49-704	A5	3	50-072	O2	4	52-320	N2	4	66-379	P1	1	87-149	P1	1
49-230	O3	1	49-711	A5	3	50-073	O2	4	52-321	N1	3	66-383	P1	1	87-312	P1	2
49-231	O3	1	49-713	A4	4	50-074	O2	4	52-325	E3	2	66-712	P1	2	87-318	P1	2
49-233	O3	1	49-715	A5	3	50-075	O2	4	52-328	M1	3	66-730	P1	2	87-352	P1	1
49-243	O3	1	49-728	A4	4	50-076	O2	4	52-330	M1	3	70-100	A2	2	87-353	P1	1
49-244	G6	2	49-729	A4	4	50-077	O2	4	52-333	M1	3	70-111	A2	2	87-359	P1	1
49-245	O3	1	49-730	A4	4	50-078	O2	4	52-342	M1	3	70-121	A2	2	96-321	P1	2
49-247	O3	1	49-739	A4	4	50-079	O2	4	52-345	M1	3	70-131	A2	2	96-330	P1	2
49-250	O3	1	49-743	A4	4	50-080	O2	4	52-346	Q1	1	70-151	A1	3	96-430	P1	2
49-253	G6	2	49-769	A5	2	50-081	O2	4	52-347	Q1	2	70-310	A4	6	96-431	P1	2
49-254	G6	2	49-770	A5	2	50-082	O2	4	52-348	Q1	2	70-311	A4	6	96-442	P1	2
49-255	O3	2	49-774	S1	3	50-083	O2	4	52-357	N2	4	70-430	A4	6	96-443	P1	2
49-271	O1	1	49-812	G2	3	50-084	O2	4	52-358	N1	3	70-584	A3	4	96-630	P1	2
49-272	O1	1	49-814	G2	3	50-090	O2	3	52-361	K3	2	70-585	A3	4	96-634	P1	2
49-273	O1	1	49-819	G2	3	50-104	I5	1	52-362	K3	2	70-586	A3	4	96-672	P1	2
49-284	O1	1	49-825	G2	3	50-106	O1	2	52-363	K3	2	70-593	A3	4	96-673	P1	2
49-287	O1	1	49-826	D1	1	50-111	O1	2	52-364	K3	2	70-594	A3	4	96-725	P1	2
49-289	O1	1	49-828	N1	3	50-114	E3	3	52-365	K3	2	70-595	A3	4	96-730	P1	2
49-291	O1	1	49-829	N1	3	50-118	O1	2	52-366	K3	2	70-602	A3	4	96-771	P1	2
49-294	O1	1	49-831	D1	1	50-120	O1	2	52-367	K3	2	70-603	A3	4	96-772	P1	2
49-303	O1	1	49-837	N1	3	50-121	F2	2	52-374	K3	2	70-604	A3	4			
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49-307	O1	2	49-848	Q1	2	50-126	E2	3	52-377	D1	1	70-613	A3	4			
49-312	Q1	1	49-849	Q1	2	50-138	K4	3	52-378	D1	1	70-620	A3	4			
49-313	Q1	1	49-850	Q1	2	50-139	E2	2	52-379	D1	1	70-621	A3	4			
49-320	O1	2	49-855	N2	4	50-140	O3	1	52-381	E3	2	70-622	A3	4			
49-323	O1	2	49-856	N2	4	50-141	D1	1	52-385	E3	2	70-629	A3	4			
49-324	O1	2	49-864	N2	4	50-150	N2	3	52-399	J1	4	70-630	A3	4			
49-330	Q1	2	49-889	F3	1	50-305	M2	2	52-400	J1	4	70-631	A3	4			
49-331	Q1	1	49-890	F3	1	50-308	O1	2	52-401	J1	4	77-730	A9	3			
49-333	O1	2	49-891	F2	2	50-315	G4	2	52-402	J1	4	77-732	A9	3			
49-334	O1	2	49-892	F2	2	50-329	F3	2	52-403	J1	4	77-733	A9	3			
49-340	O1	1	49-900	F2	2	50-370	F1	3	52-404	M1	4	77-734	A9	3			
49-354	O1	1	49-906	G1	3	50-399	A4	6	52-405	M1	4	77-740	A9	3			
49-357	Q1	1	49-908	G1	3	50-506	A4	6	52-439	J3	4	77-768	A9	3			
49-358	O1	2	49-909	D1	1	50-508	G6	2	52-440	J3	4	77-776	A10	3			
49-359	O1	2	49-912	A5	3	50-510	C10	3	52-442	J3	4	77-783	A10	3			
49-360	H1	1	49-962	A5	3	50-513	O1	2	52-445	J3	4	77-787	A10	3			
49-362	O1	2	49-963	J5	2	50-640	D1	1	52-448	J3	4	77-791	A10	4			
49-363	O1	2	49-964	J5	2	50-641	D1	1	52-451	J3	4	77-795	A10	4			
49-364	O1	2	49-972	J5	2	50-718	L1	4	52-452	I5	1	82-000	P1	1			
49-365	F3	2	49-975	E1	4	50-723	O1	2	52-453	I5	1	82-040	P1	1			
49-387	O1	1	49-977	E1	4	50-726	G3	3	52-454	A3	4	82-041	P1	1			
49-399	Q1	4	49-978	E1	3	50-801	F3	2	52-456	A3	4	83-000	P1	1			
49-415	A9	3	49-981	E1	3	50-864	E2	3	52-460	A3	4	83-001	P1	1			
49-417	Q1	1	49-982	E1	3	51-004	O1	1	52-464	A3	4	83-041	P1	1			
49-435	N4	2	49-985	E1	4	51-007	O1	1				83-070	P1	1			
49-444	A4	4	49-998	A4	4	51-008	O1	1	52-493	P2	1	83-560	P2	1			
49-449	A5	3	50-001	O2	3	51-009	O1	1	52-496	I1	4	83-611	P2	2			
49-473	S1	5	50-002	O2	3	51-010	O1	1	52-497	I1	4	83-621	P1	1			
49-475	S1	5	50-003	O2	3	51-115	Q1	1	57-091	A9	4	83-631	P1	1			
49-476	S1	5	50-004	O2	3	51-330	Q1	1	57-092	A9	4	83-651	P1	1			
49-477	S1	5	50-005	O2	3	51-331	Q1	1	58-006	A9	4	86-000	P1	1			
49-503	I5	1	50-006	O2	3	51-333	Q1	1	60-044	P1	1	86-001	P1	1			
49-508	Q1	4	50-007	O2	4	51-334	Q1	1	60-045	P1	1	86-002	P1	1			
49-510	O1	1	50-008	O2	4	52-002	A4	4	60-054	P1	1	86-040	P1	1			
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49-514	Q1	1	50-010	O2	3	52-008	B1	4	60-056	P1	1	86-045	P1	1			
49-517	Q1	2	50-011	O2	3	52-011	B1	4	60-057	P1	1	86-046	P1	1			
49-530	Q1	2	50-012	O2	3	52-019	S1	3	60-058	P1	1	86-047	P1	1			
49-532	C2	3	50-013	O2	3	52-020	S1	3	62-003	P2	1	86-048	P1	1			
49-533	D1	1	50-014	O2	3	52-021	S1	3	62-010	P2	1	86-070	P1	1			
49-534	D1	1	50-015	O2	3	52-022	S1	3	62-011	P1	1	86-071	P1	1			
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49-538	D1	1	50-018	O2	3	52-032	S1	3	62-020	P1	1	86-530	P1	2			
49-539	D1	1	50-019	O2	3	52-051	K4	2	62-042	P2	1	86-535	P1	2			
49-541	D1	1	50-020	O2	4	52-052	K4	2	62-110	P1	1	86-730	P1	2			
49-560	O1	1	50-021	O2	4	52-056	K4	2	62-129	P2	1	86-735	P1	2			
49-586	O2	2	50-022	O2	4	52-060	K4	2	62-144	P2	1	86-909	P1	1			
49-589	O3	1	50-023	O2	4	52-088	G2	3	62-146	P1	1	86-930	P1	1			
49-590	O3	1	50-024	O2	4	52-096	F2	2	62-680	P1	1	86-932	P1	1			
49-597	O2	2	50-025	O2	4	52-113	J5	2	62-683	P1	1	86-935	P1	1			
49-610	D1	2	50-026	O2	4	52-124	E1	4	65-863	A7	2	86-937	P1	1			
49-611	D1	2	50-027	O2	4	52-138	G1	3	66-016	P1	1	86-969	P1	1			
49-618	D1	2	50-028	O2	4	52-139	G1	3	66-017	P1	1	87-000	P1	1			
49-619	D1	2	50-029	O2	4	52-141	G1	3	66-018	P							

# Rockwell Industrial Machines safety designed with you in mind



## Play it safe!

Rockwell Industrial Machines are built to the highest quality standards, and they are scientifically designed for maximum operator safety. Take advantage of their built-in protective features by observing the following safety rules:

1. Read the instruction manual thoroughly before operating the power tool.
2. If you are not familiar with the operation of the tool, obtain advice from your supervisor, instructor, or other qualified operator.
3. Remove tie, rings, watch and other jewelry and roll up sleeves. *Do not wear loose clothing.*
4. Always wear safety glasses or a face shield.
5. Keep safety guards in place and use them at all times.
6. Be sure the shop has adequate ventilation and lighting, especially in the area of the cutting tool on the machine.
7. Always make sure the power tool is properly grounded.
8. Always make sure the cutting tool is sharp and correctly positioned.
9. Always keep the work area clean. *Avoid cluttered areas.*
10. Remove adjusting keys and wrenches before turning on the power.
11. Always disconnect the tool from the power source when making repairs or adjustments.
12. Never start or run an electric tool when there is any danger of fire or explosion due to the presence of inflammable or explosive materials.

We strongly urge that you carefully read the Operating Suggestions and Safety Instructions furnished with each machine. Additional instructional manuals are available on request to replace lost or misplaced manuals. Remember, safety begins with the manufacturer but ends with you, the user!

# ROCKWELL METAL LATHES

## 14" METAL LATHE 41" Between Centers

Ruggedly built, this safety engineered Rockwell 14" Metal Lathe is precision made to produce superior work. Check these typical quality features:

**New 24-volt control** at the magnetic control station assures greater operator safety. **Clutch-brake control**, that is built-in, stops spindle in seconds for loading and unloading workpieces.

**Feed reverse lever** can be shifted FORWARD,

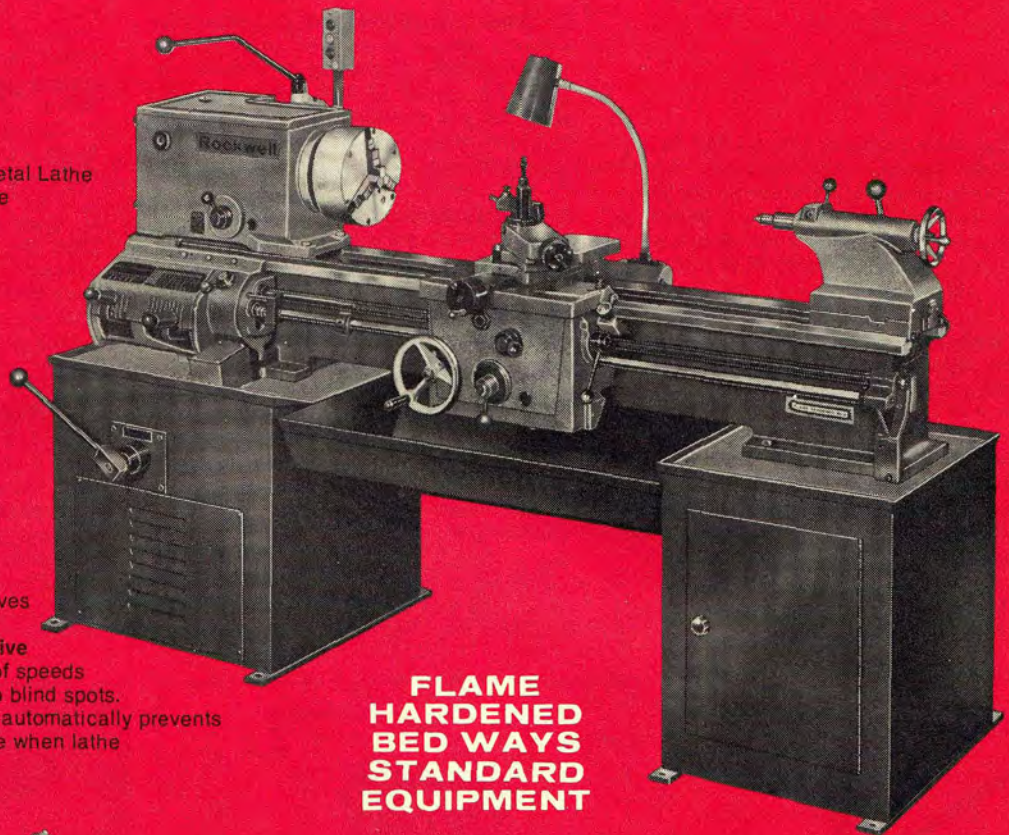
NEUTRAL OR REVERSE, while the lathe is running.

**Dual drive for carriage**

provides a separate rod for all power feeding . . . preserves lead screw accuracy for threading. **Variable speed drive**

provides an infinite choice of speeds from 40 to 1750 RPM with no blind spots.

**Saddle feed kick-off device** automatically prevents carriage from striking spindle when lathe is left unattended.



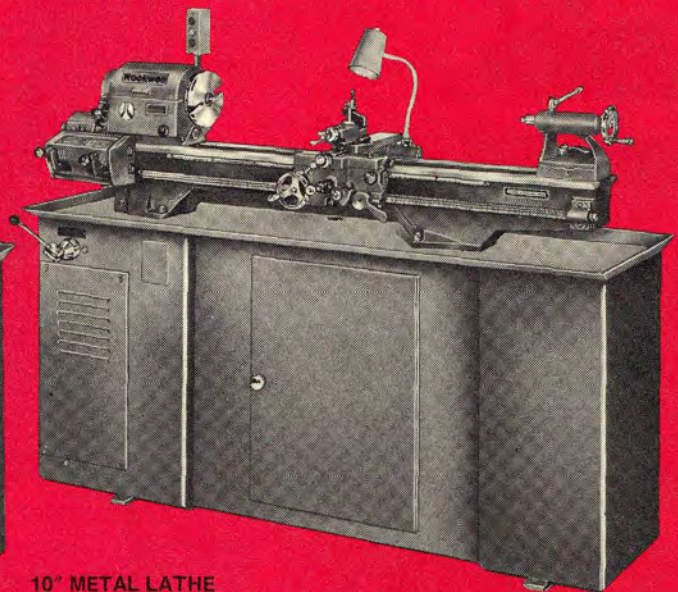
**FLAME  
HARDENED  
BED WAYS  
STANDARD  
EQUIPMENT**



## 11" METAL LATHE 36" Between Centers

*Gives you big machine performance without big machine cost!*

No matter what your requirements—production capacity, tool-room precision, or school shop safety—you'll get all the machine you need when you choose a Rockwell 11" Metal Lathe. You can make heavier cuts, faster, because these lathes give you the "beef" you'd normally expect only from machines costing much more. And safe, close tolerance operations on every job are assured by the many built-in features exclusive with Rockwell. Available with a complete range of accessories to help you match the tool to your job.



## 10" METAL LATHE 36" Between Centers

*No comparable lathe offers so much real value!*

You'll like everything about this Rockwell 10" Lathe—its modern look, on-the-job performance, and especially the low price. Designed for industry, schools or small workshops, it fills the need for a safe, low cost, precision lathe with heavy duty capacity.

You get *variable speed drive, 3/4" collet capacity, massive, double row, precision ball bearing at the work load end of the spindle*—an exclusive combination of features never before available on a lathe this size at comparable cost.

# Rockwell Metal Lathes

## PRECISION PERFORMING MACHINE TOOLS THAT ARE SAFETY ENGINEERED FOR INDUSTRY!

**A. Exclusive Rockwell LVC 24-Volt Safety Control System.** All Rockwell Metal Lathes offer a low 24 volts at the magnetic control station for greater operator safety... 3-leg overload on three phase systems provides greater motor protection.

**B. Modern, Perfected Variable Speed Drive.** Gives you all the advantages of a variable speed drive with an infinite choice of speeds from low to high range. An extra shaft between the variable speed drive pulley and the spindle on 11" and 14" models makes possible high speed power transmission while twin V-belts transmit steady power to the spindle.

**C. Quick Operating Speed Selector.** Variable speed drive utilizes a fast-acting

lever for making speed changes quickly from low to high range. When lever is "pushed in", a built-in cam lock holds speed constant, even under heavy loads.

**D. Quick Change Gear Box.** Gear Box provides a choice of 54 feed rates and 54 thread pitches (including 27 threads per inch) by means of two selector levers with rugged, needle bearing equipped tumbler gears. Thread and feed chart makes it easy to set selector levers.

**E. Modern Carriage Has Convenient Controls.** Micrometer collars are large in size for easy, direct reading while lock knobs prevent slippage. The large apron handwheel with its "loose" handwheel, the fast-action clutch lever, the unique feed selector lever, and the lever for half-nuts, all have been designed with the operator in mind. Lock-out feature of feed selector prevents the simultaneous setting for power feeding and threading.

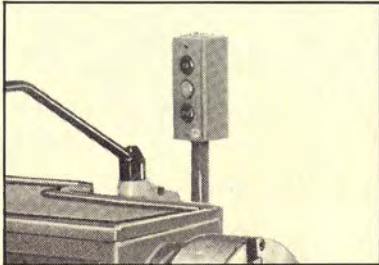
**F. Extra Deep Bed is Equipped With Flame Hardened Ways.** The extra strong "backbone" on Rockwell Metal Lathes is provided by a heavy, massive bed that is both wide and deep. Bracing is stress engineered for continued accuracy. Preci-

sion ground V and flat ways are flame hardened to assure longer life and continued accuracy.

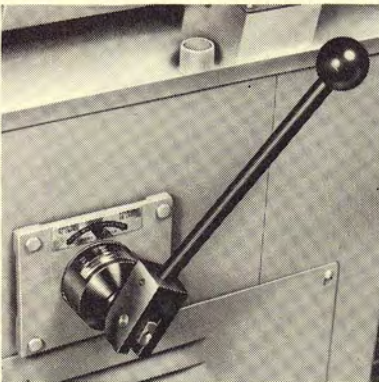
**G. Rugged Tailstock.** Husky, compact, easy to move and adjust. Ram is graduated in  $\frac{1}{16}$ " and has a No. 3 M.T. (No. 2 M.T. on 10" Model). On 14" and 11" lathes, ram has a tang slot for easy removal of tooling with a tang-type No. 3 M.T. shank. Tailstock has an off-set feature for taper turning and an ejection feature for centers.

**H. Standard Equipment Thread Chasing Dial.** You don't have to pay extra for an accessory Thread Chasing Dial on Rockwell Metal Lathes because it's built-in. Dial speeds up the cutting of both external and internal threads because it is instantly available and always operating.

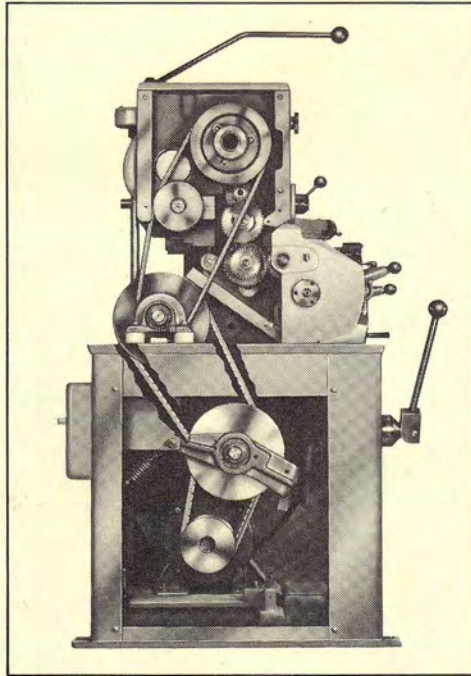
**I. Exclusive Built-in Thread Stop.** Only Rockwell 14" and 11" Metal Lathes provide a built-in thread stop at no extra cost. Photo shows bottom side of stop for clarity. To operate, simply push in to engage; pull out to disengage. Makes thread cutting twice as easy and twice as fast. Provides a positive stop that cannot become lost or misplaced like the conventional "clamp-on" type.



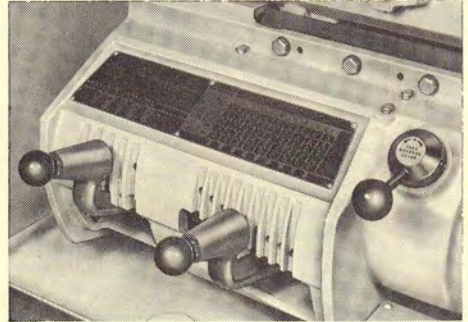
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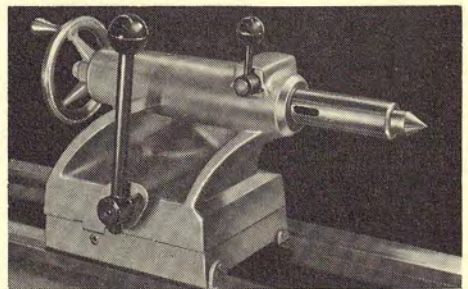
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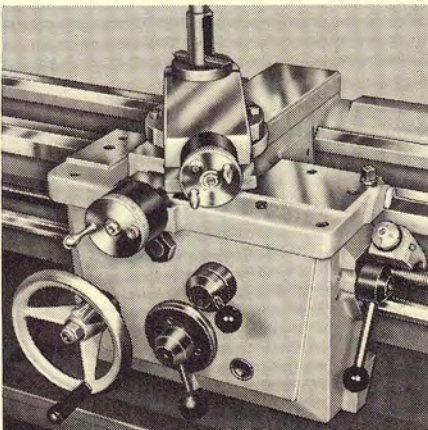
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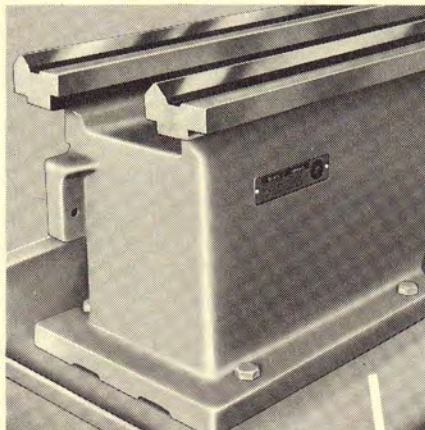
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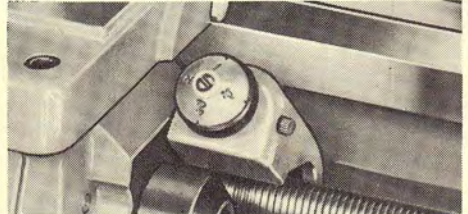
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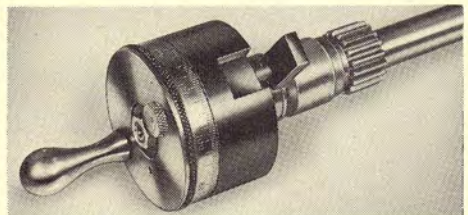
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E. F.



H.



I.

## CATALOG LISTING

### CONVENIENT ONE NUMBER ORDERING

#### FOR SINGLE PHASE OPERATION

†No. 25-490 14" Metal Lathe Complete. Includes L-00 tapered key drive spindle nose; hardened bed, 41" between centers; clutch and brake assembly; 3 HP, 115/230 V, 1725 RPM, 60 hertz, single phase motor with 24 V push button reversing station, magnetic starter, transformer and overload protection, mounted and wired for 230 V only; and Standard Equipment as listed. 2047 lbs.

#### FOR THREE PHASE OPERATION

†No. 25-491 14" Metal Lathe Complete. Includes L-00 tapered key drive spindle nose; hardened bed, 41" between centers;

clutch and brake assembly; 5 HP, 230/460 V, 1725 RPM, 60 hertz, three phase motor with 24 V push button reversing station, magnetic starter, transformer and 3-leg overload protection, mounted and wired for 230 V, unless 460 is specified; and Standard Equipment as listed. 2037 lbs.

†No. 25-492 14" Metal Lathe Complete. Same as No. 25-491, except wired for 200 V. 2037 lbs.

†Where electrical controls must comply with ANSI B-11 Series Machine Tool Standards, NFPA 79 Standard or JIC Standards, the No. 49-001 Electrical Kit must be ordered in addition to the Catalog Number for the All-Inclusive Machine.

## MACHINE DATA

### CAPACITY

Swing over bed and saddle wings ..... 14 $\frac{1}{4}$ " (361.9 mm)  
Swing over cross slide ..... 9 $\frac{1}{8}$ " (231.8 mm)  
Between centers (tailstock completely on bed) ..... 41" (1041.4 mm)  
Hole through spindle (takes 1 $\frac{1}{2}$ " bar stock) ..... 1 $\frac{1}{2}$ " (38.1 mm)  
Maximum capacity with 5-C style collet ..... 1 $\frac{1}{8}$ " (27 mm)

### SPINDLE SPEEDS (with 1725 rpm motor)

Infinite choice of speeds in direct drive ..... 240-1750 rpm  
Infinite choice of speeds in gear drive ..... 40-290 rpm

### THREADS AND FEEDS

Quick change gear box has 54 thread changes L.H. or R.H. . . . 4, 4 $\frac{1}{2}$ , 5, 5 $\frac{1}{2}$ , 5 $\frac{3}{4}$ , 6, 6 $\frac{1}{2}$ , 6 $\frac{3}{4}$ , 7, 8, 9, 10, 11, 11 $\frac{1}{2}$ , 12, 13, 13 $\frac{1}{2}$ , 14, 16, 18, 20, 22, 23, 24, 26, 27, 28, 32, 36, 40, 44, 46, 48, 52, 54, 56, 64, 72, 80, 88, 92, 96, 104, 108, 112, 128, 144, 160, 176, 184, 192, 208, 216, 224.  
Lead Screw (no keyway) ..... 1" (25.4 mm) dia. Acme x 8 t.p.i.  
Feed Rod ..... 3 $\frac{1}{4}$ " (19.05 mm) hex.  
Longitudinal Feeds ..... .54 feeds from .0017" to .099" (.0432 mm to 25.1 mm)

Cross Feeds ..... .54 feeds from .00089" to .052" (.02261 mm to 1.321 mm)

### HEADSTOCK

Back Gears (Run in oil) ..... 6 to 1 ratio  
Spindle (Heat treated and ground alloy steel)

Has three precision ball bearings.  
Two outboard bearings are single row ..... 3 $\frac{1}{16}$ " O.D. (100 mm)  
Inboard bearing is double row ..... 5 $\frac{1}{8}$ " O.D. (130.175 mm)  
Center used ..... No. 3 M.T.  
Taper Hole in Nose ..... .05262 taper per inch (1.33655 taper per mm)  
Spindle Nose: Standard—Long Taper Key Drive, size ..... L-00  
Drive ..... Variable Speed, plus outboard twin V-belts

## STANDARD EQUIPMENT

- Lathe with Hardened Bed Ways
- Motor with 24 V Controls
- Clutch-Brake Control
- Cabinet with Chip and Coolant Pan
- Two Shelves in Tailstock Pedestal
- Quick Change Gear Box
- Saddle Feed Kick-Off Device
- Variable Speed Drive Complete with All Belts
- Thread Chasing Dial
- Motor Pulley
- Tool Post, Ring and Rocker
- 9" Drive Plate
- Two 60° Centers (one hard, one soft)
- Combination Wrench for Tool Post, Compound Swivel, Carriage Lock, etc.
- Spindle Adapter, No. 3 M.T.I.D.
- Spanner Wrench for Spindle Nose Draw Nut (with L-00 Taper Nose)
- Lubrication Chart
- Instruction and Parts Manual

### CARRIAGE

Length of saddle V-way ..... .16" (406.4 mm)  
Width of saddle bridge ..... 5 $\frac{1}{4}$ " (133.35 mm)  
Cross slide travel ..... .8" (20.3 mm)  
Compound slide travel ..... 4 $\frac{3}{4}$ " (120.7 mm)  
Tool Post Opening (takes standard tool holders for 3 $\frac{1}{8}$ " (9.525 mm) bits) 1 $\frac{1}{16}$  x 1 $\frac{1}{8}$ " (17.46 x 47.6 mm) Compound  
Slide ... graduated 90° in both directions, with three witness marks  
Apron ..... double wall, oil bath type

### TAILSTOCK (has automatic center ejection)

Ram diameter ..... 1 $\frac{1}{2}$ " (37.3 mm); has No. 3 M.T. with tang slot  
Ram travel ..... 5 $\frac{1}{2}$ " (139.7 mm)  
Length of graduations marked on ram by 1 $\frac{1}{16}$ ths ..... 5 $\frac{1}{2}$ " (139.7 mm)  
Center used ..... No. 3 M.T.  
Method of clamping ..... Lever and Cam  
Set-over (either direction) ..... 3 $\frac{1}{4}$ " (19.05 mm)

### BED (hardened)

Length ..... .74" (1879.6 mm)  
Width ..... 9 $\frac{9}{16}$ " (244.5 mm); Depth ..... 10 $\frac{7}{16}$ " (276.2 mm)  
Width of V's ..... 1" (25.4 mm)  
Has two prismatic V-ways and two flat ways (precision ground).

### OVERALL DIMENSIONS

Cabinet and Machine ..... 86" (218.4 mm) left to right x 25" (635 mm) front to rear x 48" (1219.2 mm) high  
Chip and Coolant Pan (detachable) ..... has 1 $\frac{1}{2}$ " (12.7 mm) pipe tap

### MOTORS

Accommodates NEMA frame motors .. 145T-182T-184-184T-213-213T  
Speed recommended ..... 1725 rpm

## ROCKWELL QUALITY EXTRAS

- Standard equipment coolant-chip pan has bevelled design for easy chip removal and clean up.
- Clutch-brake control speeds up production while providing maximum operator safety.
- Automatic saddle feed kick-off device prevents carriage from striking spindle chuck when lathe is left unattended.
- Dual drive for carriage provides a separate rod for power feeding.
- Massive headstock has positive lock-out that makes it impossible to engage back gears while in direct drive or vice versa.
- All headstock gears are oil-bath lubricated.
- Double wall, oil bath apron assures proper lubrication.
- Built-in thread stop makes thread cutting twice as easy and twice as fast.
- Rugged tailstock locks by preferred cam-action control.

**FLAME HARDENED BED WAYS—STANDARD EQUIPMENT**

## CATALOG LISTING

### CONVENIENT ONE NUMBER ORDERING

#### FOR SINGLE PHASE OPERATION

**No. 25-450 11" Metal Lathe Complete.** Includes L-00 tapered key drive spindle nose; hardened bed, 36" between centers; 1½ HP, 115/230 V, 1725 RPM, 60 hertz, single phase motor with 24 V push button reversing station, magnetic starter, transformer and overload protection, mounted and wired for 230 V, unless 115 V is specified; power cord and plug; and Standard Equipment as listed. 981 lbs.

#### FOR THREE PHASE OPERATION

†**No. 25-451 11" Metal Lathe Complete.** Includes L-00 tapered key drive spindle nose; hardened bed, 36" between centers;

3 HP, 230/460 V, 1725 RPM, 60 hertz, three phase motor with 24 V push button reversing station, magnetic starter, transformer and 3-leg overload protection, mounted and wired for 230 V, unless 460 V is specified; and Standard Equipment as listed. 1014 lbs.

†**No. 25-452 11" Metal Lathe Complete.** Same as No. 25-451, except wired for 200 V. 1014 lbs.

†**Where electrical controls must comply with ANSI B-11 Series Machine Tool Standards, NFPA 79 Standard or JIC Standards, the No. 49-001 Electrical Kit must be ordered in addition to the Catalog Number for the All-Inclusive Machine.**

## MACHINE DATA

### CAPACITY

Swing over bed and saddle wings ..... 11½" (280.99 mm)  
Swing over cross slide ..... 67/16" (163.5 mm)  
Between centers with L-00 tapered key drive nose ... 36" (814.4 mm)

### THREADS AND FEEDS

Quick change gear box with 54 thread and feed changes R.H. or L.H.  
Threads ... 4, 4½, 5, 5½, 5¾, 6, 6½, 6¾, 7, 8, 9, 10, 11, 11½, 12, 13, 13½, 14, 16, 18, 20, 22, 23, 24, 26, 27, 28, 32, 36, 40, 44, 46, 48, 52, 54, 56, 64, 72, 80, 88, 92, 96, 104, 108, 112, 128, 144, 160, 176, 184, 192, 208, 216, 224.

Range of feed rates per revolution:

Longitudinal ..... .0902—.0016; Cross ..... .0301—.0005  
Lead Screw ..... ¾" (19.05 mm) dia. Acme x 8 t.p.i.

### SPINDLE AND HEADSTOCK

Infinite stepless speeds in direct drive ..... 220-1550 rpm  
Infinite stepless speeds in back gear ..... 45-250 rpm  
Spindle dia. at roller bearings ..... 2¼" (57.15 mm)  
Spindle center ..... takes No. 2 M.T.  
Hole through spindle ..... 1¾" (34.925 mm)  
Maximum collet capacity (5-C type collet) ..... 1½" (26.9875 mm)

### BED (furnished with leveling screws)

Length ..... 61¼" (1555.8 mm)  
Width ..... 8¼" (209.5 mm); Depth ..... 57/8" (149.2 mm)  
Width of V's ..... ¾" (19.05 mm)

### CROSS SLIDE AND COMPOUND REST

Length of saddle V-way ..... 12¾" (314.3 mm)  
Width of bridge ..... 4¼" (107.95 mm)  
Cross slide travel ..... 6¾" (171.45 mm)  
Compound travel ..... 2¼" (57.15 mm)  
Travel of cross slide with taper attachment locked ... 6¾" (157.2 mm)  
Travel of carriage with taper attachment locked ... 97/16" (230.2 mm)  
Maximum cross travel of tool by taper attachment ... 1¾" (34.9 mm)  
Powered cross feed ..... Wipers for saddle

### TOOL POST

¾" x 17/16" (14.29 mm x 36.5 mm) opening takes standard tool holders for ¾" (7.94 mm) bits

### TAILSTOCK

Ram ..... dia. 1¾" (34.9 mm); travel 2¾" (69.85 mm); has No. 3 M.T. with tang slot  
Length of graduations marked on spindle by 1/16ths ... 3" (76.2 mm)  
Center ..... No. 3 M.T.  
Set-over ..... ¾" (19.05 mm)

### OVERALL DIMENSIONS

Cabinet and Machine ..... 69¾" (1771.7 mm) left to right x 25½" (647.7 mm) front to rear x 49½" (1257.3 mm) high  
Coolant pan ..... 1¾" x 22½" x 68" (30.2 x 571.5 x 1727.2 mm) outside dimensions  
Drain hole at rear has ½" (12.7 mm) pipe tap

### MOTORS

Accommodates NEMA frame motors ..... 143T-145T-182-182T

## STANDARD EQUIPMENT

- Lathe with Hardened Bed Ways
- Motor with 24 V Controls
- Cabinet with Coolant Pan, Doors and Shelves
- Quick Change Gear Box
- Variable Speed Drive Complete with Belts
- Extra Shear Pins
- Thread Chasing Dial
- Thread Cutting Stop
- Motor Pulley for ¾" Shaft
- Tool Post, Ring and Rocker
- 7" Diameter Drive Plate
- Two 60° Centers. No. 2 MT for Headstock—No. 3 MT for Tailstock
- Combination Wrench for Tool Post, etc.
- Spindle Adapter, No. 2 MT I.D.
- Box Wrench for Tailstock
- Spanner Wrench for Draw Nut (included on tapered nose models only)

## ROCKWELL QUALITY EXTRAS

- Standard equipment coolant-chip pan has bevelled design for easy chip removal and clean up.
- Cabinet contains built-in levelling jacks that guarantee proper alignment for precision work.
- Adjusting collar enables all play to be removed from spindle.
- Headstock has two zero precision, tapered roller bearings at spindle nose end ... extra large, lubricated-for-life ball bearing at outboard end.
- Massive 2¼" diameter spindle eliminates chatter on heavy cuts.
- Unique drive selector can be shifted to loose spindle, locked spindle, back gear drive or direct drive simply by moving the selector lever.
- Apron has double wall construction to assure proper lubrication.
- Built-in thread stop makes thread cutting easy and fast.
- Precision cut lead screw has a hidden, easily accessible shear pin ... T-section key way prevents wear on thread and damage to half-nuts.
- Tailstock ram has a tang slot for positive drive of twist drills.

**FLAME HARDENED BED WAYS—STANDARD EQUIPMENT**

## CATALOG LISTING

### CONVENIENT ONE NUMBER ORDERING

#### FOR SINGLE PHASE OPERATION

**No. 25-425 10" Metal Lathe Complete.** Includes cabinet with underneath drive; 1½"—8 threaded spindle nose; hardened bed, 36" between centers; 1 HP, 115/230 V, 1725 RPM, 60 hertz, single phase motor with 24 V push button reversing station, magnetic starter, transformer and overload protection, mounted and wired for 115 V, unless 230 V is specified; power cord and plug; and Standard Equipment as listed. 705 lbs.

bed, 36" between centers; 1 HP, 230/460 V, 1725 RPM, 60 hertz, three phase motor with 24 V push button reversing station, magnetic starter, transformer and 3-leg overload protection, mounted and wired for 230 V, unless 460 V is specified; and Standard Equipment as listed. 716 lbs.

†**No. 25-427 10" Metal Lathe Complete.** Same as No. 25-426, except wired for 200 V. 716 lbs.

#### †FOR THREE PHASE OPERATION

**No. 25-426 10" Metal Lathe Complete.** Includes cabinet with underneath drive; 1½"—8 threaded spindle nose; hardened

†**Where electrical controls must comply with ANSI B-11 Series Machine Tool Standards, NFPA 79 Standard or JIC Standards, the No. 49-001 Electrical Kit must be ordered in addition to the Catalog Number for the All-Inclusive Machine.**

## MACHINE DATA

### CAPACITY

Swing over bed and saddle wings	10½" (257.2 mm)
Swing over cross slide	6" (152.4 mm)
Between centers (tailstock completely on bed)	36½" (927.1 mm)
Hole through spindle	1½" (23.81 mm)
Maximum capacity with 4-C style collet	¾" (19.05 mm)

### THREADS AND FEEDS

Quick change gear box has 54 thread and feed changes L.H. or R.H. Threads, 4, 4½, 5, 5½, 5¾, 6, 6½, 6¾, 7, 8, 9, 10, 11, 11½, 12, 13, 13½, 14, 16, 18, 20, 22, 23, 24, 26, 27, 28, 32, 36, 40, 44, 46, 48, 52, 54, 56, 64, 72, 80, 88, 92, 96, 104, 108, 112, 128, 144, 160, 176, 184, 192, 208, 216, 224.

Range of feed rates per spindle revolution

Longitudinal	.0810-.0014;	Cross	.0413-.0007
Lead Screw	¾" (19.05 mm) dia. Acme 8 t.p.i.		

### SPINDLE AND HEADSTOCK

Infinite choice of speeds in direct drive	250-1500 rpm
Infinite choice of speeds in gear drive	50-300 rpm
Spindle (Hardened and ground alloy steel)	
Diameter at inboard bearing	1½½" (50 mm)
Center used	No. 2 M.T.
Nose	(Has ground threads) 1½"-8
Hole	modified (shortened) No. 9 B. & S.

### BED (heavy U-section cross braces)

Has two V-ways and two flat ways	
Length	56¾" (1431.9 mm)
Width	67/8" (163.5 mm); Depth (in center) 4¼" (107.95 mm)
Width of V's	¾" (14.29 mm)

### CARRIAGE

Length of saddle V-way	10" (254 mm);
width of saddle bridge	3¾" (82.55 mm)
Cross slide travel	6" (152.4 mm);
compound slide travel	2" (50.8 mm)

### TOOL POST

7/8 x 1¼" (22.2 x 1.59 mm) opening (takes standard tool holders for ¼" (6.35 mm) bits)

### TAILSTOCK (has automatic center ejection)

Ram diameter	1½" 28.58 mm); Ram travel	2½" (63.5 mm)
Length of graduations marked on ram, by 1/16ths		2½" (63.5 mm)
Center used		No. 2 M.T.
Set-over adjustment (either way) for taper turning		1/16" (17.46 mm)

**OVERALL DIMENSIONS** . . . 66¾" (1695.5 mm) left to right x 22¼" (565.2 mm) front to rear x 45½" (1155.7 mm) high

### MOTORS

Accommodates NEMA FRAME MOTOR	56
Speed recommended	1725 rpm

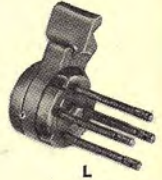
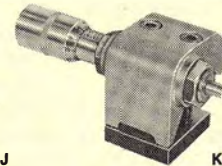
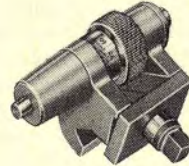
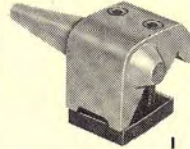
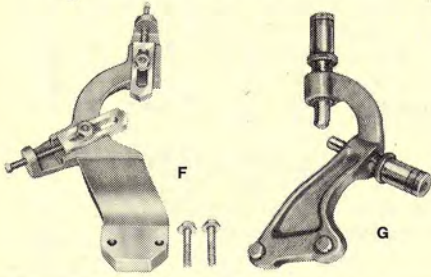
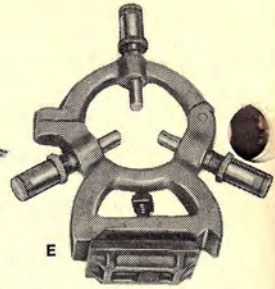
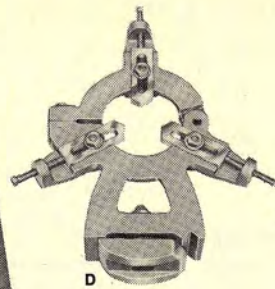
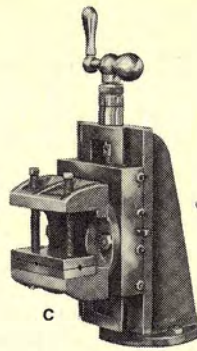
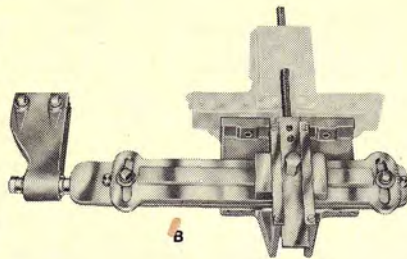
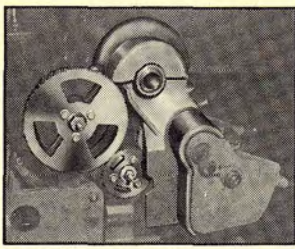
## STANDARD EQUIPMENT

- Lathe with Hardened Bed Ways
- Motor with 24 V Controls
- Quick Change Gear Box
- Matched V-Belts for Spindle
- Variable Speed Drive Complete, Including Belts
- Motor Pulley
- 6" Diameter Drive Plate
- Centers for Headstock and Tailstock
- Tool Post, Ring and Rocker
- Spindle Adapter, No. 2 Morse Taper I.D.
- Thread Chasing Dial
- Combination Wrench for Tool Post, etc.
- Box Wrench for Tailstock
- Extra Shear Pins

## ROCKWELL QUALITY EXTRAS

- Standard equipment coolant-chip pan has bevelled design for easy chip removal and clean up.
- Cabinet contains built-in levelling jacks that guarantee proper alignment for precision work.
- ¾" through-the-hole spindle capacity using 4-C style steel collets . . . 1½/16" capacity with Jacobs Rubber-Flex Collets.
- Massive, double row, precision ball bearing at spindle nose end features angular contact and internal preloading to prevent all play.
- Large ball bearing at outboard end "floats" to compensate for expansion as spindle warms up.
- Compound slide rest, even in most forward position, does not overhang swivel bearing pad.
- A pron has a thread dial as Standard Equipment.
- Half-nuts have a special, crisp-action design.
- Powerful clutch has an infinite choice of settings—can be pre-set to slip when overloaded, or can be instantly adjusted, even while lathe is running, for heavy power transmission.
- Rugged, modern tailstock is easy to move and adjust . . . can be accurately offset for taper turning.

**FLAME HARDENED BED WAYS—STANDARD EQUIPMENT**



## A COMPLETE LINE OF ENGINEERED ACC

**METRIC TRANSPOSING GEAR KITS**—With transposing gear, stud gears and everything needed to convert lathes for cutting standard metric thread pitches. Include instructions for field mounting.

- A For 10" Metal Lathe. 24 lbs. .... No. 25-875
- For 11" Metal Lathe. 28 lbs. .... No. 25-630
- For 14" Metal Lathe. 72 lbs. .... No. 25-245

**TAPER ATTACHMENTS**—Telescoping type. Used for boring and turning tapers at one setting with adjustment by means of a micrometer screw. Not necessary to disconnect cross feed screw to change from straight to taper turning. Includes instructions for field mounting. For factory mounting, add \$20 and specify "Factory Mounted" when ordering.

- B For 10" Metal Lathe. Maximum taper up to 8 1/4" at one setting, 3 1/2" per foot, 16° included angle. 40 lbs. .... No. 25-856
- For 11" Metal Lathe. Maximum taper up to 9 1/2" at one setting, 3 1/2" per foot, 17° included angle. 34 lbs. .... No. 25-656
- For 14" Metal Lathe. Maximum taper up to 9 3/4" at one setting, 3 1/2" per foot, 18° included angle. Binding lever can be left loose while cutting tapers to permit rapid approach to work by means of cross slide handwheel, or binding lever can be tightened so that cross slide is directly traversed by means of the cross slide pull bar. 140 lbs. .... No. 25-222

**MILLING ATTACHMENTS**—Universal work-holding fixtures for milling, keyway cutting, boring, etc. Vise opens to 1 3/4" with 1 1/2" x 3 1/2" jaws, each provided with two V grooves for round stock. Vertical travel is 4 1/2" by means of ball crank handle. Zero start micrometer collar is calibrated in .001.

- C For 10" Metal Lathe. 25 lbs. .... No. 25-822
- For 11" Metal Lathe. Includes No. 25-520 No. 3 M.T. spindle adapter. 26 lbs. .... No. 25-651

### STEADY RESTS

- D For 10" Metal Lathe. 3/16" to 3" capacity. 12 lbs. .... No. 25-852
- For 14" Metal Lathe. 3/16" to 4 3/4" capacity. 25 lbs. .... No. 25-223
- E For 11" Metal Lathe. 3/16" to 3 1/2" capacity. Deluxe type with telescoping brass jaws. 20 lbs. .... No. 25-652

### FOLLOWER RESTS

- F For 10" Metal Lathe. 3/16" to 3" capacity. 10 lbs. .... No. 25-850
- For 14" Metal Lathe. 3/16" to 4 3/4" capacity. 14 lbs. .... No. 25-224
- G For 11" Metal Lathe. 3/16" to 2 3/4" capacity. Deluxe type with telescoping brass jaws. 14 lbs. .... No. 25-650

**LATHE CHUCKS**—BACK THREADED OR INCLUDE FITTED CHUCK PLATE. WRENCH INCLUDED.

Size	No. of Jaws	For Spindle Nose	Lathe Size	Wt., Lbs.	Cat. No.
5"	3	1 1/2"-8	10"	8	25-870*
6"	3	L-00	11", 14"	23	25-572*†
9"	3	L-00	14"	63	25-217*†
6"	6	L-00	11", 14"	25	25-580*†
6"	4	1 1/2"-8	10"	9	25-873
8"	4	L-00	11", 14"	26	25-576
10"	4	L-00	14"	63	25-232

\*Includes internal and external jaws. †Has reversible top jaws. ‡Adjust-Tru.

**DRILL CHUCK**—3-jaw key type, 0-1/2" capacity, with No. 2 M.T. shank. Includes chuck key. 2 1/2 lbs. .... No. 46-968

**DRILL CHUCK**—3-jaw key type, 0-1/2" capacity, with No. 3 M.T. shank. Includes chuck key. 3 lbs. .... No. 17-820

**PLAIN CARRIAGE STOPS**—Used on either side of carriage to provide a positive longitudinal feed stop for cutting shoulders, etc. Include parts for mounting on front V-way of bed.

- H For 10" Metal Lathe. 2 lbs. .... No. 25-853
- For 11" Metal Lathe. 2 lbs. .... No. 25-653
- I For 14" Metal Lathe. 5 lbs. .... No. 25-227

**MICROMETER CARRIAGE STOPS**—Used on either side of carriage to provide a positive longitudinal feed stop for cutting shoulders, etc. Micrometer collar is graduated in .001", provides accurate setting, is self locking by means of a unique spring lock feature. Include parts for mounting on front V-way of bed.

- J For 10" Metal Lathe. 2 1/2 lbs. .... No. 25-854
- For 11" Metal Lathe. 3 lbs. .... No. 25-654
- K For 14" Metal Lathe. 2 lbs. .... No. 25-228

**FOUR-POSITION CARRIAGE STOPS**—Used to provide up to four positive longitudinal feed stops for repetitive operations like spacing shoulders on shafts, etc. Stop fingers are knurled for easy setting and locked by set screws. Include parts for mounting to front V-way of bed.

- L For 11" Metal Lathe. 4" range. 5 lbs. .... No. 25-655
- M For 14" Metal Lathe. 4 1/2" range. Includes stop finger for carriage, extension hub for back gear engagement shaft and instructions for mounting. 11 lbs. .... No. 25-240

**SAFETY TYPE LATHE DOGS**—Bent tail type. Made of forged, selected steel. Include socket screw and wrench.

Capacity, In.	Lathe Size	Duty	Wt., Lbs.	Cat. No.
3/8	10", 11"	Lt.	1/2	25-861
1/2	10", 11"	Lt.	1/2	25-862
3/4	10", 11"	Lt.	1/2	25-863
1	10", 11"	Lt.	3/4	25-864
1 1/4	10", 11"	Lt.	1	25-865
1 1/2	10", 11"	Lt.	1	25-866
3/4	11", 14"	Hvy.	1/2	25-661
1/2	11", 14"	Hvy.	1/2	25-662
3/4	11", 14"	Hvy.	3/4	25-663
1	11", 14"	Hvy.	1	25-664
1 1/4	11", 14"	Hvy.	2	25-665
1 1/2	11", 14"	Hvy.	2 1/4	25-666
1 3/4	14"	Hvy.	3 1/2	25-262
2	14"	Hvy.	4	25-263

### DRIVE PLATES

Dia. In.	For Spindle Nose	Slots	Lathe Size	Wt., Lbs.	Cat. No.
6	1 1/2"-8	2	10"	4	25-840
7	L-00	1	11", 14"	7	25-642
9	L-00	2	11", 14"	13	25-225

### FACE PLATES

Dia. In.	For Spindle Nose	Slots	Lathe Size	Wt., Lbs.	Cat. No.
9	1 1/2"-8	8	10"	14	25-839
10	L-00	8	11", 14"	13	25-646
13 1/2	L-00	8	14"	38	25-226

**ROUGH CHUCK PLATES**—These are high quality cast iron plates with enough stock left to be fitted to chucks requiring chuck plate of diameter indicated. Without holes for mounting chuck.

For 11" and 14" Metal Lathes. 10" for L-00 tapered nose. 32 lbs. .... No. 25-246

**STEEL COLLETS**—Self-releasing type for holding round stock. Heat treated and hardened.

Quantity	Capacities	Lathe Sizes	Wt., Lbs.	Cat. No.
Set of 6 (4C)	1/16" to 3/8" by 16ths	10"	4	25-800
Set of 6 (4C)	1/16" to 3/8" by 16ths	10"	4	25-810
Set of 8 (5C)	1/16" to 1/2" by 16ths	11", 14"	5	25-600
Set of 8 (5C)	1/16" to 1" by 16ths	11", 14"	5	25-610

### RACKS FOR STEEL COLLETS

For 10" Metal Lathe. Holds 19 collets, 2 centers, nose cap, spanner wrench and draw bar. 12 lbs. .... No. 25-828

For 11" Metal Lathe. Holds 17 collets, wrench, collet sleeve and draw bar. Swivel or rigid mounting. 14 lbs. .... No. 25-628

P For 14" Metal Lathe. Holds 32 collets, collet sleeve. 6 lbs. .... No. 25-235

**DRAW BARS FOR COLLETS**—Have hardened threads, ball thrust bearing and collet sleeve.

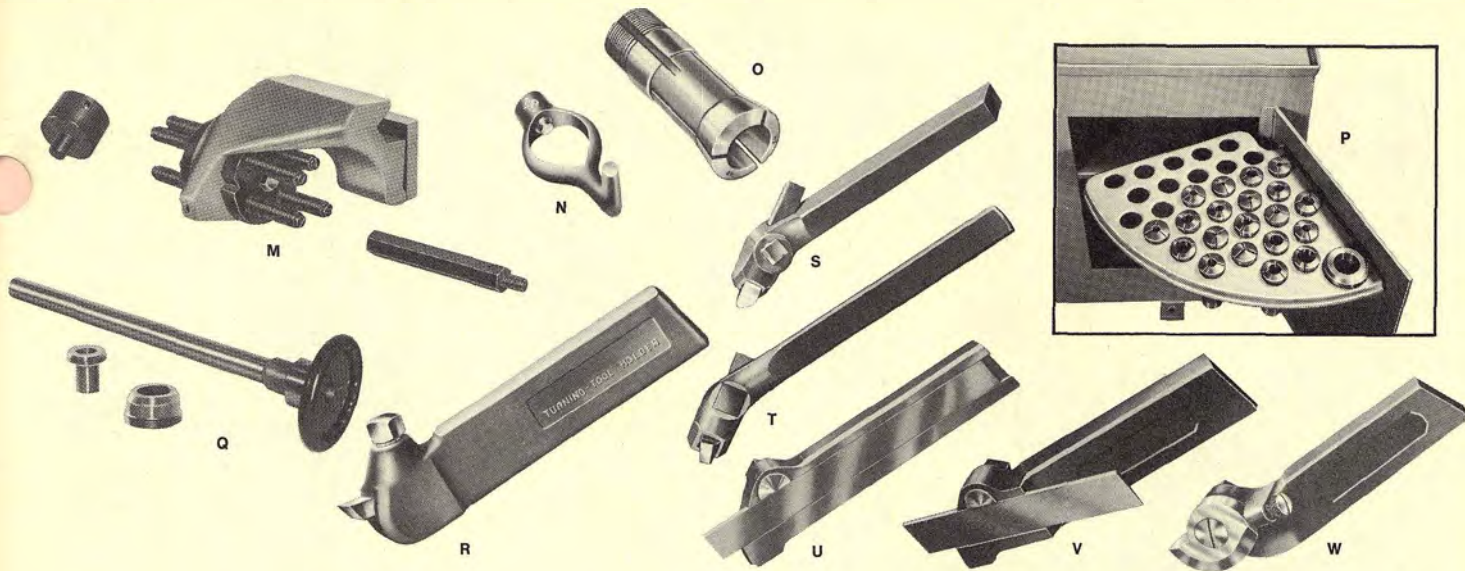
For 10" Metal Lathe. (Collet sleeve not required.) 8 lbs. .... No. 25-825

For 11" Metal Lathe.

With 2 1/4"-8 threaded nose. 9 lbs. .... No. 25-625

With L-00 tapered nose. 9 lbs. .... No. 25-626

For 14" Metal Lathe. 9 lbs. .... No. 25-120



## ACCESSORIES FOR ROCKWELL METAL LATHES

**LEVER TYPE BALL BEARING COLLET CLOSERS**—Used with all 5-C collets—round, square, hex, step, soft, internal, external, etc. Takes bar stock up to 1/4" diameter. Includes mounting bracket with bolts, collet sleeve and spindle nose cap.

### For 11" Metal Lathe.

For 2 1/4"—8 threaded nose lathes. Includes spanner wrench for spindle nose cap. 16 lbs. . . . . **No. 25-553**  
 For L-00 tapered nose lathes. 15 lbs. . . . . **No. 25-554**

### For 14" Metal Lathe.

For 14" Lathes with Serial No. 163-1631 and higher. 19 lbs. . . . . **No. 25-119**

### CENTERS—HIGH QUALITY TYPE.

Type	Recommended Use and Description	Shank	Lathe Size	Wt., Lbs.	Cat. No.
60°	For headstock. Soft, ground.	No. 2 M.T.	10", 11"	1/2	25-542
60°	For headstock. Soft, ground.	No. 3 M.T.	14"	1	25-238
60°	For tailstock. Hardened and ground.	No. 2 M.T.	10"	1/2	25-841
60°	For tailstock. Hardened and ground.	No. 3 M.T.	11", 14"	1	25-541
60° Half	For tailstock. Hardened and ground.	No. 2 M.T.	10"	1/2	25-843
60° Half	For tailstock. Hardened and ground.	No. 3 M.T.	11", 14"	1	25-543
60° Live	For tailstock. Guaranteed to .0002 T.I.R. Compact roller bearing design with minimum overhang gives extreme precision and rigidity. Front and rear bearing tracks are ground on spindle and body. Ground replaceable point. Center adjusts automatically for thrust and load.	No. 2 M.T.	10"	1 1/2	25-844
60° Live	For tailstock. Has same features as 25-844.	No. 3 M.T.	11", 14"	3	25-544
60° Live Hollow	For tailstock. Cup is heat treated, hardened and ground. Head is carried on an angular contact pre-loaded ball bearing.	No. 2 M.T.	10"	1 1/2	25-845
60° Live Hollow	For tailstock. Cup is heat treated, hardened and ground. Head is carried on an angular contact pre-loaded ball bearing.	No. 3 M.T.	11", 14"	3	25-545

**TOOL HOLDERS**—Drop forged from special steel, heat treated and hardened, with set screw and wrench.

### For 10" Metal Lathe.

Type	Shank Size	Bit or Blade Size	Bit or Blade Furnished	Wt., Lbs.	Cat. No.
<b>R</b> Straight	3/8 x 7/8"	1/4" x 1/4"	HSS Bit	3/4	25-680
<b>S</b> Right-Hand Off-Set	3/8 x 7/8"	1/4" x 1/4"	HSS Bit	3/4	25-681
Left-Hand Off-Set	3/8 x 7/8"	1/4" x 1/4"	HSS Bit	3/4	25-682
Straight Carbide	3/8 x 1 5/16"	1/4" x 1/4"	None	7/8	25-689
<b>T</b> Right-Hand Off-Set Carbide	3/8 x 1 5/16"	1/4" x 1/4"	None	7/8	25-690
Left-Hand Off-Set Carbide	3/8 x 1 5/16"	1/4" x 1/4"	None	7/8	25-691
<b>U</b> Straight Cutting Off and Side	3/8 x 3 1/2"	3/2 x 5/8"	HSS Blade (ground end)	3/4	25-683
<b>V</b> Right-Hand Off-Set Cutting Off and Side	3/8 x 3 1/2"	3/2 x 5/8"	HSS Blade (ground end)	3/4	25-684
Left-Hand Off-Set Cutting Off and Side	3/8 x 3 1/2"	3/2 x 5/8"	HSS Blade (ground end)	7/8	25-685

### For 11" Metal Lathe.

Type	Shank Size	Bit or Blade Size	Bit or Blade Furnished	Wt., Lbs.	Cat. No.
<b>R</b> Straight	1/2 x 1 1/8"	5/16" x 5/16"	HSS Bit	2	25-671
<b>S</b> Right-Hand Off-Set	1/2 x 1 1/8"	5/16" x 5/16"	HSS Bit	2	25-672
Left-Hand Off-Set	1/2 x 1 1/8"	5/16" x 5/16"	HSS Bit	2	25-673
Straight Carbide	1/2 x 1 1/4"	5/16" x 5/16"	None	2	25-677
<b>T</b> Right-Hand Off-Set Carbide	1/2 x 1 1/4"	5/16" x 5/16"	None	2	25-678
Left-Hand Off-Set Carbide	1/2 x 1 1/4"	5/16" x 5/16"	None	2	25-679
<b>U</b> Straight Cutting Off and Side	1/2 x 1 3/8"	1/8" x 3/4"	HSS Blade (ground end)	2	25-674
<b>V</b> Right-Hand Off-Set Cutting Off and Side	1/2 x 1 3/8"	1/8" x 3/4"	HSS Blade (ground end)	2	25-675
Left-Hand Off-Set Cutting Off and Side	1/2 x 1 3/8"	1/8" x 3/4"	HSS Blade (ground end)	2	25-676

**SPECIAL TOOL POST RING FOR 11" METAL LATHE**—Adapts lathe for use with 3/8" (size 0) tool holders, threading tool, knurling tools and boring tool. Raises 10" Lathe Toolholders to proper height for use on 11" Lathe. 1 lb. . . . . **No. 25-629**

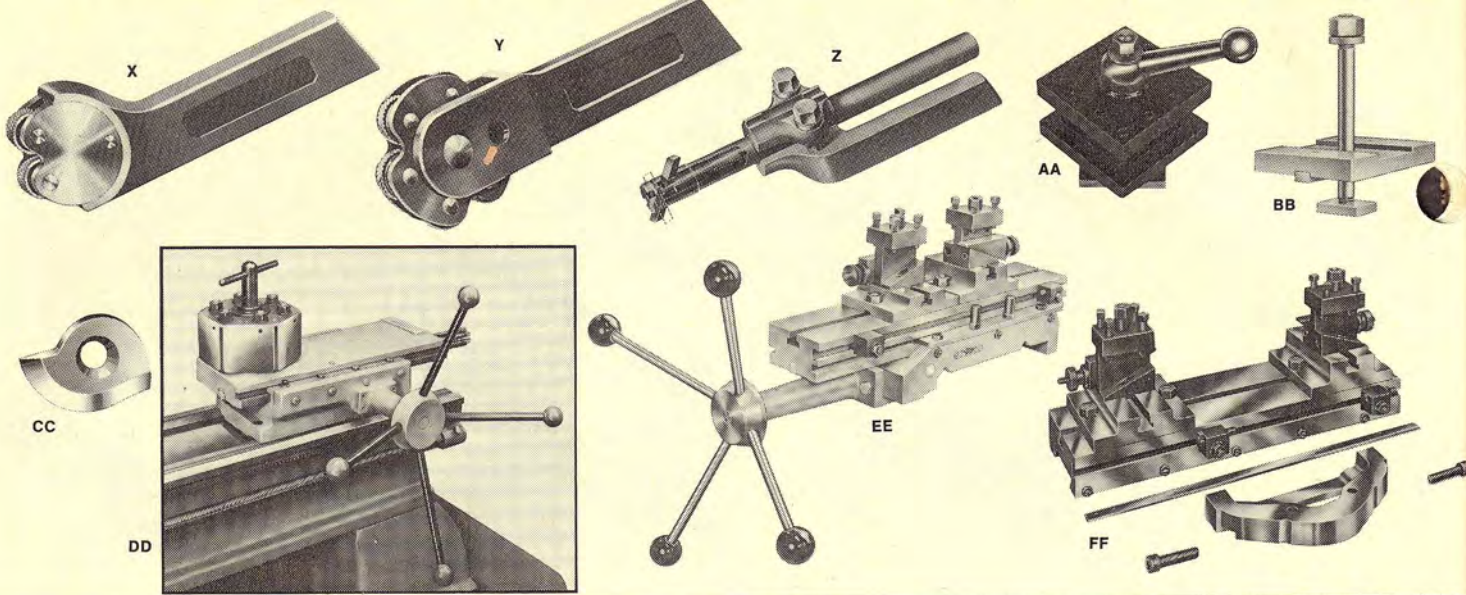
### For 14" Metal Lathe.

Type	Shank Size	Bit or Blade Size	Bit or Blade Furnished	Wt., Lbs.	Cat. No.
<b>R</b> Straight	5/8 x 1 3/8"	3/8 x 3/8"	HSS Bit	3	25-247
<b>S</b> Right-Hand Off-Set	5/8 x 1 3/8"	3/8 x 3/8"	HSS Bit	3	25-248
Left-Hand Off-Set	5/8 x 1 3/8"	3/8 x 3/8"	HSS Bit	3	25-249
Straight Carbide	5/8 x 1 1/2"	3/8 x 3/8"	None	3	25-250
<b>T</b> Right-Hand Off-Set Carbide	5/8 x 1 1/2"	3/8 x 3/8"	None	3	25-251
Left-Hand Off-Set Carbide	5/8 x 1 1/2"	3/8 x 3/8"	None	3	25-252
<b>U</b> Straight Cutting Off and Side	5/8 x 1 3/8"	1/8 x 7/8"	HSS Blade (ground end)	3	25-253
<b>V</b> Right-Hand Off-Set Cutting Off and Side	5/8 x 1 3/8"	1/8 x 7/8"	HSS Blade (ground end)	3	25-254
Left-Hand Off-Set Cutting Off and Side	5/8 x 1 3/8"	1/8 x 7/8"	HSS Blade (ground end)	3	25-255

**SPECIAL TOOL POST RING FOR 14" METAL LATHE**—Adapts lathe for use with 1/2" (size 1) toolholders, threading tool, knurling tools and boring tool. Raises 11" Lathe Toolholders to proper height for use on 14" Lathe. 1 lb. . . . . **No. 25-278**

**W THREADING TOOLS**—The tool holders are drop forged from special steel, heat treated and hardened. The HSS cutter is ground to an included angle of 60°, and backed off for proper clearance. Cutter is sharpened by grinding top edge only; therefore, true form and correct angle are maintained.

Size of Tool Holder	Lathe Size	Wt., Lbs.	Cat. No.
3/8 x 7/8"	10"	3/4	25-686
1/2 x 1 1/8"	11"	2	25-667
5/8 x 1 3/8"	14"	2 1/2	25-256



## ROCKWELL METAL LATHE ACCESSORIES

**DIAMOND KNURLING TOOLS**—Knurls and pins are carefully made from high grade tool steel, hardened and tempered. Teeth of knurls are accurately cut concentric to hole to assure quality knurling of work piece. Self-centering head type has one pair of medium knurls. Revolving head type has three pairs of fine, medium and coarse knurls. Holders are hardened.

Size of Tool Holder	Type of Head	Face of Knurl	Dia. of Knurl	Lathe Size	Wt., Lbs.	Cat. No.
X 3/8 x 7/8"	SC	3/16"	5/8"	10"	3/4	25-687
Y 3/8 x 7/8"	RH	3/16"	5/8"	10"	1	25-688
X 1/2 x 1 1/8"	SC	1/4"	3/4"	11"	2	25-668
Y 1/2 x 1 1/8"	RH	1/4"	3/4"	11"	2	25-669
X 5/8 x 1 3/8"	SC	1/4"	3/4"	14"	3	25-258
Y 5/8 x 1 3/8"	RH	1/4"	3/4"	14"	3	25-259

SC—Self-centering head. RH—Revolving head.

**Z BORING TOOLS**—Unique design of holder takes bars of various diameters without sleeves or bushings. The sleeve-bar clamping feature is exceptionally strong and provides for rapid adjustment of either straight or angular cutters without the need for extra parts. Includes two wrenches.

Size of Tool Holder	Cutters Included	Bar Size Range	Lathe Size	Wt., Lbs.	Cat. No.
3/8 x 7/8"	45°, 90°	1/4 to *5/8"	10"	2 3/8	25-692
1/2 x 1 1/8"	45°, 90°	1/4 to *3/4"	11"	5	25-693
5/8 x 1 3/8"	45°, 90°	3/8 to *1 1/16"	14"	8	25-260

\*Indicates size of bar furnished.

**AA TURRET TOOL POSTS FOR COMPOUND**—For facing, turning, thread cutting, drilling, boring, etc. Hold 4 cutter bits, 12 position indexing feature, 30° position for threading.

For 10" Metal Lathe, 2 1/2" sq. head takes bits to 3/8". 10 lbs. No. 25-851

\*For 11" Metal Lathe, 3 1/2" sq. head takes bits to 1/2". 9 lbs. No. 25-551

For 14" Metal Lathe, 3 1/2" sq. head takes bits to 7/8". 9 lbs. No. 25-236

\*When used on Double Tool Post Cross Slides No. 25-556 and 25-568, No. 25-552 Adapter required. Order separately.

**BB ADAPTER**—For mounting No. 25-551 Turret Tool Post on No. 25-556 or No. 25-568 Double Tool Post Cross Slide. Mounts on either front or rear post of cross slide. Complete with base, alignment keys, stud with clamp plate, nut and washer. 2 lbs. No. 25-552

### REPLACEMENT CUTTING-OFF BLADES

For 10" Metal Lathe, 3/32" x 5/8", made of HSS, ground and ready for use in tool holders Nos. 25-683, 25-684 and 25-685. 2 lbs. No. 25-695

For 11" Metal Lathe, 1/8" x 3/4", made of HSS, ground and ready for use in tool holders Nos. 25-674, 25-675 and 25-676. 2 lbs. No. 25-694

For 14" Metal Lathe, 1/8" x 7/8", made of HSS, ground and ready for use in tool holders Nos. 25-253, 25-254 and 25-255. 2 lbs. No. 25-261

### CC FORMED THREADING CUTTER

For 10" Metal Lathe, Sharp 60° V-thread, fits No. 25-686 Threading Tool. 2 lbs. No. 25-696

### BELT AND PULLEY GUARD

For 10" Metal Lathe, Aluminum, with 3/8" Slots. Recommended when motor is mounted at rear on wooden bench. 7 lbs. No. 25-859

### DELUXE LAMP ATTACHMENT

For 10", 11" and 14" Metal Lathes, For 115V. Includes 18" flexible gooseneck, reflector and 8-foot cord with 2-prong plug. Uses standard bulb (not included) up to 75 watts. 3 lbs. No. 25-857

**SPINDLE NOSE SPLASH GUARDS**—Cannot be used with three or four-jaw chucks. For L-00 tapered nose 11" Metal Lathe. 2 lbs. No. 25-559  
For L-00 tapered nose 14" Metal Lathes. 3 lbs. No. 25-241

### COOLANT GROUPS.

For 11" Metal Lathes. Mounts on either No. 25-568 Double Tool Post Cross Slide or on saddle of carriage. 8 lbs. No. 25-558

For 14" Metal Lathes. Mounts on saddle of carriage. 5 lbs. No. 25-244

**DD ENCO SELF-INDEXING BED TURRETS**—Convert Rockwell 10", 11" and 14" Metal Lathes to Hand Turret Lathes at low cost.

### MACHINE DATA

	No. 25-564* Bed Turret	No. 25-567* Bed Turret	No. 25-566* Bed Turret
Size of Lathe	10"	11"	14"
Shipping Weight	113 lbs.	120 lbs.	166 lbs.
Tool Hole Range	5/8" to 1"	5/8" to 1"	1" to 1 1/2"
Turret Head Across Flats	5 5/8"	5 5/8"	7"
Turret Face Dimensions			
Wide	3"	3"	3 3/8"
High	2 7/8"	2 7/8"	3 3/8"
Maximum Diameter Tool Clearance Over Ram	3 1/8"	3 1/4"	5"
Total Ram Travel	7 1/2"	7 1/2"	7 1/2"
Ram Travel, Max. (self indexing)	6 1/2"	6 1/2"	6 1/2"
Ram Travel, Min. (self indexing)	2"	2"	2"
Length of Ram	16 1/2"	16 1/2"	16 1/2"
Base Length	11 1/2"	11 1/2"	11 1/2"

\*When a Bed Turret is ordered and shipped with a new lathe, it will be bedded and bored for an additional net charge of \$40.00.

**PRODUCTION TYPE ACCESSORIES FOR 11" METAL LATHE.** You can convert your standard Rockwell 11" Lathe for screw machine or turret lathe work by installing the following accessories and other items as required.

**DOUBLE TOOL POST CROSS SLIDES.** These deluxe, heavy-duty Double Tool Post Cross Slides are especially recommended for use with the Bed Turret. They are ideal for repetitive, high production manufacturing of a wide variety of parts.

T-slots in tool post pads and in slide provide transverse and longitudinal adjustment for accurate positioning of tool bits. The hardened steel tool posts have left and right tool positions, sliding wedge height adjustment, and set screws to permit slight rotation of tool bits in a horizontal plane so that either angular or straight tool settings can be perfectly maintained.

### MACHINE DATA

	No. 25-568	No. 25-556
Slide:		
Travel	8"	5 5/8"
Length	16"	15 1/4"
Width	4 1/4"	4 1/4"
Maximum Swing Over Slide	5 1/8"	5 1/8"
Tool Posts:		
Size of Bit	5/8" sq.	5/8" sq.
Tool Bit Slot:		
Depth	1/2"	1/2"
Height	1 3/4"	1 3/4"
Tool Height Adjustment	1/4"	1/4"
Distance Between Tool Posts:		
Maximum	10"	8 3/4"
Minimum	2"	2"
Adjustment of Tool Posts:		
Longitudinal	2 1/2"	2 1/2"
Transverse	9"	6 3/4"

**EE BED MOUNTED DOUBLE TOOL POST CROSS SLIDE WITH PILOT WHEEL FEED.** The extra long (8") travel of this slide permits the tool posts to be positioned far apart so that even large tooling in the bed turret can be fed in between the tool posts of the cross slide. Has the speed and convenience of a lever type slide but is much safer because the operator's hands never need approach the work while feeding the tool bits. Slide traverses 4" for each revolution of the pilot wheel. No. 25-568

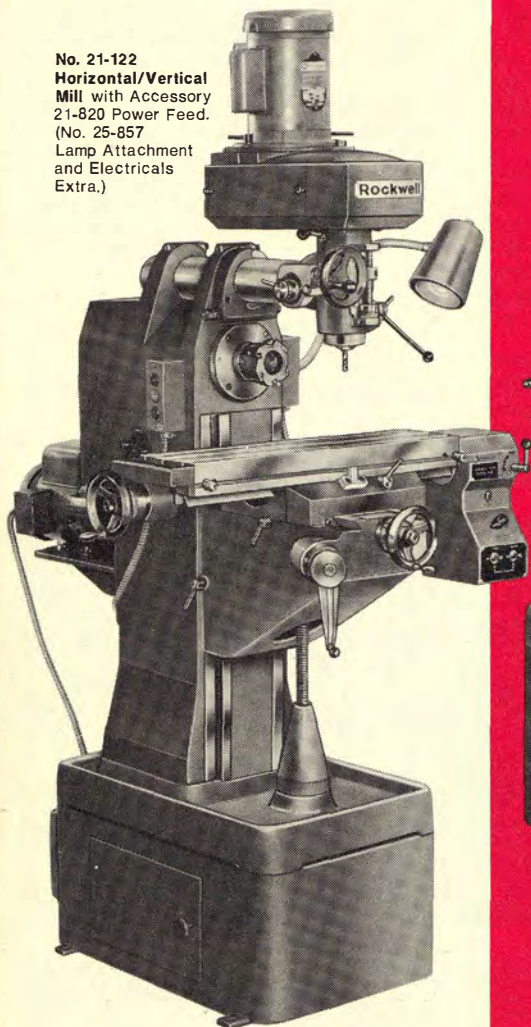
**FF SADDLE MOUNTED DOUBLE TOOL POST CROSS SLIDE.** This slide replaces the compound slide rest and regular cross slide of the 11" Metal Lathe. It mounts on the saddle dovetail of the regular lathe carriage and utilizes the cross feed lead screw regularly supplied with the lathe. It may be operated by power through the friction clutch in the apron or manually with the regular handwheel.

The taper attachment may be left on the lathe, if desired, when this cross slide is mounted. Includes complete instructions for easy field mounting by the user. 40 lbs. No. 25-556

**GUARD FOR OUTBOARD GEAR TRAIN.** Two-Piece Guard for Outboard Gear Train. Recommended when Lever Type Collet Closer is used on 11" Lathes with lead screw. Lower portion swings open to give access to gears, without disturbing collet closer. Complete with hinge, mounting bracket for upper portion, and lathe lubrication chart. 6 lbs. No. 25-561

# ROCKWELL MILLING MACHINES

No. 21-122  
Horizontal/Vertical  
Mill with Accessory  
21-820 Power Feed.  
(No. 25-857  
Lamp Attachment  
and Electricals  
Extra.)

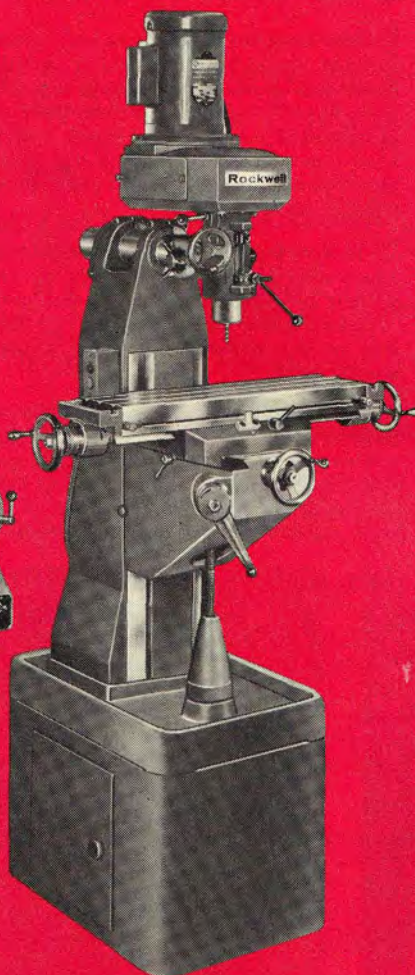


## "DOUBLE-DUTY" HORIZONTAL/VERTICAL MILLING MACHINE

A versatile, low-cost unit that may be quickly converted to do horizontal or vertical milling!

The Rockwell "Double-Duty" Mill, when set up as a horizontal mill, can do straddle milling, slabbing, slotting, grooving, facing and a multitude of other operations. Then, in minutes you can easily and quickly convert it to a combination mill. You simply remove the outboard support arm and add the vertical head. Now, you can do vertical milling, or both horizontal and vertical milling, simultaneously.

If your budget is limited, you can purchase a Rockwell "Double-Duty" Mill at far less cost than when purchasing two single-purpose machines. Make us prove it!



## VERTICAL MILLING MACHINE

Will capably meet your needs on every job! Here's why . . .

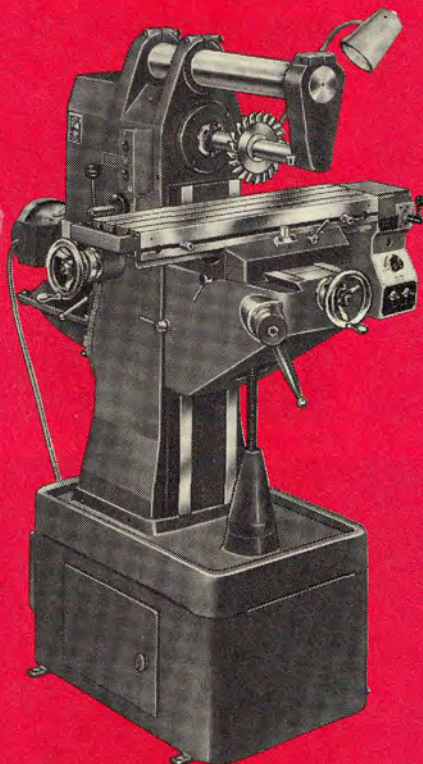
**GREATER ACCURACY**—All operating parts are manufactured to very close tolerances, then *quality control* tested to assure the highest machine tool standards of accuracy.

**DESIGNED FOR DURABILITY**—One-piece head and ram . . . five ball bearing supported spindle in 3" diameter quill . . . large  $\frac{3}{4}$ " ways typify the heavy duty construction that guarantees long life and trouble-free performance.

**ADDED CONVENIENCE**—Every operating lever, crank and control is conveniently positioned for operational ease and to speed up production.

**PROVEN RELIABILITY**—More than 40 years' experience in designing and building the finest metal-working machines for industry everywhere stands behind this Rockwell Milling Machine. It's your guarantee that, when you buy a ROCKWELL, you have bought the best!

No. 21-100 Vertical Mill (Electricals Extra.)



## HORIZONTAL MILLING MACHINE

Modernly designed for greater production performance!

No matter which model you select, your Rockwell Horizontal Milling Machine is unsurpassed for capacity, performance and value.

The Hand Screw Feed Model is ideal for the tool room, experimental department or small job shop which produces parts and pieces on a short run basis.

The Hand Screw Feed Model, with the addition of the Variable Rate Power Table Feed, is well suited for all users who must work on a production basis and where time is a critical factor.

Rockwell offers you this selection of models to suit your specific job requirements. Let us "Performance-Prove" one of these models for you today!

No. 21-120 Horizontal Mill with Accessory 21-820 Power Table Feed (No. 25-857 Lamp Attachment and Electricals Extra.)

# Rockwell Milling Machines

## VERSATILE, BIG CAPACITY MILLS THAT ARE SAFETY ENGINEERED FOR INDUSTRY!

**A. Unique Worm and Gear Tilting Mechanism (Vertical Mill).** Trimming the table for perfect 90° positioning of the spindle can be done easily with the worm and gear tilting mechanism. Fine adjustment for tilting spindle to any angle is easily achieved without danger of head falling.

**B. Brake and Spindle Lock; Taper Cone Clutch for Rapid and Fine Feed (Vertical Mill).** Lever at upper left actuates combination spindle brake and lock. Lever type rapid feed or wheel type fine feed adds convenience plus accuracy when boring to a specified depth.

**Large Spindle and Massive Quill.** Heavy, six spline spindle is supported on five ball bearings in a 3" diameter quill. Quill is *hard chrome plated* for long life. Spindle takes R8 collets with ¾" capacity.

**C. Close-Coupled Drive.** Close belt centers provide smooth operation at spindle. Dynamically balanced pulleys are cast iron. Extra weight of cast iron provides fly-wheel type action for smooth cutting. Motor swivels to release belt tension for easy speed changing. Speed chart shows correct belt settings.

**D. Unique Drive System (Horizontal Mill).** Close coupled, powerful drive has ten speeds from 60 to 2400 RPM due to 8M Gates Polyflex® Belt. This belt transmits full power without slip, also absorbs shock loads.

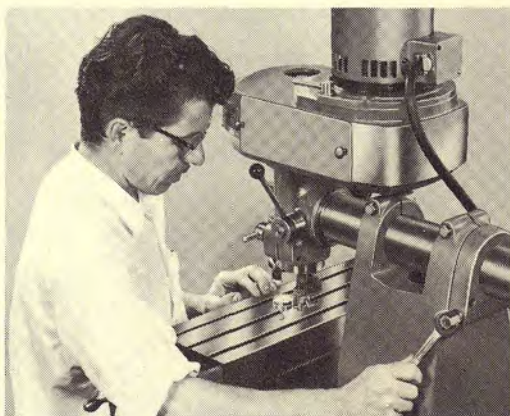
**E. Heavy Duty Back Gears Drive Massive Spindle (Horizontal Mill).** Cut-away photo shows the heavy duty 6-to-1 ratio gear train that drives the spindle. Large spindle, with #30 NMTB taper and 2 1/32" hole, rides on widely spaced, preloaded

Timken tapered roller bearings. Gear train and spindle are separately oil-bath lubricated for long life.

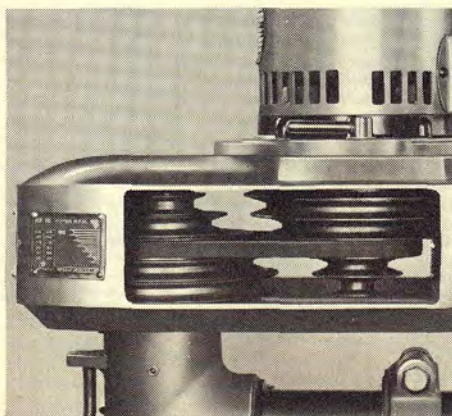
**F. Large, Precision Ground 3/4" Dove-Tail Way Construction Throughout.** Table, saddle and knee slide on precision ground ¾" ways with accurately fitted, tapered gibs. Two adjusting screws, one at each end of gib, eliminate all end play.

**G. Big Table, Massive Saddle, Easy-to-read Micrometer Collars.** Spacious 2 1/4" x 6 1/2" x 24" table travels on precision ground ¾" dove-tail ways, supported by a massive saddle. End trays gather chips and collect coolant. Screw feeds table .200" for each rotation of handwheel.

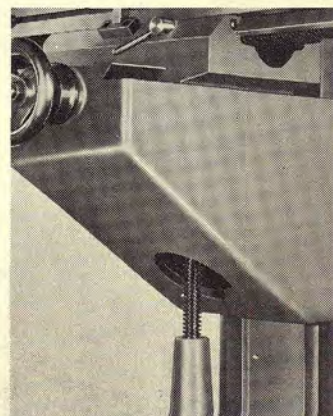
**H. Massive Box Type Knee.** Enclosed, box type knee, with internal ribbing, provides solid support for saddle and table. Knee has full length engagement with column dove-tail slide throughout its vertical travel. Seven ball bearings support elevating crank shaft and two table feed screws.



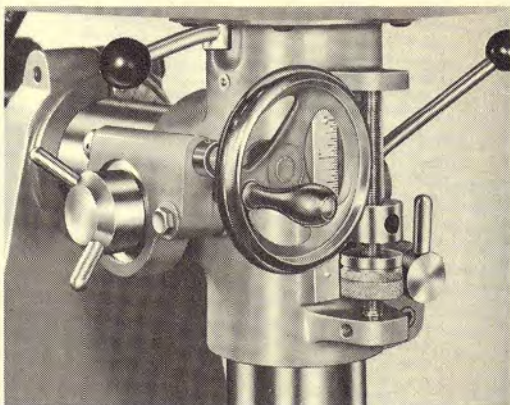
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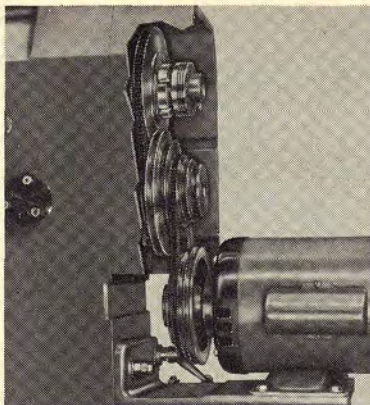
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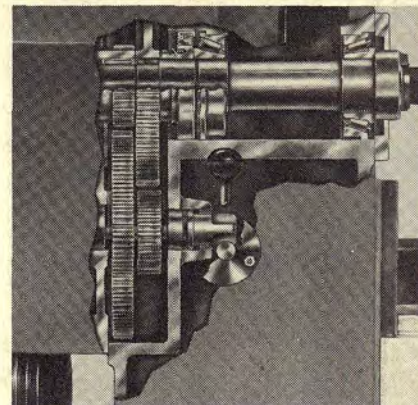
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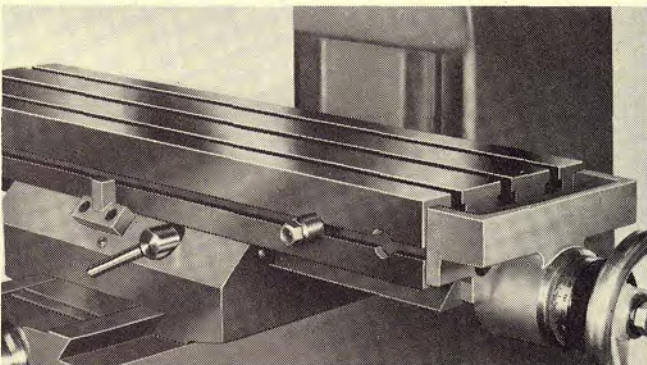
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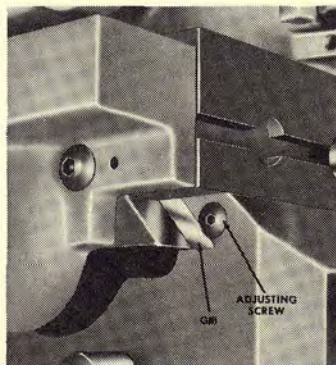
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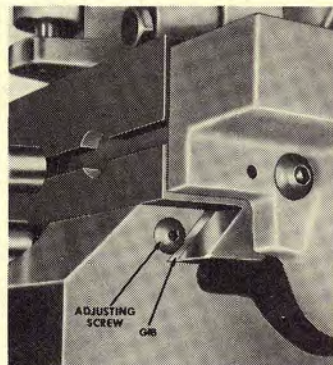
E.



G.



F.



# ROCKWELL HORIZONTAL/VERTICAL MILLING MACHINE

## CATALOG LISTING

No. 21-122 "Double-Duty" Horizontal-Vertical Milling Machine on cabinet, less electricals. Consists of 21-120 Horizontal Mill with hand screw feed table, plus 21-816 Vertical Head, shipped separately. 1,050 lbs.

60 hertz with 8-foot grounding type cord and plug. Available factory mounted and wired on Rockwell Horizontal-Vertical Milling Machine. Instructions for field mounting are included. Fits in place of right table hand wheel, but left table hand wheel still can be used. No. 21-838 Table Travel Limit Switch Kit is recommended. 28 lbs.

### VARIABLE RATE TABLE FEED

No. 21-820 Variable Rate Power Table Feed for 115 V, single phase.

## MOTORS AND CONTROLS (Factory Mounted and Wired—NEMA 145T)

### HORIZONTAL MILLING MACHINE

MOTOR	MOTOR CONTROL	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIP. WT. LBS.	CATALOG NUMBER	CAT. NO. 200 V
Single Phase, 1½ Horsepower	ROCKWELL LVC CONTROL—24 V Push Button Reversing Station, Magnetic Starter, Transformer and Overload Protection	60-1725	115/230	70	49-697	
Three Phase, 1½ Horsepower	ROCKWELL LVC CONTROL—24 V Push Button Reversing Station, Magnetic Starter, Transformer and 3-Leg Overload Protection	60-1725	230/460	64	†49-774	†52-193

**NOTE:** Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Single phase electricals will be supplied wired for 230 V only, cannot be supplied wired for 115 V. Power cord and plug supplied for single phase only. †Where electrical controls must

comply with ANSI B-11 Series Machine Tool Standards, NFPA 79 Standard or JIC Standards, the No. 49-001 Electrical Kit must be ordered in addition to the Catalog Number of the designated Electrical Package.

### VERTICAL MILLING HEAD

(Vertical Milling Head Uses Special C Flange Motor Available Only From Rockwell. Order From Chart Below.)

MOTOR	MOTOR CONTROL	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIP. WT. LBS.	CATALOG NUMBER	CAT. NO. 200 V
Single Phase, ½ Horsepower	Full Voltage Drum Reversing Switch	60-1140	115/230	40	49-668	
	ROCKWELL LVC CONTROL—24 V Push Button Reversing Station, Magnetic Starter, Transformer and Overload Protection	60-1140	115/230	65	52-019	
Single Phase, ¾ Horsepower	Full Voltage Drum Reversing Switch	60-1725	115/230	45	49-689	
	ROCKWELL LVC CONTROL—24 V Push Button Reversing Station, Magnetic Starter, Transformer and Overload Protection	60-1725	115/230	70	52-020	
Three Phase, ½ Horsepower	Full Voltage Drum Reversing Switch	60-1140	230/460	34	49-691	52-177
	ROCKWELL LVC CONTROL—24 V Push Button Reversing Station, Magnetic Starter, Transformer and 3-Leg Overload Protection	60-1140	230/460	55	52-021	52-023
Three Phase, ¾ Horsepower	Full Voltage Drum Reversing Switch	60-1725	230/460	39	49-692	52-178
	ROCKWELL LVC CONTROL—24 V Push Button Reversing Station, Magnetic Starter, Transformer and 3-Leg Overload Protection	60-1725	230/460	60	52-022	52-032

**NOTE:** Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied

wired for 230 V, unless 460 V is specified. Power Cord and plug supplied for single phase only.

## MACHINE DATA

### TABLE

Working Surface ..... 6½ x 24" (165.1 x 609.6 mm)  
 No. of T-Slots ..... 3 Size of T-Slots ..... 7/16" (11.1 mm)  
 Spacing of T-Slots (Center to Center) ..... 2" (50.8 mm)  
 Height from Floor (Lowest Position) ..... 33" (838.2 mm)  
 Micrometer Collars ..... 2¾" (60.3 mm) Dia.;  
 Graduated to ..... .001" (.0254 mm)  
 Travel for each revolution of hand wheel ..... .200" (5.08 mm)

### RANGE

Table Longitudinal Travel  
 With Hand Screw Feed ..... 16" (406.4 mm)  
 With Variable Rate Power Feed ..... 15½" (393.7 mm)  
 Table Cross Travel ..... 6¾" (171.45 mm)  
 Table Vertical Travel ..... 16½" (419.1 mm)  
 Table to  $\phi$  of Spindle ..... 0 to 15" (0 to 381 mm)  
 Cutter Dia. (Maximum with Overarm) ..... 8" (203.2 mm)  
 Spindle Nose to Arbor Support (Max.) ..... 12¾" (323.85 mm)  
 Maximum Arbor Length (Shoulder to Nut) ..... 11" (279.4 mm)  
 Bottom of Overarm Bracket to  $\phi$  of Spindle ..... 1" (25.4 mm)

### POWER TABLE FEED RATES (Inches/mm Per Minute)

Infinitely Variable from ..... 0 to 22" (0 to 558.8 mm)  
 Jog or Rapid Approach ..... 30" (762 mm)

SADDLE WIDTH ..... 12" (304.8 mm)

### DOVE-TAILS

Size ..... ¾" (19.05 mm) Kind of Gib ..... Tapered

## STANDARD EQUIPMENT

Basic Milling Machine includes storage type cabinet with door, guards for V-belts and pulleys, draw bolt threaded ½" — 13, overarm support for Style A arbors, V-belts (2), motor pulley (¾" bore), two 1½" open end wrenches, and oil for spindle bearings, plus No. 21-816 Vertical Head. Without arbors and electricals.

### SPINDLE

Taper ..... NMTB #30 Hole ..... 27/32" (16.67 mm)  
 Precision Timken Roller Bearings (Oil-bath Lubricated) .....

### OVERARM ARBOR SUPPORT BRACKET

..... Takes Style A Arbors with 23/32" (18.26 mm) Pilot

### DRIVE

Motor to Ball Bearing Countershaft ..... 8M Polyflex<sup>®</sup> Belt  
 Countershaft to Spindle ..... 8M Polyflex<sup>®</sup> Belt  
 Back Gears (Alloy Steel, Heat Treated) ..... Oil Bath Lubricated

### SPEEDS (With 1725 rpm Motor)

Gear Drive ..... 60, 135, 240, 300 and 385 rpm  
 Direct Drive ..... 375, 845, 1500, 1875 and 2400 rpm

### MOTORS

Accommodates Frame Sizes ..... Delta #8½ and NEMA #182  
 Horsepower Recommended .....

### OVERALL DIMENSIONS

Height ..... 57½" (1460.5 mm)  
 Width (Table in center position) ..... 37¾" (958.85 mm)  
 Front to Rear (Motor mounted) ..... 51" (1295.4 mm)

### CABINET BASE DIMENSIONS

Width ..... 17½" (444.5 mm) Front to Rear ..... 26½" (670.6 mm)

### SHIPPING WEIGHT WITH ELECTRICALS

(Approx.) ..... 975 Lbs. (442.3 kg)

For Machine Data for No. 21-816 Vertical Head, See Page on Horizontal Milling Machine.

# ROCKWELL HORIZONTAL MILLING MACHINE

## CATALOG LISTING

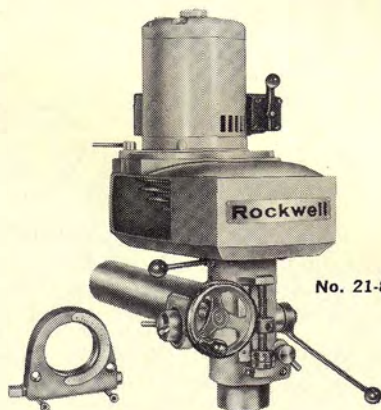
**No. 21-120 Milling Machine** on cabinet, less electricals. Hand Screw Feed Table Model. 900 lbs.

### VARIABLE RATE TABLE FEED

**No. 21-820 Variable Rate Power Table Feed** for 115 V, single phase, 60 hertz, with 8-foot grounding type cord and plug. Available factory mounted and wired on all Rockwell Mills. Instructions for field mounting are included. Fits in place of right table hand wheel, but left table hand wheel still can be used. No. 21-838 Table Travel Limit Switch Kit is recommended. 28 lbs.

**No. 21-816 VERTICAL HEAD** complete, for use on Horizontal Milling Machine. Includes head with ram, spindle and quill, spindle brake and lock, feed parts, guards for pulleys and V-belt, pulleys, V-belt, motor mounting plate, draw-bolt for collets, worm and gear tilting mechanism, tilt scale and instructions for field mounting. Less electricals. 132 lbs.

**NOTE:** For Motors and Controls for No. 21-816 Vertical Head, See Page on Horizontal-Vertical Milling Machine.



No. 21-816 VERTICAL HEAD

## MOTORS AND CONTROLS FACTORY MOUNTED AND WIRED (NEMA 145T)

MOTOR	MOTOR CONTROL	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIP. WT. LBS.	CATALOG NUMBER	CAT. NO. 200 V
Single Phase, 1½ Horsepower	ROCKWELL LVC CONTROL—24 V Push Button Reversing Station, Magnetic Starter, Transformer and Overload Protection	60-1725	115/230	70	49-697	
Three Phase, 1½ Horsepower	ROCKWELL LVC CONTROL—24 V Push Button Reversing Station, Magnetic Starter, Transformer and 3-Leg Overload Protection	60-1725	230/460	64	†49-774	†52-193

**NOTE:** Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Single phase electricals will be supplied wired for 230 V only, cannot be supplied wired for 115 V. Power cord and plug supplied for single phase only. †Where electrical controls must

comply with ANSI B-11 Series Machine Tool Standards, NFPA 79 Standard or JIC Standards, the No. 49-001 Electrical Kit must be ordered in addition to the Catalog Number of the designated Electrical Package.

## MACHINE DATA

### TABLE

Working Surface ..... 6½ x 24" (165 x 609.6 mm)  
 No. of T-Slots ..... 3 Size of T-Slots ..... 7/16" (11.1 mm)  
 Spacing of T-Slots (Center to Center) ..... 2" (50.8 mm)  
 Height from Floor (Lowest Position) ..... 33" (838.2 mm)  
 Micrometer Collars ..... 2¾" (60.3 mm) Dia.;  
 Graduated to .001" (.0254 mm)  
 Travel for each revolution of hand wheel ..... .200" (5.08 mm)

### RANGE

Table Longitudinal Travel ..... 16" (406.4 mm)  
 With Hand Screw Feed ..... 15½" (393.7 mm)  
 With Variable Rate Power Feed ..... 6¾" (171.45 mm)  
 Table Cross Travel ..... 16½" (419.1 mm)  
 Table to  $\phi$  of Spindle ..... 0 to 15" (0 to 381 mm)  
 Cutter Dia. (Maximum with Overarm) ..... 8" (203.2 mm)  
 Spindle Nose to Arbor Support (Max.) ..... 12¾" (323.85 mm)  
 Maximum Arbor Length (Shoulder to Nut) ..... 11" (279.4 mm)  
 Bottom of Overarm Bracket to  $\phi$  of Spindle ..... 1" (25.4 mm)

### POWER TABLE FEED RATES (Inches/mm Per Minute)

Infinitely Variable from ..... 0 to 22" (0 to 558.8 mm)  
 Jog or Rapid Approach ..... 30" (762 mm)

**SADDLE WIDTH** ..... 12" (304.8 mm)

### DOVE-TAILS

Size ..... ¾" (19.05 mm) Kind of Gib ..... Tapered

## MACHINE DATA FOR 21-816 VERTICAL HEAD ACCESSORY

### RANGE

Spindle Nose to Table ..... 0 to 17" (0 to 431.8 mm)  
 Spindle  $\phi$  to Column V-ways ..... 3¾" to 12½" (95.3 to 317.5 mm)

### SPINDLE

Spindle Taper ..... R8 Hole Through Spindle ..... 7/16" (11.1 mm)  
 Number of Bearings ..... 5 Number of Splines ..... 6

### SPEEDS

With 1725 rpm motor ..... 370, 700, 1170, 2440, 4420 and 6300 rpm  
 With 1140 rpm motor ..... 245, 470, 780, 1620, 2940 and 4200 rpm

## STANDARD EQUIPMENT

Basic Milling Machine includes storage type cabinet with door, guards for V-belts and pulleys, draw bolt threaded ½" — 13, overarm support for Style A arbors, V-belts (2), motor pulley (¾" bore), two 1½" open end wrenches, and oil for spindle bearings. Without arbors and electricals.

### SPINDLE

Taper ..... NMTB #30 Hole ..... 2½" (63.5 mm)  
 Precision Timken Roller Bearings (Oil Bath Lubricated) .....

### OVERARM ARBOR SUPPORT BRACKET

..... Takes Style A Arbors with 2½" (63.5 mm) Pilot

### DRIVE

Motor to Ball Bearing Countershaft ..... .8M Polyflex® Belt  
 Countershaft to Spindle ..... .8M Polyflex® Belt  
 Back Gears (Alloy Steel, Heat Treated) ..... Oil Bath Lubricated

### SPEEDS (With 1725 rpm Motor)

Gear Drive ..... 60, 135, 240, 300 and 385 rpm  
 Direct Drive ..... 375, 845, 1500, 1875 and 2400 rpm

### MOTORS

Accommodates Frame Sizes ..... Delta #8½ and NEMA #182  
 Horsepower Recommended ..... 1½

### OVERALL DIMENSIONS

Height ..... 57½" (1460.5 mm)  
 Width (Table in center position) ..... 37¾" (958.85 mm)  
 Front to Rear (Motor mounted) ..... 51" (1295.4 mm)

### CABINET BASE DIMENSIONS

Width ..... 17½" (444.5 mm) Front to Rear ..... 26½" (673.1 mm)

### SHIPPING WEIGHT WITH ELECTRICALS

(Approx.) ..... 975 lbs. (442.3 kg)

### QUILL (Hard Chrome Plated)

Diameter ..... 3" (76.2 mm)  
 Stroke ..... 2½" (63.5 mm)  
 Feed ..... Choice of Rapid or Fine Feed

### MOTORS

NEMA C Face Frame (Special) ..... 56  
 Horsepower Recommended ..... ¾  
 Speeds Recommended (RPM) ..... 1725 or 1140  
 Special Shaft Length (from Face of Flange) ..... 4½" (103.98 mm)

# ROCKWELL VERTICAL MILLING MACHINE

## CATALOG LISTING

No. 21-100 Milling Machine on cabinet, with V-belt and motor pulley ( $\frac{3}{8}$ " bore), less electricals. Hand Screw Feed Table Model. 750 lbs.

### VARIABLE RATE TABLE FEED

No. 21-820 Variable Rate Power Table Feed for 115 V, single phase,

60 hertz, with 8-foot grounding type cord and plug. Available factory mounted and wired on New Rockwell Vertical Mills. Instructions for field mounting are included. Fits in place of right table hand wheel, but left table hand wheel can still be used. No. 21-838 Table Travel Limit Switch Kit is recommended. 28 lbs.

## MOTORS AND CONTROLS FACTORY MOUNTED AND WIRED

(Vertical Milling Head Uses Special C Flange Motor Available Only From Rockwell. Order From Chart Below.)

MOTOR	MOTOR CONTROL	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIP. WT. LBS.	CATALOG NUMBER	CAT. NO. 200 V
Single Phase, $\frac{1}{2}$ Horsepower	Full Voltage Drum Reversing Switch	60-1140	115/230	40	49-473	
	ROCKWELL LVC CONTROL—24 V Push Button Reversing Station, Magnetic Starter, Transformer and Overload Protection	60-1140	115/230	46	49-475	
Single Phase, $\frac{3}{4}$ Horsepower	Full Voltage Drum Reversing Switch	60-1725	115/230	36	49-476	
	ROCKWELL LVC CONTROL—24 V Push Button Reversing Station, Magnetic Starter, Transformer and Overload Protection	60-1725	115/230	42	49-477	
Three Phase, $\frac{1}{2}$ Horsepower	ROCKWELL LVC CONTROL—24 V Push Button Reversing Station, Magnetic Starter, Transformer and 3-Leg Overload Protection	60-1140	230/460	60	†49-679	†52-184
Three Phase, $\frac{3}{4}$ Horsepower	ROCKWELL LVC CONTROL—24 V Push Button Reversing Station, Magnetic Starter, Transformer and 3-Leg Overload Protection	60-1725	230/460	60	†49-680	†52-187

**NOTE:** Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power cord and plug supplied for single phase only. †Where electrical controls must comply with

ANSI B-11 Series Machine Tool Standards, NFPA 79 Standard or JIC Standards, the No. 49-001 Electrical Kit must be ordered in addition to the Catalog Number of the designated Electrical Package.

## MACHINE DATA

### TABLE

Working Surface .....  $6\frac{1}{2}$ " x 24" (165.1 mm)  
 No. of T-Slots ..... 3 (76.2 mm)  
 Size of T-Slots .....  $\frac{7}{16}$ " (11.11 mm)  
 Spacing of T-Slots (Center to Center) ..... 2" (50.8 mm)  
 Height from Floor (Lowest Position) .....  $.35$ " (889 mm)

### RANGE

Table Longitudinal Travel ..... 16" (406.4 mm)  
 Table Cross Travel .....  $6\frac{3}{4}$ " (171.45 mm)  
 Table Vertical Travel .....  $16\frac{1}{2}$ " (419.1 mm)  
 Spindle Nose to Table ..... 0 to  $16\frac{1}{2}$ " (0 to 419.1 mm)  
 Spindle  $\phi$  to Column V-ways .....  $2\frac{5}{8}$ " to  $11\frac{1}{4}$ " (66.67 to 285.75 mm)

### SPINDLE

Spindle Taper ..... R8  
 Hole Through Spindle .....  $\frac{7}{16}$ " (11.11 mm)  
 Number of Bearings ..... 5  
 Number of Splines ..... 6

### SPEEDS

With 1725 RPM Motor ..... 370, 700, 1170, 2440, 4420 and 6300 rpm  
 With 1140 RPM Motor ..... 245, 470, 780, 1620, 2940 and 4200 rpm

### QUILL

Diameter ..... 3" (76.2 mm)  
 Stroke .....  $2\frac{1}{2}$ " (63.5 mm)  
 Feed ..... Choice of Rapid or Fine Feed

SADDLE WIDTH ..... 12" (304.8 mm)

### DOVE-TAILS

Size .....  $\frac{3}{4}$ " (19.05 mm)  
 Kind of Gib ..... Tapered

### MOTORS

NEMA C Face Frame (Special) ..... 56  
 Horsepower Recommended .....  $\frac{1}{2}$  or  $\frac{3}{4}$   
 Speeds Recommended (RPM) ..... 1725 or 1140  
 Special Shaft Length (from Face of Flange) .....  $4\frac{1}{2}$ " (103.98 mm)

### OVERALL DIMENSIONS

Height (including  $\frac{1}{2}$  HP Motor) .....  $73\frac{1}{2}$ " (1866.9 mm)  
 Width ...  $37\frac{3}{4}$ " (958.85 mm); Front to Rear ...  $33\frac{3}{4}$ " (857.25 mm)

### CABINET BASE DIMENSIONS

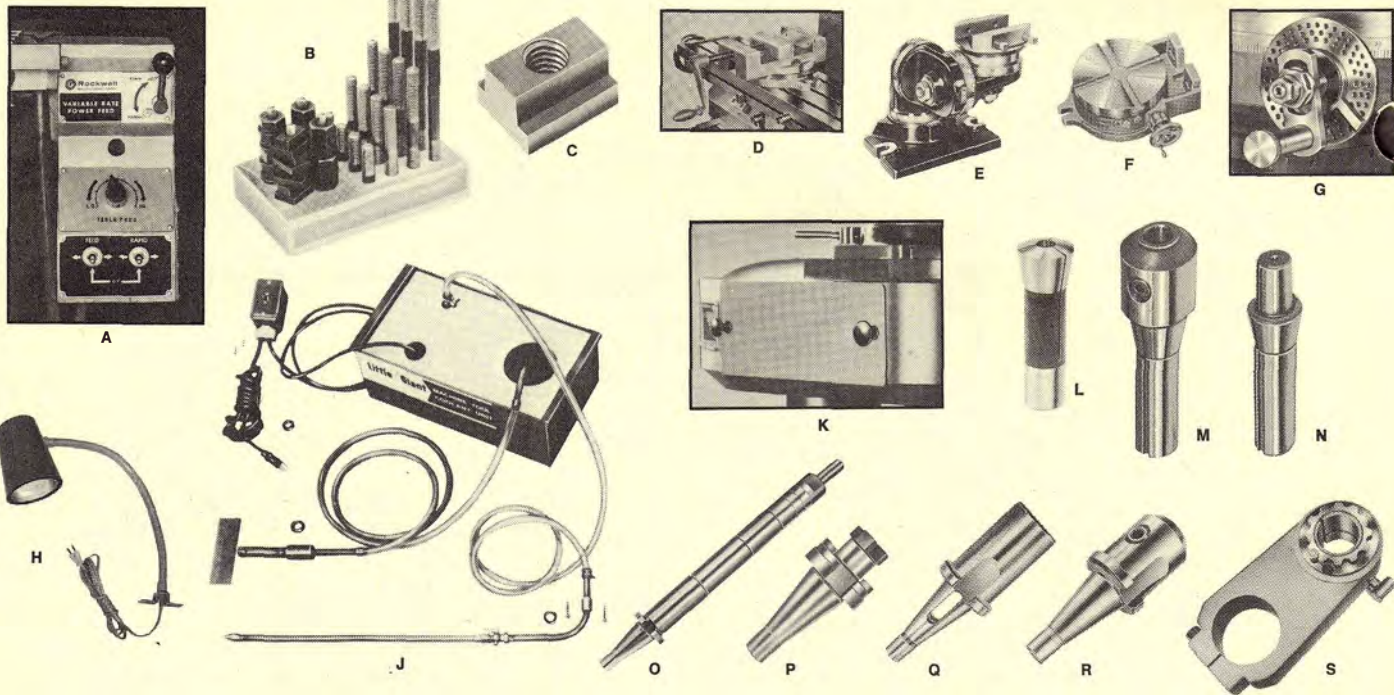
Width .....  $17\frac{1}{2}$ " (444.5 mm)  
 Front to Rear .....  $26\frac{1}{2}$ " (673.1 mm)

### SHIPPING WEIGHT WITH ELECTRICALS

(Approx.) ..... 780 lbs. (353.8 kg)

## STANDARD EQUIPMENT

Basic Milling Machine includes storage type cabinet base with door, combination spindle brake and lock, draw bolt for collets, side cover guards, V-belt and motor pulley with  $\frac{5}{8}$ " or  $\frac{3}{4}$ " bore.



## DO MORE JOBS WITH THESE ROCKWELL MILLING MACHINE ACCESSORIES

### HORIZONTAL AND VERTICAL MILLING MACHINE ACCESSORIES

**A VARIABLE RATE POWER TABLE FEED** for 115 V, single phase, 60 hertz, with 8-foot grounding type cord and plug. Available factory mounted and wired on all Rockwell Mills. Instructions for field mounting are included. Fits in place of right table hand wheel, but left table hand wheel still can be used. (No. 21-838 Table Travel Limit Switch Kit is recommended.) 28 lbs. .... **NO. 21-820**

**TABLE TRAVEL LIMIT SWITCH KIT.** Automatically shuts off motor of 21-820 Table Feed (on Horizontal or Vertical Milling Machine) if machine is left unattended. Includes "Antenna" type limit switch, utility box, receptacle, 8-foot power cord with 115 V 3-prong grounding type plug, wire and instructions for field mounting. 2 lbs. .... **NO. 21-838**

**B T-NUT AND STUD SET,** to clamp vises, fixtures or workpieces to milling machine table. Set provides four clamping arrangements from 2" to 10" or two clamping arrangements to 16". Set consists of the following heat treated nuts tapped  $\frac{3}{8}$ "-16: four  $\frac{1}{16}$ " T-Nuts, four flanged nuts and four coupling nuts plus stressproof steel  $\frac{3}{8}$ "-16 studs in the following lengths: four 2", four 3", four 4" and four 6" together with a convenient holder. 4 lbs. .... **NO. 21-001**

**C EXTRA T-NUTS,** to fit milling machine table. Package of five heat treated  $\frac{7}{16}$ " T-Nuts with a  $\frac{3}{8}$ "-16 tapped hole.  $\frac{1}{2}$  lb. .... **NO. 21-002**

**D MACHINE VISE,** "Low Boy" design, 4" maximum opening. Includes 360° swivel base,  $1\frac{1}{4}$ " x  $4\frac{1}{2}$ " steel jaws, crank type wrench and two removable  $\frac{7}{16}$ " keys for table slot. 23 lbs. .... **NO. 21-811**

**E UNIVISE.** First truly universal vise for grinding, drilling and milling. Can be set at any angle desired. Vise can be returned exactly to its original setting for duplicate grinding. Each station has a 360° circular scale. 16 lbs. .... **NO. 24-902**

**F 8" ROTARY TABLE,** with base for horizontal or vertical use. Includes two removable  $\frac{7}{16}$ " keys for milling machine table slots. Table top is calibrated in 1° increments, with an adjustable pointer for accurate indexing, and has two T-slots for  $\frac{1}{2}$ " bolts. Micrometer collar on crank shaft is graduated to 1/20 degree (3 min.) and has a thumb screw for locking the collar or setting it to 0° at the start of the job. The horizontal, as well as the vertical base pad, has a  $\frac{1}{8}$ " x  $\frac{9}{16}$ " keyway and the overall height of the table in the horizontal position is only  $\frac{3}{8}$ ". Although especially recommended for use on Rockwell Milling Machines, this versatile table provides fast set-up and accurate indexing for boring, drilling, reaming, tapping, grinding and other jobs. (No. 21-836 Attachment for Positive Indexing is recommended for the No. 21-835 Table.) 35 lbs. .... **NO. 21-835**

**G ATTACHMENT FOR POSITIVE INDEXING,** for use with No. 21-835 Table. This attachment replaces the regular table hand wheel and includes two interchangeable disks, each with three circles of equally spaced holes. One disk provides a choice of 24, 30 and 36 holes while the other has a selection of 25, 34 and 40 holes. The two pre-selector fingers are fully adjustable and the attachment adds both convenience and accuracy to the indexing of the table. 1 lb. .... **NO. 21-836**

**COOLANT TROUGHS** for table, one pair. 12 lbs. .... **NO. 21-837**

**H DELUXE LAMP ATTACHMENT** for 115V. Includes 18" flexible gooseneck, reflector and 8-foot cord with 2-prong plug. Uses standard bulb (not included) up to 75 watts. 3 lbs. .... **NO. 25-857**

**J 5-GALLON COOLANT SYSTEM FOR ROCKWELL MILLING MACHINES.** For 115 V, 60 hertz, single phase. Includes submersible pump with  $\frac{1}{4}$ " male outlet, 5-gallon tank with baffle, 6-foot plastic hose, two L-shaped lengths of  $\frac{1}{4}$ " pipe with one swivel type clamp, 18" flexible pipe with nozzle and valve, non-ferrous screen for end cap of Milling Machine table and plastic drain hose with fittings. In addition, all necessary wiring, with grommets, is included consisting of a 6-foot 3-conductor power cord with 3-prong, 115 V grounding plug, a junction box (for mounting on column of mill) with on-and-off toggle switch and a power cord to connect switch to pump motor. Complete instructions are included for easy field mounting. 50 lbs. .... **NO. 49-623**

### VERTICAL MILLING MACHINE ACCESSORIES

**K GUARDS** (two) for side openings of belt guard. 2 lbs. .... **NO. 21-813**  
**COLLETS,** set of six, from  $\frac{1}{8}$ " to  $\frac{7}{16}$ " by 16ths, style R8. 9 lbs. .... **NO. 21-800**  
**COLLETS,** set of five, from  $\frac{1}{2}$ " to  $\frac{3}{4}$ " by 16ths, style R8. 7 lbs. .... **NO. 21-810**  
**COLLET,**  $\frac{1}{8}$ ", 2 lbs. .... **NO. 21-889**  
**COLLET,**  $\frac{3}{16}$ ", 2 lbs. .... **NO. 21-890**  
**COLLET,**  $\frac{1}{4}$ ", 2 lbs. .... **NO. 21-891**  
**COLLET,**  $\frac{5}{16}$ ", 2 lbs. .... **NO. 21-892**  
**COLLET,**  $\frac{3}{8}$ ", 2 lbs. .... **NO. 21-893**

**L COLLET,**  $\frac{7}{16}$ ", 2 lbs. .... **NO. 21-894**  
**COLLET,**  $\frac{1}{2}$ ", 2 lbs. .... **NO. 21-895**  
**COLLET,**  $\frac{5}{8}$ ", 2 lbs. .... **NO. 21-896**  
**COLLET,**  $\frac{3}{4}$ ", 2 lbs. .... **NO. 21-897**  
**COLLET,**  $\frac{7}{8}$ ", 2 lbs. .... **NO. 21-898**  
**COLLET,**  $\frac{1}{16}$ ", 2 lbs. .... **NO. 21-899**  
**COLLET,**  $\frac{3}{4}$ ", 2 lbs. .... **NO. 21-899**  
 **$\frac{3}{16}$ " END MILL HOLDER,** style R8. 2 lbs. .... **NO. 21-803**  
 **$\frac{3}{8}$ " END MILL HOLDER,** style R8. 2 1/4 lbs. .... **NO. 21-804**  
 **$\frac{1}{2}$ " END MILL HOLDER,** style R8. 2 1/2 lbs. .... **NO. 21-805**

**M  $\frac{5}{8}$ " END MILL HOLDER,** style R8. 2 3/4 lbs. .... **NO. 21-806**  
**\* $\frac{3}{4}$ " END MILL HOLDER,** style R8. 3 lbs. .... **NO. 21-807**  
**\* $\frac{7}{8}$ " END MILL HOLDER,** style R8. 3 1/4 lbs. .... **NO. 21-808**  
**\*1" END MILL HOLDER,** style R8. 3 1/2 lbs. .... **NO. 21-809**

**ARBOR,** for drill chucks with No. 3 Jacobs female taper, style R8. 3 lbs. .... **NO. 21-801**  
**N ARBOR,** for drill chucks with No. 33 Jacobs female taper, style R8. 3 lbs. .... **NO. 21-802**

### HORIZONTAL MILLING MACHINE ACCESSORIES

**DRILL CHUCK,** 3-jaw type, 0 to  $\frac{1}{2}$ " capacity, with No. 2 M.T. shank. Includes chuck key. 2 1/2 lbs. .... **NO. 46-968**

**DRILL CHUCK,** same as No. 46-968 except with No. 3 M.T. shank. 3 lbs. .... **NO. 17-820**  
**ARBOR,**  $\frac{7}{8}$ ", 10", length shoulder to nut, style "A" with assorted spacers. 5 lbs. .... **NO. 21-821**

**O ARBOR,** 1", 10", length shoulder to nut, style "A" with assorted spacers. 10 lbs. .... **NO. 21-822**

**ARBOR,**  $\frac{3}{4}$ ", for shell end mills. 4 lbs. .... **NO. 21-831**

**P ARBOR,** 1", for shell end mills. 4 lbs. .... **NO. 21-832**

**ARBOR,**  $1\frac{1}{4}$ ", for shell end mills. 7 lbs. .... **NO. 21-833**

**Q SPINDLE ADAPTER,** No. 3 M.T. 2 lbs. .... **NO. 21-823**

**SPINDLE ADAPTER,** No. 2 M.T. 2 lbs. .... **NO. 21-824**

**$\frac{3}{8}$ " END MILL HOLDER,** 2 lbs. .... **NO. 21-825**

**$\frac{1}{2}$ " END MILL HOLDER,** 2 lbs. .... **NO. 21-826**

**R  $\frac{5}{8}$ " END MILL HOLDER,** 3 lbs. .... **NO. 21-827**

**$\frac{3}{4}$ " END MILL HOLDER,** 3 lbs. .... **NO. 21-828**

**$\frac{7}{8}$ " END MILL HOLDER,** 5 lbs. .... **NO. 21-829**

**1" END MILL HOLDER,** 5 lbs. .... **NO. 21-830**

**S OVERARM ARBOR SUPPORT BRACKET** with bearing and draw-in nut. Fits running bushings with  $1\frac{1}{8}$ " O.D. Required for style "B" arbors or may be used for extra rigidity in addition to style "A" arbor support bracket, which is supplied as standard equipment. Includes instructions for boring in line with spindle for field installation, or will be completely machined at factory when ordered with a new Horizontal Milling Machine. 3 lbs. .... **NO. 21-834**

**SPINDLE AND WAY OIL,** Velocite-E,  $\frac{1}{2}$  pint can. 2 lbs. .... **NO. 24-812**

\*NOTE: For single end mills only.

# Step Up Productivity!

Choose ROCKWELL . . .  
**Most Complete Line of  
Drilling Machines in the World!**  
Select From 200  
"Engineered-for-Industry" Models.

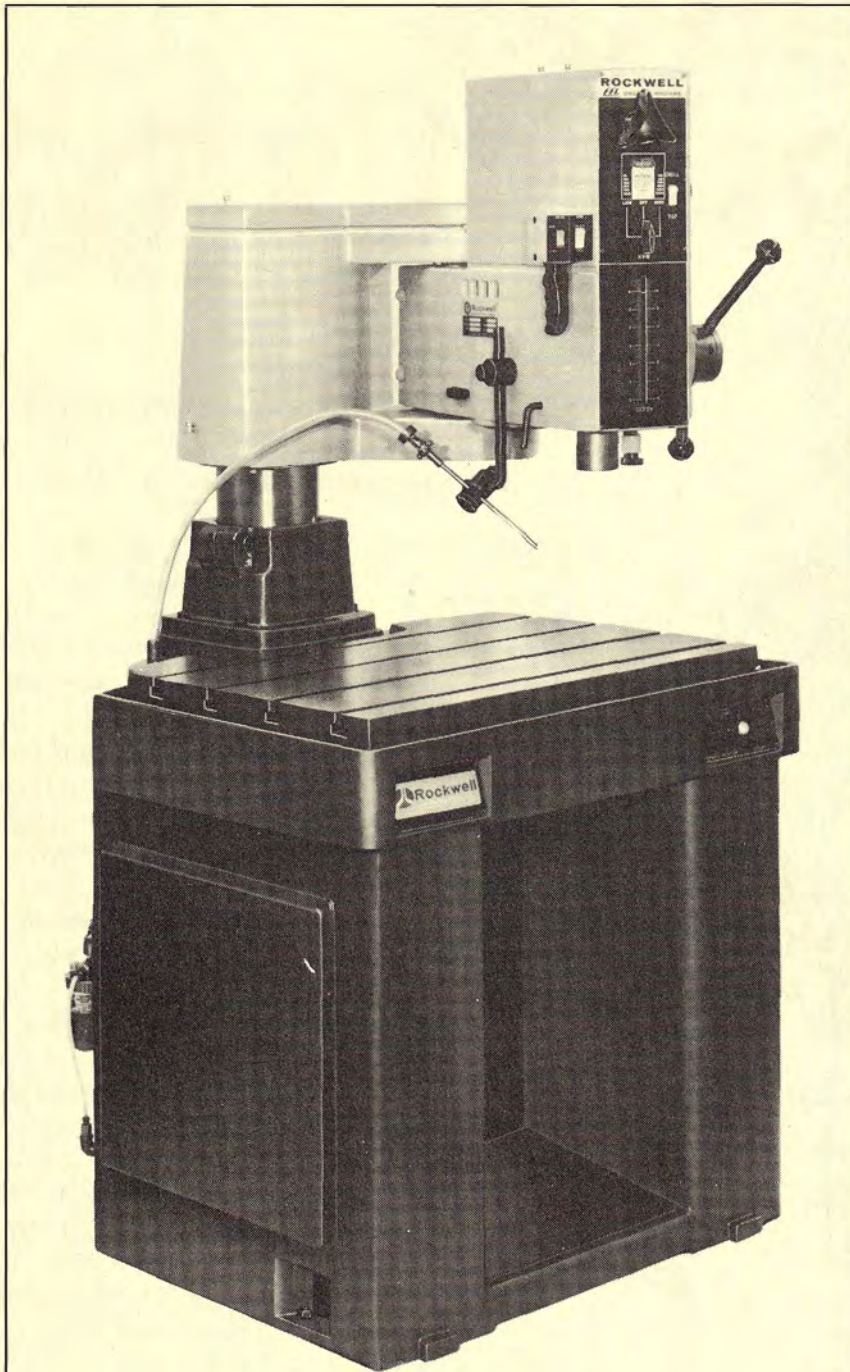
What's your job—drilling, reaming, spot facing, counterboring? Whatever it is, ROCKWELL has a drilling machine to suit your exact production requirement.

Models vary from geared head to belt drive in step pulley or variable speed with hand, mechanical or air feed. You can select bench, floor or overhead models in single or multiple spindle set-ups with No. 4, No. 3 or No. 2 M.T. spindle or key chuck spindle. Drilling diameters range from 1 $\frac{3}{8}$ " in mild steel on Geared Head Models to .0135" (#80) on 14" Super-Hi Sensitive Models.

In addition, look into the modern features built into every ROCKWELL Drilling Machine. These features guarantee long service life, consistent precision performance and maximum operating economy.

Let us show you a ROCKWELL "productivity builder" in action today!

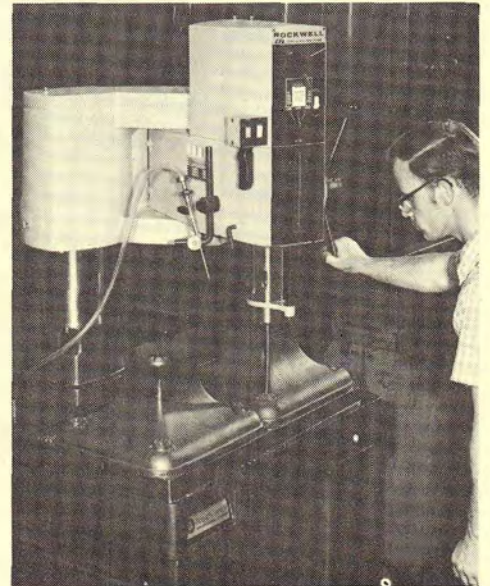




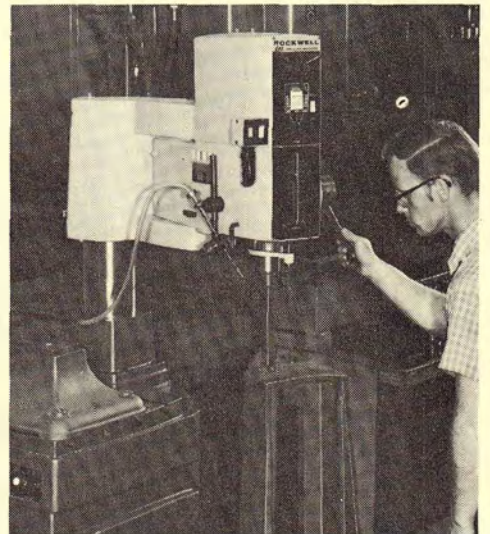
Here's a machine that is especially suited for big job applications where conventional drilling machine capacities limit their use. You can drill and tap extra large workpieces without re-positioning the work. The motorized column and articulating arm make point-to-point drilling or tapping a simple operation. Furthermore, you can drill holes up to 1 1/4" and tap holes up to 1" in diameter in mild steel up to 6 3/4" deep. You can select from any one of 12 gear driven spindle speeds quickly and easily using the up-front control. The built-in, gear driven power feed, the tapping control and the massive construction combine to make this versatile machine an unmatched value. These are just a few reasons why this Rockwell EFI Radial Drill is ideal for big capacity jobs in the tool room, die shop, pattern shop, and for many other industrial applications.

**Make Large Workpiece Drilling Easy With A Rockwell EFI Geared Head Radial Drill!**

**NOW, WITH NEW, IMPROVED HEAD CONSTRUCTION!**



Safety engineered for industry, the massively built Rockwell EFI Radial Drill offers great versatility . . . easy handling . . . centralized controls . . . a large work area . . . plus big drilling capacity.



Big, off-the-table drilling jobs are easy with Rockwell EFI Radial Drills. This is because the head and arm can be rotated anywhere around the column to suit the job.

## CATALOG LISTING

**No. 70-151—Model EFI-3T Geared Head Radial Drilling Machine.** Includes Basic Machine, Ready to Run, with Power Feed, Tapping Feature, Two-Speed Motor with Overload and No-Voltage Protection, Motorized Raising and Lowering Mechanism, Pneumatic Locking System, Built-In Coolant System, Drift Key, Operating Manual and Wrenches. Specify 200, 230 or 460 V when ordering. 1610 lbs.

## MACHINE DATA

### Capacities:

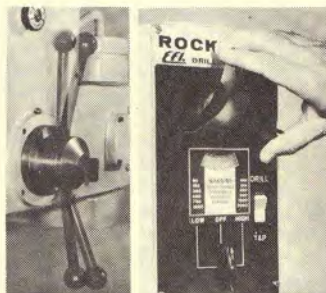
Steel	..... 1 1/4" (31.75 mm)
Cast Iron	..... 1 1/2" (38.1 mm)
Center of Spindle to Column,	
Maximum	..... 27 1/16" (700.09 mm)
Center of Spindle to Column,	
Minimum	..... 11 1/16" (280.99 mm)
Quill Stroke	..... 6 3/4" (171.45 mm)
Spindle Taper	..... No. 4 Morse
Spindle Speeds (12)	..... 90, 150, 190, 310, 360, 480, 680, 780, 960, 1560, 1680 and 3360 RPM

### Motor:

Voltage and Phase	.. 200, 230 or 460 V, 3 Phase with Overload and No-Voltage Protection (Specify Voltage)
Speeds	..... Two
Horsepower	..... 1.9/1.3
Distance, Table to Quill, Max.	..... 23 3/8" (587.38 mm)
	Min. .... 8 3/8" (180.6 mm)

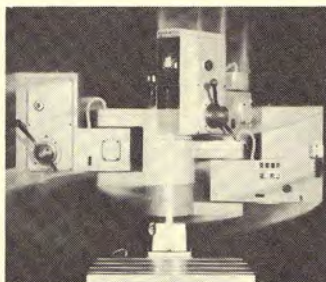
Air Requirement	..... .90 PSI
Base Dimension	..... 24" x 34 5/8" (609.6 x 879.48 mm)
Table Dimension	..... 24" x 34 5/8" (609.6 x 879.48 mm)
Coolant System	..... Built-in
Column Diameter	..... 6 7/32" (165.89 mm)
Net Weight	..... 1610 Lbs. (730.29 kg)
Shipping Weight	..... 1920 Lbs. (870.91 kg)

## Here's What Makes the Rockwell EFI A BETTER RADIAL DRILL!

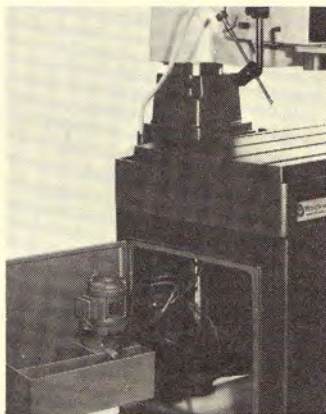


**Flexible Spindle Control; Feed Rate Selector.** (Left) Spindle can be operated by hand feed or power feed simply by positioning feed control "out" for hand feed and "in" for power feed. Power feed rates of .004, .006 or .010 ipr are selected by turning feed selector to desired feed rate.

**Fast Speed Selection.** (Right) Any of 12 speeds, from 90 to 3360 RPM, can be quickly selected simply by switching motor to low or high range and speed selector to desired speed.



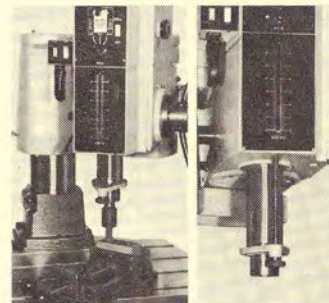
**Versatile Head Movement.** Head rotates smoothly and easily for full utilization of table work area, or for off-the-table drilling. Motorized column raises or lowers head quickly. Pneumatic system, controlled by electromagnetic valves, rigidly locks column and head in any desired position. Column locks or unlocks automatically by means of a safety interlock system when the raising and lowering control is actuated.



**Built-In Coolant System.** Mounted on door of machine base, the standard equipment coolant system is readily accessible for cleaning purposes or for replacement of coolant. Adjustable valve and multi-position nozzle enable proper amount of coolant to be directed on drill bit.



**Massive, Extra Large Table.** Big 24" x 34 5/8" table, with T-slots and coolant trough, provides ample support for large jigs and fixtures. Special design enables operator to work in either standing or sitting position.

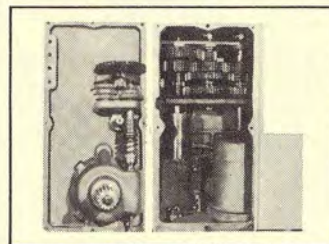


**Adjustable Tapping Feature.** (Left) By selecting tapping mode, the Rockwell EFI Radial Drill, with automatic spindle reversing system, can be used for tapping right or left hand threads. Using the depth scale, the tapping control switch automatically reverses the spindle when the selected depth is reached. This feature eliminates the need for costly and time consuming tapping attachments.

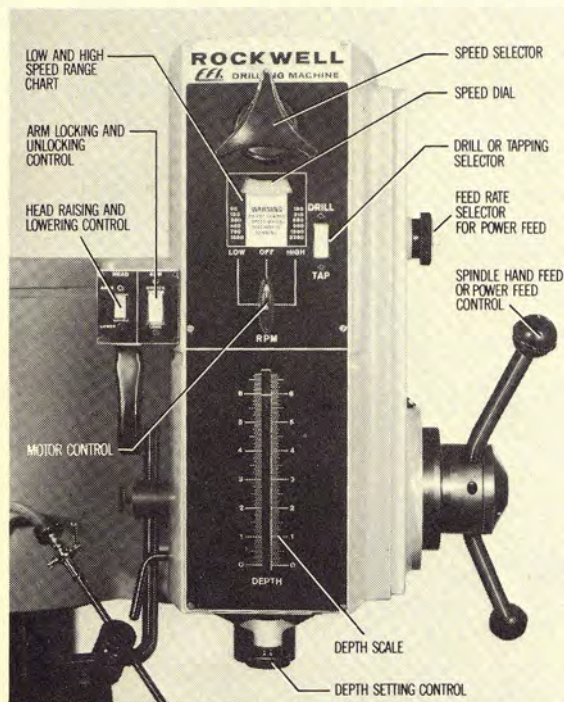
**Extra Long Quill Travel.** (Right) Husky 2 13/16" quill provides a full 6 3/4" stroke for deep hole skip or gang drilling, or for clearing jigs and fixtures.



**Spindle and Coolant Controls.** Panel for controlling spindle rotation and coolant system is conveniently located at the front of the table for easy, fast operator use.



**New, Improved Gear Train Drive.** (Right) Cam operated, massive gear train provides wide range speed reduction for greater torque at the spindle. (Left) Power feed, with feed rates of .004, .006 and .010 ipr, is engaged through cross movement by either of the two feed levers. Safety slip clutch provides protection against overloading.



**Convenient Controls.** All controls are located up front where they are easy to read and convenient to operate.

# Rockwell EFI Geared Head Drilling Machines

**NOW, WITH NEW,  
IMPROVED HEAD  
CONSTRUCTION!**

## ROCKWELL QUALITY FEATURES

**A. Convenient Controls.** All Controls are located up front where they are easy to read and convenient to operate.

**B. Head Raising Handwheel.** Head on Series EFI-2 Models may be easily raised or lowered by worm gear controlled handwheel which prevents head from dropping when holding levers are unlocked. Head also may be rotated around column when desired.

**C. Flexible Spindle Control; Feed Rate Selector (Series EFI-2).** Spindle can be operated by hand feed or power feed simply by positioning feed control "out" for hand feed and "in" for power feed. Power feed rates of .004, .006 or .010 ipr are selected by turning feed selector to desired feed rate.

**D. Extra Long Quill Travel (Series EFI-2).** Husky quill provides a full 6 $\frac{1}{4}$ " stroke for deep hole skip or gang drilling, or for clearing jigs and fixtures.

**E. Fast Speed Selection.** Any of 12 speeds (90 to 3360 RPM on Series EFI-2) or 8 speeds (150 to 3360 RPM on Series EFI-1) can be quickly selected simply by switching motor to low or high range and selector to desired speed.

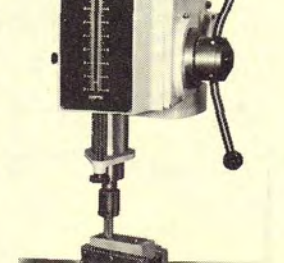
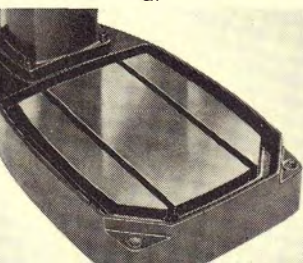
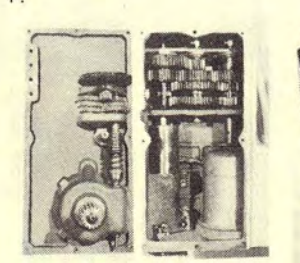
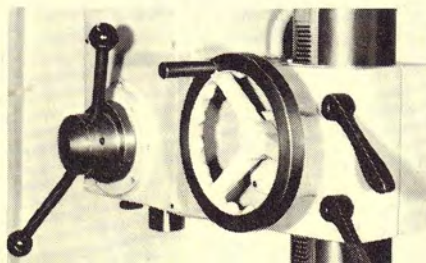
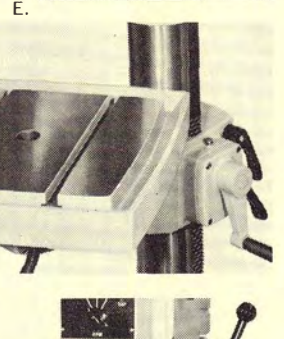
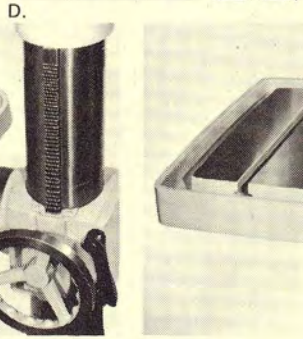
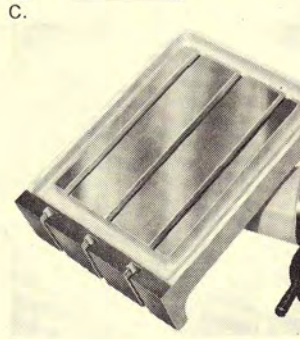
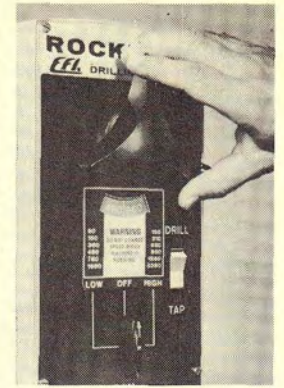
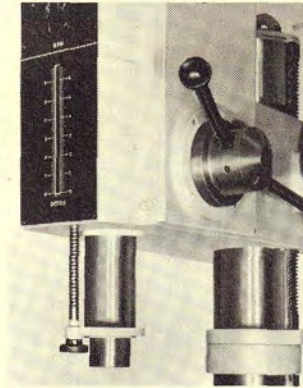
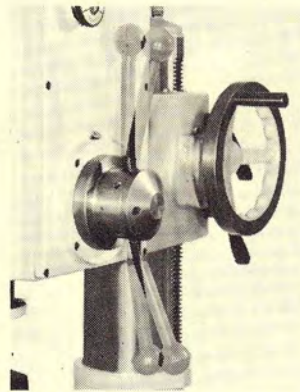
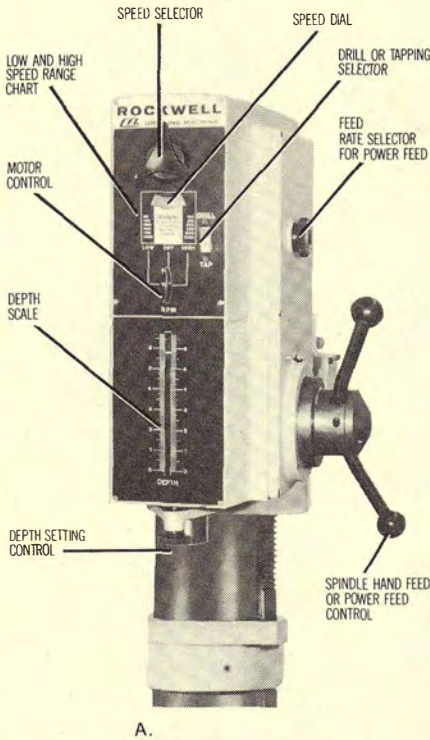
**F. Angle Plate Table (Series EFI-2).** Husky 15" x 20" T-slot table with coolant trough has apron at right angle to top surface for angle drilling. Easily raised or lowered by a worm gear operated handwheel, table can be rotated 360° around the column or calibrated arm.

**G. Versatile Table (Series EFI-1).** 15 $\frac{1}{8}$ " x 15 $\frac{1}{8}$ " T-slot table, with coolant trough, can be rotated 60° right or left, or locked in any position. Table can be raised or lowered quickly by means of worm gear mechanism.

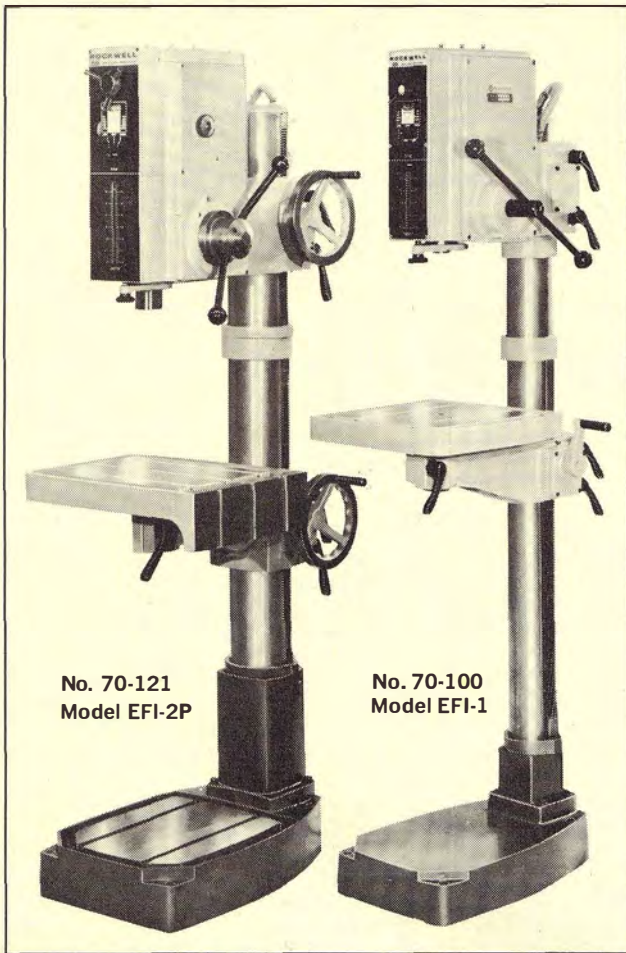
**H. New, Improved Gear Train Drive (Series EFI-2).** (Right) Cam operated, massive gear train provides wide range speed reduction for greater torque at the spindle. (Left) Power feed, with feed rates of .004, .006 and .010 ipr, is engaged through cross movement by either of the two feed levers. Safety slip clutch provides protection against overloading.

**I. Massive Base.** Large 16 $\frac{1}{8}$ " x 25 $\frac{1}{4}$ " machined base on Series EFI-2 Models has T-slots and coolant trough, making it suitable for handling large workpieces.

**J. Adjustable Tapping Feature.** By selecting tapping mode, the Rockwell EFI-2T Model, with automatic spindle reversing system, can be used for tapping right- or left-hand threads. Using the depth scale, the tapping control switch automatically reverses the spindle when the selected depth is reached. This feature eliminates the need for costly and time consuming tapping attachments.

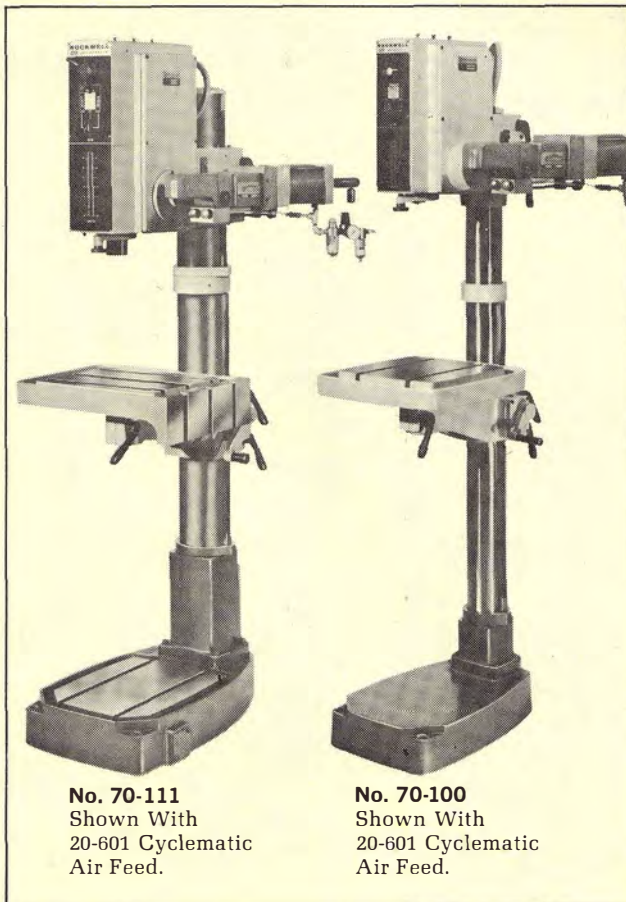


# ROCKWELL EFI GEARED HEAD DRILLING MACHINES



No. 70-121  
Model EFI-2P

No. 70-100  
Model EFI-1



No. 70-111  
Shown With  
20-601 Cyclematic  
Air Feed.

No. 70-100  
Shown With  
20-601 Cyclematic  
Air Feed.

## Choose From 4 Geared Head Models Available With Hand Feed, Power Feed or Power Feed With Tapping Control

No matter which Rockwell EFI model you select, you get a massively built, precision drilling machine. And you get big capacities, too. Drilling diameters range up to 1 $\frac{3}{8}$ " in mild steel, quill travel to 6 $\frac{3}{4}$ ". You get positive, geared head drive on all models plus fast speed selection. For greater production, you can choose the work saving power feed and the automatic tapping system for both right- and left-hand threads.

There are other important features, too, like the swivel-type T-slot tables with worm gear raising mechanism . . . heads that rotate easily around the column . . . two-speed motors . . . and much more.

These are just a few reasons why Rockwell EFI Drilling Machines are ideal for big capacity jobs in machine shops, tool rooms, experimental departments, production lines, or wherever big hole drilling to close tolerances is required.

## MACHINE DATA

	EFI-1	EFI-2, 2P and 2T
<b>Model No.</b> . . . . .	EFI-1	
<b>Capacities:</b>		
Steel . . . . .	1" (25.4 mm)	1 $\frac{3}{8}$ " (34.92 mm)
Cast Iron . . . . .	1 $\frac{1}{4}$ " (31.75 mm)	1 $\frac{1}{2}$ " (38.10 mm)
Center of Spindle to Column . . . . .	8 $\frac{7}{8}$ " (225.42 mm)	12 $\frac{5}{16}$ " (309.55 mm)
<b>Quill Stroke</b> . . . . .	4 $\frac{5}{16}$ " (109.54 mm)	6 $\frac{3}{4}$ " (171.45 mm)
<b>Spindle Taper</b> . . . . .	No. 3 Morse	No. 4 Morse
<b>Spindle Speeds (8)</b> . . . . .	150, 300, 420, 600, 840, 1200, 1680 and 3360 RPM	(12) . . . 90, 150, 190, 310, 360, 480, 680, 780, 1560, 1680 and 3360 RPM
<b>Motor:</b>		
Voltage and Phase . . . . .	230 or 460 V, 3 Phase with Overload (Specify Voltage)	230 or 460 V, 3 Phase with Overload (Specify Voltage)
Speeds . . . . .	Two	Two
Horsepower . . . . .	1.0/1.8	1.9/1.3
<b>Maximum Distance:</b>		
Base to Quill . . . . .	49 $\frac{3}{4}$ " (1263.65 mm)	51 $\frac{9}{16}$ " (1309.69 mm)
Table to Quill . . . . .	32" (812.8 mm)	28 $\frac{17}{32}$ " (724.69 mm)
<b>Base Dimension</b> . . . . .	13" x 20 $\frac{1}{2}$ " (330.2 x 520.70 mm)	16 $\frac{1}{8}$ " x 25 $\frac{3}{4}$ " (409.57 x 654.05 mm)
<b>Table Dimension</b> . . . . .	15 $\frac{3}{8}$ " x 15 $\frac{3}{8}$ " (390.52 x 390.52 mm) with Coolant Trough	15" x 20" (169 x 508 mm) L Angle with Coolant Trough
<b>Column Diameter.</b>	3 $\frac{15}{16}$ " (100.01 mm)	5 $\frac{1}{2}$ " (139.70 mm)
<b>Net Weight</b> . . . . .	450 lbs. (204.54 kg.)	835 lbs. (379.55 kg.)
<b>Shipping Weight</b> . . . . .	575 lbs. (261.36 kg.)	1100 lbs. (500 kg.)

## CATALOG LISTING

**No. 70-100—Model EFI-1 1" Capacity\* Geared Head Drilling Machine.** Includes Basic Machine, Ready to Run, with Two-Speed Motor with Overload, Table Raising Mechanism, Drift Key, Operating Manual and Wrenches. 450 Lbs.

**No. 70-111—Model EFI-2 1 $\frac{3}{8}$ " Capacity\* Geared Head Drilling Machine.** Includes Basic Machine, Ready To Run, with Two-Speed Motor with Overload, Head and Table Raising Mechanism, Drift Key, Operating Manual and Wrenches. 825 Lbs.

**No. 70-121—Model EFI-2P 1 $\frac{3}{8}$ " Capacity\* Geared Head Drilling Machine.** Same As 70-111, Except Includes Power Feed. 835 Lbs.

**No. 70-131—Model EFI-2T 1 $\frac{3}{8}$ " Capacity\* Geared Head Drilling Machine.** Same As 70-111, Except Includes Power Feed and Tapping Feature. 838 Lbs.

\*Capacity in mild steel.

For Cyclematic Air Feed, See Page 7, Section A4; for other Drilling Machine Accessories, See Section A9; for Coolant Equipment, See Section D1.

# Rockwell Series 2000 Drilling Machines

## ROCKWELL QUALITY FEATURES THAT ASSURE TOP PERFORMANCE!

**A. Unique, Full Power Transmission**—Rockwell's pivot-type belt tensioning idler permits greater belt wrap on the jack-shaft pulley. The 1½" wide, "Poly V" belt transmits *full power* from the motor to the spindle at *all speeds* and provides extra long belt life.

**B. Choice of Three Extra Wide Speed Ranges**—Only Rockwell Delta's New Series 2000 Variable Speed Drilling Machine gives you a 10-to-1 speed ratio in three model variations with *full power* at the spindle at *all speeds*! You get the exact speed range you need for every drilling job—375 to 3750 RPM—200 to 2000 RPM—or 125 to 1250 RPM.

**C. Exclusive Eight-Speed Range**—The New Rockwell Delta Step Pulley Model is the only machine in its size that offers eight speeds with *full HP at the spindle at all speeds*! This is because Rockwell uses a standard 1725 RPM, single-speed dual-voltage motor. You get eight selected speeds in any of three speed ranges.

**D. Fast Easy Speed Changes**—Pivot-type motor mount on Series 2000 Step Pulley Models makes belt changing fast and easy. You get longer belt life, too, because belt tension is fully released before changing from one pulley speed to another.

**E. Massive Head Construction**—The head on the Series 2000 Drilling Machine is a rugged, one-piece casting more than 10" deep x 6" wide. This superior construction provides maximum rigidity, resulting in greater accuracy at the spindle.

**F. "Self-Locking" Depth Stop**—Unlike competitive depth stops, Delta's self-locking design guarantees that it will never change its setting, eliminating ruined work pieces. Set-ups are fast for absolute depth control. Stop is calibrated to show changes down to .002". **BIG QUILL TRAVEL**—Provides a full 6" stroke . . . ample capacity for skip and gang drilling, counterboring and reaming large work. Note exceptionally large 2⅜" diameter quill.

**G. Exclusive Rockwell Safety Control Station**—Only Rockwell Series 2000 Drilling Machines offer a low 24 volts at the push button control station for extra

operator safety. Magnetic control system provides on-off control, low-voltage, no-voltage (when power is interrupted, machine can be started only by pressing start button), and motor overload protection. On three phase systems, overload protection is provided on all three legs. Shrouded green "start" button prevents accidental starts while protruding red "stop" button is extra large for quick, emergency stops. Switch cover and buttons are made of non-conductive material for added safety.

**H. Specially Designed Production Table**—Extra large table with 19¼ x 22" work surface, has both diagonal and parallel blind T-slots to facilitate clamping of jigs and fixtures.

## ROCKWELL QUALITY EXTRAS

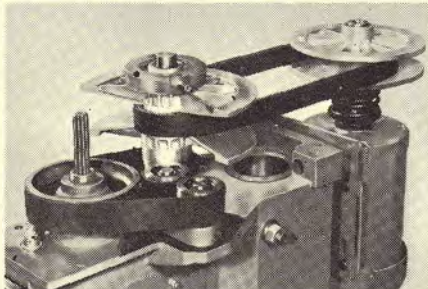
**Eight Ball Bearings** rigidly support variable speed drive and spindle on speed reduction models.

**Ten-Spline Spindle** is ¾" in diameter for greater torque transmission.

**Large 2⅜" Diameter Quill** is supported by three precision bored lands in head, providing extra smooth travel. Two 90°, individually adjustable plugs assure continued quill accuracy, even after long use.

**New Quill Return Spring Adjustment** can be safely and easily set in seconds to keep production moving.

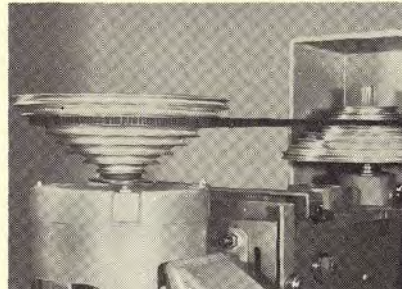
**Long Columns** provide extra big capacity for large work.



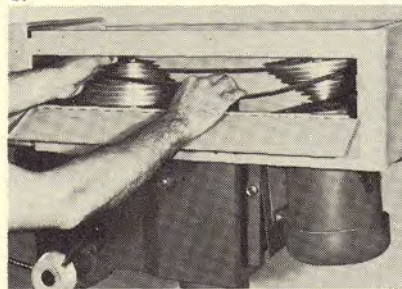
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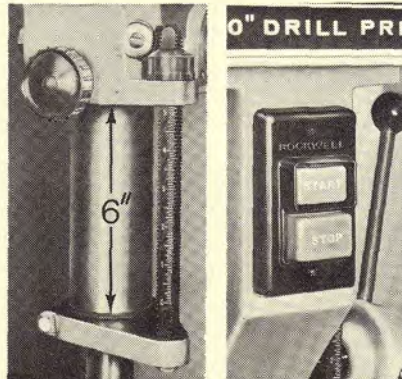
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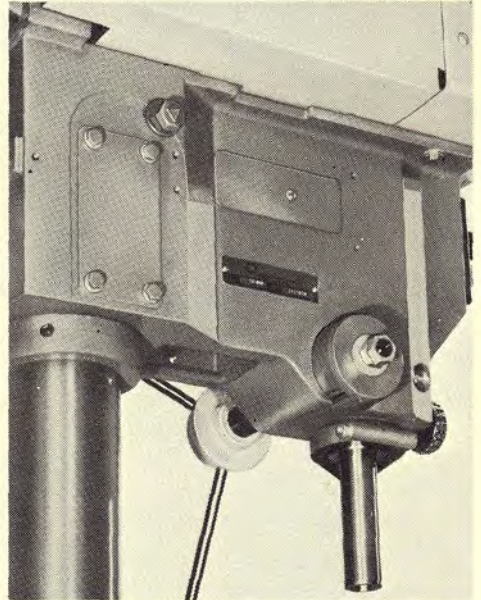
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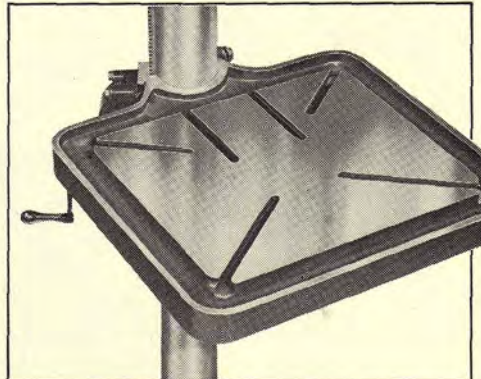
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F.



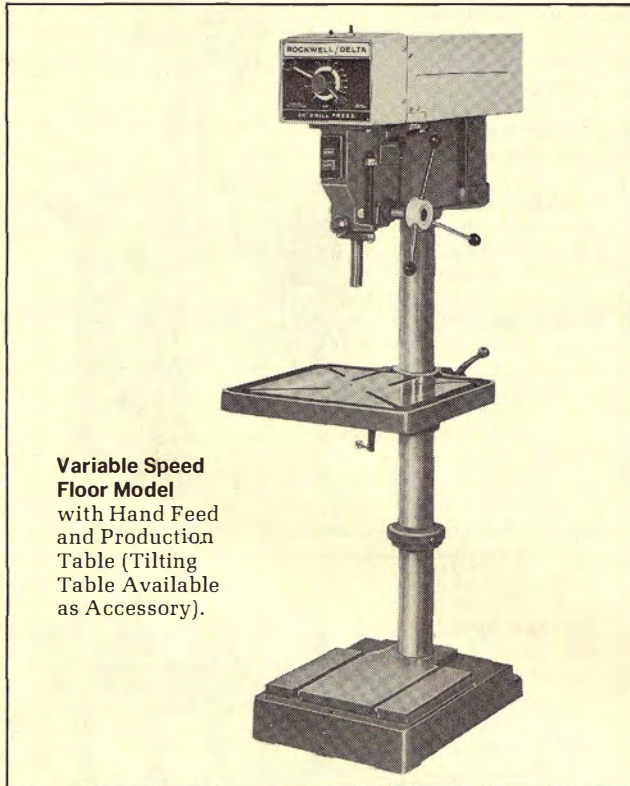
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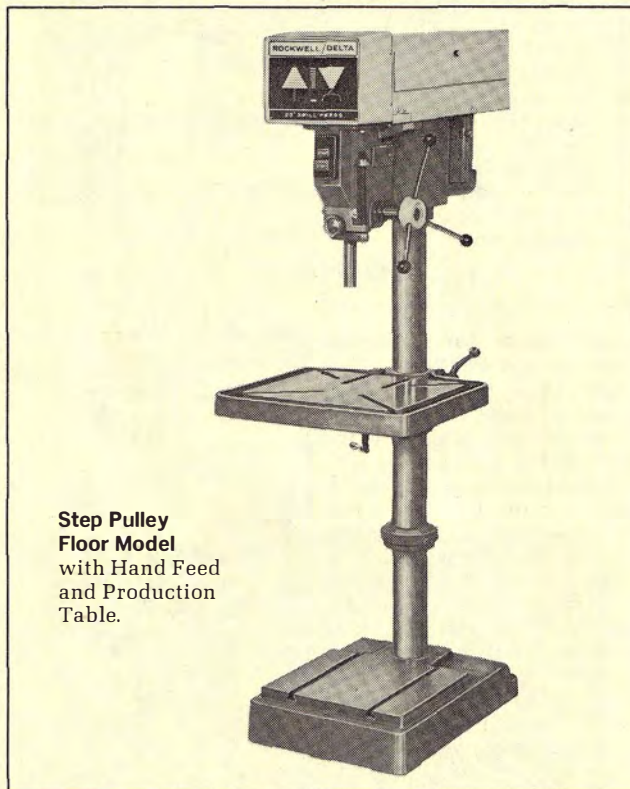
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# ROCKWELL SERIES 2000 DRILLING MACHINES

Select From 18 Variable Speed and Step Pulley Models and Match a Rockwell Series 2000 to Your Exact Production Requirements. (See Page 3 for Additional Models.)



**Variable Speed Floor Model** with Hand Feed and Production Table (Tilting Table Available as Accessory).



**Step Pulley Floor Model** with Hand Feed and Production Table.

All models furnished with choice of three types of feed—Hand Feed, Vari-Rate Mechanical Power Feed or Cyclematic Air Feed.

**Unique "Full Power" Rockwell Drive System Increases Your Production Capability . . . Gives You Full 1½ HP at the Spindle at Any Speed From 125 RPM to 4250 RPM!**

**You Get Maximum Capacity, too—1" Holes in Steel**

You've got a lot more going for you with Rockwell Delta's New Series 2000 Drilling Machines. Here's why! The unique slow-speed drive system incorporates a belt tensioning idler for greater wrap-around of the multiple "V" belt on the jack-shaft pulley. You get "full power" transmission from the motor to the spindle. Rockwell's new drive is powered by a standard 1725 RPM, single-speed, dual-voltage motor. This adds up to a *full 1½ HP at the spindle during both high and low speeds . . . not one-half the HP at low speed as with a two-speed motor.*

Rockwell gives you the *widest* selection of speeds in the industry! You can choose from three speed ranges in both step pulley and variable speed models.

They are ideally suited for big capacity jobs in machine shops, tool rooms, experimental departments, production lines, vocational schools, or wherever big hole drilling to close tolerances is required.

Let us show you these "productivity builders" in action today!

## MACHINE DATA

### Overall Dimensions:

Bench Type:

Height . . . .55" (1397 mm); Width . . . .23" (584.2 mm)  
Front to Rear . . . . .32 5/16" (820.7 mm)

Floor Type:

Height . . . .75" (1905 mm); Width . . . .22" (558.8 mm)  
Front to Rear . . . . .31 1/2" (800.1 mm)

### Table Working Surface, Ground:

Tilting . . . . .16 x 18" (406 x 457 mm)

Production:

Overall . . . . .19 1/4 x 22" (489 x 559 mm)  
Inside of Coolant Trough . . . . .15 x 18" (381 x 457 mm)  
T-Slots (Six) . . . . .1 7/8" (13.5 mm)

### Base Working Surface:

Bench Model . . . . .18 x 24" (457 x 610 mm)  
Floor Model . . . . .13 1/2 x 14 3/4" (343 x 375 mm)

### Quill:

Stroke (Manual Feed) . . . . .0 to 6" (0 to 152 mm)  
Stroke (Power Feed) . . . . .1/2 to 6" (13 to 152 mm)  
Diameter . . . . .2 3/8" (60.3 mm)

### Capacities:

Diameter Hole in Steel . . . . .1" (25.4 mm)  
in Cast Iron . . . . .1 1/8" (28.5 mm)

### Spindle Speeds:

Step Pulley Models (8 Speeds, 11.2-to-1 Ratio):

Direct Drive . . . . .375, 600, 900, 1275, 1800, 2400,  
3200, 4200 RPM

2-to-1 Reduction . . . . .180, 280, 425, 600, 850, 1125,  
1525, 2000 RPM

3-to-1 Reduction . . . . .125, 200, 300, 425, 600, 800,  
1065, 1400 RPM

Variable Speed Models (10-to-1 Ratio):

Direct Drive . . . . .375 to 3750 RPM

2-to-1 Reduction . . . . .200 to 2000 RPM

3-to-1 Reduction . . . . .125 to 1250 RPM

### Power Feed Models:

Feeds:

Variable Rate Mechanical Type . . . . from .003 to .018 ipr  
(.075 to .45 mmpr)

### Column:

Wall Thickness . . . . .1/2" (12.7 mm)

Diameter . . . . .3 3/4" (95.25 mm)

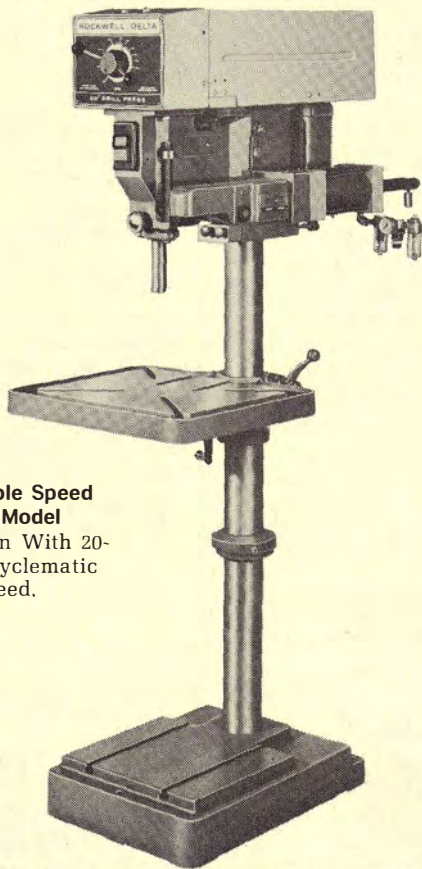
### Motor Plate:

Accommodates NEMA Frame Motors 143T and 145T

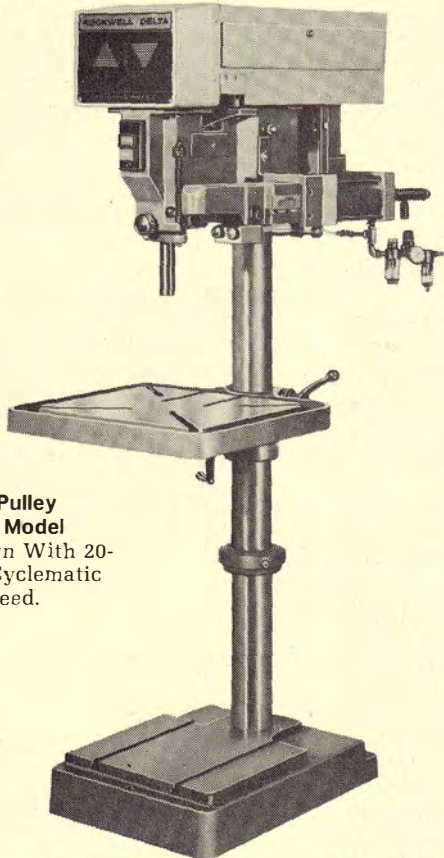
See Page 4 for ordering information.

## Additional Series 2000 Models

(See Page 2 for Other Models.)

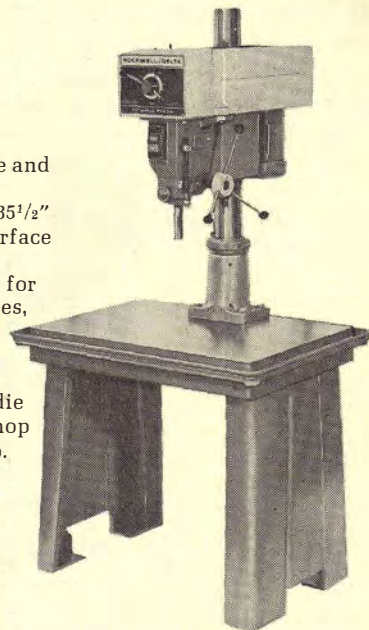


**Variable Speed Floor Model**  
Shown With 20-601 Cyclematic Air Feed.

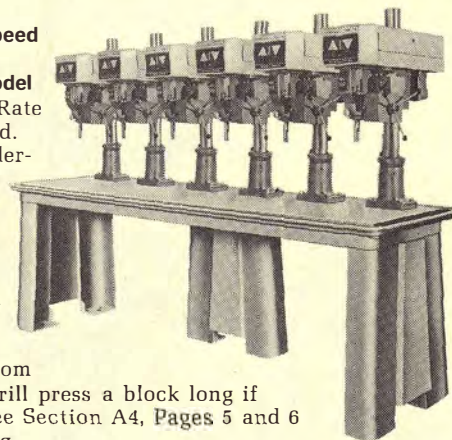


**Step Pulley Floor Model**  
Shown With 20-601 Cyclematic Air Feed.

**Variable Speed Floor Model**  
with Extra Large Production Table and Hand Feed. Spacious 24 $\frac{1}{2}$  x 35 $\frac{1}{2}$ " table working surface makes machine especially suited for handling large dies, jigs, fixtures and patterns. An excellent unit for the tool and die shop, machine shop and pattern shop.



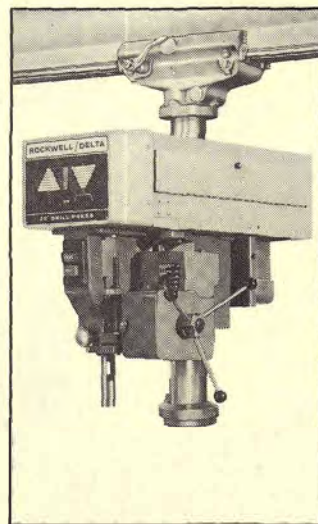
**Variable Speed Multiple Spindle Model**  
with Vari-Rate Power Feed. Can be ordered custom assembled using any combination of heads with any number of spindles from one to a drill press a block long if desired. See Section A4, Pages 5 and 6 for ordering.



**Drill Heads for Overhead Models and for Special Set-ups.** Using the basic Drill Head Models, the No. 20-761 Raising Mechanism and the No. 20-623 Column and Ball Bearing Carriage Assembly, you can readily build a versatile overhead set-up. Mounted on a jib crane or overhead track, the unit is especially practical for drilling large or heavy work or where 360° rotation is desired.

Because of their adaptability and big capacity, all drill heads can be used effectively in special set-ups to solve radial, angular, horizontal and other particular drilling problems.

**All models furnished with choice of three types of feed—Hand Feed, Vari-Rate Mechanical Feed or Cyclematic Air Feed.**



# ROCKWELL SERIES 2000 DRILLING MACHINES

## CATALOG LISTING

SINGLE SPINDLE MODELS (Less Motor and Control—See Below)

TYPE	HAND FEED—NO. 3 MORSE TAPER					
	STEP PULLEY (8 SPEEDS)			VARIABLE SPEED		
	3-TO-1 REDUCTION LO-SPEED 125-1400 RPM	2-TO-1 REDUCTION LO-SPEED 180-2000 RPM	DIRECT DRIVE HI-SPEED 375-4200 RPM	3-TO-1 REDUCTION LO-SPEED 125-1250 RPM	2-TO-1 REDUCTION LO-SPEED 200-2000 RPM	DIRECT DRIVE HI-SPEED 375-3750 RPM
FLOOR MODEL/PRODUCTION TABLE	•70-584 483 lbs.	•70-593 481 lbs.	•70-602 470 lbs.	*•70-611 501 lbs.	*•70-620 499 lbs.	*•70-629 488 lbs.
FLOOR MODEL/TILTING TABLE	•70-585 483 lbs.	•70-594 481 lbs.	•70-603 470 lbs.	*•70-612 501 lbs.	*•70-621 499 lbs.	*•70-630 488 lbs.
HEADS ONLY (Less 20-761 Raising Mechanism)	70-586 187 lbs.	70-595 185 lbs.	70-604 174 lbs.	*70-613 205 lbs.	*70-622 203 lbs.	*70-631 192 lbs.

\*Includes Safety Collar for head. Table working surface—Floor Model with Production Table, 19¼ x 22"; Floor Model with Tilting Table, 16 x 18", tilts 90° L and R. Production Tables have 1½" coolant trough with two ¾" pipe taps at rear.

\*NOTE: Variable Speed Models furnished only with electricals, factory mounted and wired, ready to run!

**NOTE: For ordering multiple spindle set-ups, see Section A4, Pages 5 and 6.**

### MOTORS AND CONTROLS (Factory Mounted and Wired)

(On multiple spindle units, designate head (1st, 2nd, etc.) on which each motor and control group is to be mounted.)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HZ. AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT. LBS.	CATALOG NUMBER	CAT. NO. 200 V
Single Phase 1½ Horsepower	Push Button Switch Only	TEFC	60-1725	230	61	52-454	
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	230	67	52-456	
Three Phase 1½ Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	63	†52-460	52-464

NOTE: Single Phase electricals will be supplied wired for 230 V only. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only. Motors and motor controls for Rockwell Delta Series 2000 Step Pulley Drilling Machines may be ordered unmounted. For listing, see Sections P and Q.

†No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to Three Phase Cat. No. 52-460, in order to obtain Series 2000 Drilling Machine with "JIC" type electricals, factory mounted and wired.

### POWER FEED—FACTORY MOUNTED ONLY

Catalog Number	Type of Power Feed	Weight Lbs.
20-629	†Variable Rate Type (.003 to .018 ipr) For Rockwell 20" Drill Presses	45

†Above power feed supplied factory mounted only. Not supplied for field mounting. Minimum spacing of multiple spindle 20" power feed heads is 21½".

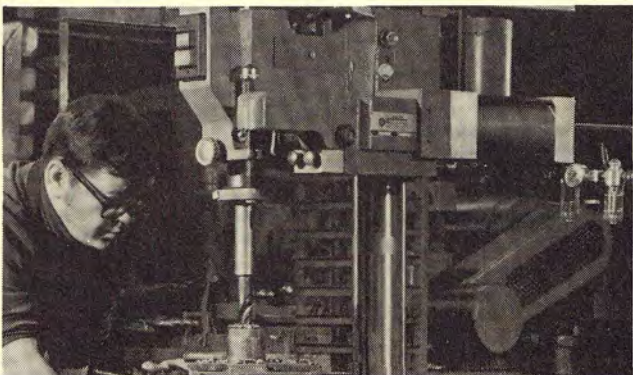
NOTE: For complete description of Power Feed, see Section A4, Page 9.

**Rockwell Series 2000 Drilling Machines Are Built to Deliver . . .**

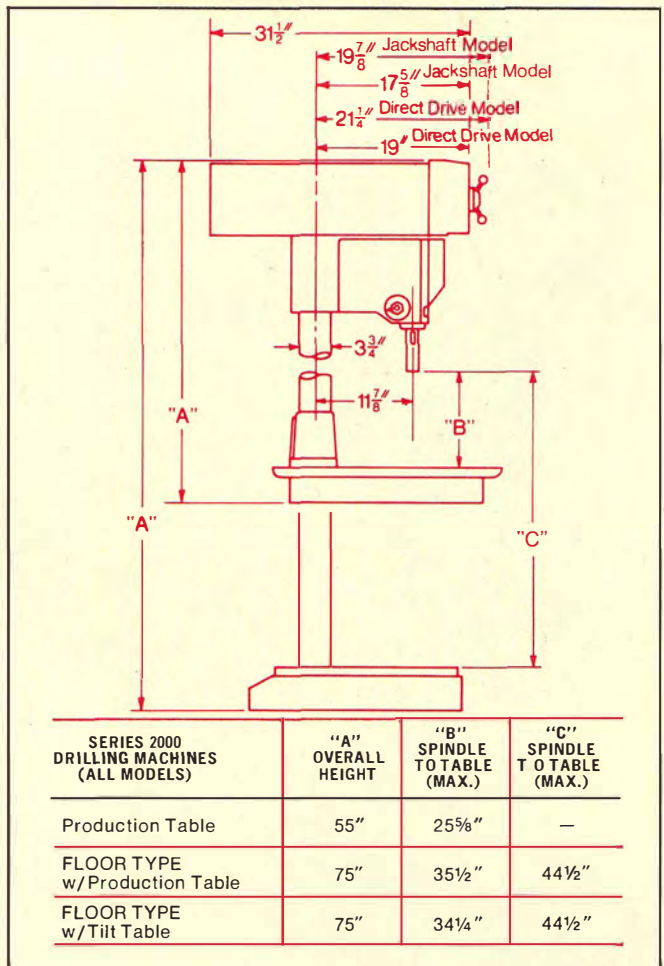
**MORE IN PRODUCTIVITY!**  
**MORE IN QUALITY PERFORMANCE!**  
**MORE IN PROFITS!**

### STANDARD EQUIPMENT

All Models (except heads only) include raising mechanism for head or table, self-locking depth stop, depth gage, belt guard, belt and motor pulley (specify bore). Variable Speed Models furnished only with electricals, factory mounted and wired, ready to run. Step Pulley Models will be furnished less electricals, if desired.



### DIMENSIONAL DATA



# Rockwell 17" Drill Presses

## QUALITY FEATURES THAT PROVE THE SUPERIORITY OF ROCKWELL 17" DRILL PRESSES

**A. Widest, Test-Proven Speed Range . . .**  
You can prove the tremendous 12-to-1 speed ratio of the Rockwell Delta 17" Variable Speed Drill Press by actual tachometer test.

**Benefits:** You get the exact speed you need for every kind of drillable material—350 to 4250 RPM with a 1725 RPM motor—230 to 2830 RPM with an 1140 RPM motor. Only Delta gives you a **BONUS** of extra speeds in both the high and low speed range.

**B. New, Improved Variable Speed Drive . . .**  
With less than one complete turn of the large speed control pilot wheel, you can select any speed *instantly* while the machine is running. A self-locking cam, plus a "snubber" feature, holds speed settings constant under all load conditions. Proper belt tension is *automatically* maintained for full power transmission.

**Benefits:** Industry's *widest* speed range permits drilling *all* materials at the correct speed. Speed changes are made while the machine is running to save the operator's time. Control of speed is *extra safe* because there is no need to manipulate the belt or pulleys by hand.

**C. Unique Double Spindle . . .** Only Rockwell Delta 17's offer a dual spindle design. Upper spindle (A) takes all belt pull and transmits torque through 16-splined free-floating drive sleeve (B) to rigid, short lower spindle (C). Four lubricated-for-life ball bearings (plus an extra bearing on variable speed models) are used—two on the upper spindle and two on the lower spindle.

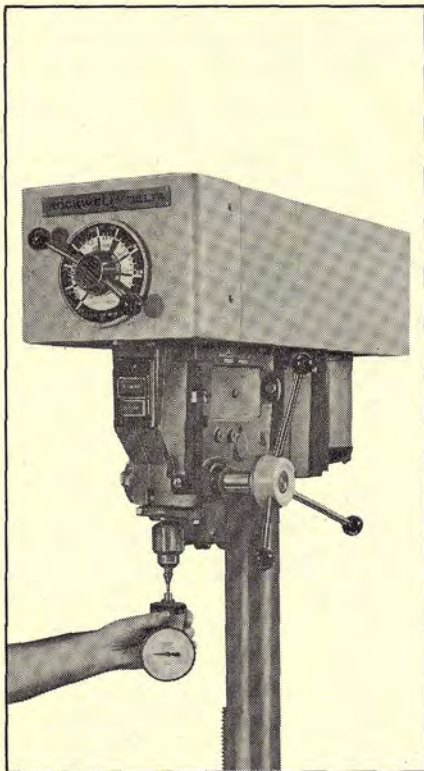
**Benefits:** Short lower spindle design eliminates whipping and insures accuracy. You get chatter-free performance, even on special operations like reaming or countersinking.

**D. Unmatched Versatility . . .** Six interchangeable spindle adapters make Rockwell Delta Key Chuck Models unsurpassed in their ability to do many different jobs.

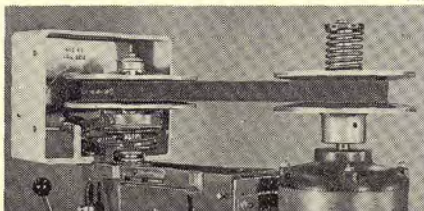
**Benefit:** These spindle adapters adapt the 17" Drill Press in seconds for operations varying from drilling to wood planing or routing, including counterboring, reaming, spot facing, sanding and mortising, as well as buffing and many other operations.

**E. "Self-Locking" Depth Stop . . .** Unlike competitive depth stops, Delta's self-locking design guarantees that it will never change its setting.

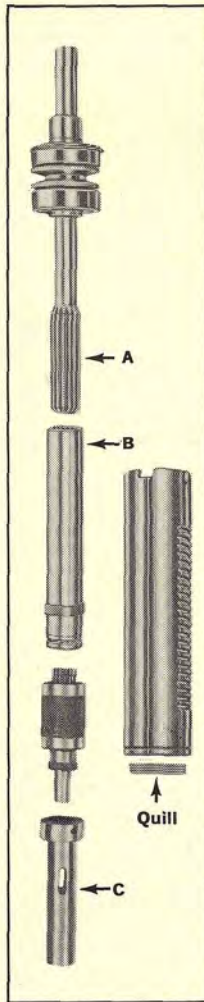
**Benefits:** Positive setting eliminates ruined work pieces . . . permits *fast* setups for absolute depth control. Sleeve is calibrated to show changes down to .002".



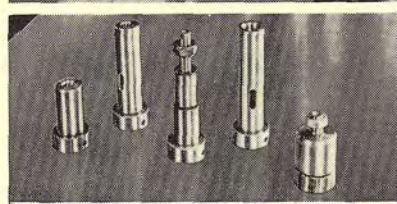
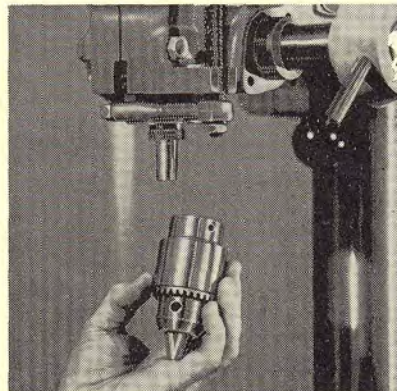
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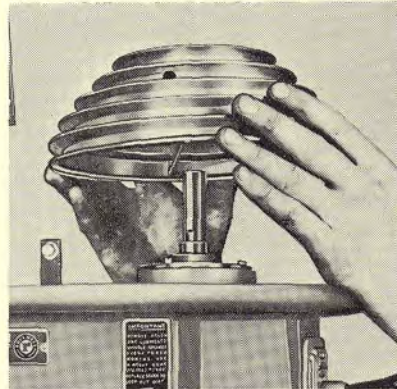
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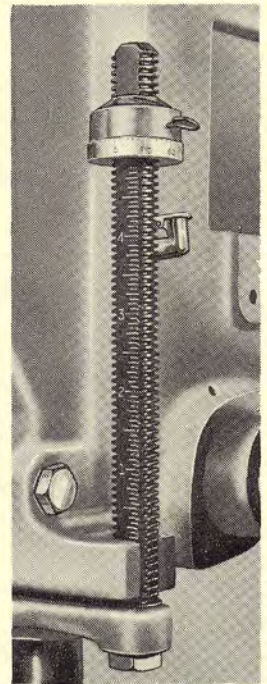
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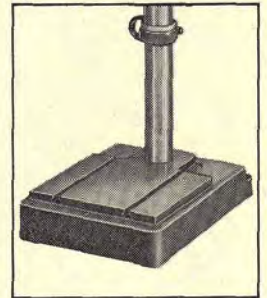
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**F. Quick Conversion Pulleys . . .** The dynamically balanced pulleys on Rockwell Delta 17" Step Pulley Drill Presses may be changed quickly by simply loosening one set screw.

**Benefit:** You convert quickly from high to slow speed model or vice versa to keep production moving.

**G. Heavy Duty Base . . .** Extra large 17 $\frac{3}{4}$  x 25 $\frac{1}{2}$ " floor base has spacious 13 $\frac{3}{4}$  x 16 $\frac{3}{16}$ " work surface. Two full length T-slots permit quick insertion of T-bolts from either front or rear.

**Benefits:** Massive, spacious base provides stability for machine, plus rigid mounting for column, guaranteeing greater accuracy at the spindle. Blind T-slots speed up clamping of jigs and fixtures.

**H. Interference-Free Guard . . .** All steel guard swings up high and back, while three specially designed supports and a stop, hold guard in desired "up position."

**Benefits:** With all interference practically eliminated, operator makes belt and speed changes quickly. Built-in clips automatically lock guard in place when closed.

**I. Perfected Motor Mount . . .** Specially designed, pivot type motor mount on Delta 17" Step Pulley Drill Presses assures longer belt life because belt tension is fully released before changing from one pulley speed to another.

**Benefit:** Proper running tension on belt is maintained at all times, preventing undue wear on bearings.

**J. Modern Table Design . . .** Slots and side ledges make clamping of work easy. Machined front apron has mounting holes. Ground index pin accurately locates table at the level position, and at 90° left tilt or 90° right tilt positions.

**Benefit:** Quick, accurate clamping of work speeds up production and eliminates work spoilage.

**K. Versatile Power Feed Drilling . . .** When you add the New Mechanical Power Feed to a Rockwell 17" Variable Speed Drill Press, you get this efficient, productive combination: **1** Variable Speed—230 to 2830 RPM with an 1140 RPM motor, or 350 to 4250 RPM with a 1725 RPM motor **2** Variable Feed—.003 to .018 ipr. **3** Automatic Quill Return. **Benefits:** You can select the exact drilling speed you need for every material, hard or soft. You can dial the exact feed required, while

the machine is running. You can do secondary operations once the power feed is engaged because the power feed automatically returns upon completion of the drilling cycle.

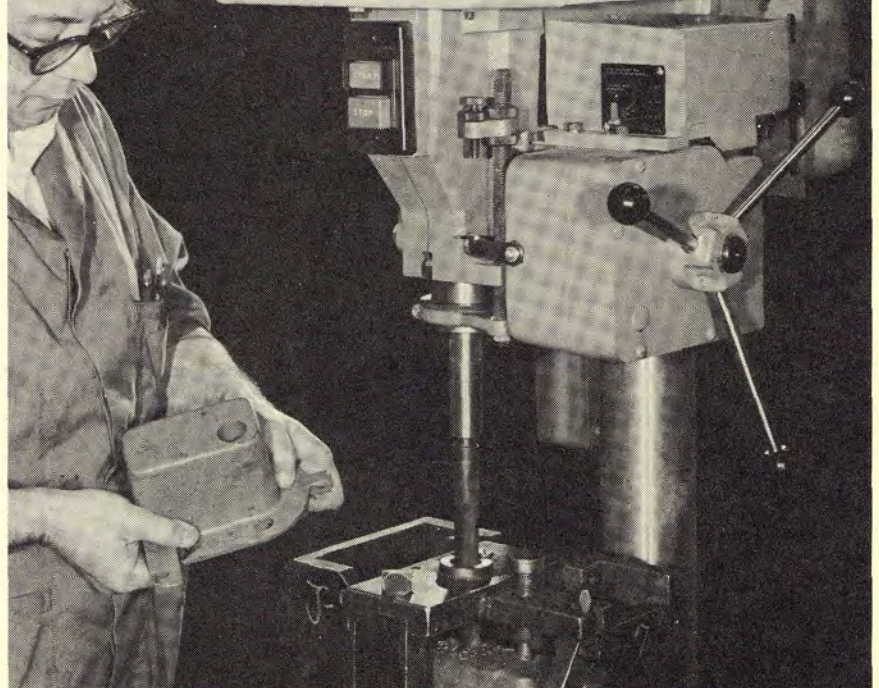
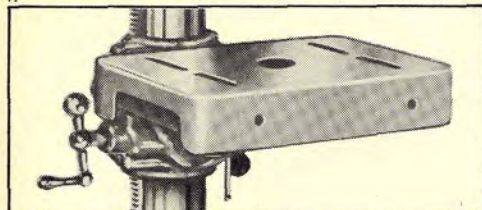
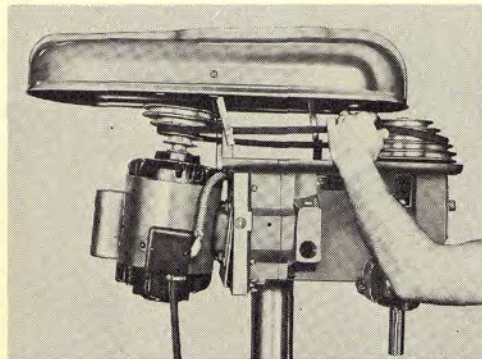
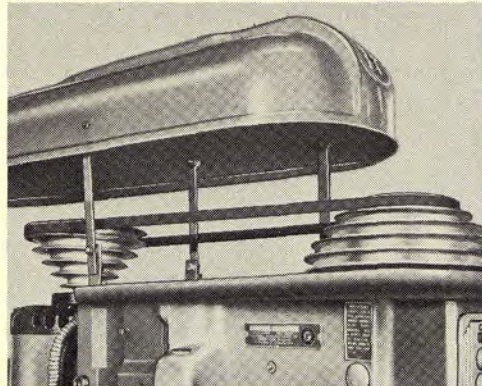
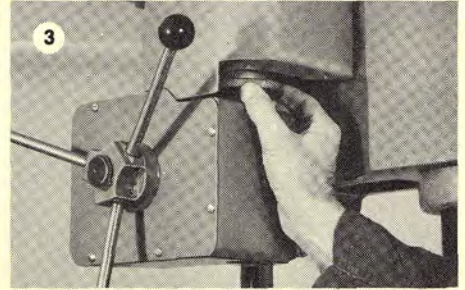
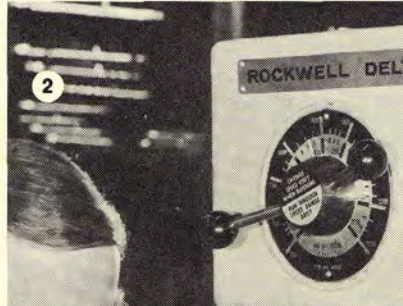
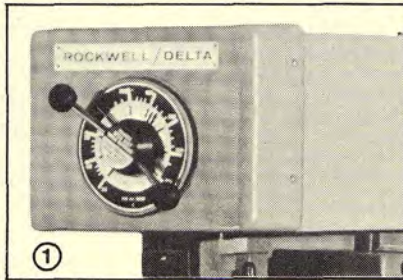
**ROCKWELL QUALITY EXTRAS**

**Quill is rigidly supported** by 3 precision-bored lands in the head, providing extra smooth travel.

**Rubber cushion ring absorbs shock** between head and quill collar, or mortising chisel holder, while garter spring holds these parts on quill with light clamping pressure. This avoids quill distortion and prolongs bearing life.

**Handy, self-closing oil cup** permits single-point lubrication of quill surface and pinion shaft.

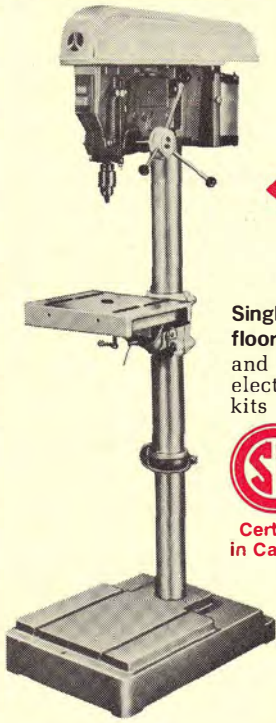
**All heads are machined,** ready for mounting Rack and Pinion Type Raising Mechanism.



J.

K.

# ROCKWELL 17" DRILL PRESSES

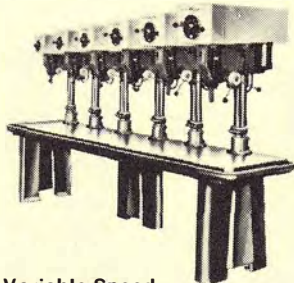


**5-Step Pulley Floor Model** with tilting table and key chuck spindle. Available with production table and No. 2 M.T. spindle.

**Single spindle floor models** and all electrical kits are



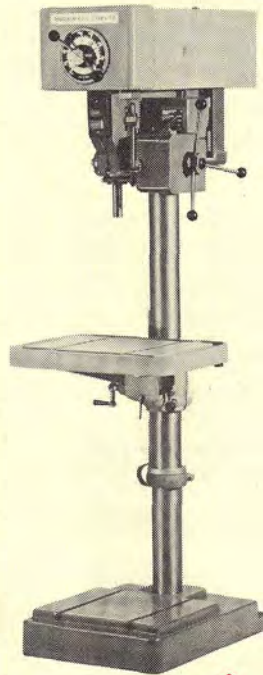
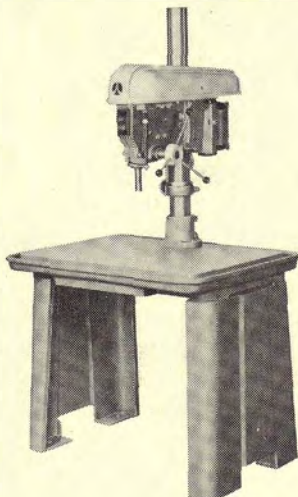
**Certified in Canada.**



**Variable Speed Multiple Spindle Model—**

Can be ordered custom assembled (either at the factory or in your shop) using any combination of Step Pulley or Variable Speed Heads with any number of spindles from one to a drill press a block long if desired. See Section A4, Pages 5 and 6 for ordering.

**Floor Model—**Hand feed with No. 2 M.T. spindle and extra large production table. Spacious 23 $\frac{3}{8}$ " x 36" table working surface makes machine especially suited for handling large dies, jigs, fixtures and patterns. Increases efficiency while stepping up production. An excellent unit for the tool and die shop, machine shop and pattern shop.



**Variable Speed Floor Model** with production table, No. 2 M.T. spindle and Vari-Rate Power Feed. Available with tilting table.

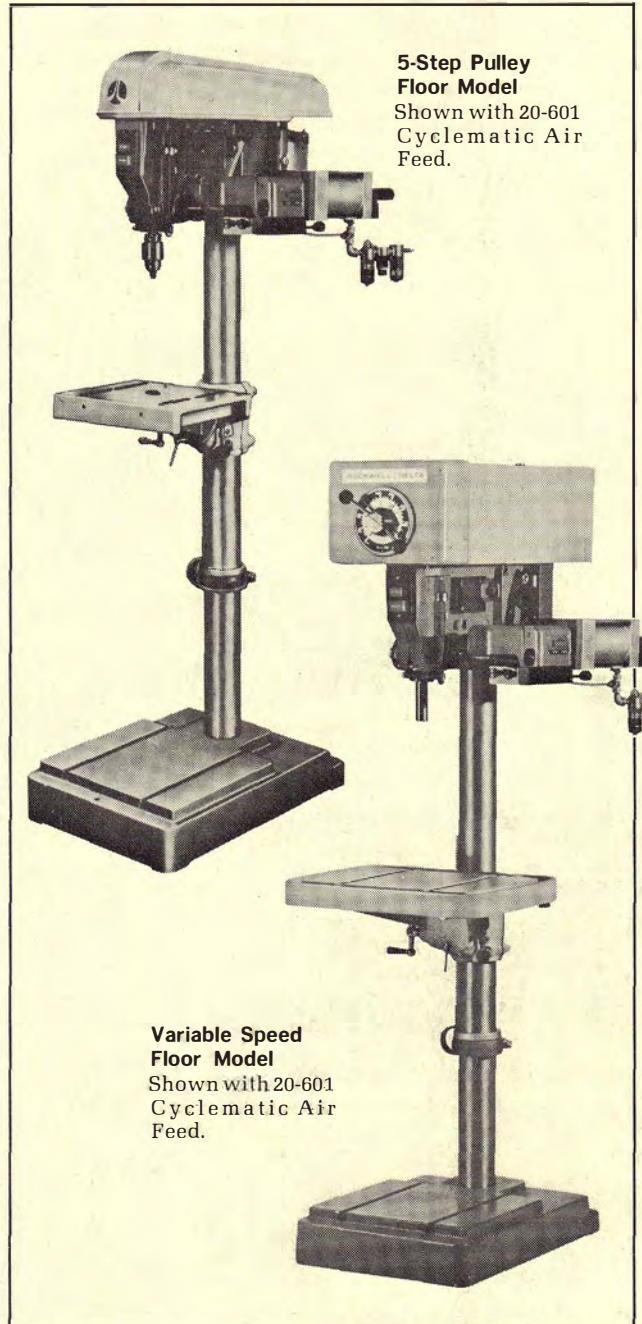
In the tool room, experimental department, machine or model shop, and in school or cabinet shops, Rockwell 17" Drill Presses will meet your most demanding requirements.

They are the finest machines ever offered in their class.

**Here's why:** Only the Rockwell Variable Speed 17 provides a 12-to-one speed ratio, enabling you to do superior work with almost any material. Only Rockwell 17's make available a Unique Double Spindle eliminating spindle whip and providing greater accuracy. Only Rockwell makes six interchangeable spindle adapters available to make 17's unsurpassed in their ability to do many different jobs. Only Rockwell offers a "Self-Locking" Depth Stop that never changes its setting.

## STANDARD EQUIPMENT

Table raising mechanism on single spindle floor models. Head raising mechanism on multiple spindle models. Self-locking depth stop. Depth gage. Belt guard. All models include belt and motor pulley,  $\frac{3}{4}$ " bore.



**5-Step Pulley Floor Model**  
Shown with 20-601  
Cyclematic Air Feed.

**Variable Speed Floor Model**  
Shown with 20-601  
Cyclematic Air Feed.

All models furnished with choice of three types of feed—Hand, Vari-Rate Mechanical Feed or Cyclematic Air Feed.

## CATALOG LISTING

### SINGLE SPINDLE MODELS (Less Motor and Control—See Below)

TYPE	NO. 2 MORSE TAPER SLO SPEED	NO. 2 MORSE TAPER HIGH SPEED	NO. 2 MORSE TAPER VARIABLE SPEED
Standard Tilting Table Floor Models	• 17-605 300 lbs.	• 17-606 300 lbs.	*• 17-227 330 lbs.
Production Table Floor Models	• 17-610 312 lbs.	• 17-611 312 lbs.	*• 17-229 348 lbs.
Heads Only	17-600 99 lbs.	17-601 99 lbs.	* 17-225 127 lbs.

†Includes Safety Collar for head. Table working surface—Standard 11 x 14", Production (floor model) 12½ x 17" with one ¾" pipe tap at rear. Std. table tilts 90° L and R. Production table for floor models tilts 17° L and R.

\*NOTE: Variable Speed Models furnished only with electricals, factory mounted and wired, ready to run.

**NOTE: For ordering multiple spindle set-ups, see Section A4, Pages 5 and 6.**

**MOTORS/CONTROLS (Factory Mounted-Wired)** (On multiple spindle units, designate head (1st, 2nd, etc.) on which each motor and control group is to be factory mounted.)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIP. WT., LBS.	CATALOG NUMBER	CAT. NO. 200V
Single Phase, 1 Horsepower	Push Button Switch Only	TEFC	60 - 1725	115/230	61	49-444	
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60 - 1725	115/230	67	49-728	
	Push Button Switch Only	TEFC	60 - 1140	115/230	77	49-729	
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60 - 1140	115/230	82	49-730	
Three Phase, 1 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60 - 1725	230/460	57	†49-739	49-998
	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60 - 1140	230/460	70	†49-743	52-002

NOTE: Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only. Motors and Motor Controls for Rockwell Delta 17" Drill Presses may

be ordered unmounted. For listing, see Sections P and Q. †No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to Three Phase Cat. No. 49-739 or 49-743, in order to obtain 17" Drill Press with "JIC" type electricals, factory mounted and wired.

## POWER FEED—FACTORY MOUNTED ONLY

Catalog Number	Type of Power Feed	Weight Lbs.
17-215	†Variable Rate Type (.003 to .018 ipr) For Rockwell 17" Drill Presses	45

†Above power feed supplied factory mounted only. Not supplied for field mounting. Minimum spacing of multiple spindle 17" heads is 20".

NOTE: For complete description of Power Feed, see Section A4, Page 9.

## MACHINE DATA

### Overall Dimensions:

#### Bench Type:

Height (Step Pulley)	49¾" (1254.1 mm)
(VS)	51½" (1298.6 mm)
Width (Step Pulley)	23½" (596.9 mm)
(VS)	23¾" (600.1 mm)
Front to Rear (Step Pulley)	35½" (900.9 mm)
(VS)	36¾" (923.9 mm)

#### Floor Type (with Production Table):

Height (Step Pulley)	70" (1778.0 mm)
(VS)	71¾" (1822.5 mm)
Width (Step Pulley)	18¾" (463.6 mm)
(VS)	20½" (520.7 mm)
Front to Rear (Step Pulley)	32½" (821.5 mm)
(VS)	32¾" (822.3 mm)

### Table Working Surface, Ground:

Standard	11 x 14" (279.4 x 355.6 mm)
Production:	
Overall	16 x 20½" (406.4 x 520.7 mm)
Inside of Coolant Trough	12½" x 17" (317.5 x 431.8 mm)
T-Slots (Two on 9" Centers)	⅞" (14.3 mm)

### Base Working Surface:

Bench	16 x 18" (406.4 x 457.2 mm)
Floor	13¾" x 16¾" (349.25 x 411.2 mm)

### Quill:

Stroke (Manual Feed)	.0 to 5" (0 to 127 mm)
(Power Feed)	½ to 5" (12.7 to 127 mm)
Diameter	2¼" (57.2 mm)

### Capacities:

Key Chuck	0 to ½" (0 to 12.7 mm)
Dia. Hole in Steel	1¼" (17.5 mm)
In Cast Iron	⅞" (22.2 mm)

### Spindle Speeds:

#### Step Pulley Models:

With 1725 RPM Motor:

High Speed Model .700, 1150, 1750, 2750, and 4250 RPM  
Slo Speed Model . . . . .385, 600, 935, 1450 and 2240 RPM

With 1140 RPM Motor:

High Speed Model . .460, 760, 1140, 1815, and 2800 RPM  
Slo Speed Model . . . . .255, 400, 615, 960 and 1475 RPM

#### Variable Speed Models:

With 1725 RPM Motor . . . . .350 to 4250 RPM  
With 1140 RPM Motor . . . . .230 to 2830 RPM

### Power Feed Models:

#### Feeds:

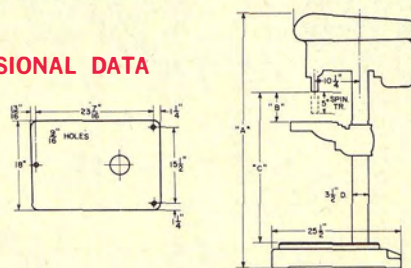
Variable Rate Mechanical Type . . . . .from .003 to .018 ipr  
(.075 to .45 mmpr)

Column: Diameter . . . . .3½" (88.9 mm)

Wall Thickness . . . . .1¼" (4.37 mm)

Motor Plate: Accommodates NEMA 143T, 145T and 182 Frame Motors.

## DIMENSIONAL DATA



17" STEP PULLEY AND VARIABLE SPEED DRILL PRESSES	Model (Step Pulley or Var. Speed)	No. 2 M.T. Models		
		"A" Overall Height	"B" Spindle To Table (Max.)	"C" Spindle To Base (Max.)
Production Table	SP	49¾"	25¾"	—
	VS	51½"	25¾"	—
Floor Type w/ Tilting Table	SP	70"	34¾"	45¾"
	VS	71¾"	34¾"	45¾"
Floor Type w/ Production Table	SP	70"	33"	45¾"
	VS	71¾"	33"	45¾"

# Rockwell "Mix or Match" Multiple Spindle Set-Ups

## Custom Design The Multiple Spindle Drilling Machine That Best Suits Your Needs!

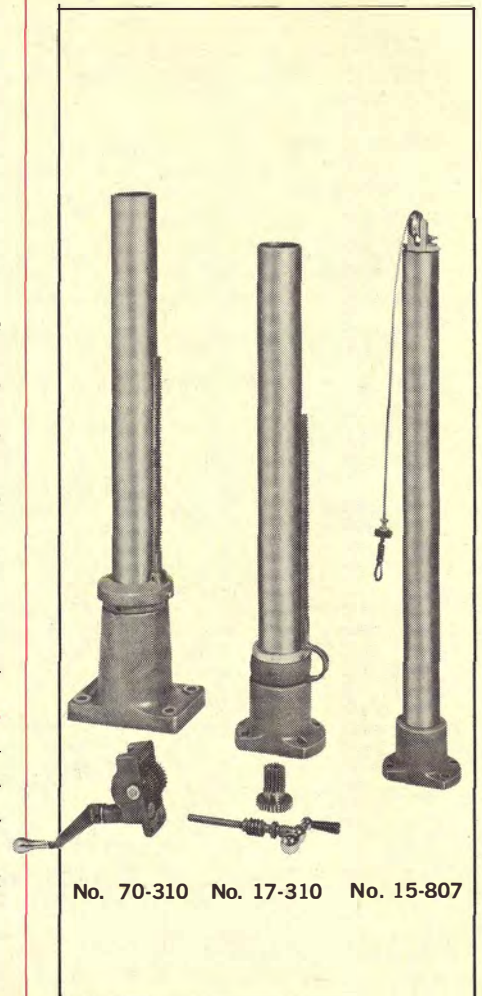
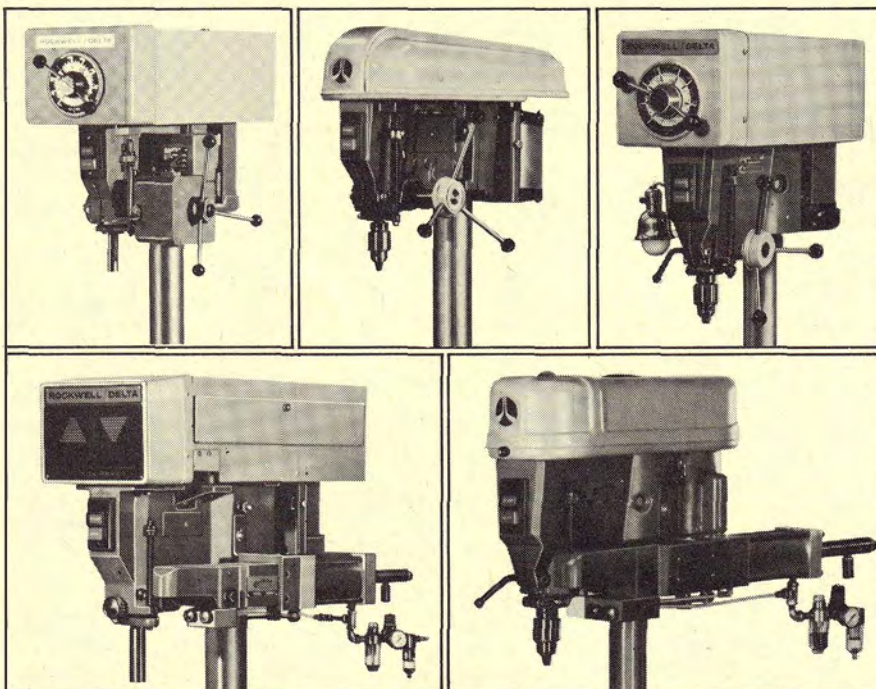
It's easy to design your own multiple spindle drilling machine. Just follow these simple steps:

1. Pick the head(s) you desire (14", 15", 17", 20") in Step Pulley or Variable Speed. See appropriate product page for listings. For Mechanical Power Feed(s), add a 17-215 or 20-629 for each head desired. For Air Feed(s), add a 15-101 or 20-601 for each head desired. You may mix heads in any way you please.
2. Pick the electricals you desire (order one electrical kit for each head.) See appropriate product page for listings.
3. Pick a Column/Flange and Counter-Balance or Raising Mechanism Assembly for each head.
4. Determine the spacing desired between each head (see chart below).

### Minimum Spacing Between Heads Using LVC 24-Volt Control

Type of Head	Hand Feed	Air Feed	Mechanical Power Feed
20"	17"	21½"	21½"
17"	15"	20"	20"
15"	13½"	16½"	N.A.
14" Super-Hi	9"	N.A.	N.A.

5. Total the distance between heads and add at least 15" more to determine minimum table length.
6. Pick the table(s) required to build the needed table length (see chart of tables for reference).
7. Pick the legs. Order a 50-399 Pair of Legs for 1, 2, 3 and 4-spindle set-ups. Add one more 50-506 Leg for each additional table section.
8. To determine the price of your multiple spindle drill press, simply add up all of the individual components. Assembly costs are included in the column, flange and raising assembly prices.
9. Your multiple spindle drill press unit will be assembled at the factory.



### COLUMN, FLANGE AND COUNTER-BALANCE ASSEMBLIES FOR 15" DRILL PRESSES

**No. 15-807** Includes 15-805 2¾" x 38¾" (Short) Column, 15-019 Flange with screws, and 15-030 Counterbalance Assembly complete. 34 lbs.

**No. 15-808** Includes 15-806 2¾" x 65¼" (Long) Column, 15-019 Flange with screws, and 15-030 Counterbalance Assembly complete. 43 lbs.

### COLUMN, FLANGE AND RAISING MECHANISM ASSEMBLIES FOR 17" DRILL PRESSES

**No. 17-310** Includes 17-764 3½" x 38½" (Short) Column, 17-366 Flange with screws, and 17-801 Raising Mechanism Assembly complete. 40 lbs.

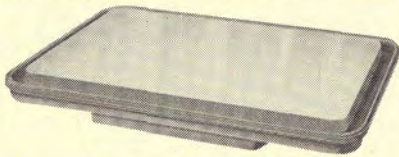
**No. 17-311** Includes 17-763 3½" x 62" (Long) Column, 17-366 Flange with screws, and 17-801 Raising Mechanism Assembly complete. 52 lbs.

### COLUMN, FLANGE AND RAISING MECHANISM ASSEMBLIES FOR SERIES 2000 DRILL PRESSES

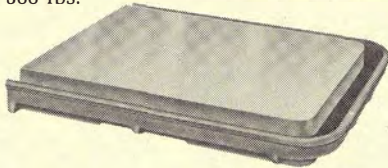
**No. 70-310** Includes 20-626 3¾" x 42" (Short) Column, 20-624 Flange with screws, and 20-761 Head Raising Mechanism Assembly complete. 125 lbs.

**No. 70-311** Includes 20-627 3¾" x 66" (Long) Column, 20-624 Flange with screws, and 20-761 Head Raising Mechanism Assembly complete. 160 lbs.

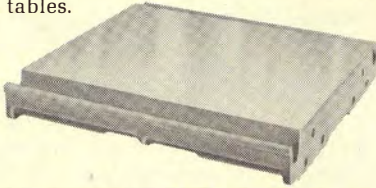
## TABLES AND LEGS



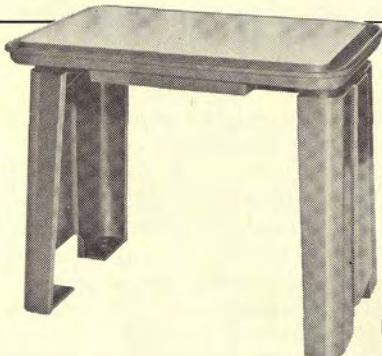
**No. 15-153 Production Table**, one piece for 1- and 2-spindle set-up. Ground work surface of 23 $\frac{3}{8}$ " x 36". Fits 50-399 Legs. 366 lbs.



**No. 15-751 Production Table**, end section, 23 $\frac{3}{8}$ " front to rear x 32 $\frac{1}{2}$ " left to right ground work surface with 1 $\frac{1}{2}$ " coolant trough and  $\frac{3}{4}$ " pipe top at end. Use two 15-751 End Sections for 3- and 4-spindle tables.



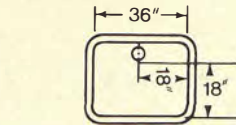
**No. 15-155 Production Table**, center section, 23 $\frac{3}{8}$ " front to rear x 30" left to right ground work surface with 1 $\frac{1}{2}$ " coolant trough. Use one, two or more Center Sections for 5- and 6-spindle or larger size tables.



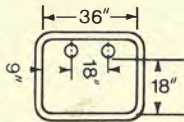
**No. 50-399 Legs with No. 15-153 Production Table**

**No. 50-399 Legs**, steel, one pair, 27 $\frac{1}{2}$ " high for mounting Table 15-153 and Table Sections 15-155 and 15-751. 100 lbs.

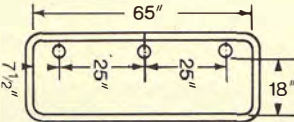
**No. 50-506 Leg**, steel, 27 $\frac{1}{2}$ " high for mounting production tables and sections as above. 50 lbs.



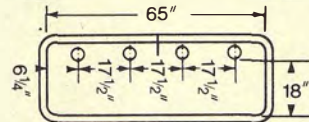
1 Spindle —  $\frac{1}{4}$ " Pipe Tap at Rear



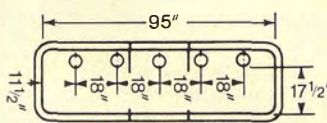
2 Spindle —  $\frac{1}{4}$ " Pipe Tap at Rear



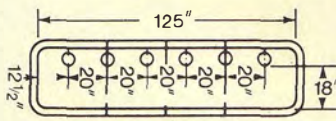
3 Spindle —  $\frac{1}{4}$ " Pipe Tap at Each End



4 Spindle —  $\frac{1}{4}$ " Pipe Tap at Each End



5 Spindle —  $\frac{1}{4}$ " Pipe Tap at Each End



6 Spindle —  $\frac{1}{4}$ " Pipe Tap at Each End

## ADDITIONAL COMPONENTS FOR BUILDING 20", 17" AND 15" DRILL PRESS SPECIAL SET-UPS

### FOR 20" DRILL PRESSES

**No. 20-625 Column**, steel, 3 $\frac{3}{4}$ " x 33", with  $\frac{1}{2}$ " wall. 47 lbs.

**No. 20-626 Column**, steel, 3 $\frac{3}{4}$ " x 42", with  $\frac{1}{2}$ " wall. 62 lbs.

**No. 20-627 Column**, steel, 3 $\frac{3}{4}$ " x 66", with  $\frac{1}{2}$ " wall. 97 lbs.

**No. 20-628 Column**, steel, 3 $\frac{3}{4}$ " x 78", with  $\frac{1}{2}$ " wall. 114 lbs.

**No. 70-430 Safety Collar** for supporting head or column of single spindle drill presses. 3 $\frac{1}{2}$  lbs.

**No. 20-624 Flange**, with screws, for mounting column on table (not for single spindle floor models). 44 lbs.

**No. 20-623 Ball Bearing Carriage** with 33" column for Overhead Drill Press. 126 lbs.

**No. 20-661 Table Raising Mechanism**. Includes ball bearing thrust collar, rack, gear assembly and crank. 19 lbs.

**No. 20-761 Head Raising Mechanism**. Includes ball bearing thrust collar, rack, gear assembly and crank. 19 lbs.

### FOR 17" DRILL PRESSES

**No. 17-366 Flange**, for mounting column on table, with screws (not for floor type). 10 lbs.

**No. 17-764 Column**, 3 $\frac{1}{2}$ " dia. by 38 $\frac{1}{2}$ " long. 20 lbs.

**No. 17-763 Column**, 3 $\frac{1}{2}$ " dia. by 62" long. 32 lbs.

**No. 17-818 Column**, 3 $\frac{1}{2}$ " dia. by 84" long. 46 lbs.

**No. 17-635 Safety Collar** for supporting head on column. 3 lbs.

**No. 17-801 Raising Mechanism** for head or table. Includes worm shaft, compound worm gear and pinion, crank handle, rack, thrust ball bearing and column collar. 10 lbs.

### FOR 15" DRILL PRESSES

**No. 15-804 Column**, 2 $\frac{3}{4}$ " x 33 $\frac{3}{4}$ ", with  $\frac{5}{32}$ " wall thickness. 13 lbs.

**No. 15-805 Column**, 2 $\frac{3}{4}$ " x 38 $\frac{3}{4}$ ", with  $\frac{5}{32}$ " wall thickness. 15 lbs.

**No. 15-806 Column**, 2 $\frac{3}{4}$ " x 65 $\frac{1}{4}$ ", with  $\frac{5}{32}$ " wall thickness. 24 lbs.

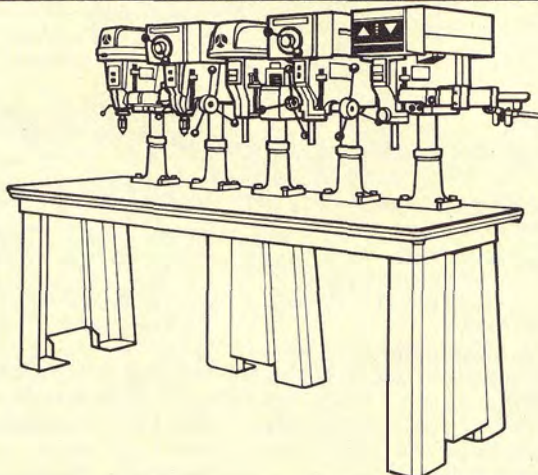
**No. 15-810 Column**, 2 $\frac{3}{4}$ " x 78", with  $\frac{5}{32}$ " wall thickness. 30 lbs.

**No. 15-010 Collar**, head or table support, for column. 2 lbs.

**No. 15-019 Flange**, for mounting column on table, with screws. 10 lbs.

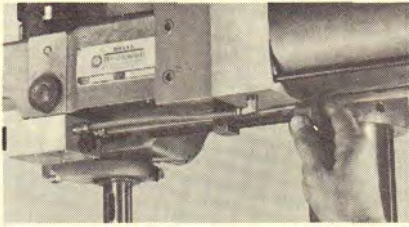
**No. 15-030 Counterbalance**, complete assembly includes spring, chain, column top casting, ball bearing roller and screws. Cannot be used with columns shorter than 38 $\frac{3}{4}$ ". 9 lbs.

## Typical Multiple Spindle Set-Up

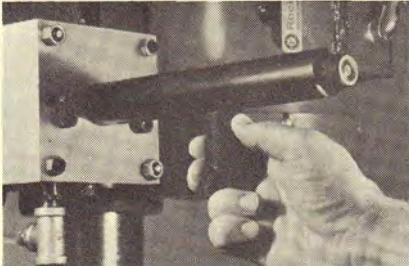


# NEW ROCKWELL CYCLEMATIC AIR FEED SYSTEM

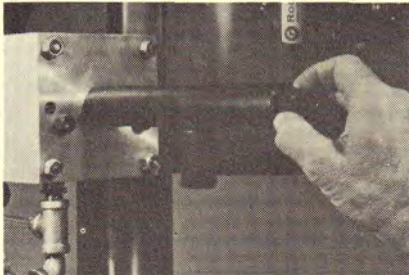
## Here Is Why Cyclematic Is A Better Air Feed



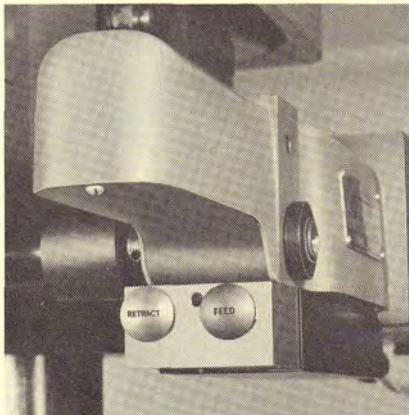
**Full Quill Travel.** With this simple adjustment, the entire 0 to 6" quill travel is adjustable for the exact drilling depth desired.



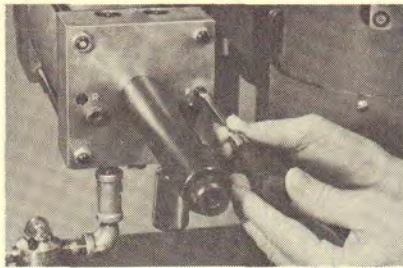
**Rapid Travel Depth Control.** Brings the drill bit rapidly into position with the workpiece and eliminates drilling air. Fast adjusting, rapid advance control can be set in only seconds for the desired depth of rapid travel. No tools are required.



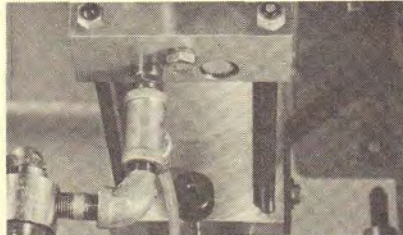
**Quick-Adjusting Hydraulic Feed Rate.** Simply turn control clockwise to slow feed rate and counter-clockwise to increase feed rate. No tools are required to make adjustments.



**Start and Emergency Retract; Dwell Control.** Feed and retract buttons are conveniently located—up front—for safe and easy operation. Retract button provides an emergency stop anywhere in the cycle. Dwell time can be increased by turning screw clockwise and decreased by turning it counter-clockwise.



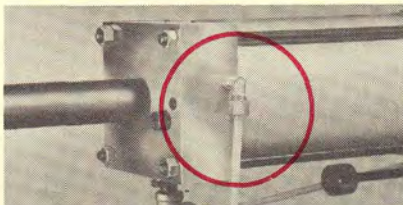
**Rapid Approach and Retract.** Rapid approach and retract speeds of quill can be easily adjusted to rate desired. For example, retract speed can be reduced to a very slow rate for such operations as reaming.



**Low Noise Level.** Two mufflers, one on each side of the piston, control the exhaust from both ends of the cylinder. Mufflers reduce noise level of "Cyclematic" Air Feed to meet OSHA standards.



**Fast Set-ups.** Feed can be advanced manually by means of a  $\frac{3}{8}$ " square drive on outboard end of hub.



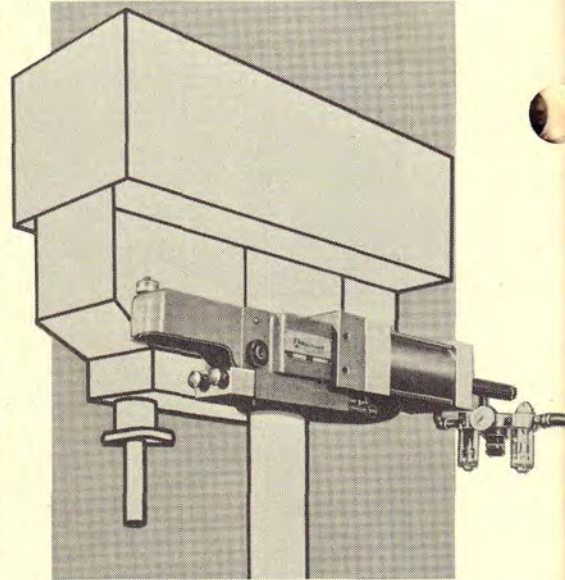
**Cycle Completion Signal.** Air outlet delivers positive pneumatic signal on cycle completion . . . allows integration of auxiliary equipment such as indexing tables.

## ADDITIONAL CYCLEMATIC FEATURES

**Easy Mounting.** Only one mounting bracket required.

**A Complete Air Logic System.** Only a 90-100 PSI air power source is required for operation of the Rockwell Cyclematic Air Feed. You simply connect to your shop air supply and the air feed unit is ready to run.

**Standard Equipment Controls.** Filter, regulator and lubricator are furnished as Standard Equipment on the Rockwell Cyclematic Air Feed. This makes it a complete, self-contained unit, ready for immediate operation.



## Cyclematic mounts on any drill press with a 1 1/4" pinion shaft

If drill press output is bottlenecking your schedules, then consider Rockwell's Cyclematic Air Feed System . . . the new, low cost, fast and simple way to automate.

This entirely self-contained air logic system mounts with a single bracket on any 1 1/4" pinion shaft drill press. Only one 90-100 psi air supply source is needed.

Cyclematic is a compact power/control unit built to add speed, power and positive control to the operation automatically. It permits you to free operators and machines for other work. It reduces operator fatigue, increases work quality, and cuts feed-rate error rejects. And Cyclematic's positive control extends tool life, too.

### Speed, power, control in one package.

At 100 psi, this air feed system delivers rapid approach and retract speeds of up to 700" per minute. Feed rates can be varied from 1" to 250" per minute. And you get more power for nesting additional drill spindles to drill heads. Two Cyclematic models deliver maximum thrusts of 675 lbs. and 1200 lbs. at 100 psi.

Everything is self-contained—rapid approach and retract system, one-to-four-second dwell control, quick adjustable feed-rate control, depth (quill stroke) control, and internal valving.

**Signals other equipment.** If you want to automate further, Cyclematic can handle that, too. A secondary signaling circuit allows integration of any of a wide range of auxiliary equipment such as air chucks, air vises, air collets, clamping fixtures, or indexing tables to cycle with the air feed.

**Bolt on a Cyclematic now.** Automate with Cyclematic and get full production from your present drilling machines.

# NEW ROCKWELL CYCLEMATIC AIR FEED SYSTEM

## STANDARD EQUIPMENT

"Cyclematic" Air Feed complete with filter, regulator and lubricator, ready to run. Unit fits Rockwell 20", 17" and 15" Drill Presses. Can be field mounted on any other drill press with a 1 1/4" pinion shaft. Mounting instructions for machines with other than 1 1/4" pinion shafts, such as Rockwell Geared Head Drilling Machines, are included in the Operating Manual.

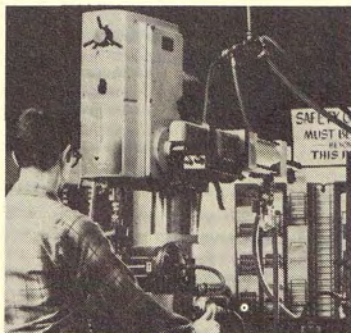
## MACHINE DATA

Maximum Stroke .....	6"
Pinion Rotation .....	640°
Maximum Thrust*	
Cat. No. 20-601 .....	1200 Lbs.
Cat. No. 15-101 .....	675 Lbs.

## New Cyclematic... the Easiest Way to Automate Drilling!

Your tooling ingenuity plus the low-cost Rockwell Cyclematic Air Feed System can add up to lower costs, less scrap, stepped up production, increased operator efficiency and substantial savings on your toughest production jobs. Here is how others are doing it:

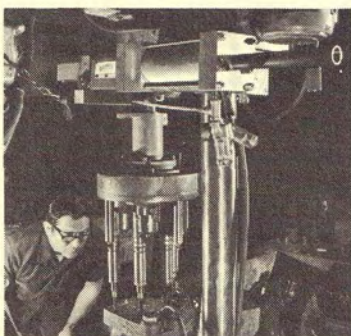
*"Rockwell Air Feed Got Our Production Up—Rejects Down."*



**Mr. Bud Denig, Supervisor**  
RYERSON & HAYNES, INC.  
2500 Enterprise Road  
Jackson, Michigan 49201

A manufacturer of emergency brakes and bumper jacks, Ryerson & Haynes, Inc. cold forms vacuum motor stem assemblies for automatic emergency brake releases. Thrust required for the hand feed operation caused breakdowns and production loss. Rejects ran high because of operator variations. A Cyclematic 20-601 on a Rockwell geared head drilling machine now automatically feeds quill to desired depth, controls dwell time and the retract speed. Reject rate has been cut drastically; production is up 12 1/2%.

*"Simplified Air Feed System Gives a Longer Bore Stroke and Faster Feed Rate Control."*



**Mr. Joseph J. Allomong, Plant Supervisor**  
EDON MACHINE COMPANY  
Gayer Road  
Edon, Ohio 43518

Edon Machine is an automatic engine and body part manufacturer. They use a Cyclematic for drilling close tolerance, multiple in-line holes in truck cab-over hinge brackets, compressor/alternator and power-steering support brackets as well as drilling fan hubs. Cyclematic gives them the needed longer strokes, 5" and 5 1/2", on two of the operations that could previously be accomplished only with manual feed setups. They are now getting faster cycling and better feed control using either single or multiple heads.

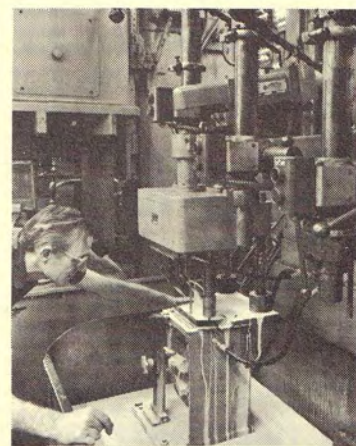
Feed, Infinitely Variable* .....	1 to 250" Per Min.
Maximum Rapid Approach* .....	700" Per Min.
Depth Accuracy .....	.002"
Required Air Pressure .....	90-100 PSI
Air Inlet Size .....	1/4"-18 NPT
Recommended Hose Size .....	5/16" I.D.

\* At 100 PSI Air Line Pressure.

## CATALOG LISTING

CATALOG NUMBER	MAXIMUM THRUST	RECOMMENDED DRILLING CAPACITY (Mild Steel)
20-601	1200 Lbs.	1"
15-101	675 Lbs.	1/2"
15-105	Foot Valve for remote control of air feeds.	

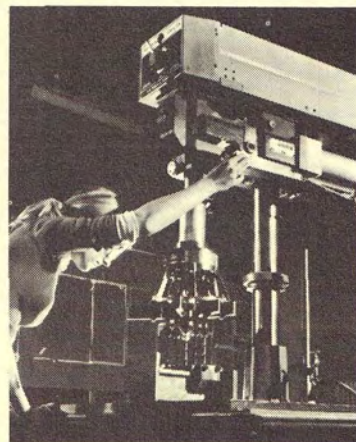
*"The Automated Air Feed Provides Greater Power for Additional Spindles."*



**Mr. Carl E. Johnson, Mechanical Equipment Engineer**  
JOHNSON OUTBOARDS  
A Division of Outboard Marine Corporation  
100 Sea Horse Drive  
Waukegan, Illinois 60085

Johnson Outboards is a manufacturer of marine and recreational vehicles. A Cyclematic 20-601 is being used with an Avey No. 3, six-spindle drill press for locator holes in Wankel engine housings and bearing retainer swivel brackets for the stern drive units of inboard/outboard motors. Johnson required greater power for adding drill spindles in heads for greater production. The new setup powers drill heads as heavy as 100 lbs. with up to 40 spindles. Full cycle of the drilling function—advance, drill and retract—is smooth and automatic.

*"One Drill Press Equipped With Cyclematic Air Feed Does the Work of Three."*



**Mr. Ted Banach, Foreman**  
QUALITY TOOL & ENGINEERING, INC.  
6372 Miller Avenue  
Detroit, Michigan 48211

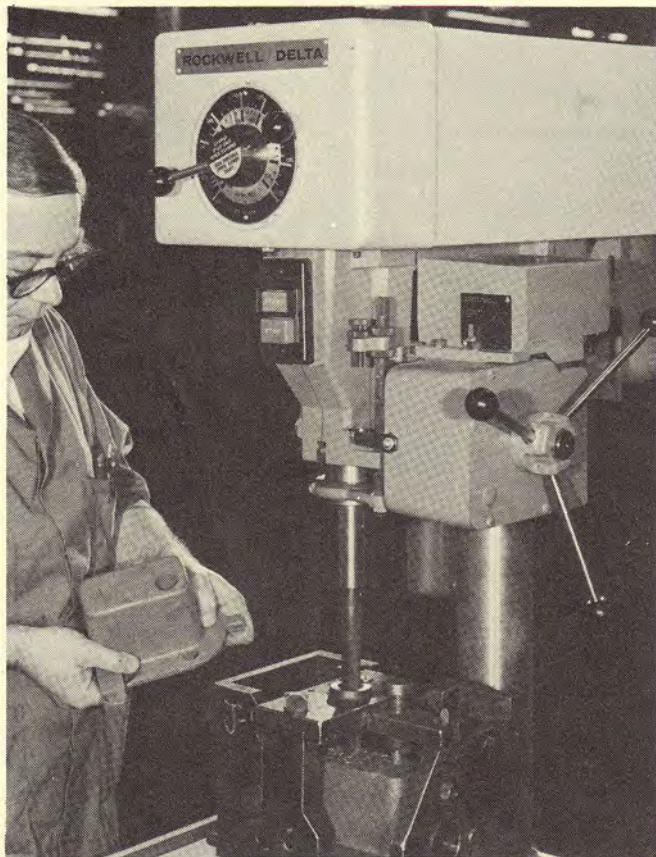
Quality Tool & Engineering is a Detroit automotive and aircraft machine designer and manufacturer. Previously, they used three drill presses with hand feeds to drill six holes, of varying sizes, one at a time, in the production of body framing units—positioners for body panels in assembly line welding. Drilling time was one minute per hole. Using Cyclematic on a single Rockwell 20" drill press with a six-spindle head, the six holes are now drilled in 40 seconds by one inexperienced operator. Two operators and two machines are free for other work.

## NEW ROCKWELL MECHANICAL POWER FEED FOR SERIES 2000 AND 17" DRILL PRESSES

**Increases Production**—The New Rockwell Mechanical Power Feed is not subject to slow-downs due to operator fatigue. Because of the wide range of feeds available, Rockwell Drilling Machines, when equipped with this efficient power feed, are well suited for both small and large hole drilling.

**Saves on Labor Costs**—Easy to operate, the Rockwell Mechanical Power Feed is designed to free the operator for secondary operations.

**Improves Quality**—Engineered feeds and speeds are maintained to produce holes that are round, true to size and depth, with a high quality finish.



### CHECK THESE MECHANICAL POWER FEED USER BENEFITS:

- Frees operator for secondary operations.
- Lets operator run several machines at one time.
- Reduces operator fatigue, increasing safety.
- Keeps quality work up . . . rejects down.
- Increases tool life.
- Reduces drill breakage.
- Can be operated by less experienced operators.

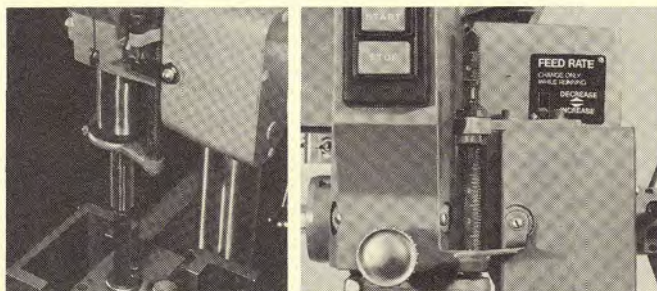
### CATALOG LISTING

(Power Feeds Are Supplied Factory Mounted Only)

Catalog Number	Type of Power Feed	Weight Lbs.
17-215	†Variable Rate Type (.003 to .018 ipr) For Rockwell 17" Drill Presses	45
20-629	†Variable Rate Type (.003 to .018 ipr) For Rockwell 20" Drill Presses	45

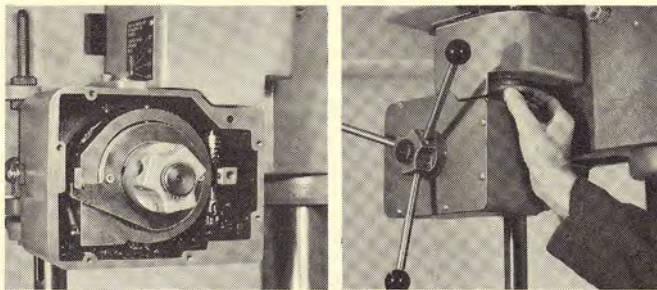
†Minimum spacing of multiple spindle 20" power feed heads is 21½"; 17" power feed heads is 20".

### NEW ROCKWELL POWER FEED COMBINES MECHANICAL SIMPLICITY WITH ADVANCED FEATURES FOR LONG LIFE AND OPERATIONAL EASE WITH SAFETY!



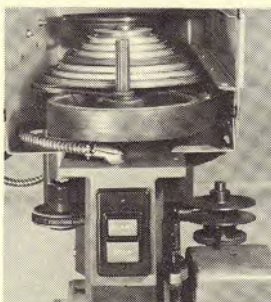
**(Left) Automatic Quill Return**—With the Rockwell Mechanical Power Feed, the drill stops momentarily at the desired depth, cleans the hole, and automatically returns. You pay nothing extra for this built-in feature.

**(Right) Wide Feed Range**—Variable rate power feed provides a feed range of 6 to 1 (.003 to .018 ipr). Within the range, any feed may be selected versus a choice of only 3 to 5 selections on step pulley type feeds. Quill stroke is 6" on 20" models; 5" on 17" models.



**(Left) Simple, Rugged Construction**—Assures long, trouble-free performance. Side-mounted 3-spoke hand wheel permits fast feeding to work piece, power feeding through cycle, automatic disengagement of power feed and retraction of quill to start position.

**(Right) Quick Feed Rate Selection**—You can quickly select any feed rate between .003 and .018 ipr . . . dial the exact feed required while the machine is running.



**Perfect Drive System**—Special 5M belt transmits motor power from spindle pulley to jackshaft, then to adjustable, variable speed pulley on power feed. Maximum power is transmitted by the power feed worm gear drive. Both worm and worm gear are oil-bath lubricated for long life.

# Rockwell 6" Stroke 15" Drill Presses

## FEATURES THAT GUARANTEE BIG PERFORMANCE ON EVERY JOB!

**A. Six Speeds—An Industry First . . .** Only Delta's "6 PLUS 6" offers this unbelievably wide range of speeds with a low-cost 1725 RPM motor—425, 600, 1100, 2050, 3900 and 5500 RPM—11.8 to 1 speed ratio.

**Benefits:** You can choose an extra slow speed for drilling very hard materials . . . an extra fast speed for working soft materials . . . or an optimum speed for any size bit and material. This one machine does the work of two former machines (low and high speed).

**B. Widest, Test-Proven Speed Range . . .** The Delta is the only 15" Variable Speed Drill Press which gives you a true 10-to-1 speed ratio, proven by actual test.

**Benefits:** You get the exact speed you need for every drilling job on any material—450 to 4700 RPM with a 1725 RPM motor—300 to 3100 with an 1140 RPM motor. Only Delta gives you a BONUS of extra speeds in both the high and low speed range.

**C. New, Improved Variable Speed Drive . . .** Less than one complete turn of the large speed control pilot wheel lets you select any spindle speed instantly while machine is running. A self-locking cam, plus a "snubber" feature, holds speed settings constant under all load conditions. Proper belt tension is automatically maintained for full power transmission.

**Benefits:** Industry's widest speed range permits drilling *all* materials at the correct speed. Speed changes are made while the machine is running to save operator's time. Control of speed is extra safe because there is no need to manipulate the belt or pulleys by hand.

**D. Extra Long Quill Travel . . .** The "6 + 6" and "VS6" provide a full "6" stroke.

**Benefits:** You can drill 35% deeper than with standard 15" machines. You get the extra depth you need for deep hole jobs like skip and gang drilling . . . PLUS, the extra stroke required for clearing jigs and fixtures.

**E. "Self-Locking" Depth Stop . . .** Unlike competitive depth stops, Delta's self-locking design guarantees that it will never change its setting.

**Benefits:** Positive setting eliminates ruined work pieces . . . permits fast setups for absolute depth control. Stop is calibrated to show changes to .002".

**F. Large 11 x 14" Tilting Table . . .** Slots and side ledges make clamping of work easy. Tilt scale gives accurate readings to 90° right and left, and tapered, expanding bushing provides maximum gripping power for rigid positioning of table at any angle.

**Benefit:** Quick, accurate clamping of work speeds up production. Tilting feature facilitates drilling at any angle.

**G. Extra Large Spindle Bearings . . .** "6 PLUS 6" and "VS6" spindle and spindle pulley are supported by four over-sized, preloaded, lubricated-for-life ball bearings. Pulley bearings are extra heavy

duty and more than 2" in diameter. Massive quill is a full 2" in diameter. "VS6" has the same excellent construction, PLUS an extra bearing below the spindle pulley.

**Benefits:** This fine combination of features assures freedom from chatter; long, maintenance-free life and maximum pressure at the drill point.

**H. Safe Push Button Switch . . .** Mounts in front of head, conveniently accessible to right or left hand of operator.

**Benefit:** Has a shrouded start button to prevent accidental starts and a protruding stop button for emergency stops.

**I. Quick-Release, Adjustable Motor Mount . . .** Belt tension release is provided by the pivoting motor mounting plate which has a reverse, self-locking taper on the spring-loaded, rubber-tipped plunger that quickly restores correct belt tension.

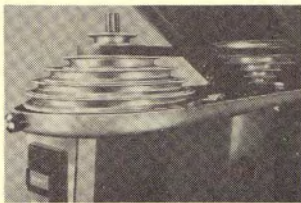
**Benefit:** Permits changing of belt position in seconds to save valuable production time—no tools are required. Convenient speed chart aids machine operator in selecting correct speed for working all types of materials.

## ROCKWELL QUALITY EXTRAS

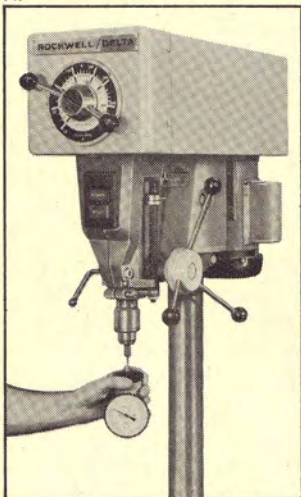
**Multiple-spline drive** that provides positive torque transmission and exact spindle alignment, assuring less vibration, smooth operation and more power at the spindle.

**Precision ground spindle** and dynamically balanced motor and spindle pulleys.

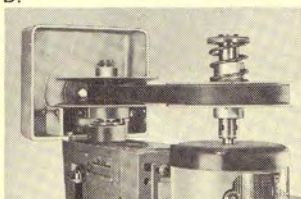
**Worm screw adjustment feature** that makes it easy to set the correct tension on the spindle return spring.



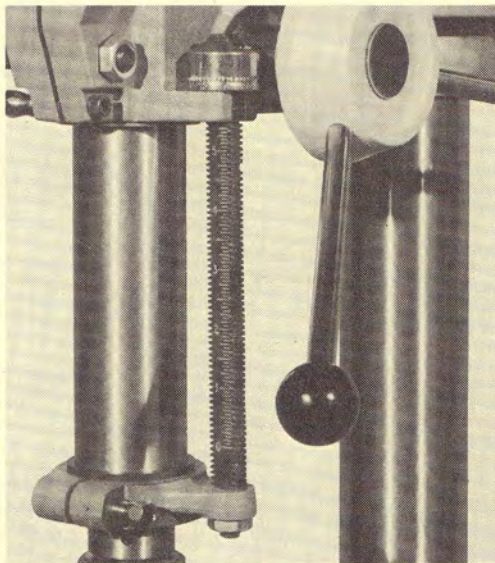
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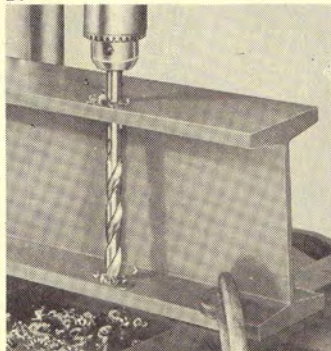
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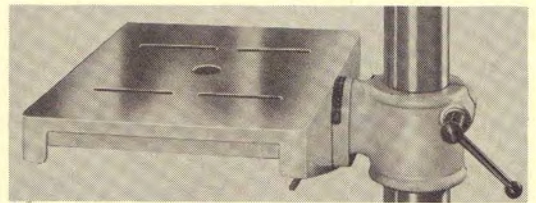
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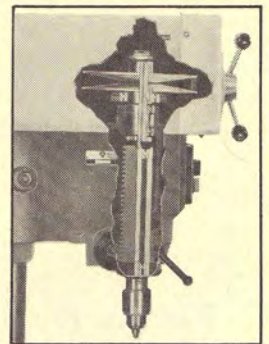
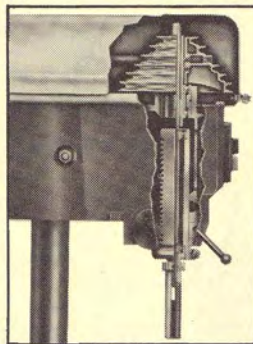
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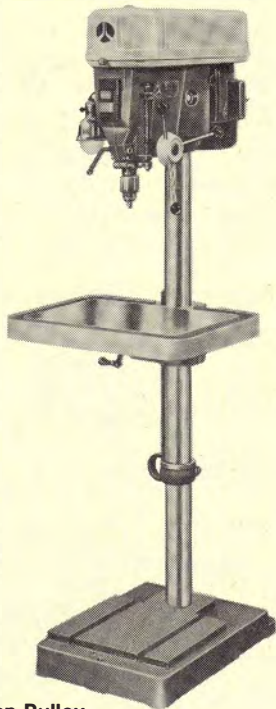
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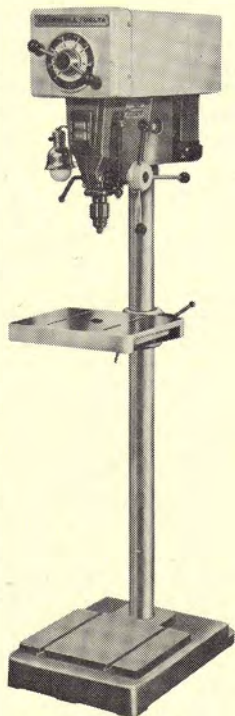
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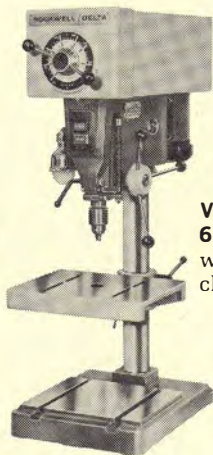
I. I.



**6-Step Pulley 6" Stroke Floor Model** with production table and key chuck spindle. Available with tilting table on both "6 PLUS 6" and "VS6" Models.

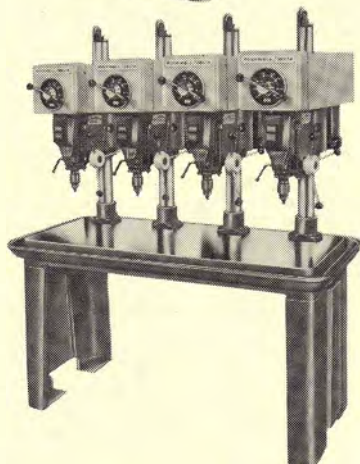


**Variable Speed 6" Stroke Floor Model** with tilting table and key chuck spindle. Available with production table on both "6 PLUS 6" and "VS6" Models.

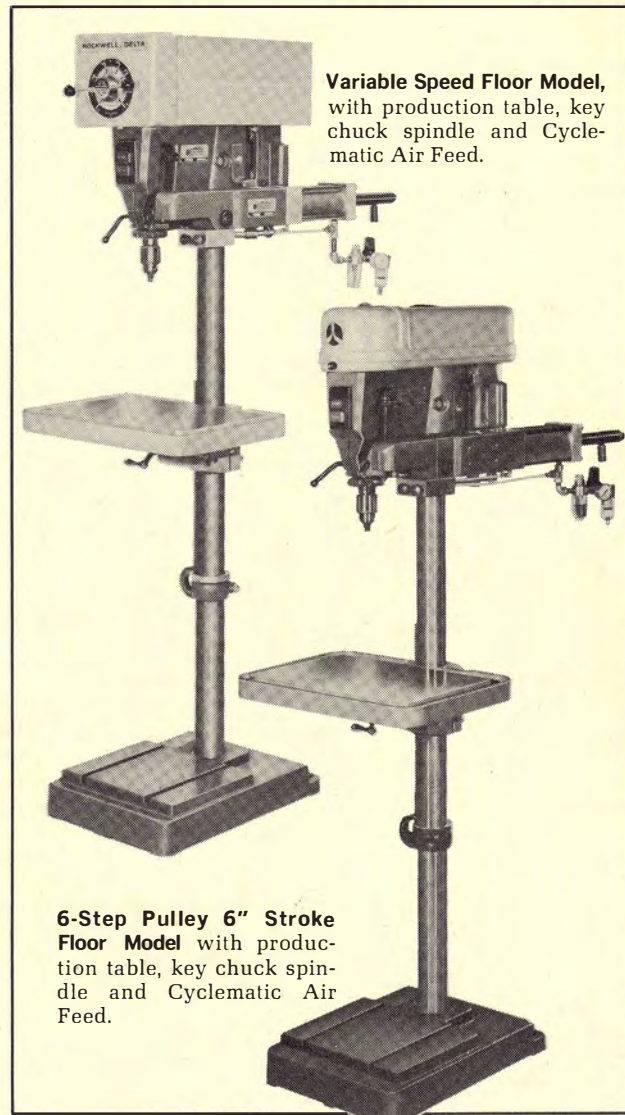


**Variable Speed 6" Stroke Bench Model** with tilting table and key chuck spindle.

All models, except 15-489, 15-491, 15-495 and 15-497, and all electrical kits are



**Variable Speed 6" Stroke Multiple Spindle Model** . . . Can be ordered custom assembled using any combination of "VS6" and "6 PLUS 6" Heads with any number of spindles from one to a drill press a block long if desired. See Section A4, Pages 5 and 6 for ordering.



**Variable Speed Floor Model**, with production table, key chuck spindle and Cyclematic Air Feed.

**6-Step Pulley 6" Stroke Floor Model** with production table, key chuck spindle and Cyclematic Air Feed.

## Choose from 8 models and get the machine best suited for your job!

Now! you can overcome the squeeze on your profits due to higher material, labor and marketing costs. How? By cutting costs at the *only* remaining level—the production line.

Rockwell Delta's modern 15" Drill Presses—the "6 PLUS 6" and "VS6"—make such production savings possible through their exceptional capacity and versatility. They provide the *extra wide* range of speeds needed for drilling everything from hardened tool steel to aluminum, plastic and wood. They offer the *extra drilling depth* required for deep-hole applications like skip and gang drilling . . . also the *extra stroke* necessary for clearing jigs and fixtures.

Let us PERFORMANCE-PROVE these "champions" for you today . . . show you how they can help your profit picture!

## STANDARD EQUIPMENT

**All Models** include belt and pulley guard, belt and motor pulley (motor pulley supplied with  $\frac{5}{8}$ " bore unless  $\frac{1}{2}$ " bore is specified), and self-ejecting safety chuck key.

# ROCKWELL 6" STROKE 15" DRILL PRESSES

## CATALOG LISTING

### SINGLE SPINDLE 6-STEP PULLEY MODELS (Less Motor and Control—See Below)

STANDARD TILTING TABLE—BENCH MODEL	STANDARD TILTING TABLE—FLOOR MODEL	PRODUCTION TABLE—FLOOR MODEL	HEAD ONLY
15-491 •½" Key Chuck 167 lbs.	15-495 •½" Key Chuck 190 lbs.	15-497 •†½" Key Chuck 248 lbs.	15-489 ½" Key Chuck 72 lbs.

### SINGLE SPINDLE VARIABLE SPEED MODELS (Less Motor and Control—See Below)

§15-471 •½" Key Chuck 185 lbs.	§15-467 •½" Key Chuck 210 lbs.	§15-469 •†½" Key Chuck 265 lbs.	§15-475 ½" Key Chuck 94 lbs.
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•Includes 15-010 (Old 1010) Safety Collar. †Includes 15-008 (Old 1008) Table Raising Mechanism. \*1½" coolant trough with ¾" pipe on each side. \*\*1½" coolant trough with two ¾" pipe taps at rear. All models

include belt and motor pulley.

§NOTE: Variable Speed Models furnished only with electricals, factory mounted and wired, ready to run.

**NOTE: For ordering multiple spindle set-ups, see Section A4, Pages 5 and 6.**

### MOTORS AND CONTROLS (Factory Mounted and Wired)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ & MOTOR RPM	MOTOR VOLTAGE	SHIP. WT (LBS.)	CAT. NO.	CAT. NO. 200V
Single Phase, ½ Horsepower	Push Button Switch Only	GD	60—1140	115/230	46	49-449	
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	GD	60—1140	115/230	49	49-702	
Single Phase, ¾ Horsepower	Push Button Switch Only	TEFC	60—1725	115/230	31	49-703	
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60—1725	115/230	35	49-704	
Three Phase, ½ Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	GD	60—1140	230/460	44	49-711	49-912
Three Phase, ¾ Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60—1725	230/460	35	†49-715	49-962

NOTE: Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only. Motors and Motor Controls for Rockwell 6" Stroke 15" Drill

Presses may be ordered unmounted. For listing, see Sections P and Q. †No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to Three Phase Cat. No. 49-715, in order to obtain 15" Drill Press with "JIC" type electricals, factory mounted and wired.

## MACHINE DATA

### Overall Dimensions:

Bench Model (With Tilting Table):

Height ("6 PLUS 6")	40" (1016 mm)
("VS6")	42½" (1079.5 mm)
Width	14" (355.6 mm)
Front to Rear ("6 PLUS 6")	25 ⅞" (638.2 mm)
("VS6")	27 ⅞" (708 mm)

Floor Model:

Height ("6 PLUS 6")	71½" (1816.1 mm)
("VS6")	74" (1879.6 mm)
Width (Tilting Table)	15½" (393.7 mm)
Width (Production Table)	21½" (546.1 mm)
Front to Rear ("6 PLUS 6")	26" (660.4 mm)
("VS6")	27 ⅞" (708 mm)

### Table Working Surface, Ground:

Tilting	11 x 14" (279.4 mm x 355.6 mm)
Production (Overall)	15 ½" x 21 ½" (393.7 mm x 546.1 mm)
Production (Inside of Coolant Trough)	12 x 18" (304.8 mm x 457.2 mm)

### Base Working Surface:

Bench Type, Ground, (9/16" T-Slots on 8" Centers)	10¼ x 12¾" (260.4 mm x 323.9 mm)
Bench Type, Ground, (With Coolant Trough)	14 x 16" (355.6 mm x 406.4 mm)

Floor Type, (9/16" (14.29 mm) T-Slots on

8" (203.2 mm) Centers) ..... 11 ¼ x 14" (285.8 mm x 355.6 mm)

### Quill:

Stroke	6" (152.4 mm)
Diameter	2" (50.8 mm)

### Capacities:

Key Chuck	0 to ½" (0 to 12.7 mm)
Dia. Hole in Cast Iron	¾" (15.9 mm)
Dia. Hole in Steel	½" (12.7 mm)

### Spindle Speeds ("6 PLUS 6"):

With 1725 RPM Motor:	425, 600, 1100, 2050, 3900 and 5500 RPM
With 1140 RPM Motor:	280, 395, 725, 1355, 2575 and 3635 RPM

### Spindle Speeds ("VS6"):

With 1725 RPM Motor	450 to 4700 RPM
With 1140 RPM Motor	300 to 3100 RPM

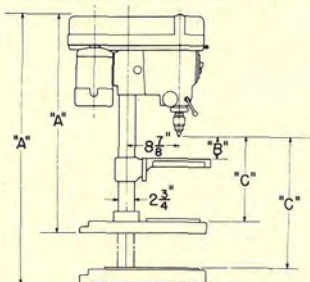
### Column:

Wall Thickness	5/32" (4 mm)
Diameter	2 ¾" (69.9 mm)

### Motor:

Accommodates NEMA 56 Frame Motors

## DIMENSIONAL DATA

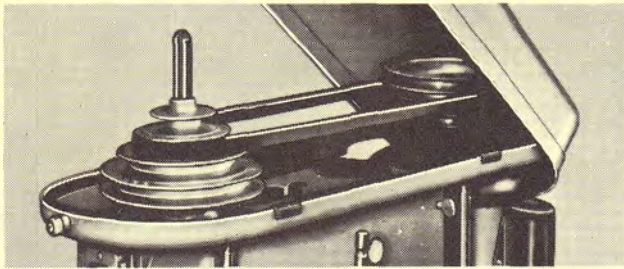


"6 PLUS 6" and "VS6" 15" DRILL PRESSES	Model	½" KEY CHUCK MODELS			WITH NO. 2 MORSE TAPER ADAPTER		
		"A" Overall Height	"B" Spindle To Table (max.)	"C" Spindle To Base (max.)	"A" Overall Height	"B" Spindle To Table (max.)	"C" Spindle To Base (max.)
Production Table	VS6	50¾	24¾	—	50¾	23½	—
	6+6	48¾	24¾	—	48¾	23½	—
Bench Type With Standard Tilting Table	VS6	42½	12	16¾	42½	11½	15½
	6+6	40	12	16¾	40	11½	15½
Floor Type With Production Table	VS6	74	37½	47	74	36¾	46¾
	6+6	71½	37½	47	71½	36¾	46¾
Floor Type With Standard Tilting Table	VS6	74	43¾	47	74	42¾	46¾
	6+6	71½	43¾	47	71½	42¾	46¾

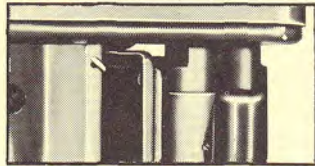
For complete range of accessories, see Section A9; for Cyclematic Air Feed, see Section A4, Page 7.

# ROCKWELL 15" UTILITY DRILL PRESS

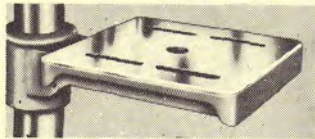
## QUALITY FEATURES



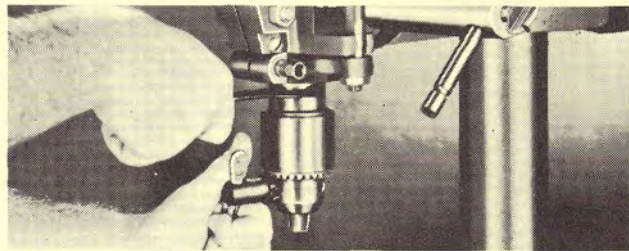
**Speed Conversion Kit.** Converts 15" Utility Drill Press from a Slow to High Speed Model using Conversion Kit No. 15-800 (illustrated) which provides speeds of 680 to 4600 RPM.



**Pivoting Motor Mounting Plate.** Permits quick belt tension release for easy speed changes. A spring-loaded plunger, with reverse taper lock feature, holds belt tension constant.



**Many-Purpose Work Table.** Side ledges and slots facilitate clamping of work to table. Accurately machined surface permits drilling to close tolerances.



**Quick Change Spindle Adapter.** Any of six interchangeable spindle adapters may be changed in seconds for dozens of operations varying from metal drilling to wood shaping.

## MACHINE DATA

### Overall Dimensions:

Width	15 1/2" (393.7 mm)
Front to Rear	22 7/8" (581.02 mm)
Height (Floor Model)	68 3/4" (1746.25 mm)
Height (Bench Model)	37 1/2" (952.5 mm)

**Table Working Surface** ..... 10" x 10 1/2" (254 x 266.7 mm)

### Base Working Surface:

Bench Type	9" x 10" (228.6 x 254 mm)
Floor Type	8 1/2" x 12" (215.9 x 304.8 mm)

**Column Diameter** ..... 2 3/4" (69.85 mm)

### Quill:

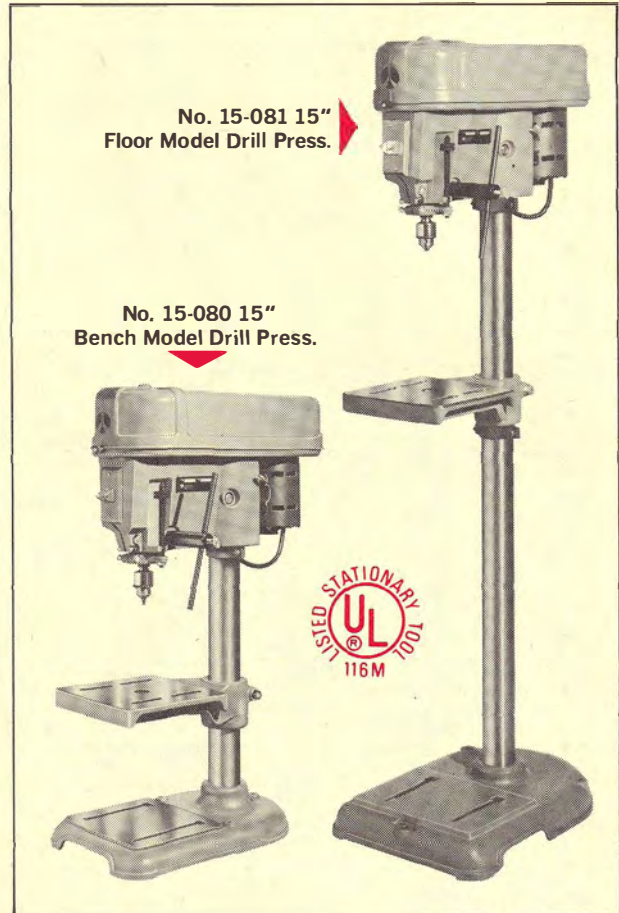
Stroke	4 5/16" (109.54 mm)
Diameter	2" (50.8 mm)

### Capacities:

Key Chuck	5/64" to 1/2" (1.984 x 12.7 mm)
Dia. Hole in Cast Iron	1/2" (12.7 mm)
Dia. Hole in Steel	3/8" (9.525 mm)
Chuck to Table (Max.), Bench Model	11 1/2" (292.1 mm)
Floor Model	42 5/16" (1074.7 mm)
Chuck to Base (Max.), Bench Model	17" (431.8 mm)
Floor Model	47 1/4" (1200.15 mm)

### Spindle Speeds:

With 1725 RPM Motor	470, 780, 1300, 1950 RPM
---------------------	--------------------------



## Big! Rugged! Built to Last!

These are the qualities that every user wants and gets in the Rockwell 15" Utility Drill Press. It's a man-size machine designed for heavy duty production work—perfect for schools and commercial wood or metalworking shops, yet priced right down to the small shop budget. Typical Rockwell Quality Features include: • Full 1/2 h.p. motor • Four speeds for drilling a variety of materials • Lubricated-for-life ball bearings • Full belt guard for added operator safety • All purpose 10" x 10 1/2" work table with side ledges and slots to clamp work • Pivoting motor mounting plate permits quick belt tension release, fast speed change • Floating spindle drive for efficient torque transmission without belt pull • Adjustable positive locking depth stop • Up front on-off switch • Threaded spindle collar accommodates six interchangeable spindle adapters.

## CATALOG LISTING

**No. 15-081 15" Floor Model Drill Press with Motor.** Includes Basic Machine with Threaded Spindle Collar, 1/2" Capacity Key Chuck, Self-Ejecting Safety Chuck Key, Safety Collar for Head and for Table, 1/2 HP Motor with 115 V Cord and 3-Prong Plug, On-Off Switch, 4-Step Slow-Speed Spindle Pulley, 41-703 Motor Pulley and 49-167 V-belt. Fully Assembled. 152 lbs.

**No. 15-080 15" Bench Model Drill Press with Motor.** Same as 15-081, Except Safety Collar Under Head Only. 124 lbs.

**No. 15-057 Head only** with 49-167 V-belt, 41-703 Motor Pulley (5/8" bore) and Belt Guard. 64 lbs.

**NOTE: For Motors and Controls for 15-057 Head, See Section A5, Page 3.**

## ACCESSORY

**No. 15-800 Conversion Kit.** Parts for converting 15" Utility Drill Press from Slow to High Speed Model. Consists of V-belt and High Speed Spindle Pulley Assembly. 3 lbs.

**For additional accessories, see Section A9.**

# ROCKWELL 14" SUPER-HI SENSITIVE DRILL PRESS

## ROCKWELL QUALITY FEATURES

- **Quill Counterbalanced**—through holes are drilled without quill drop at breakthrough point. Drill breakage eliminated.
- **Quill locks** at any position.
- **Four Ball Bearings**, specially selected, preloaded, and lubricated-for-life.
- **Spindle Pulley** taper-hole mounted.
- **14-Spline Spindle Drive** through floating sleeve.
- **Specially Selected Chuck** mounted on zero precision, tapered spindle nose.
- **Comfortable**, knurled feed wheel and separate feed lever provided. Lever adjustable to most convenient position.
- **Head** adjustable to any height on column.
- **Table** has accurately ground work surface and coolant trough with tapped drain hole.

## MACHINE DATA

Column Diameter ..... 2<sup>3</sup>/<sub>4</sub>" (69.85 mm)

Quill Stroke ..... 2<sup>1</sup>/<sub>4</sub>" (57 mm)

### Capacity:

Chuck Holds ..... From 1/4" Down to #80 (.0135")  
(6.35 to .343 mm)

Spindle to Column ..... 7" (177.8 mm)

Spindle to Table ..... 20<sup>1</sup>/<sub>2</sub>" (520.7 mm)

Motor Rating ..... 1/3 HP

### Spindle Speeds:

With 3450 RPM Motors:

Standard ..... 12000, 8000 and 5000 RPM

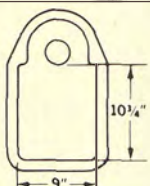
## STANDARD EQUIPMENT

Motor pulley; spindle pulley; flat belt; chuck with self-ejecting safety key; adjustable depth-of-hole stop; belt and pulley guards; head support collar; column-hole plug; motor with on-and-off switch, cord and plug\*; and switch rod\*.

\*Switch, cord and plug, and switch rod are not standard equipment with three phase models.

## CATALOG LISTING Super-Hi Drill Presses Include Standard Equipment As Listed

### CONVENIENT ONE NUMBER ORDERING

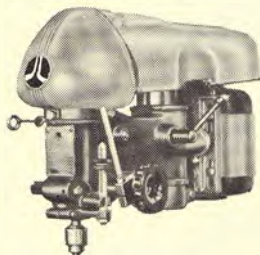
TYPE	SINGLE PHASE MODEL	THREE PHASE MODEL
	14-321—140 Lbs.	14-326—140 Lbs.
<b>SINGLE SPINDLE</b> (1 Piece Table) 	Includes 1/3 HP, 115/230 V, 60 Hz., 3450 RPM, Single Phase Motor. Spindle Speeds—12,000, 8,000 and 5,000 RPM. With Switch Rod.	Includes 1/3 HP, 230/460 V, 60 Hz., 3450 RPM, Three Phase Motor. Spindle Speeds—12,000, 8,000 and 5,000 RPM. Switch and Switch Rod Not Furnished.

**NOTE:** Super-Hi Drill Presses take drills from No. 80 to 1/8". Coolant Pump and Tank can be used with Super-Hi Drill Presses. Table drain hole—unit has one 3/8" pipe tap at rear.

## You can make up your own single spindle Super-Hi Drill Press by ordering component parts as listed below.

### SUPER-HI DRILL PRESS HEADS

Fit Rockwell Delta 14", 15" Or Any 2<sup>3</sup>/<sub>4</sub>" Drill Press Column

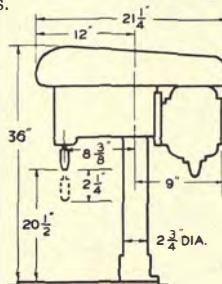


### STANDARD EQUIPMENT FOR HEADS

Each unit includes specially balanced motor, belt guard, belt and pulley set for the speed listed, and special key chuck taking drills from No. 80 to 1/4". 115V 8-foot cord, 3-prong grounding type plug, switch and 1331 switch rod furnished on single phase motors only.

**No. 14-821 Head** only with 1/3 HP, Single Phase, 3450 rpm, 115/230V, 60 Hertz Motor and Switch Rod. Speeds: 12,000, 8,000 and 5,000 rpm. 79 lbs.

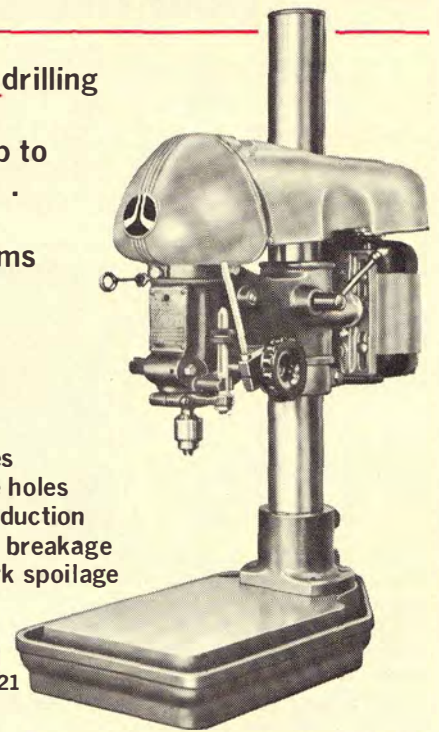
**No. 14-826 Head** only with 1/3 HP, 3 Phase, 3450 RPM, 230/460 V, 60 Hertz Motor. Switch and Switch Rod not furnished. Speeds: 12,000, 8,000 and 5,000 RPM. 78 lbs.



### TABLE AND COLUMN PARTS

- Min. col. center to center distance, 9".
- No. 14-840 One Piece Table**, 9" x 10<sup>3</sup>/<sub>4</sub>". 40 lbs.
- No. 15-804 Column**, 2<sup>3</sup>/<sub>4</sub>" dia. x 33<sup>3</sup>/<sub>4</sub>" long, with 5/8" wall thickness. 13 lbs.
- No. 15-805 Column**, 2<sup>3</sup>/<sub>4</sub>" x 38<sup>3</sup>/<sub>4</sub>", with 5/8" wall thickness. 15 lbs.
- No. 15-806 Column**, 2<sup>3</sup>/<sub>4</sub>" x 65<sup>1</sup>/<sub>4</sub>", with 5/8" wall thickness. 24 lbs.
- No. 15-810 Column**, 2<sup>3</sup>/<sub>4</sub>" x 78", with 5/8" wall thickness. 30 lbs.
- No. 15-010 (old 1010) Head-Support Collar** for Column. 2 lbs.
- No. 15-019 (old 1019) Column Mounting Flange and Screws**. 10 lbs.
- No. 14-833 Std. Flat Belt**, 39" long. 1/4 lb.

For accessories, see Section A9



This sensitive drilling machine . . . with speeds up to 12,000 rpm . . . can solve your special problems

- Drills tiny holes
- Drills accurate holes
- Speeds up production
- Reduces drill breakage
- Eliminates work spoilage

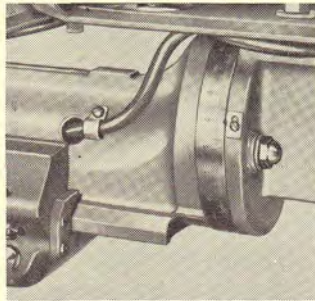
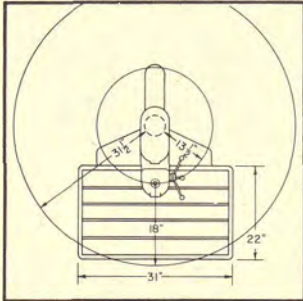
Model No. 14-321

This Rockwell Super-Hi Sensitive Drill Press meets the special problems of small hole drilling. It's ideal for manufacturers of jewelry, carburetors, brass fittings, electronic devices and specialty parts where small hole drilling is a problem.

While recommended for all drillable materials, it is especially suitable for non-ferrous metals like brass, copper, aluminum and all the precious metals. Also ideal for phenolics.

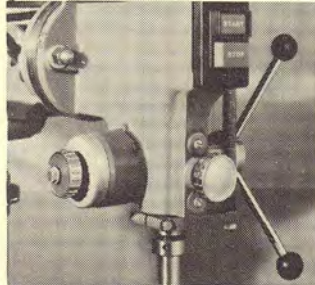
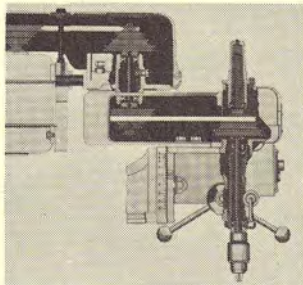
# ROCKWELL RAM TYPE RADIAL DRILL PRESS

**FEATURES THAT PROVIDE THE PERFORMANCE AND VERSATILITY OF MACHINES COSTING MORE THAN TWICE AS MUCH!**



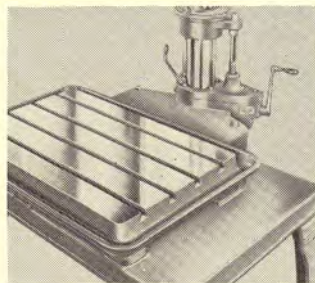
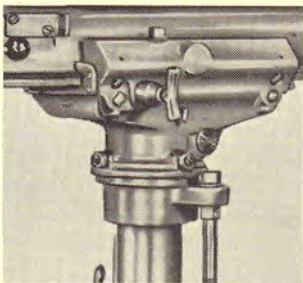
*(Left)* **Wide Drilling Range for Full Versatility.** The ram has a big 18" travel that permits drilling to the center of a 62" circle. Head, ram and cradle swing a full 360° around the column for drilling anywhere on the massive table or on work that must be kept on the floor.

*(Right)* **Head Tilt Adjustments Are Easily Made.** Head tilts a full 45° right or left. Easy-to-read head tilt angle scale permits setting of head at exact angle desired. Double locks—one on each side of head—securely lock head to prevent angle deviation under heavy loads.



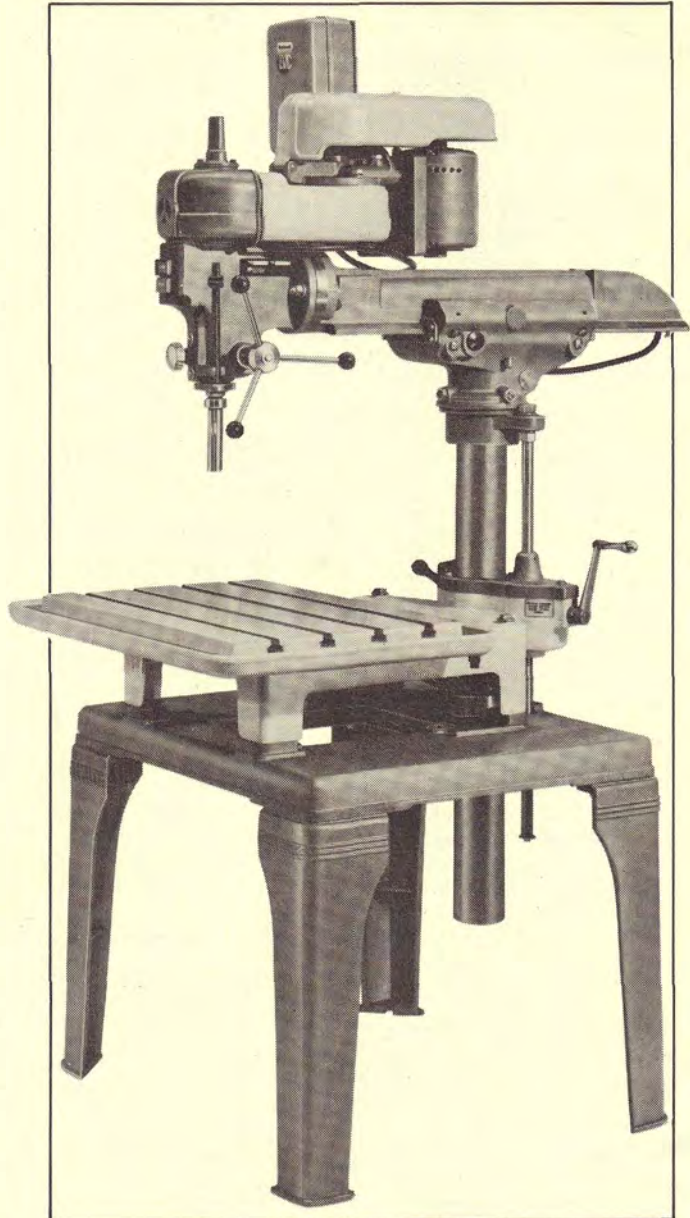
*(Left)* **Jack Shaft Assembly Provides Wide Multiple-Speed Range.** The built-in ball bearing Jack Shaft assembly provides for easy selection of 16 different speeds from 175 to 8200 rpm with a 1725 rpm motor (115 to 5400 rpm with an 1140 rpm motor). You get the right speed for every drilling operation.

*(Right)* **Convenient Controls for Extra Operating Ease.** 6" spindle travel model has calibrated depth indicator which shows exact drill penetration. Also features a quill look knob, two quill wear adjustment screws and an adjustable quill return spring.



*(Left)* **Ball Bearing Construction Facilitates Ram and Drill Head Movement.** Cradle has eight ball bearings placed on an eccentric to permit take-up for wear and provide easy glide movement of ram. Thirty-eight ball bearings in support collar facilitate movement of drill head in a complete circle.

*(Right)* **Massive Table—Convenient Head Raising Mechanism.** Big 18 x 26" cast iron, machined table has four "T" slots and oil trough tapped to accommodate 1/2" pipe. Handle on right permits rapid raising or lowering of head mechanism.



**Drills to Center of a 62" Circle**

Rugged built, this economically-priced radial drill press offers the extras usually found only in heavy, fixed machinery:

**Extra Drilling Capacity.** You can take the drill head right to the work . . . tilt it up to 45° right or left . . . swivel the head 360° for operations either on or off the table.

**Extra Wide Speed Range.** Built-in jack shaft assembly provides 16 different speeds from as low as 175 rpm to as high as 8200 rpm—the right speed for any job.

**Extra Big Capacity.** You get a long 42-inch column for extra spindle nose to table capacity, also a big 6" quill stroke with a ram travel of 18". This means you can handle even the BIGGEST jobs.

If you need a radial drill press that's ideal for rapid, precision drilling of large, heavy stock, sheet stock, panels and similar materials, ask for complete information on this Rockwell machine today!

# ROCKWELL RAM TYPE RADIAL DRILL PRESS

## STANDARD EQUIPMENT

All Models include 65-863 floor stand, head, jack shaft assembly, ram, cradle, column, table, raising mechanism, belt guards, 41-772 motor pulley, 49-287 V-belt (31<sup>1</sup>/<sub>8</sub>" OC), 49-105 V-belt (30<sup>1</sup>/<sub>8</sub>" OC), motor and controls.

## CATALOG LISTING

### CONVENIENT ONE NUMBER ORDERING

#### FOR SINGLE PHASE OPERATION

**No. 15-126 Ram Type Radial Drill Press Complete.** 6" spindle travel model with No. 2 M.T. spindle, 42" column, 65-863 Floor Stand, and Standard Equipment as listed. Also includes 1/2 HP, 115/230 V, 1725 RPM, 60 hertz, single phase motor with 24V push button station, magnetic starter, transformer and overload protection, mounted and wired for 115 V, unless 230 V is specified. Power Cord and Plug also supplied. 829 lbs.

#### FOR THREE PHASE OPERATION

**No. 15-127 Ram Type Radial Drill Press Complete.** 6" spindle travel model with No. 2 M.T. spindle, 42" column, 65-863 Floor Stand, and Standard Equipment as listed. Also includes 1/2 HP, 230/460 V, 1725 RPM, 60 hertz, three phase motor with 24 V push button station, magnetic starter, transformer and 3-leg overload protection, mounted and wired for 230 V, unless 460 V is specified. 829 lbs.

**No. 15-128 Ram Type Radial Drill Press Complete.** Same as No. 15-127, except wired for 200 V. 829 lbs.

**NOTE:** You can easily convert your No. 2 M.T. Spindle Unit to a 1/2" Key Chuck Model simply by removing the No.2 M.T. Spindle Adapter and replacing it with a No. 15-830 1/2" Key Chuck. Order 15-830 Key Chuck and 15-838 Spanner Wrench separately.

## MACHINE DATA

### Overall Dimensions:

Height .....	.86" (2184 mm)
Width .....	.33" (838 mm)
Front to Rear .....	.58" (1473 mm)

### Capacities:

Key Chuck .....	.0 to 1/2" (0 to 12.7 mm)
Diameter Hole in Cast Iron .....	1/2" (12.7 mm)
in Steel .....	3/8" (9.5 mm)
Column to $\phi$ of Spindle:	
Maximum (Ram Forward) .....	.31" (787 mm)
Minimum (Ram Back) .....	.13" (330 mm)
Spindle to Table .....	3 1/6" to 24 3/16" (77.79 x 514.36 mm)

### Vertical Travel of Head

Using Raising Mechanism .....

.....	10" (254 mm)
-------	--------------

**Column** .....

.....	3 3/4" (95.25 mm) Diameter
-------	----------------------------

### Table:

Ground Work Surface.....

.....	26" (660 mm) Wide x
.....	18" (457 mm) Deep

Has Four Parallel 1/2" (12.7 mm) T-Slots on

4" (101.6 mm) Centers

1 3/4" (44.45 mm) Coolant Trough All Around With

1/2" (12.7 mm) Pipe Tap

### Quill:

Stroke .....

.....	.6" (152 mm)
-------	--------------

Diameter .....

.....	1 1 3/16" (46 mm)
-------	-------------------

**Spindle Speeds** .....

.....	16
-------	----

### Spindle Speeds:

With 1725 RPM Motor.....

.....	175, 365, 380, 600, 695, 765, 1030,
.....	1250, 1380, 1450, 2200, 2300, 2800, 4000, 4750, 8200 RPM

.....

**Head Tilts 90°**.....

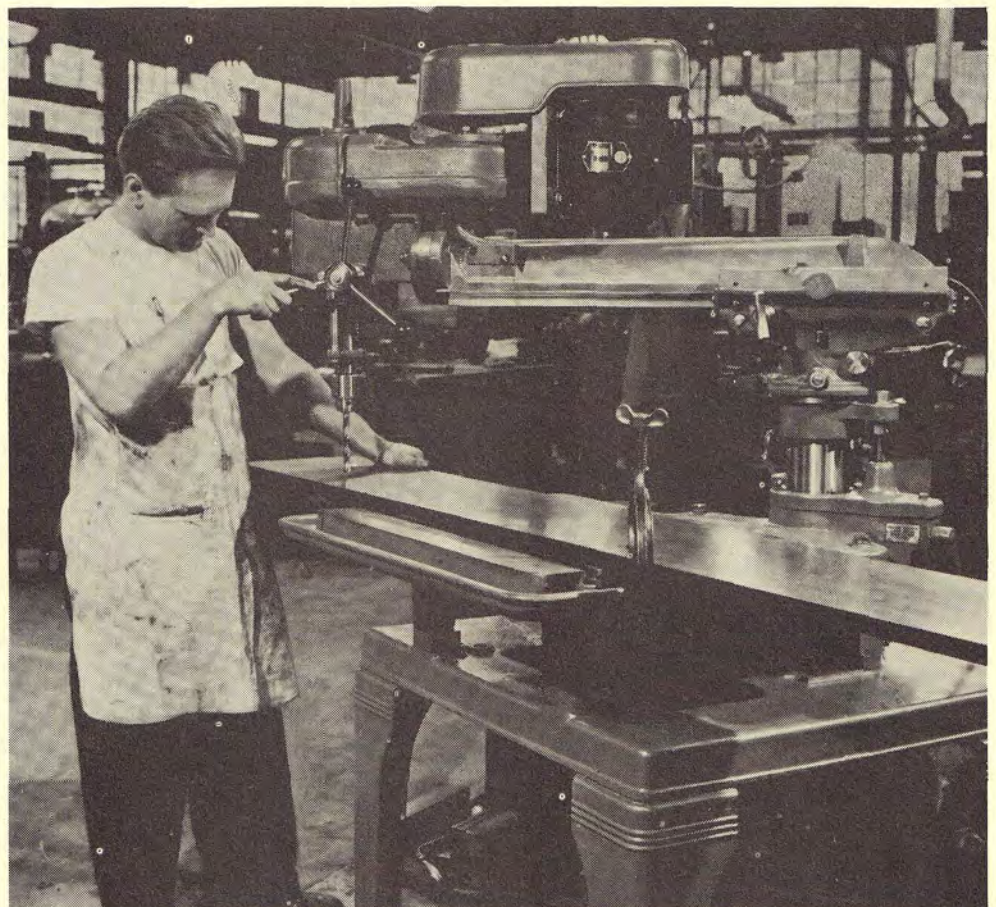
.....	45° Left, Vertical, 45° Right
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## ACCESSORY (STANDARD EQUIPMENT)

**No. 65-863 Floor Stand**—For all Ram Type Radial Drill Presses. 216 lbs.

For Complete Range of Drill Press Accessories, See Section A9.

**ROCKWELL  
RAM TYPE  
RADIAL DRILL  
PRESSES  
GIVE YOU  
MACHINE TOOL  
CAPACITY AND  
PERFORMANCE  
COMBINED WITH  
POWER TOOL  
ADAPTABILITY  
AND VERSATILITY!**

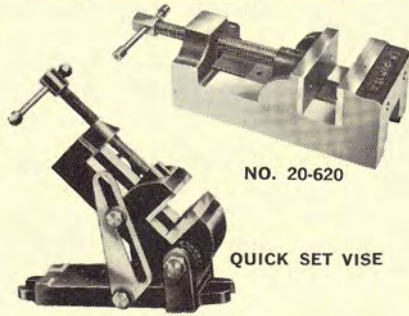


# ROCKWELL DRILL PRESS ACCESSORIES

## QUALITY ACCESSORIES THAT PROVIDE INCREASED JOB PERFORMANCE

### ACCESSORIES FOR ALL ROCKWELL DRILL PRESSES

**Handy, Quick-Set Vises**—Raise to any angle. Side of vise accurately graduated for angle work. Accurately machined with base, body and sliding jaws of semi-steel—clamping jaws of hardened steel. Clamping screw has fine pitched thread and long bearing in vise body.



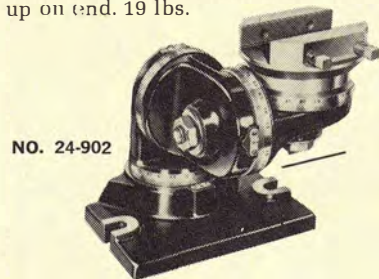
NO. 20-620

QUICK SET VISE

NO.	JAW	OPENING	LENGTH	SHIP. WT.
115-024 (Old 1024)	1 x 1½"	1¾"	4¾"	4 lbs.
15-025 (Old 1025)	1 x 1½"	1¾"	4¾"	6½ lbs.
15-026 (Old 1026)	1½ x 2½"	2½"	6¾"	9 lbs.
20-620	1¾ x 4"	4"	10¾"	19 lbs.

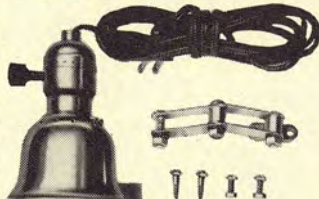
†No. 15-024 same as No. 15-025 but without raising feature.

**No. 20-620 4" Drill Press Vise** with steel jaw plates. Plate for fixed jaw has vertical and horizontal grooves for holding round pieces. Recommended for drilling, tapping, milling, bench work and other operations. Vise is machined so that it can be placed in the normal position, on either side, or it can be stood up on end. 19 lbs.



NO. 24-902

**No. 24-902 Univise** . . . First truly universal vise for grinding, drilling and milling. Can be set at any angle desired. Vise can be returned exactly to its original setting for duplicate grinding. Each station had a 360° circular scale. 16 lbs.



**No. 40-882 (old 882) Lamp Attachment** uses standard 15 or 25-watt bulb. Includes mounting bracket, shade, socket and 115 V 8-foot cord. 1½ lbs.

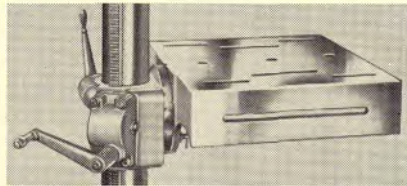
### ACCESSORIES FOR SERIES 2000 AND 17" DRILL PRESSES



**No. 17-822 Belt Guard Top Cover Plate.** For Variable Speed (Spring Pulley Type) Drill Presses. Includes two oil hole plugs, cover plate for column hole and screws for mounting. 9 lbs.

**No. 17-820 Drill Chuck**—3-jaw type, 0-½" capacity, with No. 3 M.T. shank. Includes chuck key. Use with straight shank drills in a drill press with No. 3 M.T. spindle. 3 lbs.

### ACCESSORIES FOR SERIES 2000 DRILLING MACHINES



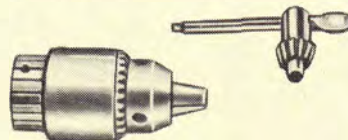
**No. 20-660 Tilting Table**—Table top and one side are finished to plane surfaces at right angles to one another. Tilts 90°, right and left. Ground work surface 16" front to back by 18" left to right, slotted, with tilt angle scale. Without 20-661 Raising Mechanism. For single spindle floor model drill press. 97 lbs.

**No. 20-650 Production Table**—15 x 18" ground work surface (including coolant trough, 19¼ x 22"). With 4 diagonal and 2 parallel blind T-slots for ½" bolts. Without 20-661 Raising Mechanism. For single spindle floor model drill presses. 112 lbs.

**No. 20-661 Raising Mechanism**—For head or table of 20" Drill Press. Fits Tables 20-660 and 20-650. Includes ball bearing thrust collar, rack, gear assembly and crank. 19 lbs.

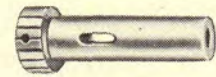
**No. 17-836 Booster Spindle Return Spring Kit**—Includes clock spring with case, pinion shaft stub extension and instructions for field mounting on hand or power feed machines. Provides about 80 pounds of lift when used with the standard equipment spring. It is especially recommended when multiple spindle heads, tapping heads or other heavy tooling is mounted on quill or spindle of machine. 2 lbs.

### ACCESSORIES FOR 17", "6 PLUS 6" AND "VS6" 15", 15" UTILITY AND RAM TYPE RADIAL DRILL PRESSES

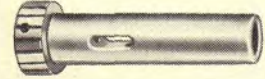


**No. 15-830 Drill Chuck**—Key Chuck, 0-½" capacity, 3-jaw type, with threaded mounting collar and key. 1½ lbs.

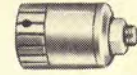
### SPINDLE ADAPTERS



**No. 15-832 Adapter** with No. 1 M.T. hole, with threaded mounting collar. 2 lbs.



**No. 15-833 Adapter** with No. 2 M.T. hole, with threaded mounting collar. 1 lb.



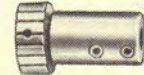
**No. 15-835 Adapter**, ½" shaft and flange. For cup, dish or straight grinding wheels. With mounting collar tapped 1½/16"—20. 1 lb.

**NOTE: Not suitable for use with Ram Type Radial Drill Press.**



**No. 15-836 Adapter** with collars and threaded mounting collar for shaper cutters with ½" hole. 1 lb.

**NOTE: Not suitable for use with Ram Type Radial Drill Press.**



**No. 15-837 Adapter**, ½" hole, with threaded mounting collar for router and spur bits, etc. 1 lb.



**No. 15-838 Spanner Wrench**—1½" x 5¾" long, with single lug for 7/8" hole. Recommended for threaded mounting collar of Drill Chuck 15-830 or Adapters 15-832, 15-833, 15-835, 15-836 and 15-837. ¼ lb.

**\*Adapters cannot be used with old style Delta 17" Drill Presses. Fit only ½" Key Chuck Models with 1/16"—20 threaded spindle nose.**



**Machine Spur Bits**—Production type. Made of selected steel. Have brad point and two cutting spur lips. Approximately 6" long with ½" shank. Weight per set 3 lbs.

- No. 15-524 (old 804) ¼"
- No. 15-525 (old 805) ⅜"
- No. 15-526 (old 806) ½"
- No. 15-527 (old 807) ⅞"
- No. 15-528 (old 808) ½"
- No. 15-529 (old 809) ⅜"
- No. 15-530 (old 810) ½"
- No. 15-532 (old 812) ¼"

**No. 15-538 (old 818)**—Complete set of 8 machine spur bits.



**Plug Cutters**—Used for making wood plugs and dowels. ½ x 2" shank, barrel 2¼" long. Cuts plugs 2" thick and dowels 2" long.

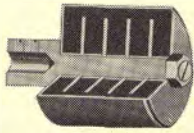
- No. 15-534 (old 814) ⅜" dia.
- No. 15-535 (old 815) ½" dia.
- No. 15-536 (old 816) ⅝" dia.
- No. 15-537 (old 817) ¾" dia.
- No. 15-539 (old 819) 1" dia.

**No. 15-542 (old 822)**—Complete set of 5 plug cutters, 2½ lbs.

# ROCKWELL DRILL PRESS ACCESSORIES

## SANDING DRUMS AND ABRASIVE SLEEVES FOR INSIDE AND CURVED WORK ON YOUR DRILL PRESS

Perfect work is easy with these sanding drums. No fasteners to bump—no uneven expansion. In these drums, each rubber section is separated from its neighbor by bakelite washers, with non-corrosive metal bushings next to the arbor. Disks expand uniformly, run dead true, produce perfect work.



**No. 46-038 (old 830) Drum**, 3" dia. x 3", with one sleeve. Fits  $\frac{1}{2}$ " dia. shaft. 2 lbs.

**No. 46-138 (old 831) Sleeves**,  $\frac{1}{2}$  doz. 3 x 3". 40 grit coarse garnet.  $\frac{1}{2}$  lb.

**No. 46-832 (old 832) Sleeves**,  $\frac{1}{2}$  doz., 3 x 3". 60 grit medium garnet.  $\frac{1}{2}$  lb.

**No. 46-338 (old 833) Sleeves**,  $\frac{1}{2}$  doz., 3 x 3". 50 grit al. ox. (for metal).  $\frac{1}{2}$  lb.



**No. 46-538 (old 835) Drum**,  $1\frac{3}{4}$ " dia. x 2", with one sleeve. Fits  $\frac{1}{2}$ " dia. shaft.  $1\frac{3}{4}$  lbs.

**No. 46-638 (old 836) Sleeves**,  $\frac{1}{2}$  doz.,  $1\frac{3}{4}$  x 2". 40 grit med. garnet.  $\frac{1}{4}$  lb.

**No. 46-837 (old 837) Sleeves**,  $\frac{1}{2}$  doz.,  $1\frac{3}{4}$  x 2". 60 grit fine garnet.  $\frac{1}{4}$  lb.

**No. 46-838 (old 838) Sleeves**,  $\frac{1}{2}$  doz.,  $1\frac{3}{4}$  x 2". 50 grit al. oxide (for metal).  $\frac{1}{4}$  lb.



**No. 46-048 (old 840) Drum**,  $1\frac{1}{4}$ " dia. x  $2\frac{1}{2}$ ", with one sleeve. With  $\frac{1}{2}$ " shank to fit hollow spindle or chuck.  $\frac{1}{2}$  lb.

**No. 46-841 (old 841) Sleeves**,  $\frac{1}{2}$  doz.,  $1\frac{1}{4}$  x  $2\frac{1}{2}$ ". 50 grit med. garnet.  $\frac{1}{2}$  lb.

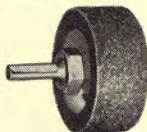
**No. 46-248 (old 842) Sleeves**,  $\frac{1}{2}$  doz.,  $1\frac{1}{4}$  x  $2\frac{1}{2}$ ". 80 grit fine, garnet.  $\frac{1}{2}$  lb.

**No. 46-847 (old 847) Sleeves**,  $\frac{1}{2}$  doz.,  $1\frac{1}{4}$  x  $2\frac{1}{2}$ ". 50 grit al. oxide (for metal).  $\frac{1}{2}$  lb.

## NARROW SANDING DRUMS AND SLEEVES

Drums of solid rubber for use in 3-jaw chuck.

**No. 46-679 (old 679) Drum**,  $1\frac{1}{2}$ " dia. x 1", with one sleeve,  $\frac{3}{16}$ " shank.  $\frac{1}{2}$  lb.



**No. 46-682 (old 682) Sleeves**,  $\frac{1}{2}$  doz.,  $1\frac{1}{2}$  x 1". 40 grit al. oxide.  $\frac{1}{4}$  lb.

**No. 46-683 (old 683) Sleeves**,  $\frac{1}{2}$  doz.,  $1\frac{1}{2}$  x 1". 80 grit al. oxide.  $\frac{1}{4}$  lb.

**No. 46-680 (old 680) Drum**,  $2\frac{3}{16}$ " dia. x 1", with one sleeve.  $\frac{5}{16}$ " shank.  $\frac{1}{2}$  lb.

**No. 46-684 (old 684) Sleeves**,  $\frac{1}{2}$  doz.,  $2\frac{3}{16}$  x 1". 40 grit al. oxide.  $\frac{1}{4}$  lb.

**No. 46-685 (old 685) Sleeves**,  $\frac{1}{2}$  doz.,  $2\frac{3}{16}$  x 1". 80 grit al. oxide.  $\frac{1}{4}$  lb.

**No. 46-681 (old 681) Drum**, 3" dia. x 1", with one sleeve,  $\frac{5}{16}$ " shank.  $\frac{3}{4}$  lb.

**No. 46-686 (old 686) Sleeves**,  $\frac{1}{2}$  doz., 3 x 1". 40 grit al. oxide.  $\frac{1}{2}$  lb.

**No. 46-687 (old 687) Sleeves**,  $\frac{1}{2}$  doz., 3 x 1". 80 grit al. oxide.  $\frac{1}{2}$  lb.



**Mortising Chisels**—Production type. Made of selected steel. Shank of chisel is  $\frac{5}{8}$  x  $1\frac{1}{2}$ ".

**No. 15-404 (old 504)**— $\frac{1}{4}$  x  $\frac{1}{4}$ ", mortises  $1\frac{1}{8}$ " deep.

**No. 15-405 (old 505)**— $\frac{5}{16}$  x  $\frac{5}{16}$ ", mortises  $1\frac{1}{8}$ " deep.

**No. 15-406 (old 506)**— $\frac{3}{8}$  x  $\frac{3}{8}$ ", mortises 3" deep.

**No. 15-408 (old 508)**— $\frac{1}{2}$  x  $\frac{1}{2}$ ", mortises 3" deep.

**Mortising Chisel Bits**—Of selected steel. Bit operates inside chisel.

**No. 15-514 (old 514)**— $\frac{1}{4}$ " bit x  $\frac{3}{16}$ " dia. shank.

**No. 15-515 (old 515)**— $\frac{5}{16}$ " bit x  $\frac{1}{4}$ " dia. shank.

**No. 15-516 (old 516)**— $\frac{3}{8}$ " bit x  $1\frac{1}{4}$ " dia. shank.

**No. 15-517 (old 518)**— $\frac{1}{2}$ " bit x  $1\frac{1}{4}$ " dia. shank.

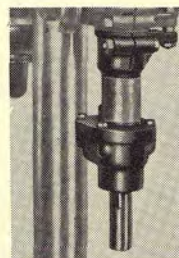
## ACCESSORIES FOR 17" DRILL PRESSES

**No. 46-968 (old 968) Drill Chuck**—3-jaw type, 0 to  $\frac{1}{2}$ " capacity, with No. 2 M.T. shank. Includes chuck key.  $2\frac{1}{2}$  lbs.

**No. 17-825 Production Table**,  $12\frac{1}{2}$  x  $17$ " ground work surface (including coolant trough,  $16$  x  $20\frac{1}{2}$ " ) with two parallel T-slots for  $\frac{1}{2}$ " T-bolts. Slots are on 9" centers and run from front to back. Table has  $1\frac{1}{2}$ " coolant trough with one  $\frac{3}{4}$ " pipe tap drain hole at left rear corner. Tilts  $17^\circ$  right and left and fits standard bracket on floor type, single spindle drill presses. 58 lbs.

**No. 17-829 Standard Tilting Table**— $11$ " x  $14$ " ground surface. Ledges at sides and slots make clamping of work easy. Tilts  $90^\circ$  both right and left. 12 lbs.

**No. 17-801 Raising Mechanism**, for head or table. Includes worm shaft, compound worm gear and pinion, crank handle, rack, thrust ball bearing and column collar. 10 lbs.



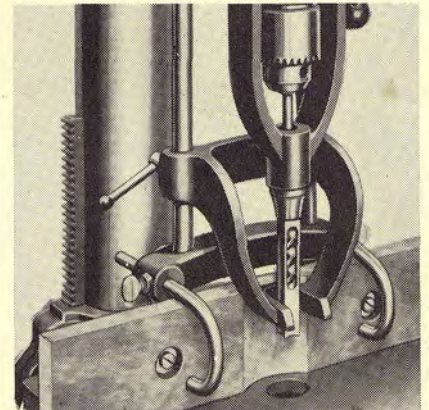
**No. 17-860 Slo-Speed Attachment**. Provides 4.7 to 1 speed reduction for spot facing, reaming, counterboring, core drilling, etc. Fits No. 2 M.T. spindle models only. Speed range with the attachment on drill press, 75 to 475 rpm.

These slow speeds are in addition to the regular speeds obtained when the Slo-Speed Attachment is not on the drill press. Spindle travel with this attachment is 4". No. 17-836 Booster Spindle Return Spring Kit recommended for use with this Slo-Speed Attachment. 10 lbs.



**No. 17-880 Spindle**, No. 3 M.T., with bearings. Includes instructions for installing on any model of Rockwell Delta 17" Drill Press. 3 lbs.

**No. 17-836 Booster Spindle Return Spring Kit**. For 17" Drill Presses Serial No. 137-5800 and higher. It provides about 80 pounds of lift when used with the standard spring. Especially recommended for use with the 17-860 Slo-Speed Attachment or when any heavy tooling like multiple spindle heads or tapping chucks are mounted on the quill or spindle of the machine. Includes clock spring, pinion shaft extension and instructions for field mounting. 2 lbs.



**No. 17-381 (old 1381) Mortising Attachment**, fits key chuck models only. Consists of a heavy fence bolted to the drill press table. Two hooked rods hold work against fence and an adjustable hold-down keeps the work from being raised when the chisel is withdrawn. Capacity under hold-down— $6\frac{1}{2}$ ", from ends of hooked rods to fence— $2\frac{1}{2}$ ". 19 lbs.

## SPEED CHANGING PARTS

**No. 17-391 (old 1391) Parts** for converting drill press from Slo-Speed to High Speed model. Consists of high speed pulleys and 49-051 (old 501) Belt. 7 lbs.

**No. 17-862 Parts** for converting drill press from High Speed to Slo-Speed model. Consists of slo-speed pulleys and 49-025 (old 520) Belt. 10 lbs.

## MOTOR PULLEYS

3 lbs. ea.

**5-Step for Slo-Speed**

**No. 41-812**— $\frac{1}{2}$ " bore.

**No. 41-813**— $\frac{5}{8}$ " bore.

**No. 41-814**— $\frac{3}{4}$ " bore.

**No. 41-815**— $\frac{7}{8}$ " bore.

**5-Step for High-Speed**

**No. 41-822**— $\frac{1}{2}$ " bore.

**No. 41-823**— $\frac{5}{8}$ " bore.

**No. 41-824**— $\frac{3}{4}$ " bore.

**No. 41-825**—1" bore.

# ROCKWELL DRILL PRESS ACCESSORIES

## MOTOR PULLEY ASSEMBLIES

**No. 41-964 Variable Speed Type**— $\frac{3}{4}$ " bore. 8 lbs.

**No. 41-965 Variable Speed Type**— $\frac{7}{8}$ " bore. 8 lbs.

## BELTS

**No. 49-051 (old 501) V-belt**, 51 $\frac{5}{8}$ " OC, for High Speed model.  $\frac{1}{2}$  lb.

**No. 49-025 (old 520) V-belt**, 54 $\frac{1}{8}$ " OC, for Slo-Speed model.  $\frac{1}{2}$  lb.

**No. 49-159 Variable Speed Belt**, 55" OC. 1 $\frac{1}{2}$  lbs.

## ACCESSORIES FOR "6 PLUS 6" AND "VS6" 15" AND 15" UTILITY DRILL PRESSES

**No. 15-010 (old 1010) Collar**—Head or table support. For 2 $\frac{3}{4}$ " dia. column. 2 lbs.

**No. 15-809 Tilting Table**—11x14" ground surface, complete with column bracket. Ledges at sides and slots make clamping of work easy. Tilt angle scale indicates to 90° both right and left. Fits any 15" drill press with 2 $\frac{3}{4}$ " column. 37 lbs.

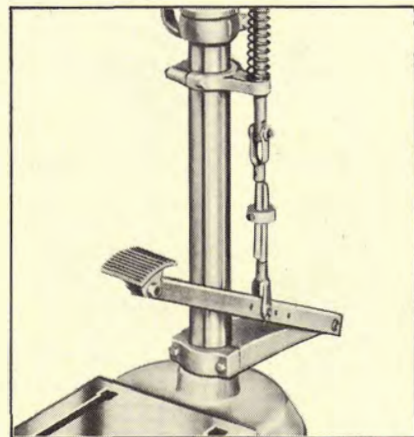
**No. 15-801 Table**, 10 x 10 $\frac{1}{2}$ " ground surface, non-tilting type, with integral column bracket. Ledges at sides and slots make clamping of work easy. Holes on front apron facilitate work or fixture mounting. Fits any 15" drill press with 2 $\frac{3}{4}$ " column. 22 lbs.

**No. 15-850 Production Table**—12 x 18" ground work surface (including coolant trough, 15 $\frac{1}{2}$  x 21 $\frac{1}{2}$ " ), for single spindle floor model drill presses (without 15-008 Raising Mechanism). 76 lbs.

**No. 15-009 Table Raising Mechanism** for 15-809 Standard Tilting Table on 15" Drill Presses. Can also be used with 15-801 Non-Tilt Table. 9 lbs.

**No. 15-008 (old 1008) Raising Mechanism**—For 15-850 Production Table. Includes rack, collar and bearing. 10 lbs.

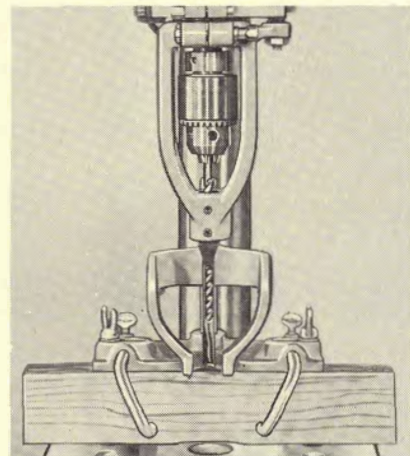
**No. 15-030 (old 1030) Head Counterbalance Attachment**—Complete assembly including spring, chain, column top casting, ball bearing roller and screws. Cannot be used with columns shorter than 38 $\frac{3}{4}$ ". 9 lbs.



**No. 15-820 Foot Feed**—For floor type models with 64" column. Maximum quill travel with foot feed connected is 6". Consists of foot pedal, rods, mounting brackets and spring. 36 lbs.

## No. 15-825 Full Belt and Pulley Guard

—For step-pulley models only. Encloses spindle pulley, V-belt and motor pulley. 9 lbs.



**No. 15-840 Mortising Attachment**—This attachment converts the 15" Drill Press into an accurate mortising machine. Capacity under hold-down—4 $\frac{3}{4}$ ", from ends of hooked rods to fence—2 $\frac{3}{4}$ ". Used with key chuck models only. No. 15-820 Foot Feed recommended for mortising with single spindle models. Includes fence with mounting bolts, hooked rods, hold-down and chisel holder. 8 $\frac{1}{2}$  lbs.

## ACCESSORIES FOR "6 PLUS 6" AND "VS6" 15" DRILL PRESSES

### MULTI-SPEED ATTACHMENTS

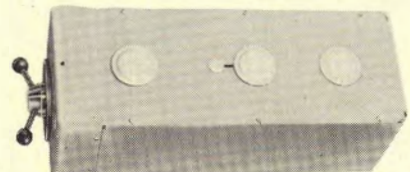
(Not for variable speed models)

Especially recommended for jobs like spot facing, counterboring, reaming and core drilling.



**No. 15-802 Multi-Speed Attachment**—For 6-step pulley models. Provides eight speeds from 125 RPM to 5800 RPM with 1725 RPM motor or 85 to 3800 RPM with 1140 RPM motor. Includes motor pulley with  $\frac{1}{2}$ " bore. 7 lbs.

**No. 15-803 Multi-Speed Attachment**—For 6-step pulley models. Same as 15-802 except motor pulley has  $\frac{5}{8}$ " bore. 7 lbs.



**No. 15-846 Belt Guard Top Cover Plate**—For 15" Variable Speed (Spring Pulley Type) Drill Presses. Includes hole plugs and screws for mounting. 4 lbs.

### MOTOR PULLEYS

**No. 41-832 6-Step**— $\frac{1}{2}$ " bore. 3 $\frac{1}{2}$  lbs.

**No. 41-833 6-Step**— $\frac{5}{8}$ " bore. 3 $\frac{1}{2}$  lbs.

## MOTOR PULLEY ASSEMBLIES

**No. 41-952 Variable Speed Type**, with spring,  $\frac{1}{2}$ " bore. 6 lbs.

**No. 41-953 Variable Speed Type**, with spring,  $\frac{5}{8}$ " bore. 6 lbs.

## BELTS

**No. 49-091 V-belt**—28 $\frac{1}{16}$ " OC, rear, for No. 15-802 Multi-Speed Attachment. 1 $\frac{1}{2}$  lbs.

**No. 49-092 V-belt**—33 $\frac{1}{2}$ " OC, front, for No. 15-802 Multi-Speed Attachment. 1 $\frac{1}{2}$  lbs.

**No. 49-093 V-belt**—6-step pulley type, 45 $\frac{1}{8}$ " OC. 1 $\frac{1}{2}$  lbs.

**No. 49-415 Belt**—Variable speed type, 45 $\frac{5}{8}$ " OC. 1 lb.

## ACCESSORIES FOR 15" UTILITY DRILL PRESS

**No. 11-969 (old 969) Pilot Wheel** 3-spoke type with handle knobs. 4 lbs.

### MULTI-SPEED ATTACHMENTS

Especially recommended for jobs like spot facing, counterboring, reaming and core drilling.

**No. 15-848 Multi-Speed Attachment for High-Speed 15" Drill Press**. 12 speeds from 275 to 10,500 rpm (the 10,500 rpm should be used only for occasional work due to the excessive wear on bearings). Includes mounting bracket, ball bearing cone pulley and two V-belts. 5 $\frac{1}{2}$  lbs.

**No. 15-849 Multi-Speed Attachment for Slo-Speed 15" Drill Press**. 12 speeds from 185 to 4600 rpm. Includes mounting bracket, ball bearing cone pulley and two V-belts. 5 $\frac{1}{2}$  lbs.

**No. 49-167**—V-Belt for Slo-Speed Model.  $\frac{1}{2}$  lb.

**No. 49-168**—V-Belt for High-Speed Model.  $\frac{1}{2}$  lb.

## ACCESSORIES FOR RAM TYPE RADIAL DRILL PRESS

### KEY CHUCK

**No. 46-968 (old 968) Drill Chuck**—3-jaw type, 0 to  $\frac{1}{2}$ " capacity, with No. 2 M.T. shank. Includes chuck key. 2 $\frac{1}{2}$  lbs.



**No. 25-857 Lamp Attachment**, for 115 V. Includes 18" flexible gooseneck, reflector and 8-foot cord with 2-prong plug. Uses standard bulb (not included) up to 75 watts. 3 lbs.

### MOTOR PULLEYS

**No. 41-772 Four-Step**— $\frac{1}{2}$ " bore. 1 lb.

**No. 41-773 Four-Step**— $\frac{5}{8}$ " bore. 1 lb.

## BELTS

**No. 49-287 (old 287) V-Belt**, 31 $\frac{1}{8}$ " OC, for Ram Type Radial Drill Presses (rear belt).  $\frac{1}{2}$  lb.

**No. 49-105 V-Belt**, 30 $\frac{3}{8}$ " OC, for Ram Type Radial Drill Presses (front belt).  $\frac{1}{2}$  lb.

For Coolant Equipment, see Section D1.

# ROCKWELL BUX Portable MAGNETIC DRILLS

For BIG Capacity Drilling Not Possible with Conventional  
Drill Presses or Radial Drills

Now! Rockwell Extra Heavy Duty Drills have been teamed with famous BUX Magnetic Stands to give you big capacity portable drilling machines. The magnetized base attaches with tremendous force to steel surfaces horizontally, vertically or overhead. With the portable drill firmly held in position, you can precision drill, tap or ream at a drill point pressure up to 1800 pounds. You can

perform these operations on large, special-purpose machines, on girders, and in other places that cannot be reached with conventional drill presses or radial drills.

Take the capacity of stationary drill presses to your job site to save on labor, the expense of dismantling heavy machinery or the cost of transporting large equipment.



# Rockwell Bux Portable Magnetic Drills

## ROCKWELL QUALITY FEATURES

**A. Extra Powerful, Specially Designed Motors** provide a full 6.5 amps on small rectangular base models, 12 amps on medium rectangular base models and 15 amps on large radial position and rectangular base models.

**Cartridge-Type Brushes** — are spring-loaded and self-adjusting for better commutation.

**Precision Machine Wound Armatures**—with resin coated, bonded wire and welded commutator leads to withstand high overload conditions.

**Efficient Cooling System** — flow-thru venting and 12-blade fan work together to maintain lower motor operating temperature for better efficiency.

**Ball and Roller Bearing Construction** — assure trouble-free performance, gear and spindle shafts run smoothly on self-lubricating ball and roller bearings.

**B. Replaceable Wear Strips** — the double dovetail type slide assembly is supported with quickly replaceable wear strips.

**C. All Steel Pinion Shaft**—supported by special oil impregnated bronze bearings, has three-handed feed for ease of operation.

**D. Lightweight Stand**—tough, aircraft alum-

inum post is lightweight, yet strong. Pound for pound, BUX stand is most powerful.

**E. "Power Channel" Bases**—all units have rectangular two-coil bases for greater holding power, especially on thin work, rounds and irregular shaped pieces. These BUX bases are available in three sizes — small rectangular, medium rectangular and large rectangular. All of these high powered magnetic bases attach with tremendous force to steel surfaces, in any position — even vertical or overhead. Each is constructed with cooling fins that allow rapid cooling, provide longer life and less breakdown of magnetic energy.

**F. Medium and Large Size Units**—travel on medium and large size units is 10 $\frac{3}{4}$ " for greater accuracy on all work as well as increasing "hole depth" capacity. Small rectangular model has 6" of travel.

**G. Lower Ratio Rack and Pinion Feeds** — assure greater mechanical advantages with more pressure delivered to the drill point. Will drill holes faster with less operator fatigue.

**H. Positive Depth Gage** — large, easy-to-read scale can be marked to measure holes of desired depth. No slipping possible, no rule needed.

**Fast Action Positioner** — one-fourth turn of oversize operating handle releases drill stand to rotate 330° with up to  $\frac{7}{8}$ " lateral movement. No tedious adjustments—simply place drill point over center-punch mark, tighten handle and start to drill. The lightweight, small rectangular model is supplied without the positioner.

**Four Chucks or Spindles Available** —  $\frac{1}{2}$ " and  $\frac{3}{4}$ " Chucks, No. 3 M.T. Spindle, and No. 3 M.T. Internal Socket.

**Six-foot Safety Chain** — acts as a precaution against operator losing control of unit while positioning or from possible power failure during operation.

**Removeable Access Panel** — makes minor repairs and adjustment a simple operation — no longer requires removal of base when adjustments are necessary and facilitates the removal of the rectifier or other components.

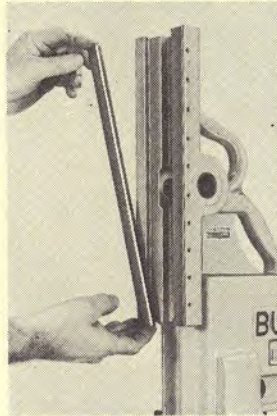
**Gib Adjustment** — a row of Allen head adjustment screws assures tight fit of the slide against the wear strips. Slack caused by wear can be eliminated by merely tightening the adjustment screws.

**$\frac{7}{8}$ " Lateral Movement; 330° Radial Movement** — with the BUX precision engineered base, you get positive mechanical action — no "partial magnetism". BUX exclusive radial positioner assures fast, accurate alignment of BUX portable magnetic drill stands. The magnetic base remains stationary, safely holding unit to the work. A fast,  $\frac{1}{4}$  turn of the mechanical locking handle releases drill stand for 330° radial positioning and up to  $\frac{7}{8}$ " lateral movement is also provided, assuring positive, precision positioning.

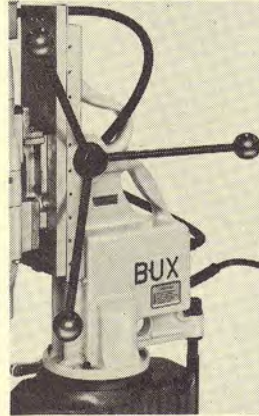
**Electrical Components** of stands are double insulated to provide additional operator safety.



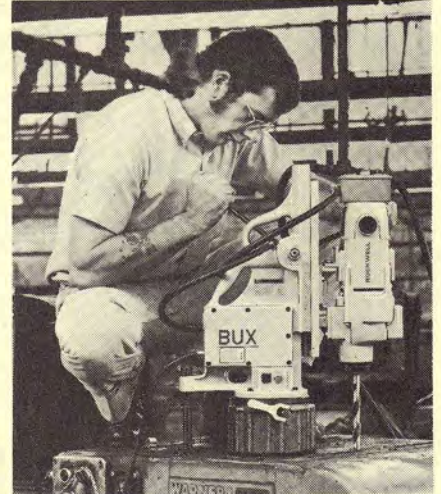
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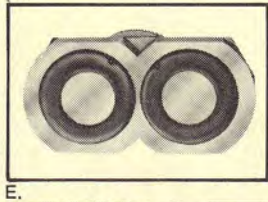
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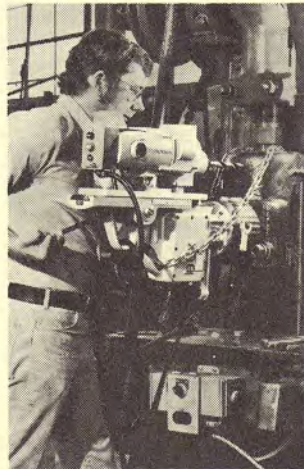
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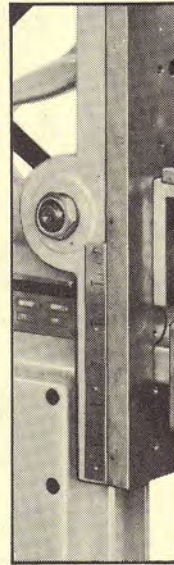
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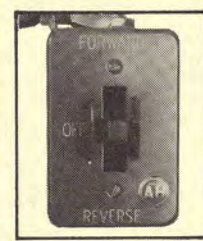
G.



H.

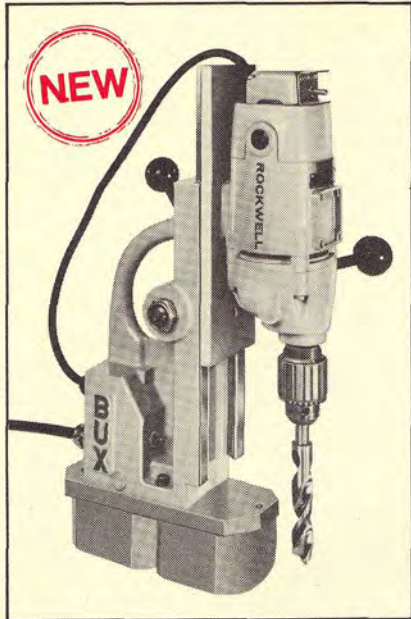


**Stabilizer Leg**—adjustable stabilizer leg moves pivot point rearward and increases mechanical advantage — more drill point pressure. Leg is not supplied on small rectangular base model.



**Heavy-Duty, Lever-Action Switch**—the four larger BUX units come equipped with a 3-pole, on-off reversing switch that features an interlock to prevent accidental reversing.

# ROCKWELL BUX PORTABLE MAGNETIC DRILLS



## MODEL 77778 (old 14899)

### Rockwell Bux Portable Magnetic Drill Press (Small Rectangular Base)

If you were told there was a truly portable  $\frac{1}{2}$ " geared head drilling machine available, would you be interested? There is, and ROCKWELL has it. This powerful, rugged yet lightweight machine enables you to do big capacity drilling on the job site. Its big 1800 pound holding pressure magnetic base makes precision drilling, tapping or reaming in confined areas possible. Now you don't need to dismantle your large machines or have them out of commission for days to make repairs—bring in the "Bux" and do it in minutes.

#### FEATURES

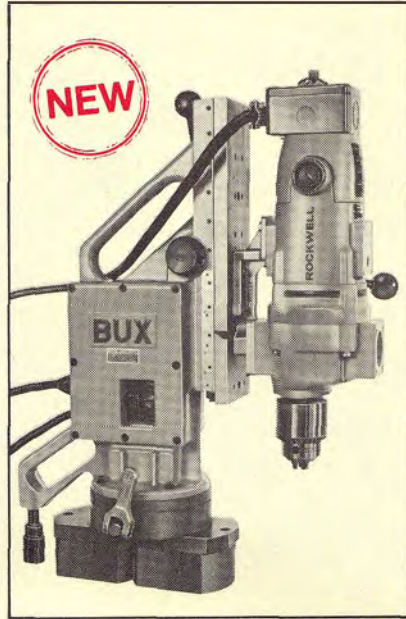
Powerful 6.5 Amp Motor •  $\frac{1}{2}$ " Drilling Capacity in Steel • Full 16 Amp Forward-Off-Reverse Toggle Switch • Low Profile Design—Only  $14\frac{1}{2}$ " • Full Power in Reverse • Power Channel Construction

#### SPECIFICATIONS

Model No.	77778
Base Size	7" x $3\frac{1}{2}$ " Small Rectangular
Motor	No. 77767—6.5 Amp, Universal Type, 115 Volt, 25-60 Hertz, AC-DC
Capacity	Drill $\frac{1}{2}$ " in Steel; Tap $\frac{1}{2}$ "—20
Drill Travel	6"
Tool Holding Capability	$\frac{1}{2}$ " Tang Drive Chuck
No Load Speed (RPM)	500
Load Speed (RPM)	330
Stand Dimensions	Height $14\frac{1}{2}$ " Width $3\frac{1}{2}$ ", Length 7"
* Drill Point Pressure	900 Lbs. on 1" Steel Plate
Net Weight (Stand Only)	27 Lbs.
Weight—Combination Drill and Stand	34 Lbs.

\*Pressure calculated on 1" Steel Plate. Thinner material and cast iron provide less holding power.

Duty Rating: For Extended Service on Industry and Construction Trades Applications.



## MODEL 77783

### Rockwell Bux Portable Magnetic Drill Press (Medium Rectangular Radial Position Base)

If the job calls for drilling up to  $\frac{3}{4}$ " holes in steel, in an almost impossible position, this unit with only 25 inches of clearance can squeeze into the tight space and do a precision job. Even if it's hanging on upside down or attached vertically to an irregularly shaped surface the ROCKWELL Bux performs with accuracy and precision by virtue of its powerful magnet and its fast action positioner. Why take the job to the drill—bring the drill to the job.

#### FEATURES

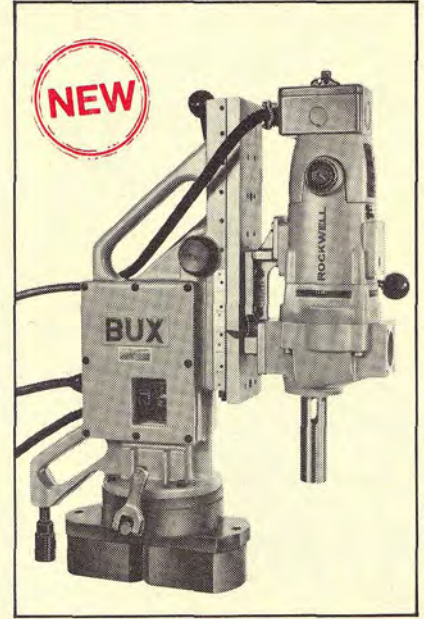
Fast Action Positioner • Adjustable Stabilizer Leg • Powerful 12 Amp Motor • Full Power in Reverse •  $\frac{3}{4}$ " Geared Chuck • Power Channel Construction • Reversing—Off-On Switch

#### SPECIFICATIONS

Model No.	77783
Base Size	9 $\frac{3}{4}$ " x 4", Medium Rectangular Radial Position
Motor	No. 77750—12 Amp, Universal Type, 115 Volt, 25-60 Hertz, AC-DC
Capacity	Drill $1\frac{1}{16}$ " in Steel; Tap $\frac{3}{4}$ "—16
Drill Travel	10 $\frac{3}{4}$ "
Tool Holding Capability	$\frac{3}{4}$ " Geared Chuck
No Load Speed (RPM)	400
Load Speed (RPM)	270
Stand Dimensions	Height $24\frac{1}{4}$ " Width $6\frac{1}{16}$ ", Length $7\frac{1}{16}$ "
* Drill Point Pressure	1200 Lbs.
Net Weight (Stand Only)	58 Lbs.

\*Pressure calculated on 1" Steel Plate. Thinner material and cast iron provide less holding power.

Duty Rating: For Extended Service on Industry and Construction Trades Applications.



## MODEL 77787

### Rockwell Bux Portable Magnetic Drill Press (Medium Rectangular Radial Position Base)

Here is a unit that will provide adequate torque for drilling through hard alloy steels. We have added a No. 3 morse taper spindle to deliver a positive non-slip drive. This, combined with our powerful 12 amp motor and a powerful magnetic base will do an accurate drilling or tapping job at your job site.

#### FEATURES

No. 3 Morse Taper Spindle • Powerful 12 Amp Motor • Adjustable Stabilizer leg • Fast Action Positioner • Power Channel Construction • On-Off-Reversing Switch • Positive Depth Gage •  $10\frac{3}{4}$ " Drill Travel • Powerful Magnetic Base • Removable Access Panel

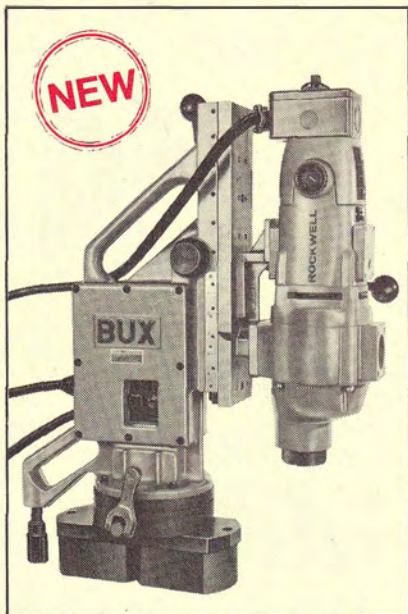
#### SPECIFICATIONS

Model No.	77787
Base Size	9 $\frac{3}{4}$ " x 4", Medium Rectangular Radial Position
Motor	No. 77751—12 Amp, Universal Type, 115 Volt, 25-60 Hertz, AC-DC
No Load Speed (RPM)	400
Load Speed (RPM)	270
Capacity	Drill $1\frac{1}{16}$ " in Steel; Tap $\frac{3}{4}$ "—16
Drill Travel	10 $\frac{3}{4}$ "
Tool Holding Capability	No. 3 Morse Taper Spindle
Stand Dimensions	Height $24\frac{1}{4}$ " Width $6\frac{1}{16}$ ", Length $7\frac{1}{16}$ "

\*Drill Point Pressure 1200 Lbs.  
Net Weight (Stand Only) 58 Lbs.  
Weight—Combination  
Drill and Stand 76 Lbs.  
\*Pressure calculated on 1" Steel Plate. Thinner material and cast iron provide less holding power.

Duty Rating: For Extended Service on Industry and Construction Trades Applications.

For additional models, see Page 4.



## MODEL 77791

**Rockwell Bux  
Portable Magnetic Drill Press  
(Medium Rectangular, Radial  
Position Base)**

High torque and raw power are two features which best describe this versatile unit. Its full 15 amp motor, its 150 RPM speed under load, and its No. 3 morse taper internal socket provide the torque to muscle 1 1/2" holes through steel. These capabilities together with the extra versatility made possible by the powerful magnetic base make this unit suitable for any extra heavy-duty application — anywhere you need it!

### FEATURES

No. 3 Internal Morse Taper Socket • powerful 15 Amp Motor • Fast Action Positioner • Adjustable Stabilizer Leg • Push Button On-Off-Reversing Switch • Positive Depth Gage • 10 3/4" Drill Travel • Power Channel Construction

### SPECIFICATIONS

Model No. .... 77791  
 Base Size ..... 9 3/4" x 4", Medium Rectangular Radial Position  
 Motor .... No. 77752—15 Amp, Universal Type, 115 Volt, 25-60 Hertz, AC-DC  
 No Load Speed (RPM) ..... 250  
 Load Speed (RPM) ..... 150  
 Capacity ..... Drill 1 1/2" in Steel; Tap 1 1/8"—12  
 Drill Travel ..... 10 3/4"  
 Tool Holding Capability ... No. 3 Internal Morse Taper Socket  
 Stand Dimensions ..... Height 24 1/4", Width 6 1/16", Length 7 3/16"  
 \*Drill Point Pressure ..... 1200 Lbs.  
 Net Weight (Stand Only) ..... 58 Lbs.  
 Weight—Combination Drill and Stand ..... 76 Lbs.  
 \*Pressure calculated on 1" Steel Plate. Thinner material and cast iron provide less holding power.

**Duty Rating:** For Extended Service on Industry and Construction Trades Applications.



## MODEL 77795

**Rockwell Bux  
Portable Magnetic Drill Press  
(Large Rectangular, Radial  
Position Base)**

The ultimate in versatility! This extra powerful 15 amp ROCKWELL Bux Magnetic Drill boasts a 1800 pound drill point pressure, a two speed gear box and a No. 3 internal morse taper socket. Its powerful, extra large magnetic base attaches to steel surfaces horizontally, vertically or overhead while giving accuracy and capacities usually only possible on stationary drill presses. Essentially, the Model 77795 ROCKWELL Bux is a 1 1/2", No. 3 morse taper internal socket, 2-speed, geared head drilling machine with more than adequate power, full power in reverse, a truly portable machine that permits set-up at your job site in any position.

### SPECIFICATIONS

Model No. .... 77795  
 Base Size ..... 10" x 4 3/4", Large Rectangular Radial Position  
 Motor .... No. 77753—15 Amp, Universal Type, 2-Speed, 115 Volt, 25-60 Hertz, AC-DC  
 No Load Speed (RPM) .. Hi—500; Lo—250  
 Load Speed (RPM) ... Hi—275; Lo—150  
 Capacity ..... Drill 1 1/2" in Steel; Tap 1 1/8"—12  
 Drill Travel ..... 10 3/4"  
 Tool Holding Capability ... No. 3 Internal Morse Taper Socket  
 Stand Dimensions ..... Height 24 1/4", Width 7 7/16", Length 8 3/16"  
 \*Drill Point Pressure ..... 1800 Lbs.  
 Net Weight (Stand Only) ..... 63 Lbs.  
 Weight—Combination Drill and Stand ..... 86 Lbs.  
 \*Pressure calculated on 1" Steel Plate. Thinner material and cast iron provide less holding power.

**Duty Rating:** For Extended Service on Industry and Construction Trades Applications.

## ACCESSORIES FOR MORSE TAPER DRILLS

No. 57091 Arbor, No. 3 M.T. to Jacobs Taper.

No. 57092 Arbor, No. 2 M.T. to Jacobs Taper.

No. 58006 Jacobs 3/4" Geared Chuck. With key.

**Versatile,  
Dependable  
Rockwell Bux  
Drills  
save time  
and money  
for many  
industrial users!**

- Air-Frame Manufacturing
- Automation Equipment Manufacturers
  - Automotive
- Conveyor and Material Handling Equipment
- General Metal Fabrication
- Electrical Contractors
  - Foundries
  - Plant Maintenance
- Heavy Construction Equipment
- Machinery Manufacturing
- Ship-Building and Repair
  - Tool and Die Shops
  - Repair Shops
- Structural Steel Construction and Maintenance
  - Machinery Re-Building
- Railroad-Original Equipment and Maintenance
- Truck-Trailer Manufacturing
  - Utilities



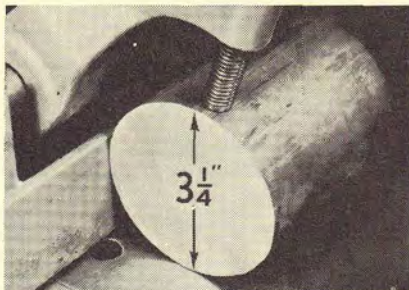
# **ROCKWELL** **12" CUT-OFF MACHINES**

Now! You can modernize your method of doing dry or wet abrasive cutting  
or the cutting of non-ferrous metals and wood.  
With Rockwell Delta Cut-Off Saws you cut off better than with power hack saws,  
band saws, lathes, grinders or torches.  
Let us "Performance-Prove" one of the four "cost-saving" models for you today!

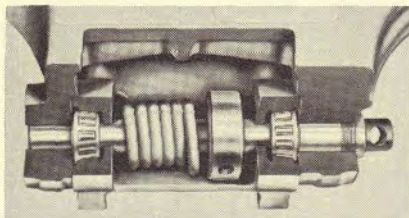
**CUT FASTER!**  
**CUT SMOOTHER!**  
**CUT COSTS!**



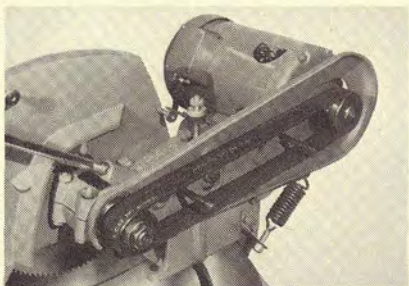
## QUALITY FEATURES THAT SAVE PRODUCTION TIME AND PROMOTE OPERATING ECONOMY



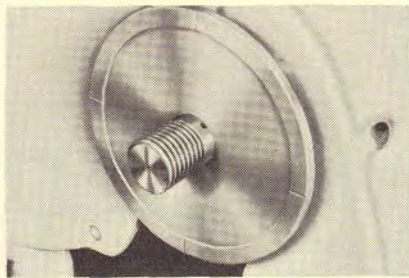
**Extra Large Capacity**—You get these BIG capacities with the Rockwell Delta 12" Cut-Off Machine: wood and plastics—2 x 8"; non-ferrous tubing and solid round bars—3 1/4"; ferrous tubing—3 1/4" and solid round bars 1020 steel—1 1/2"; angles—3 x 3"; channels—4". These are verified capacities which can be maintained at a production rate using a 5 HP motor (3 HP for wood, plastic, and thin-walled non-ferrous tubing). No machine limited to 2, 3, or 3 1/2" HP can match this performance.



**Tapered Bearings Assure Precision Accuracy**—Pivot shaft is mounted on rigid, widely spaced Timken Tapered Roller Bearings. Selected for their adjustability, these bearings eliminate all play and assure perfect cutting accuracy. Torsion spring on pivot shaft adjusts in either direction to counter-balance motor. This provides correct, light feed pressure, assuring ease of operation.



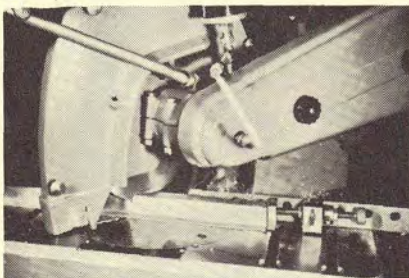
**Full, Even Power Transmission**—Triple, matched, V-belt Drive utilizes the full power of the motor, eliminates transmission of any vibration from motor to cutting wheel. Dynamically balanced motor and arbor pulleys have V-grooved diameters concentric with center hole for long life and smooth running. Mitering never disturbs belt alignment.



**Heavy Duty 1" Arbor**—Precision ground, the husky 1" arbor is supported by extra large, pre-loaded, lubricated-for-life ball bearings that are mounted in Delta's Unique Cartridge Assembly. Pre-loading of bearings by means of steel sleeves for the inner and outer races removes all play and guarantees accuracy and long life with minimum vibration. Notice the port hole and slotted wheel flange, part of the coolant system for non-ferrous cutting.

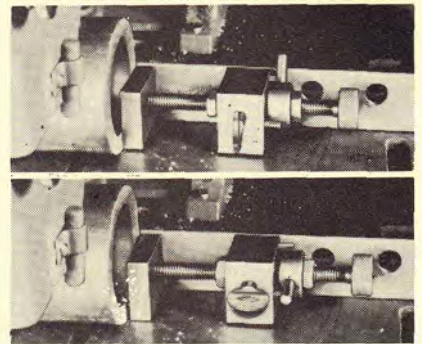


**Exclusive Hollow Arbor Spray Coolant**—Only Rockwell Delta Cut-Off Machines offer this patented feature which makes cutting of non-ferrous metals a simple operation. Oil drips from reservoir and enters hollow blade arbor. Then it flows from two staggered port holes, 180° apart but not in line, to lubricate both sides of the blade. The fan action of the blade throws a mist of oil on the work piece, preventing the development of heat and greatly increasing the cutting performance and life of the saw blade.

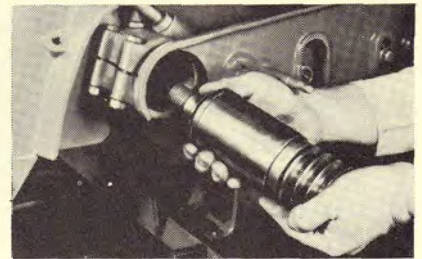


**"Swinging Arbor" for Mitering**—The complete Cut-Off Machine Arbor and Work Head swivels as one unit through a 90° arc. This means that work always moves in a straight line across the table, eliminating awkward swinging of stock when mitering. Double calibrated scale permits direct reading for miter cuts from 0° to 45°, right and left.

**Safety Engineered Throughout**—The specially designed wheel guard complies with ASA safety standards. Although it lifts up to permit front loading of stock, a "nose" drops to the table in front of the work to protect the operator during actual cutting.



**Exclusive Retractable Size Gage**—Accurately and quickly gages stock in lengths from 0 to 14". When finger is in "up" position (see top illustration), work is held against stop block. When finger is switched to "down" position, stock block moves slightly away. This avoids pinching of wheel as work piece expands due to cutting friction of abrasive wheel.



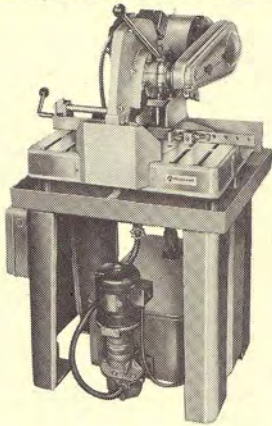
**Exclusive Replaceable Arbor**—Rockwell Delta Cut-Off machines incorporate in their arbor design a proven special Cartridge Assembly. When necessary, this assembly can be replaced in minutes, practically eliminating down time. The assembly contains Delta's Five Famous Quality Features—lubricated-for-life ball bearings, precision bored bearing seats, pre-loaded bearings, precision ground arbor and dynamically balanced pulley. Assembly also is sealed against dirt and full flood of water.

## QUALITY EXTRAS

- Table has a BIG 11 x 27" working surface with four pairs of parallel T-slots for easy clamping of work.
- Motor mounts on and swings with arbor bracket to maintain belt alignment and tension throughout cutting arc.
- Arbor bracket support has hollow construction to form dust spout at rear. "Soup dish" guard under table forms second dust spout.
- Retractable size gage has screw adjustment greater than center of holes in fence.
- Rugged work clamp is double action (push or pull), cam type with "Universal" 3-position clamp.
- Air cylinder feeds, hydraulic check cylinders, air-mist coolant attachments, air clamps, and other automation devices may be easily attached for labor saving and quality control on high production work.

**Dry Abrasive Cut-Off Machine**—Excellent for cutting steel (stainless, high speed, tool, etc.), wire rope, angle iron, iron pipe, ceramics, Tobin bronze, and many other hard materials. Cuts a square inch of steel in less than four seconds.

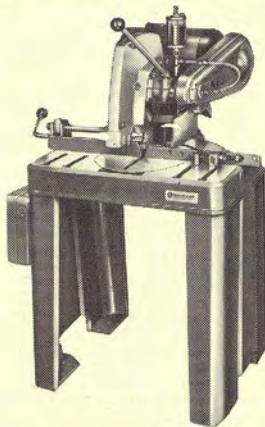
For Accessory Dust Collector and Attachment Package, See Section "D".



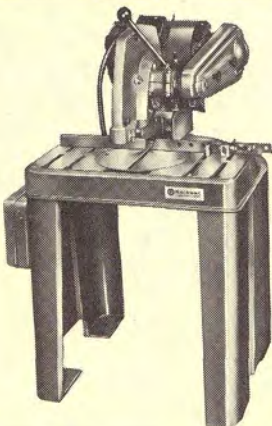
**Wet Abrasive Cut-Off Machine**—Provides for a full flow of coolant on the work. Used on the same hard materials handled on the Dry Abrasive Cut-Off Machine. Sacrifices speed for smooth cutting with minimum burr, long wheel life.

For Accessory Coolant Pump and Tank, See Section "D".

**Non-Ferrous Cut-Off Machine**—Same as No. 20-220, except with accessory 20-832 Coolant Attachment. Ideal for cutting aluminum, plastics, mica, etc. Patented coolant attachment assures an extremely fast, accurate cut with burr-free "polished smoothness" on all non-ferrous metals.



**Wood Cut-Off Machine**—(Order Nos. 20-100, 50-399, 49-289, 41-637, plus electricals desired)—For handling all materials sawed with conventional wood cutting blades. Specially designed guard permits front loading of long stock. For high production cut off and mitering. Cuts off a 2 x 8" plank in less than one second.



## For Dry and Wet Abrasive Cutting and for Cutting Non-Ferrous Metals and Wood

If you have the problem of cutting off materials to proper length, in your small shop or your large industrial plant, Rockwell Delta 12" Cut-Off Machines will do a faster, more accurate and smoother job than any other cut-off method.

Here's why—the BIG 3¼" capacity makes this machine ideal for doing hundreds of jobs... the extra powerful motors assure maintained cutting speeds, even on the heaviest cuts... the unmatched combination of Delta Quality Features guarantees quick, accurate cutting of practically any material.

In metalworking shops this method is replacing hand and power type hack saws, vertical and horizontal band saws, acetylene torches, presses, shears, lathes, screw machines, mills, grinders and similar equipment. Where cutting of non-ferrous metals, wood, plastic and allied materials is necessary, the Cut-Off Method is replacing hand, portable, band, circular and radial saws.

If you want increased production, improved quality and lowered costs, replace your present cutting off set-up with a modern Rockwell Delta Cut-Off Machine.

### MACHINE DATA

#### Overall Dimensions (With Legs):

Width . . . . . 35" (889 mm); Front to Rear . . . . . 35" (889 mm)  
Height . . . . . 50" (1270 mm)

#### Capacities (For 90° Cutting):

Wood and Plastic . . . . . 2 x 8" (50.8 x 203.2 mm)  
Non-Ferrous Metals (With Saw Blade):  
Tubing (Maximum Diameter) . . . . . 3¼" (82.55 mm)  
Solid Round Bar (Maximum Diameter) . . . . . 3¼" (82.55 mm)  
Ferrous Metals (With Abrasive Wheel):  
Tubing (Maximum Diameter) . . . . . 3¼" (82.55 mm)  
Solid Round Bar 1020 Steel  
(Maximum Diameter) . . . . . 1½" (38.1 mm)  
Angles . . . . . 3 x 3" (76.2 x 76.2 mm)  
Channels . . . . . 4" (101.6 mm)

#### Speeds:

With 3450 RPM Motor and 3" Motor Pulley:  
Arbor Speed, RPM . . . . . 4,000  
Rim of 12" (304.3 mm) Blade or  
Wheel, SF/M. . . . . 12,600 (3,840; 480 Surf. MM/Min.)

**Blade or Wheel Diameter (Maximum)** . . . . . 12" (304.3 mm)

**Arbor Hole** . . . . . 1" (25.4 mm)

**Wheel Flanges, Diameter** . . . . . 3½" (88.9 mm) and 5" (127 mm)

**Miters (Swinging Arbor)** . . . . . 45° Left and 45° Right

#### Table:

Working Surface  
in Front of Fence . . . . . 11 x 27" (279.4 x 685.8 mm)  
Height (Without Coolant Pan) . . . . . 32" (812.8 mm)  
Height (With Coolant Pan) . . . . . 36" (914.4 mm)  
Has Four Pairs of Parallel T-Slots and  
Double Calibrated Miter Scale.

#### Motor:

Mounting Plate Accommodates  
NEMA Frame Motors 213, 215, 182T and 184T

### STANDARD EQUIPMENT

**All Models** include wheel guard, belt guard, fence with size gauge, 3½" wheel flanges and 5" wheel flanges with coolant slots.

### CATALOG LISTING

**No. 20-100 12" Cut-Off Machine.** Includes wheel guard, belt guard, fence with size gauge, 3½" wheel flanges, and 5" wheel flanges with coolant slots. 278 lbs.

Continued on next page

# ROCKWELL 12" CUT-OFF MACHINES

## CATALOG LISTING—Continued

**No. 20-220 12" Cut-Off Machine for Dry Abrasive Cutting (With Legs).** Same as No. 20-100 except with No. 50-399 pair of steel legs 27½" high, No. 20-801 clamp fixture, No. 49-289 (old 289) (set of 3) 46¼" OC V-belts, and No. 41-637 3" 3-belt motor pulley 1½" bore with ¼" keyway. Without abrasive wheel, motor and switch. 390 lbs.

**No. 20-222 12" Cut-Off Machine for Wet Abrasive Cutting (With Legs).** Same as No. 20-100 except with No. 50-399 pair of steel legs 27½" high, No. 20-801 clamp fixture, No. 49-289 (old 289) (set of 3) 46¼" OC V-belts, No. 41-637 3" 3-belt motor pulley 1½" bore with ¼" keyway, and No. 20-840 coolant pan. Without abrasive wheel, motor and switch. 433 lbs.

## WORK HEAD AND GUARDS FOR BUILDING SPECIAL PURPOSE MACHINES

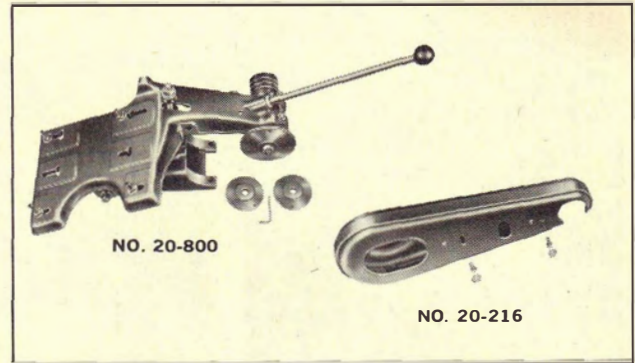
This work head is used on all Rockwell Delta Cut-Off Machines. It is also offered as a separate unit for those users who wish to design a special-purpose cut-off machine to meet their needs.

### MOTORS AND CONTROLS (Factory Mounted and Wired)

(For general purpose applications, 5 HP is recommended; use 3 HP for saw blade cutting of wood, plastic and thin-wall non-ferrous tubing only.)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT.. LBS.	CATALOG NUMBER	CAT. NO. 200V
Single Phase, 3 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60—3450	115/230	133	52-005	
Three Phase, 3 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60—3450	230/460	116	52-008	52-196
Three Phase, 5 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60—3450	230/460	126	52-011	52-199

**NOTE:** Single phase electricals will be supplied wired for 230 V only. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug not supplied. Motors and Motor Controls for Rockwell Delta 12" Cut-Off Machines may be ordered unmounted.



**No. 20-800 Work Head,** including ball bearing arbor assembly, 2 11/16" 3-belt arbor pulley, 3 1/2" and 5" wheel flanges, feed handle, motor mounting plate, pivot shaft with Timken roller bearings and adjustable torsion spring, adjustable rubber stops and base casting. Motor and controls are not supplied factory mounted on Work Head. 79 lbs.

**No. 20-802 Blade Guard,** complete with lifting spring and mounting parts. 33 lbs.

**No. 20-216 Guard for Belts and Pulleys,** complete with mounting bolts. 26 lbs.

## ROCKWELL QUALITY ACCESSORIES THAT INCREASE THE VALUE OF THE 12" CUT-OFF MACHINE

**No. 20-817 Abrasive Wheel** for dry cutting, general purpose, for soft and hard steel and hard bronze, 3/32" x 12" dia. with 1" hole. 1 1/4 lbs.

**No. 20-819 Abrasive Wheel** for dry cutting, used for long wheel life where burr is permissible. For all steels and hard bronze, 3/32" x 12" dia. with 1" hole. 2 lbs.

**No. 20-820 Abrasive Wheel** for dry cutting, used where maximum freedom from burr is more important than long wheel life. For thin steel tubing and molding. 3/32" x 12" dia. with 1" hole. 2 lbs.

**No. 20-846 Saw Blade** for non-ferrous metal, 12" dia., 3/32" thick x 1" hole, 100 teeth, for cutting large solids. 2 lbs.

**No. 20-847 Saw Blade** for non-ferrous metal, 12" dia., 3/32" thick x 1" hole, 150 teeth, best general purpose blade. 3 lbs.

**No. 20-848 Saw Blade,** same as 20-847 except high speed steel, hard rim. 2 lbs.

**No. 20-849 Saw Blade** for non-ferrous metal, 12" dia., 3/32" thick x 1" hole, 200 teeth, for cutting thin wall tubing. 2 lbs.

**No. 33-197 Saw Blade** for wood, 12" dia. x 1" hole, combination type. 1 1/2 lbs.

**No. 33-246 Saw Blade** for wood, 12" dia. x 1" hole, cross cut type. 2 lbs.

**No. 34-842 Saw Blade** for wood and plastic, 12" dia. x 1 1/8"

hole (with bushing to fit 1" arbor), 24 carbide-tipped teeth, combination type. 4 lbs.

**No. 20-801 Clamp Fixture.** 19 lbs.

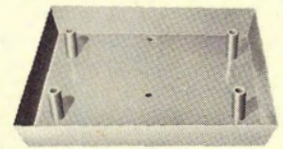
**No. 20-832 Coolant Attachment,** for non-ferrous metal. Includes sight gravity feed oiler, mounting post, coolant line, nozzle and fittings. 3 1/2 lbs.

### COOLANT PAN FOR ROCKWELL CUT-OFF MACHINES

**The Coolant Pan,** used with 16-Gallon Coolant System, is recommended for your Rockwell Delta Cut-Off Machine for efficient wet abrasive cutting.

Order the proper 1/4 HP pump, 16-gallon tank and switch. This ruggedly constructed Coolant Pan features a nozzle that swivels by means of a convenient handle to allow for a full flow of coolant on the blade, even when making miter cuts.

**No. 20-840 Coolant Pan** complete with spray nozzle, splash control accessories, deflector plate and bracket. Piping, control valve and reducer from 3/4 to 1/2" not furnished. 50 lbs.



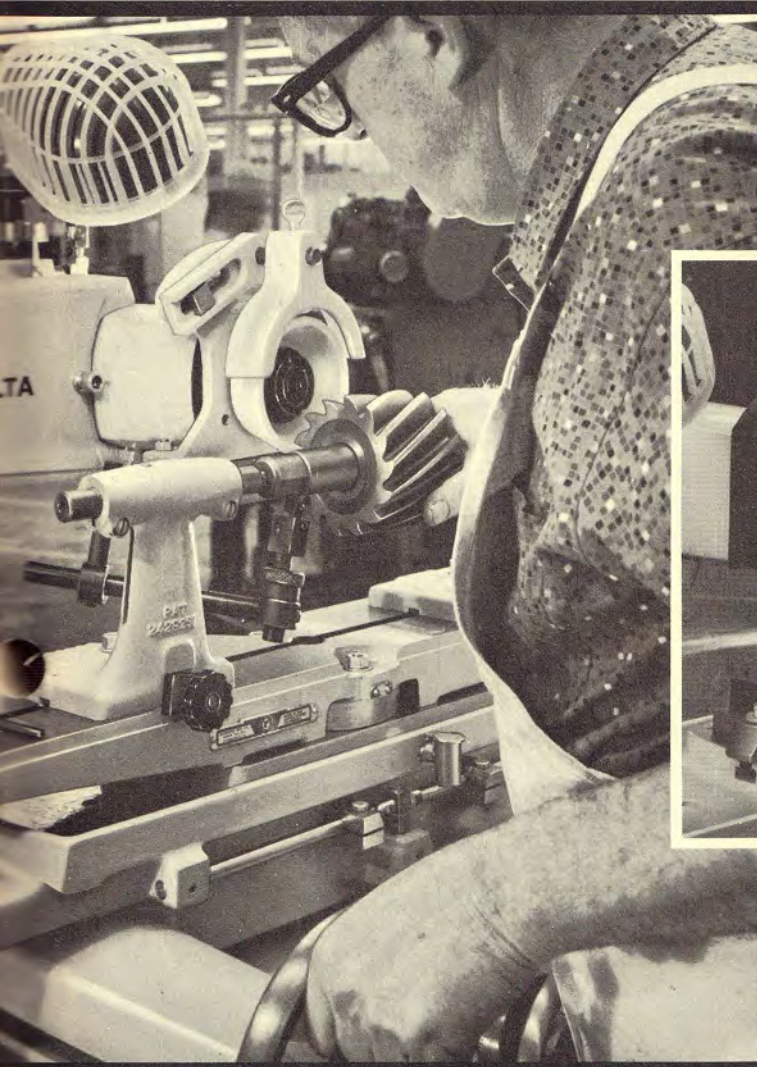
**No. 49-289 (old 289) V-belts** (matched set of 3), 46 1/8" OC, for 3" motor pulley. 1 1/2 lbs.

**No. 41-637 Motor Pulley,** 3", 3-belt type, 1 1/8" bore with 1/4" keyway. 3 lbs.

**No. 50-399 Legs,** steel, one pair, 27 1/2" high. 100 lbs.

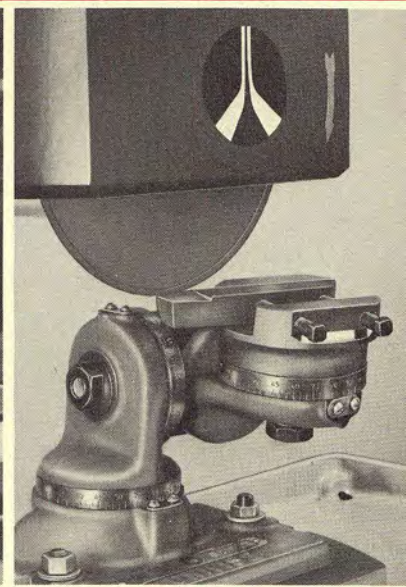
**NOTE:** For Dust Collector recommended for all dry abrasive cutting and for coolant Pump for wet cutting, see Section "D".

# ROCKWELL TOOLMAKER\* GRINDERS



**“A Family of 3 Machines!”**

**Rockwell Delta Single Point Tool Grinder . . .** grinds carbide-tipped, high-speed steel or alloy steel single-point cutting tools. Especially recommended for grinding chip-breaker grooves.



**Rockwell-Delta Surface Grinder . . .** produces a 20 RMS finish or better to handle practically all surface grinding requirements in the average shop.

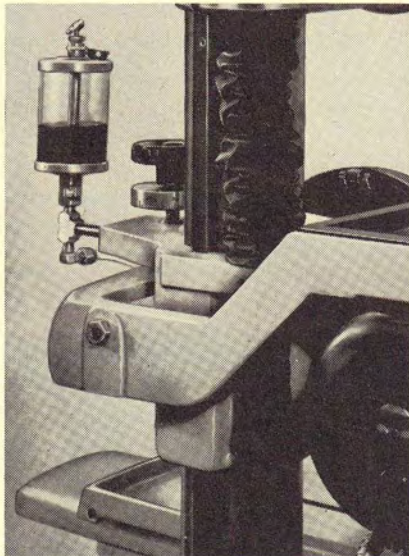
**Rockwell-Delta Tool and Cutter Grinder . . .** an excellent unit for sharpening mills, reamers, saws blades and other multiple-point cutting tools.

## **Only Rockwell TOOLMAKER Grinders offer all these exclusives:**

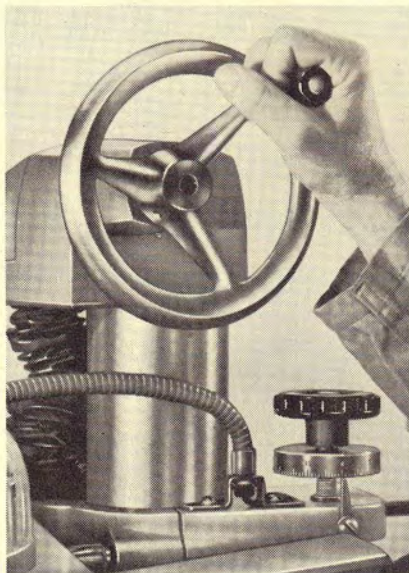
\*Trademark

- **Widest** speed range available—3300, 3700 and 5600 RPM—to handle any grinding job.
- **Unique** 360° rotation of head and spindle for *correct* tool and cutter grinding.
- **Exclusive** “Center Mist” Coolant Attachment for cooler, more efficient grinding with longer wheel life.
- **Preferred** Teflon-lined V and flat ways on table for long life and effortless feed.
- **Plus** many additional Rockwell engineered extras!

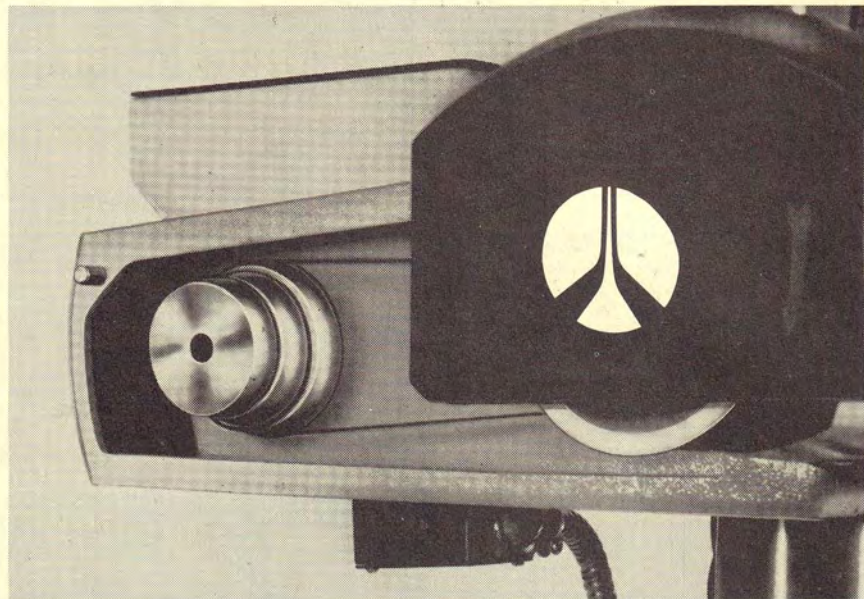
## ROCKWELL QUALITY FEATURES ASSURE PRECISION GRINDING AND SHARPENING



**Safety and Convenience Features**—Both the elevating and cross feed screws are completely enclosed by a protective sleeve to keep out harmful abrasive dust. The totally enclosed motor is mounted upside down, providing a handy tray for wrenches, indicators and work pieces. Efficient Coolant Attachment provides just the right amount of coolant to keep diamond wheels cool for chip-breaker grinding.

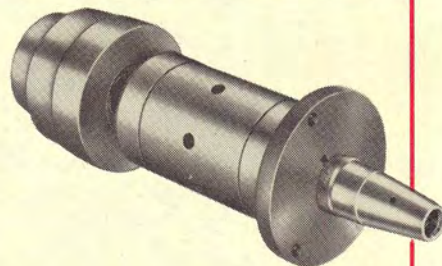


**Quick Operating Hand Wheel; Precision Down Feed Control**—Large hand wheel facilitates rapid, vertical travel of head for rough settings while Micrometer Down Feed Knob (with no back lash) permits fine settings. Extra large micrometer collar is easy to read, graduated in .0005", and has "slip" feature for zero start reading.

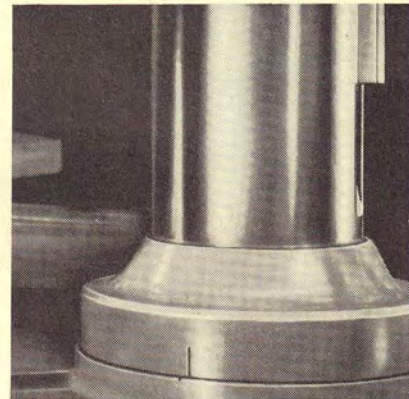


**Exclusive Three-Speed Range**—Unlike other machines, these grinders provide matched three-step cone pulleys with a flat belt drive to the spindle. You get these benefits: Three spindle speeds—3300, 3700 and 5600 RPM—the right SFPM for the different diameters of straight, dish and cup wheels. The flat belt drive assures vibration-free spindle operation.

**Heavy Duty, Ball Bearing Spindle**—The massive spindle, which is carefully ground and balanced, is mounted on preloaded, duplex, precision ball bearings to assure high quality grinding year after year. Sealed bearing construction protects the spindle from abrasive dust and prevents coolant from washing lubricant out of the bearing.

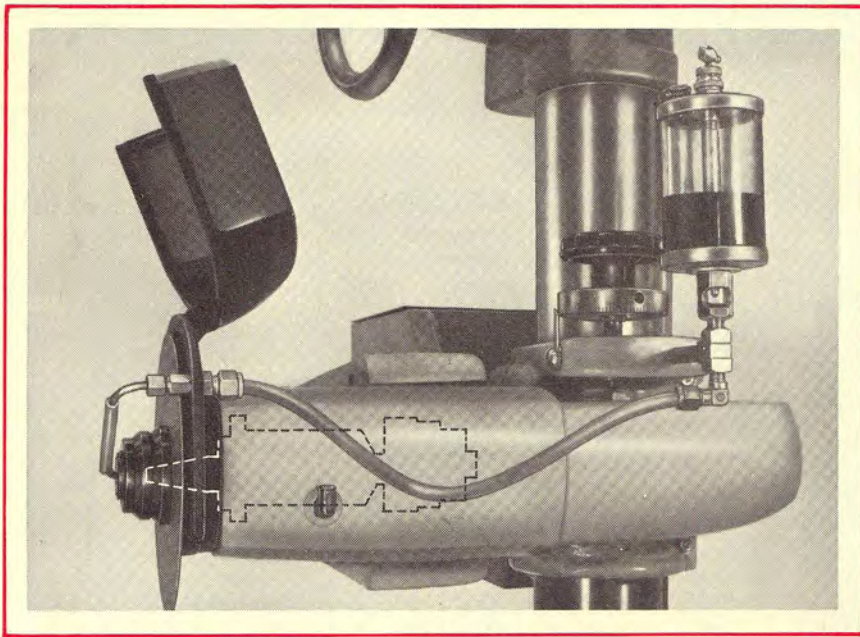


**Time and Money-Saving Wheel Adapters**—Rockwell makes available interchangeable, taper mounted wheel adapters which fit snugly on the ground, tapered spindle. These adapters save time and money because once a wheel is mounted and dressed, it can be removed, then mounted *without* resetting or redressing—especially important where diamond wheels are used.

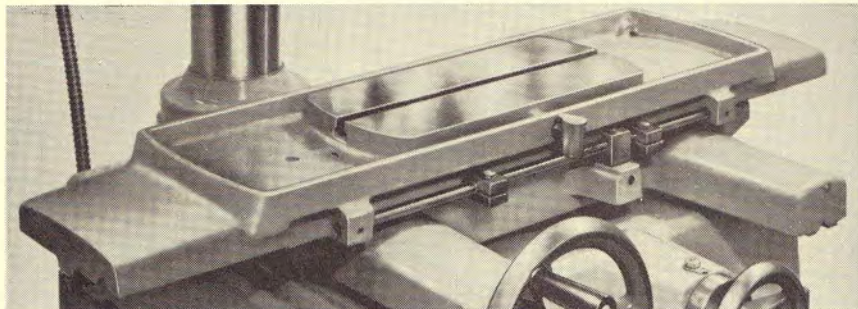


**Unique Rotation of Head and Spindle**—Toolmaker's use of a round column, versus competitive A-frame construction, gives it a versatility and ease of set-up not available with other grinders. This is true because the column, with work head and spindle, can be rotated away from the normal "zero" position as shown by the witness marks. It is easy to provide wheel clearance for tool and cutter grinding, and the work head can even be rotated a full 360° for special jobs.

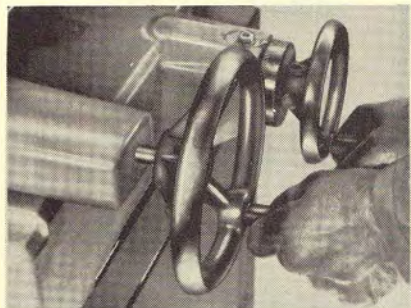
# ROCKWELL TOOLMAKER GRINDERS



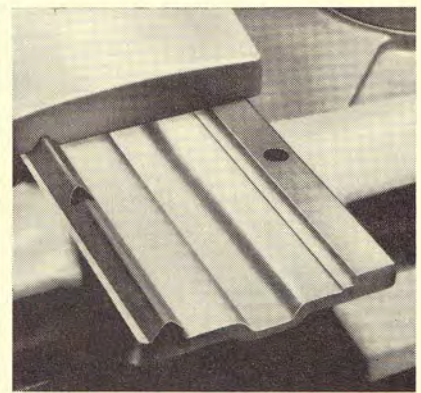
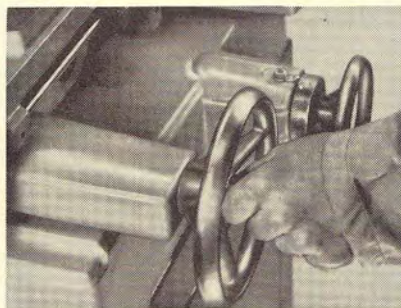
**Unique "Center Mist" Coolant**—Only Rockwell offers this "center mist" coolant attachment developed especially for chip-breaker grinding with diamond wheels. It improves surface grinding quality, too. Coolant drips from reservoir through tube and enters hollow spindle. Then, it flows out through two staggered port holes, 180° apart. Wheel flanges, recessed in the center with grooves extending to the outer rims, carry the coolant down both sides as well as through the porous wheel. The fan action of the wheel breaks the coolant down into a fine mist which cools the work *exactly at the point of grinding*, much better than coolants sprayed or flooded onto the general grinding area.



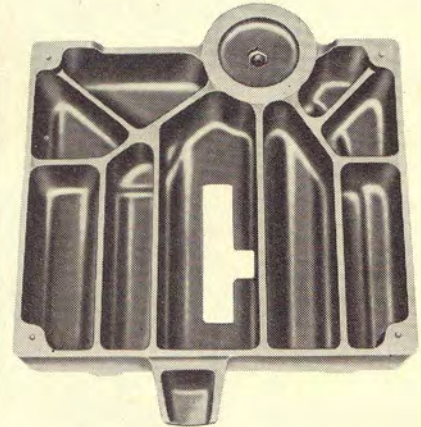
**Many-Purpose Table**—Has a 5 $\frac{3}{4}$ " x 13" surface, finish ground by its own spindle to within 16 microinches. Designed with T-slot to facilitate clamping of work or the mounting of work-holding fixtures. Coolant trough permits wet or dry grinding (side and end shields can easily be added for wet grinding). Adjustable, spring-loaded stops act as cushion . . . are especially suited for tool and cutter grinding.



**Multi-Position Handle**—You can select the most comfortable position of the handle on the table feed hand wheel, in a matter of seconds. Just pull out the handle, set it where you want it, and let it snap back into engagement. This is especially important when the operator is grinding small pieces and must continually "short stroke" the table. Large micrometer sleeve on cross feed is easy to read and has "zero" start feature.



**Smooth Operating Table and Cross Slide**—Table and cross slide have precision ground V and flat ways (no troublesome gibs to adjust). Table ways are Teflon-lined, practically eliminating wear and providing smooth, effortless feed.

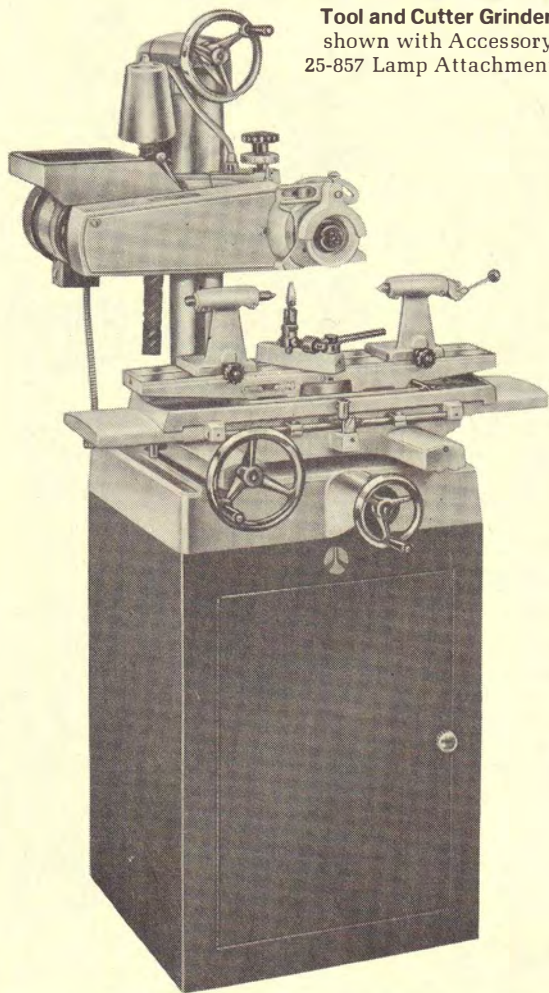


**Specially Designed Base**—Massive, scientifically ribbed base provides extra rigid support for the  $\frac{3}{4}$ " thick cast iron column and grinding head. Built-in leveling jacks at rear corners (not shown) guarantee proper alignment for precision grinding.



**Large, Deluxe Cabinet Base**—Machine rests on a heavy, rigidly reinforced steel base. Vibration pads, furnished for placement under each corner, isolate the grinder, protecting it from floor vibrations caused by trucks, elevators, punch presses and similar machinery. This assures smooth grinder performance. Two large shelves provide ample storage room. Large door has a cam type, rattle-proof latch.

**No. 24-170 TOOLMAKER\*  
Tool and Cutter Grinder**  
shown with Accessory  
25-857 Lamp Attachment.



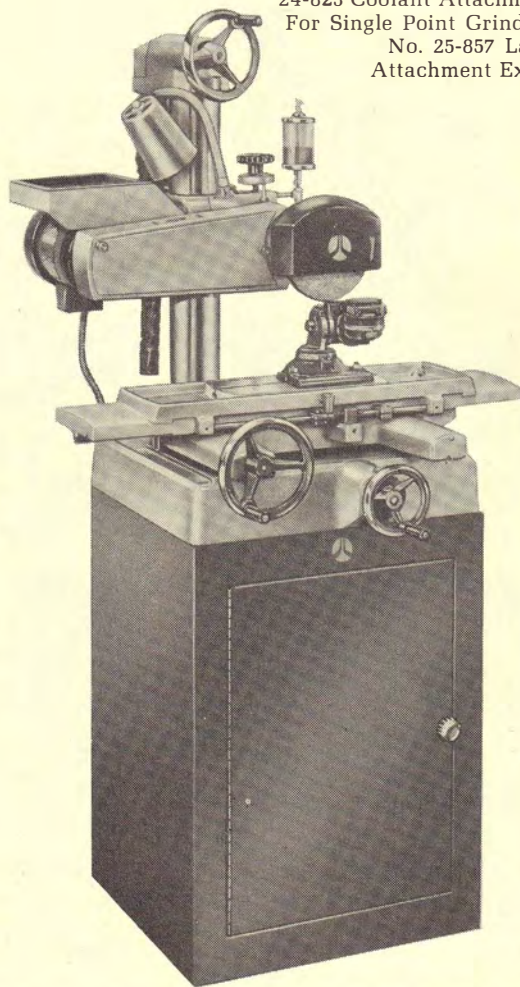
The Rockwell TOOLMAKER Tool and Cutter Grinder will efficiently sharpen all types of mills, reamers, taps, saw blades and other multiple-point cutting tools. It actually will do the work of tool and cutter grinders costing hundreds of dollars more. You can quickly convert it to do precision grinding of chip-breaker grooves in carbide and other tooling simply by adding the Univise and Center Mist Coolant Attachments.

The unit, without the Tool and Cutter or Chip-Breaker Grinding Components, can be used for surface grinding accurate, flat surfaces where the surface pattern and RMS finish are not critical. It can produce surfaces to 20 RMS.

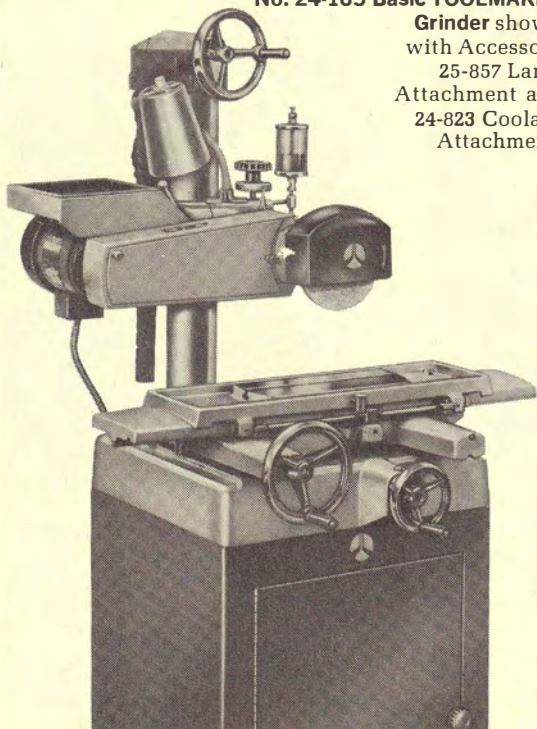
Many grinding machines are available which perform only one function—tool and cutter sharpening, grinding of chip-breaker grooves, or surface grinding. Rockwell, however, offers you one machine that will do all three operations. Purchase a Rockwell Tool and Cutter Grinder, add the Coolant Attachment and Univise, and you have a “3-in-1” grinding machine. Best of all, you can get this “triple value” at less cost than you would pay for one comparable single-purpose machine.

Let us show you a Rockwell TOOLMAKER Grinder in action today!

**No. 24-165 Basic TOOLMAKER\* Grinder**  
Shown With Accessory.  
24-902 Univise and  
24-823 Coolant Attachment  
For Single Point Grinding.  
No. 25-857 Lamp  
Attachment Extra.



**No. 24-165 Basic TOOLMAKER\*  
Grinder** shown  
with Accessory  
25-857 Lamp  
Attachment and  
24-823 Coolant  
Attachment.



\*Trademark

# ROCKWELL TOOLMAKER GRINDERS

## MACHINE DATA

### Table:

Ground Work Surface	..... $5\frac{3}{4} \times 13''$ (146.05 x 330.2 mm)
T-Slot (One)	..... $\frac{7}{16}''$ (11.11 mm)
Longitudinal Travel (Rack and Pinion)	..... $13\frac{1}{2}''$ (342.9 mm)
Ways (Teflon Lined)	.....One Flat and One V
Height From Floor	..... $40''$ (1016 mm)

### Cross Slide:

Transverse Travel (Covered Lead Screw)	... $7''$ (177.8 mm)
Micrometer Collar	.....Each Rev. $.100''$ (2.54 mm)
	.....Each Grad. $.001''$ (.0254 mm)
Ways	.....One Flat and One V

### Head (On 4" Column With Key and Gib):

Vertical Travel (Covered Lead Screw)	..... $15''$ (381 mm)
Down Feed (Zero-Backlash Lead Screw)	... $\frac{5}{8}''$ (15.375 mm)
Micrometer Collar	.....Each Rev. $.050''$ (1.27 mm)
	.....Each Grad. $.0005''$ (.0127 mm)
Rotation	..... $360^\circ$

### Capacities:

Surface Grinds	..... $6 \times 13''$ (152.4 x 330.2 mm);
	With $13''$ (330.2 mm) Under $7''$ (177.8 mm) Wheel
Maximum Diameter Cutter Sharpens:	
Between *Centers	.....With Cup Wheel $8''$ (203.2 mm)
	.....With Dish Wheel $10''$ (254 mm)
With *Tool and Cutter Attachment	
and *Unihead	..... $16''$ (406.4 mm)
Takes Magnetic Chuck	..... $5 \times 10''$ (127 x 254 mm)
	or $6 \times 12''$ (152.4 x 304.8 mm)

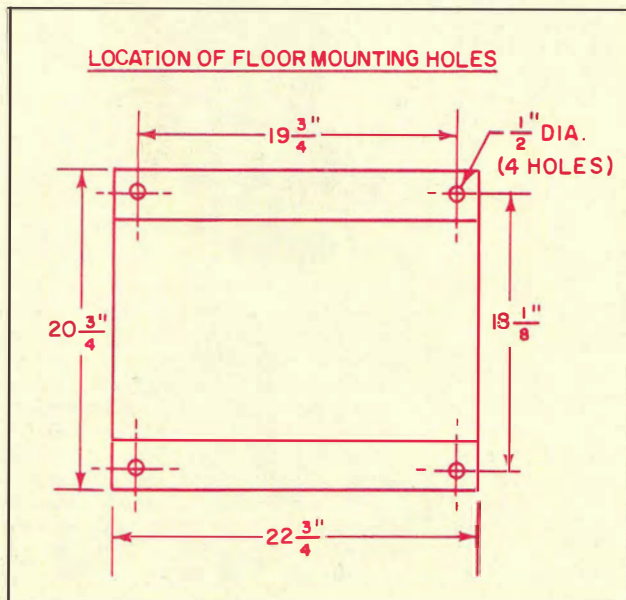
### Spindle:

Ball Bearings	.....Oil Bath, Preloaded, Angular Contact
Wheel Adapter (Mounts on Spindle Nose Taper):	
Takes Wheels With Hole	..... $1\frac{1}{4}''$ (31.75 mm)
Has Flanges For—	
Straight Wheel	..... $7 \times 1\frac{1}{2}''$ (177.8 x 12.7 mm)
Cup Wheel	..... $4 \times 1\frac{1}{2}''$ (101.6 x 38.1 mm)
Dish Wheel	..... $6 \times \frac{1}{2} \times \frac{7}{16}''$ (152.4 x 12.7 x 7.94 mm)
Speeds (With 3450 RPM Motor)	...3300, 3700 and 5600 RPM

**Motor** ..... $\frac{1}{2}$  HP, 3450 RPM, Special Balance, Delta No. 6 Frame, Totally Enclosed

## STANDARD EQUIPMENT

All TOOLMAKER Grinders include storage type cabinet with shelves and door, four anti-vibration pads, specially balanced motor and motor pulley, motor controls, flat belt, guard for belt and pulleys, guard for 7" straight wheel, wheel adapter, holder for diamond wheel dresser, oil for spindle bearings, wrenches, T-bolts (2) and instruction manual. No. 24-822 Tool and Cutter Grinding Attachment is included with No. 24-170 Tool and Cutter Grinding Machine.



## CATALOG LISTING

### CONVENIENT ONE NUMBER ORDERING

#### FOR SINGLE PHASE OPERATION

**No. 24-170 TOOLMAKER Tool and Cutter Grinding Machine.** Consists of 24-165 Basic Surface Grinder on cabinet with electricals and 24-822 Tool and Cutter Grinding components. Components are partially mounted. 922 lbs.

**No. 24-165 Basic TOOLMAKER Grinding Machine (without 24-822 Tool and Cutter Grinding Components, 24-823 Coolant Attachment or 24-902 Univise.)** For use as a surface grinder which will grind accurate, flat surfaces where surface pattern and RMS finish are not critical. Can produce surfaces to 20 RMS. Includes cabinet;  $\frac{1}{2}$  HP, 115/230 V, 3450 RPM, 60 hertz, single phase motor with 24 V push button station, magnetic starter, transformer, and overload protection, mounted and wired for 115 V, unless 230 V is specified; motor pulley; flat belt; guard for belt and pulleys; guard for straight wheel; wheel adapter; holder for diamond wheel dresser;  $\frac{1}{2}$  pint oil for spindle bearings; wrenches and instruction manual. 840 lbs.

#### FOR THREE PHASE OPERATION

**No. 24-171 TOOLMAKER Tool and Cutter Grinding Machine.** Same as 24-170, except with  $\frac{1}{2}$  HP, 230/460 V, 3450 RPM, 60 hertz, three phase motor with 24 V push button station, magnetic starter, transformer and 3-leg overload protection, mounted and wired for 230 V, unless 460 V is specified. Components are partially mounted. 923 lbs.

**No. 24-172 TOOLMAKER Tool and Cutter Grinding Machine.** Same as 24-171, except wired for 200 V, three phase. 923 lbs.

**No. 24-166 Basic TOOLMAKER Grinding Machine.** Same as No. 24-165, except with  $\frac{1}{2}$  HP, 230/460 V, 3450 RPM, 60 hertz, three phase motor with 24 V push button station, magnetic starter, transformer and 3-leg overload protection, mounted and wired for 230 V, unless 460 V is specified. 841 lbs.

**No. 24-167 Basic TOOLMAKER Grinding Machine.** Same as No. 24-166, except wired for 200 V, three phase. 841 lbs.



Practically every conceivable grinding or sharpening operation can be accomplished with Rockwell TOOLMAKER Grinders.

## MOTOR AND BELT REPLACEMENT PARTS

**No. 24-800** consists of ½ HP, 115/230 V, single phase motor; motor pulley and 49-085 Belt, balanced together for field installation. 32 lbs.

**No. 24-803** consists of ½ HP, 230/460 V, three phase motor; motor pulley and 49-085 Belt, balanced together for field installation. 32 lbs.

**No. 24-804.** Same as 24-803 except 200 V. 32 lbs.

**No. 24-802.** Same as 24-803 except 575 V. 32 lbs.

**No. 49-085 Flat Belt,** ¾" wide, 35" OC.

## ROCKWELL QUALITY ACCESSORIES FOR INCREASED JOB PERFORMANCE

**No. 24-807 Wheel,** 7 x ½", aluminum oxide, 1 ¼" hole, for soft material, balanced to within 1/8-ounce inch. 2 lbs.

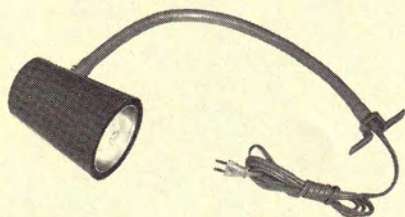
**No. 24-808 Wheel,** 7 x ½", aluminum oxide, 1 ¼" hole, for hard material, balanced to within 1/8-ounce inch. 2 lbs.

**No. 24-973 Standard Dish Wheel,** Type 12, 6 x ½ x 5/16", aluminum oxide, 1 ¼" hole. 5 lbs.

**No. 24-974 Standard Cup Wheel,** Type 11, 4 x 1 ½", aluminum oxide, 1 ¼" hole. 5 lbs.

**No. 24-820 Adapter** for wheels with 1 ¼" hole. Has 2 1/32" flange for straight wheels, 4 x 1 ½" type 11 cup wheels and 6 x ½ x 5/16" type 12 dish wheels, plus a 2 3/32" flange for 3 ½ x 1 ½" cup wheels. Same as adapter supplied with 24-165 Surface Grinder, except has holes and slots needed for use with 24-823 Coolant Attachment. Order extra adapters for each kind of wheel to be used to obviate centering or dressing wheel each time it is mounted on spindle. 2 lbs.

**No. 24-805 Diamond-pointed Wheel Dresser,** with 7/16 x 2" body. ½ lb.



**No. 25-857 Lamp Attachment,** for 115 V. Includes 18" flexible gooseneck, reflector and 8-foot cord with 2-prong plug. Uses standard bulb (not included) up to 75 watts. 3 lbs.

**No. 24-812 Spindle and Way Oil,** Velocite-E. ½ pt. can.

**No. 24-819 Attachment Package** for Dust Collector. 20 lbs. See Section D1 for complete information.

**NOTE:** See Section D1 for Dust Collectors recommended for Toolmaker Grinders.

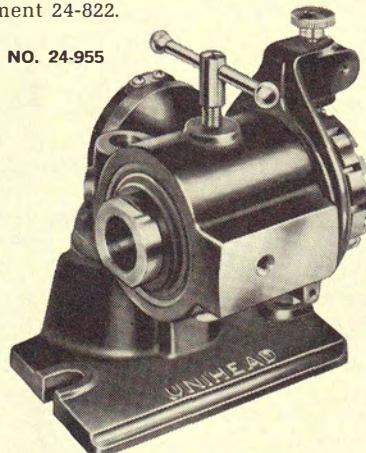
## THE UNIHEAD® WITH INDEXING FEATURE IS UNIVERSALLY ADJUSTABLE WORK HEAD

The Unihead is a universally adjustable work head designed for use with the Toolmaker Cutter Grinder and other makes of machines, especially if the No. 24-970 Tooth Stop Unit is used with it.

Unit consists of a heat treated sleeve arranged with a No. 9 Brown & Sharpe taper accurately mounted in lubricated-for-life ball bearings. The adjustable index stop collar and dog can be disengaged or set in any position that is convenient to the operator. It is equipped with a 12-tooth index collar with selector plate which permits the dog to engage automatically either 2, 3, 4, 6 or 12 selected equal spaces. Other plain collars (without selector plate) are available as listed.

Has a push-out nut arranged at the back of the sleeve for pushing out tightly fitted adapters. Swivel bracket with 360 graduations. Base with removable keys that engage the table. Can also be used with Tool and Cutter Grinding Attachment 24-822.

**No. 24-955**



**No. 24-955 Unihead** arranged with sealed-for-life ball bearings and sleeve for No. 9 B & S taper. With one 12-tooth collar with selector plate to engage 2, 3, 4, 6 or 12 selected equal spaces. 23 lbs.

**No. 24-970 tooth stop unit** not furnished. Indexing collars listed below cover a varied range of combination spacing and should be ordered separately as required.

### INDEXING COLLARS

**No. 24-957 Plain,** 36-tooth, for 2, 3, 4, 6, 9, 12, 18 and 36 equal spaces. ¾ lb.

**No. 24-958 Plain,** 34-tooth, for 17 and 34 equal spaces. ¾ lb.

**No. 24-959 Plain,** 33-tooth, for 3, 11 and 33 equal spaces. ¾ lb.

**No. 24-960 Plain,** 32-tooth, for 2, 4, 8, 16 and 32 equal spaces. ¾ lb.

**No. 24-961 Plain,** 30-tooth, for 3, 5, 6, 10, 15 and 30 equal spaces. ¾ lb.

**No. 24-962 Plain,** 28-tooth, for 4, 7, 14 and 28 equal spaces. ¾ lb.

**No. 24-963 Plain,** 26-tooth, for 13 and 26 equal spaces. ¾ lb.

**No. 24-964 Plain,** 24-tooth, for 2, 3, 4, 6, 8, 12 and 24 equal spaces. ¾ lb.

**No. 24-965 Collar, blank.** ¾ lb.

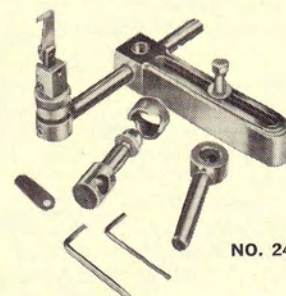
### ADAPTERS

**No. 24-967 Adapter** for Unihead with No. 9 B & S outside taper arranged with 1"-8 R.H. threaded end to receive 6" Face Plate (No. 937). 1 ¼ lbs.

**No. 24-968 Adapter** for Unihead with No. 9 B & S outside taper arranged with No. 33 Jacobs taper to receive drill chucks. 1 ¼ lbs.

### TOOTH STOP UNIT

The Unihead uses the same tooth stop unit regularly furnished with the Tool and Cutter Grinder Attachment (No. 24-822). If the Unihead is to be used on another make of machine, it may be advisable to obtain the No. 24-970 Tooth Stop Unit.

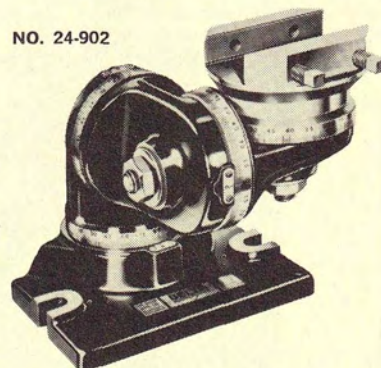


**No. 24-970**

**No. 24-970 Tooth Stop Unit** consisting of 1 bracket, 2 bars, 1 clamp and tooth stop with 2 fingers (included with No. 24-822 Grinder Attachment). 5 lbs.

## THE UNIVISE® FIRST TRULY UNIVERSAL VISE FOR GRINDING, DRILLING AND MILLING

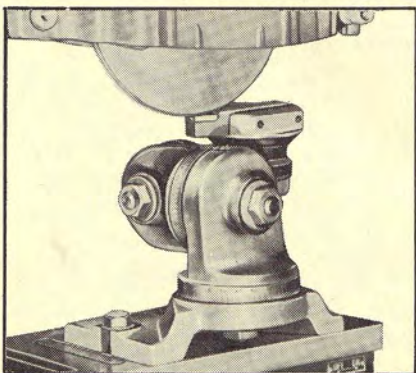
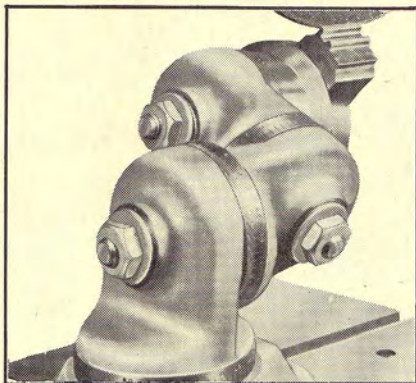
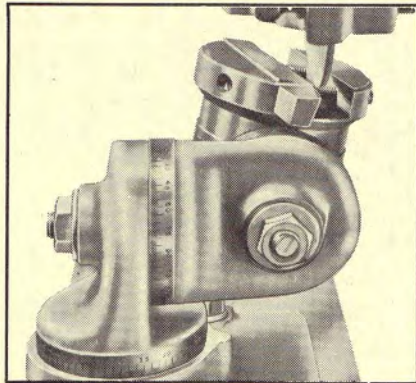
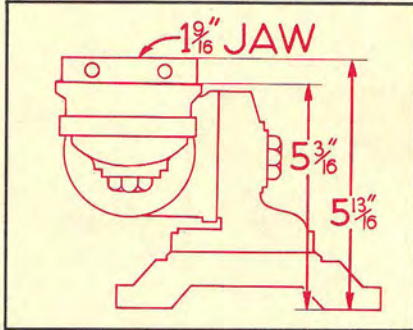
**No. 24-902**



The Univise is a heavy, rigid, massive vise completely universal so that it can be set at ANY angle desired. It is composed of four separate parts, each of which can be rotated and independently set so that there are four separate distinct planes of adjustment. This means that ANY angle desired can be easily and readily obtained. It means, also, that for duplicate grinding the vise can be returned EXACTLY to its original setting. Each part has a circular scale of 360 degrees. Each station is

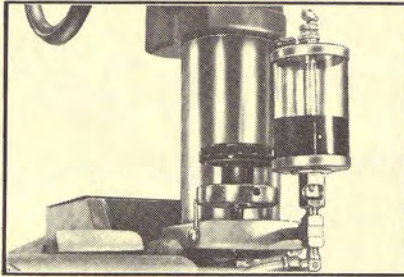
marked so that by making a record of the setting of each scale it is impossible to make an error. Thus, settings can be made direct from the blueprint without fuss or bother. Two of the parts rotate a full 360 degrees. It is  $5\frac{13}{16}$ " high, 6" wide and  $7\frac{1}{4}$ " long. Jaws take up to  $1\frac{1}{2}$ " tools. Fits any surface or tool grinder. Has detachable keys in base which can be removed to permit use on a drill press or other machine without table slots, or on a magnetic chuck.

**No. 24-902 Univise**, complete. 16 lbs.



## "CENTER MIST" COOLANT ATTACHMENT

With instructions for field mounting on any TG-3 Grinder. Supplied as standard equipment on 24-152 TOOLMAKER Single Point Tool Grinder.

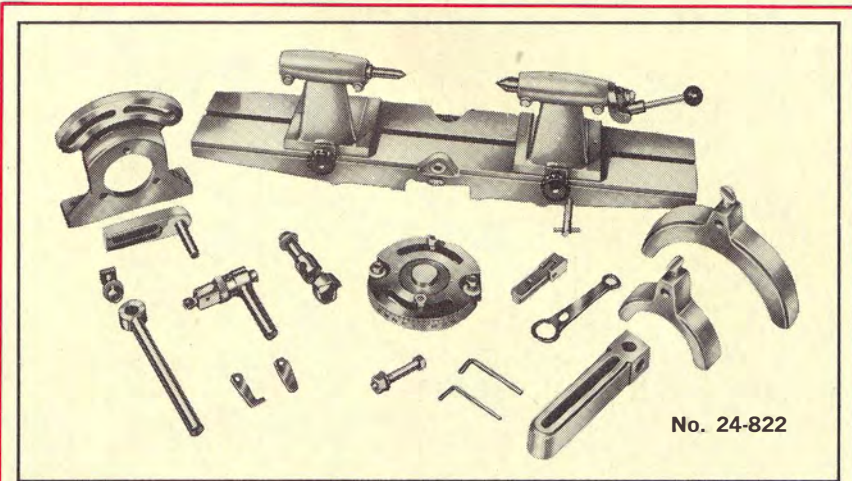


**No. 24-823 Coolant Attachment** complete with sight gravity feed oiler, coolant line, fittings, 24-820 Wheel Adapter with holes and slots for coolant, and instructions. 5 lbs.

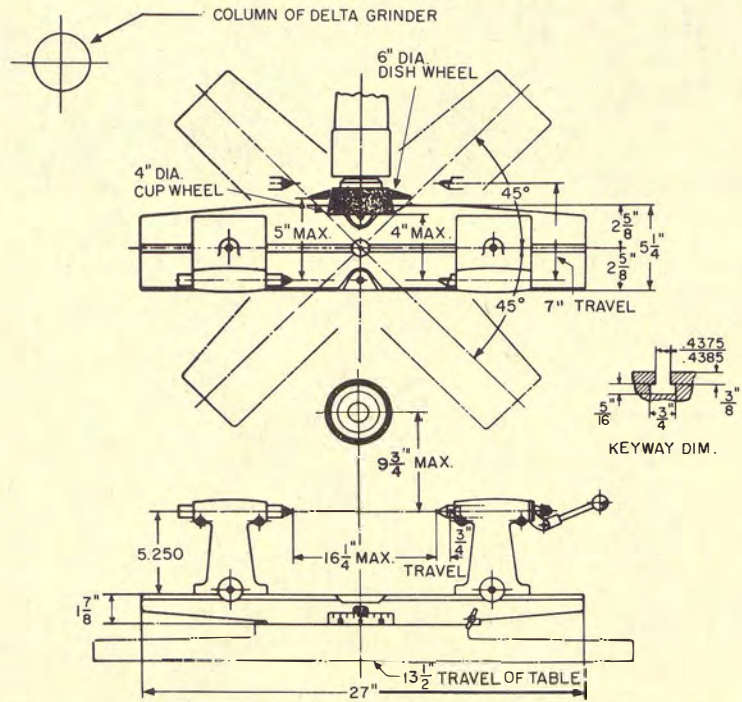
## GRINDER ATTACHMENT CONVERTS STANDARD SURFACE GRINDER TO A TOOL AND CUTTER GRINDER

The Tool and Cutter Grinding Attachment is designed and engineered to permit conversion of the basic Toolmaker Surface Grinder for tool and cutter grinding work. This complete attachment, when added to the basic Toolmaker Surface Grinder, provides the workholding features for sharpening many types of small tools and cutters.

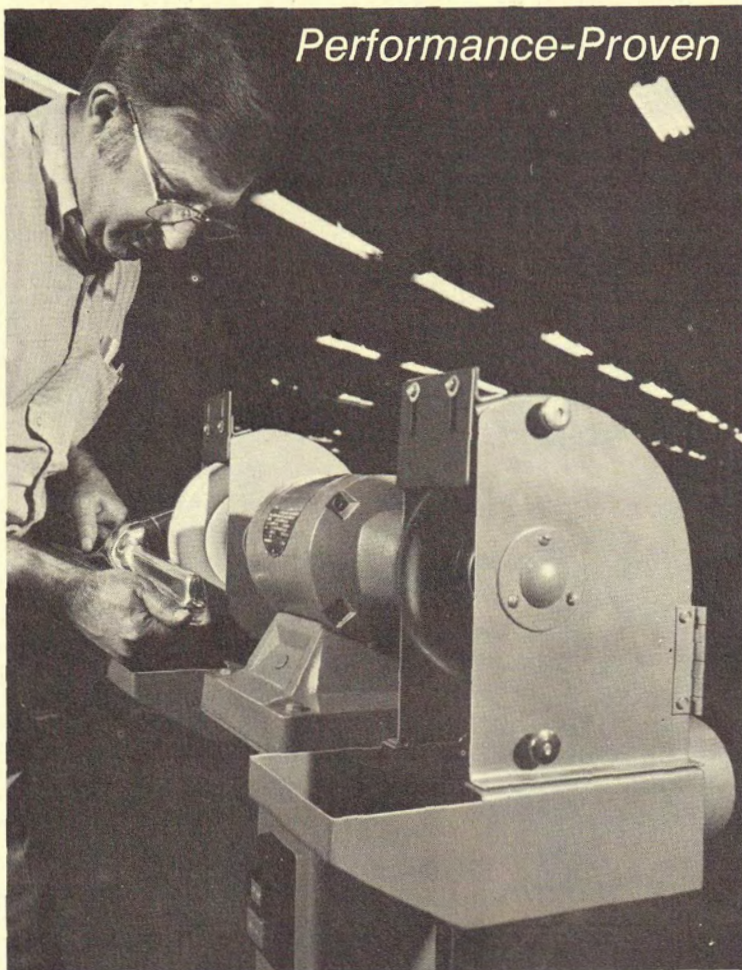
**No. 24-822 Toolmaker Tool and Cutter Grinding Attachment** consisting of swivel table with head and tail stocks and No. 24-970 tooth stop unit, 2 wheel guards and support bracket. Standard on 24-170 Grinder. Can be added to 24-165 Toolmaker Grinder. 70 lbs.



**No. 24-822**



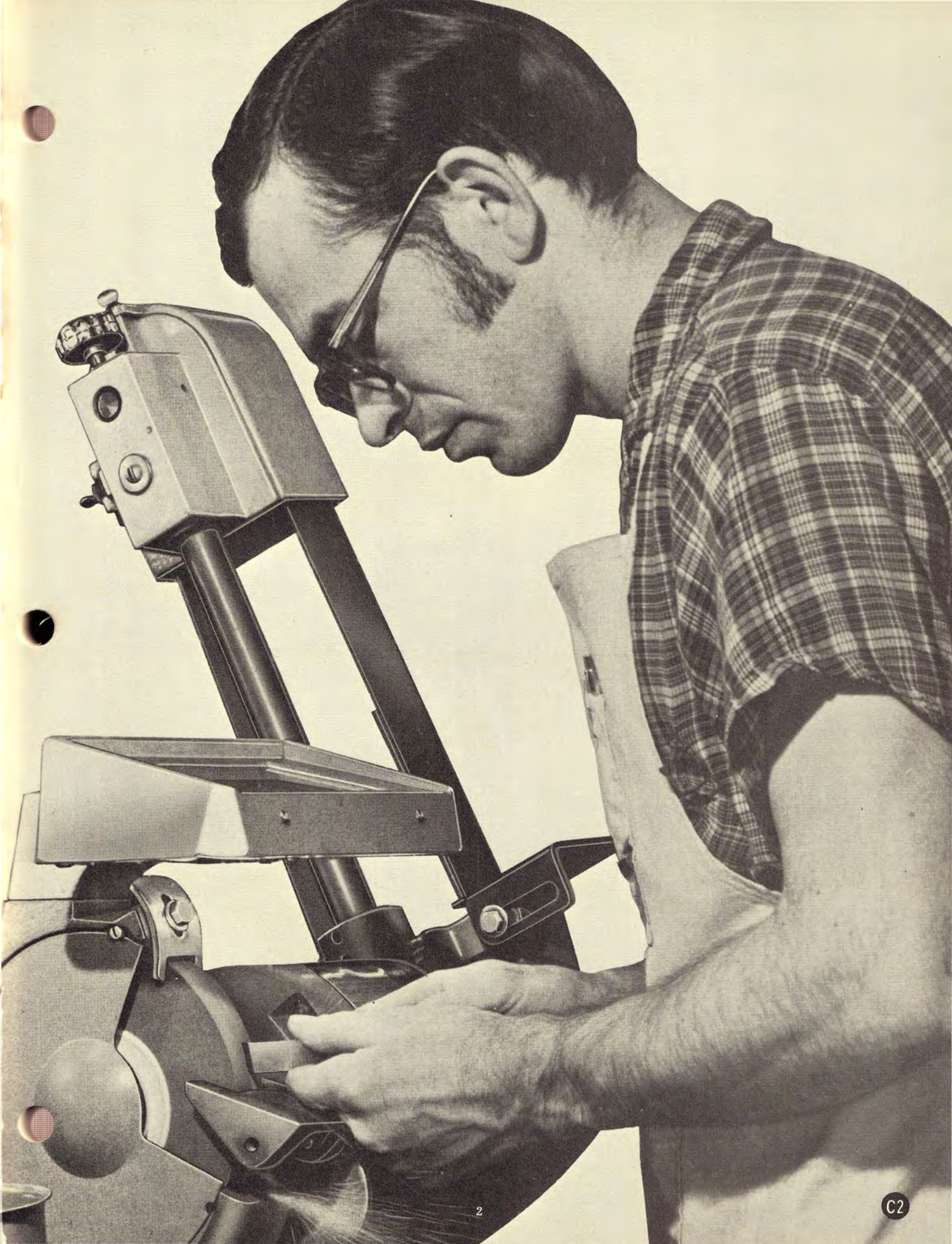
# ROCKWELL GRINDERS and BUFFERS



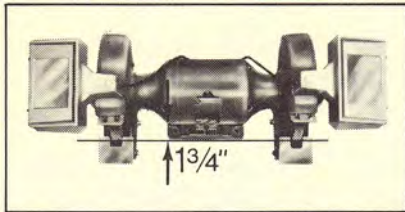
**50 MODELS**  
10", 7", 6" Tool,  
6" Bench Grinders,  
10" and 7" Grinder/Finishers,  
Twin Belt Finisher,  
and Long-Shaft Buffers

## Here are a few reasons why they perform so well!

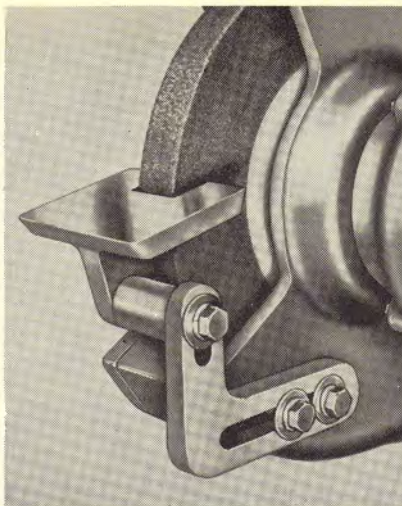
- "Thin-Line" motors provide extra clearance between wheels and motor.
- Extended end bells allow more room for grinding or buffing odd-shaped work pieces.
- Fully adjustable tool rests increase job versatility.
- "Twin-Lite" safety shields, with shatter-proof glass, safeguard operator's eyes.
- Extra safe design, such as the Exclusive Rockwell LVC 24-Volt Control System and the cast iron wheel guards with integral dust chutes, increases operator safety.
- These and many more features, together with Rockwell's Proven Quality, assure you of long, trouble-free performance!



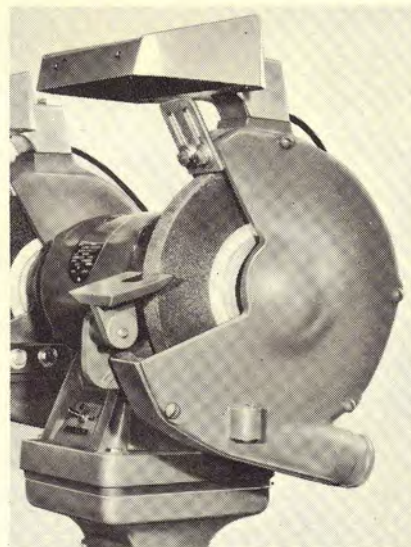
**QUALITY FEATURES  
THAT ASSURE LONG,  
TROUBLE-FREE  
GRINDER PERFORMANCE**



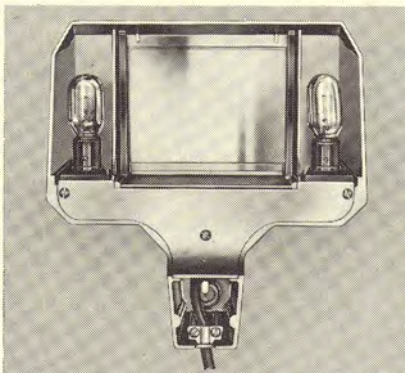
**Modern "Thin-Line" Motor:** Heavy duty, dual voltage motor is slim in design, providing a full 1 $\frac{3}{4}$ " space between wheels and motor, ample clearance for grinding odd-shaped items and long stock. Totally enclosed motor has double sealed ball bearings to keep out harmful abrasive dust. Twin-Lite® Safety Shields may be easily swung out of the way, yet are instantly available when required.



**Many-Purpose Tool Rests:** Fully machined tool rests adjust both horizontally and vertically and tilt for exact grinding angle desired. They lock rigidly in place, yet may be quickly removed for accessory attachments. Note wrap-around ledges that permit grinding on sides as well as face of wheel.



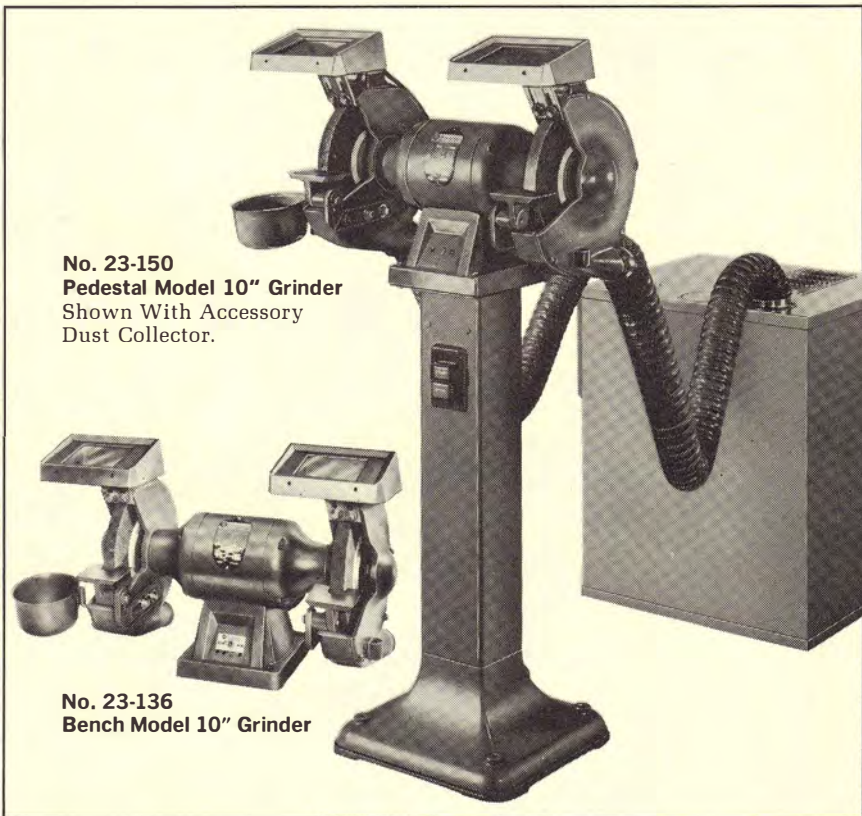
**Excellent Safety Features:** This Delta grinder is unmatched for safety in design. Shatterproof glass in eye-shields, heavy cast iron guards with integral dust chutes, removable extra thick side plates and adjustable spark deflectors provide for maximum operator safety.



**Famous Twin-Lite® Safety Shields:** Designed to operate independently of the shop lighting system, they have no equal. Double strength, shatterproof glass safeguards operator's eyes. Special spring clips prevent rattle. Bayonet type bulbs stay tight and are shielded to prevent glare. Ideally placed, they throw a full flood of light on both sides and face of wheel without casting any shadow.



**Handy Water Pot:** Conveniently mounts on either side, adjacent to wheel on which grinding is being done.



**No. 23-150  
Pedestal Model 10" Grinder  
Shown With Accessory  
Dust Collector.**

**No. 23-136  
Bench Model 10" Grinder**

Tool rooms, experimental departments, foundries, garages and schools are just a few of the many users who appreciate the Rockwell Delta 10" Grinder. Why? Because it will capably handle all grinder operations—stock removal . . . snagging . . . sharpening of tool bits . . . shaping of special parts . . . cleaning of rust and scale . . . and dozens of addi-

tional jobs.

Here's why! This 10" Grinder incorporates all the right features for quick, easy, efficient operation, year after year.

Only Delta gives you Twin-Lite® Safety Shields, a modern "thin-line" motor, fully adjustable tool rests, plus heavy duty construction throughout.

# ROCKWELL 10" GRINDER

## MACHINE DATA

### Motor:

Horsepower ..... 1, 1½  
 RPM ..... 1725  
 Shaft: Diameter ..... 7/8" (22.225 mm)  
 Extends Beyond  
 Wheel Flange .... 2½" (63.5 mm)

All Motors, Except 200 V, Are Dual Voltage With Reconnectable Feature. Single Phase Motors Are Capacitor-Start, Capacitor-Run Type.

### Wheels:

Diameter ..... 10" (254 mm)  
 Face ..... 1" (25.4 mm)  
 Hole ..... 7/8" (22.225 mm)  
 Distance  
 Between Centers .... 18" (457.2 mm)

### Wheel Flanges, Diameter:

Inner ..... 4¼" (107.95 mm)  
 Outer ..... 4¼" (107.95 mm)

### Dimensions, Overall, Bench Type:

Height:  
 Without Twin-Lites . 15¼" (387.35 mm)  
 Width ..... 30" (762 mm)  
 Front to Back ..... 13" (330.2 mm)

### Base:

Overall Space On  
 Bench . . 8½" x 8½" (215.9 x 215.9 mm)  
 Center of Mounting  
 Holes 6¾" x 6¾" (171.45 x 171.45 mm)

### Dimensions, Overall, Pedestal Type:

Height ..... 49" (1244.6 mm)  
 Width ..... 30" (762 mm)  
 Front to Back ..... 13" (330.2 mm)

### Base:

Overall Space on Floor:  
 Width ..... 16" (406.4 mm)  
 Front to Back ..... 14" (355.6 mm)  
 Centers of Floor Mounting Holes:  
 Left to Right ..... 12" (304.8 mm)  
 Front to Back ..... 10" (254 mm)

## STANDARD EQUIPMENT

Grinders are furnished with two Twin-Lite® Safety Shields, two balanced wheels, wheel guards, spark deflectors, tool rests and water pot. Single phase models are wired for 230 V operation

and include two-pole on-and-off toggle switch and 8-foot power cable with 230 V grounding type tandem blade plug. Three phase models include 22½" motor leads for power connections.

**Bulbs must be ordered separately for Twin-Lite® Safety Shields.**

**ROCKWELL  
 GRINDER ACCESSORIES  
 PROVIDE INCREASED  
 JOB PERFORMANCE**

**No. 23-819 Aluminum Oxide Wheel, 1" x 10", 24 G, 1¼" hole with bushing to fit 7/8" diameter shaft. 7 lbs.**

**No. 23-820 Aluminum Oxide Wheel, 1" x 10", 46 G, 1¼" hole with bushing to fit 7/8" diameter shaft. 7 lbs.**

**No. 23-817 Aluminum Oxide Wheel, same as 23-819 except with bushing to fit ¾" diameter shaft. 7 lbs.**

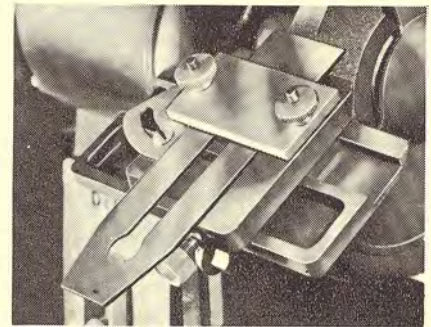


**No. 23-818 Aluminum Oxide Wheel, 1" x 10", same as 23-820 except with bushing to fit ¾" diameter shaft. 7 lbs.**

**No. 23-025 (old 1250) Twin-Lite® Safety Shield (two required). Without bulbs. 5 lbs.**

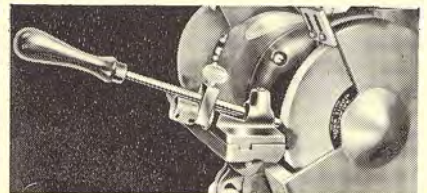
**No. 23-280 (old 1280) Appliance Type Bulb, clear glass, 25 watt, 115-125V, with double contact bayonet ("plug-in") base. Four required. ¼ lb.**

**No. 23-805 Pedestal. Used to convert 10" Bench Grinder to pedestal type. 67 lbs.**



**No. 23-294 (old 1294) Edge Tool Grinding Attachment.** Ideal for school shops, cabinet shops, and all types of wood-working shops. Although especially recommended for sharpening plane irons, this attachment also does an excellent job of grinding wood chisels, putty knives, scrapers and similar items up to 3¼" wide.

Slide is notched for wooden handles of wood chisels, including "butts" which have a very short chisel blade. Adjustable quadrant permits accurate grinding of angle knives, assures absolute right angle position for straight knives. Knurled nut gives hairline adjustment for amount of "cut." Blade or chisel being ground can be lifted off and inspected at any time without disturbing the micrometer adjustment of clamp and carriage. 6 lbs.



**No. 23-664 (old 1664) Wheel Dresser Holder.** Used with No. 23-312 Wheel Dresser. 4 lb.

**No. 23-312 (old 3121) Diamond Pointed Wheel Dresser.** Should be used with No. 23-664 Holder. 1 lb.

**NOTE:** For New Rockwell "High Efficiency" Dust Collectors, See Page 1, Section D1.

**NOTE:** For Additional Grinder Accessories, See Page 3, Section C9.

## CATALOG LISTING

**COMPLETE 10" GRINDER, Bench or Pedestal Mounted, with Motor and Controls Factory Mounted and Wired as Specified Below:**

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HZ. AND MOTOR RPM	MOTOR VOLTAGE	TYPE	SHIP. WT. LBS.	MACHINE CAT. NO.	MACHINE CAT. NO. 200 V	MACHINE CAT. NO. 575 V
Single Phase 1 Horsepower	* On-Off Toggle Switch	TENV	60-1725	115/230	Bench	148	23-136		
	* 24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TENV	60-1725	115/230	Pedestal	228	23-150		
Three Phase 1½ Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TENV	60-1725	230/460	Pedestal	218	23-146	23-148	
	Three Phase Bench Models, Not Factory Wired.								
	None—Separate Toggle Switch Furnished for Twin Lites	TENV	60-1725	230/460	Bench	132	23-137	23-138	

\*Motor Control Switch also operates Twin Lites.

**NOTE:** Single phase electricals will be supplied wired for 230 V, unless 115 V is specified. Three phase electricals will be supplied wired for 230 V,

unless 460 V is specified. Power Cord and Plug supplied for single phase only.

# New Rockwell 10" Grinder/Finisher

"A Full Spectrum Machine"

**A. Exclusive Rockwell LVC 24-Volt Safety Control System.** Only the New Rockwell 10" Grinder/Finisher offers a low 24 volts at the push button station for extra operator safety. Magnetic control system provides on-off control, low voltage, no voltage (when power is interrupted, machine can be started only by pressing start button), and motor overload protection. On three phase systems, overload protection is provided on all three legs. LVC available on pedestal models only.

**B. Patented Twin-Lite® Safety Shield.** Designed to operate independently of the shop lighting system, it has no equal. Double strength, shatterproof glass safeguards operator's eyes. Special spring clips prevent rattle. Bayonet type bulbs stay tight and are shielded to prevent glare. Ideally placed, they throw a full flood of light on both sides and face of wheel without casting any shadow.

**C. Precision Ground Tool Rest.** Cast iron, machined tool rest has two mounting bolts that lock it rigidly in place, yet rest may be quickly removed for accessory attachments. Rest adjusts for exact grinding angle desired. Special ledges permit grinding on both sides as well as face of grinding wheel. Note convenient location of water pot.

**D. Advanced Safety Features.** An unmatched combination of safety features makes the Rockwell 10" Grinder/Finisher the safest on the market. Shatterproof glass in eyeshield, heavy cast iron guards with integral dust chutes, removable side plate,

and adjustable spark deflector provide maximum operator safety.

**E. Belt Tracking Control.** Swivel type handle has fine thread adjustment for accurate, easy belt tracking, yet holds setting without need for locking.

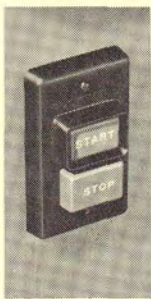
**F. Spring-Loaded Belt Tensioner.** Changing belts is a simple operation—just raise guard, pull cam lever forward to depress spring-loaded tensioner, and replace belt. Tensioner applies the proper amount of tension on belt for smooth performance and proper belt tracking.

**G. Adjustable Rest.** Large work support for grinding or finishing may be adjusted in or out, also tilted for exact angle desired.

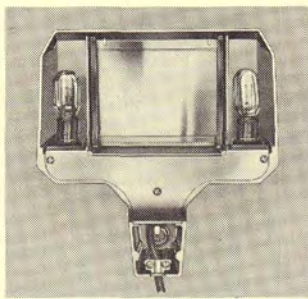
**H. Massive Contact Wheel; Rest Doubles As A Back Stop.** When use of the extra large 10" diameter contact wheel is required for contour or heavy duty grinding, belt guard can be quickly removed simply by loosening two wing nuts. When finishing flat work, rest can be used as a back stop, preventing work from being carried along on the belt.

**I. Large, Husky Platen.** Ruggedly built 2½" x 6½" platen provides firm abrasive belt support over a large area. Platen is especially helpful when doing work that requires heavy pressure on the belt.

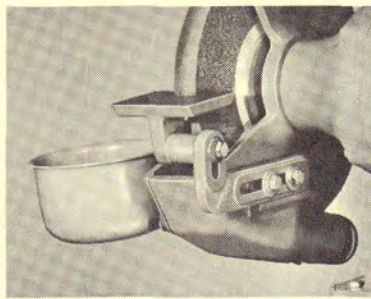
**J. Built-in Dust Chutes.** Cast iron wheel and belt guards are designed with integral dust chutes for fast, easy connection of Rockwell "High Efficiency" Dust Collector.



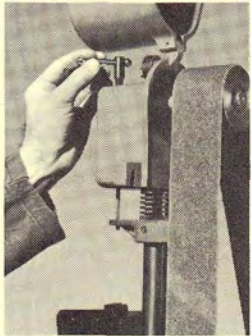
A.



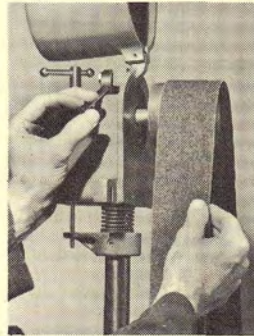
B.



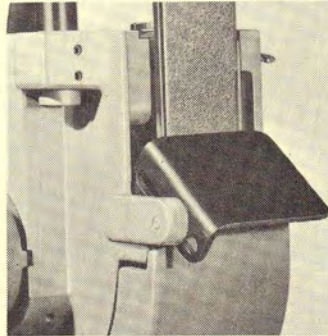
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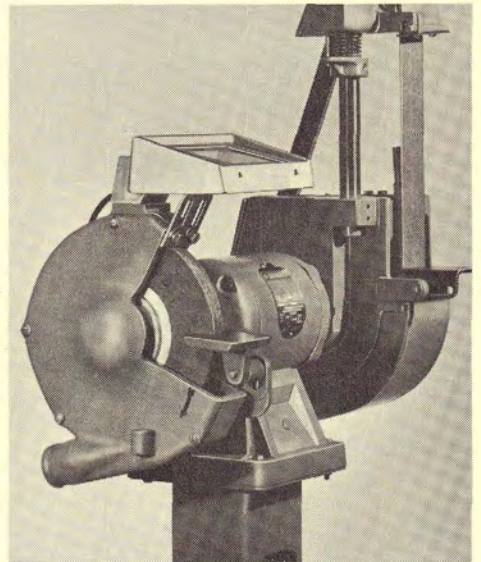
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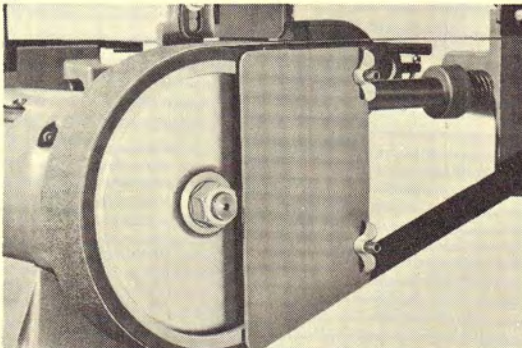
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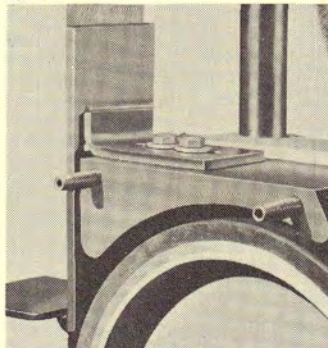
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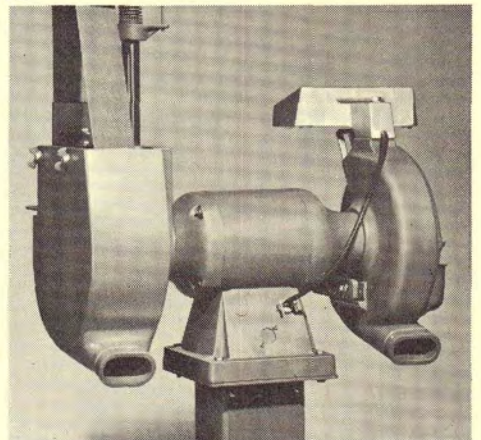
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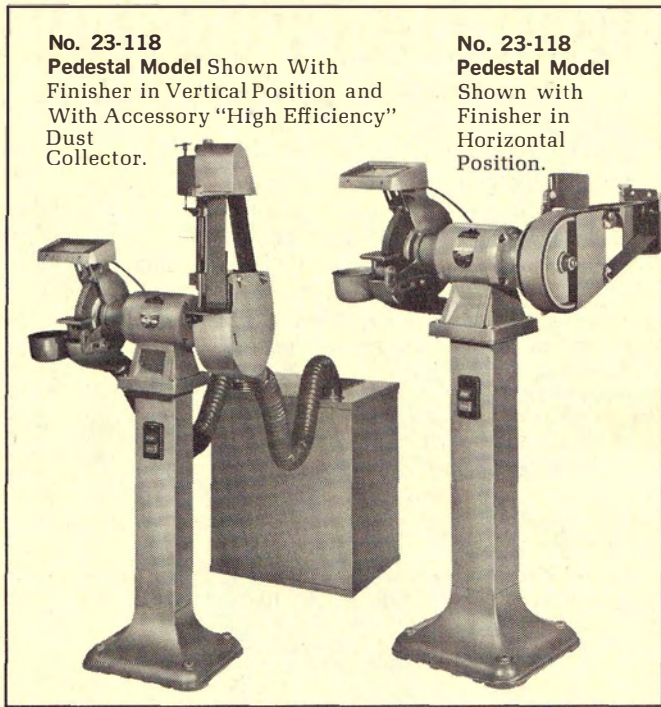


I.



J.

# NEW ROCKWELL 10" GRINDER/FINISHER . . . A "Full Spectrum" Machine



**No. 23-118**  
**Pedestal Model** Shown With  
 Finisher in Vertical Position and  
 With Accessory "High Efficiency"  
 Dust  
 Collector.

**No. 23-118**  
**Pedestal Model**  
 Shown with  
 Finisher in  
 Horizontal  
 Position.

## MACHINE DATA

### Motor:

Horsepower . . . . . 1 HP, Single Phase; 1½ HP, Three Phase  
 Shaft Diameter . . . . . 7/8" (22.22 mm)  
 Frame Diameter . . . . . 6 5/8" (168.3 mm)

*All Motors, Except 200 V, Are Dual Voltage With Reconnectable Feature. Single Phase Motors Are Capacitor Start Type.*

### Grinder Wheel:

Diameter . . . . . 10" (254 mm)  
 Face . . . . . 1" (25.4 mm)  
 Hole . . . . . 7/8" (22.22 mm)

### Contact Wheel:

Diameter . . . . . 10" (254 mm)  
 Face . . . . . 2 1/2" (63.5 mm)  
 Hole . . . . . 7/8" (22.22 mm)

### Belt:

Width . . . . . 2 1/2" (63.5 mm)  
 Length . . . . . 60" (152.4 mm)  
 Speed . . . . . 4500 sfpm (2286 cm/sec)

### Bench Type:

Base . . . . . 8 1/2" x 8 1/2" (216 x 216 mm)  
 Width . . . . . 25 3/4" (654 mm)  
 Depth (Belt Vertical) . . . . . 15 1/2" (387 mm)  
           (Belt Horizontal) . . . . . 29 1/2" (749 mm)  
 Height (Belt Vertical) . . . . . 30 1/4" (768.4 mm)  
           (Belt Horizontal) . . . . . 17" (431.8 mm)  
 Grinder Tool Rest From Base . . . . . 7 1/2" (190.5 mm)  
 Finisher Tool Rest From Base . . . . . 10 3/8" (263.5 mm)  
 Finisher Platen From Base (Belt Horiz.) . . . . . 13" (330.2 mm)

### Pedestal Type:

Base . . . . . 14 1/4" x 16" (362 x 406 mm)  
 Width . . . . . 25 3/4" (654 mm)  
 Depth (Belt Vertical) . . . . . 15 1/2" (387 mm)  
           (Belt Horizontal) . . . . . 29 1/2" (749 mm)  
 Height (Belt Vertical) . . . . . 63 1/4" (1606.5 mm)  
           (Belt Horizontal) . . . . . 50" (1270 mm)  
 Grinder Tool Rest From Floor . . . . . 40 1/2" (1029 mm)  
 Finisher Tool Rest From Floor . . . . . 43 3/8" (1102 mm)  
 Finisher Platen From Floor (Belt Horiz.) . . . . . 46" (1168 mm)

### Platen:

Width . . . . . 2 5/8" (66.7 mm)  
 Length . . . . . 6 1/2" (165.1 mm)

### Weight:

Bench Model . . . . . 163 lbs. (73.94 kg)  
 Pedestal Model w/LVC . . . . . 217 lbs. (98.43 kg)  
 Pedestal Model w/Toggle Switch . . . . . 211 lbs. (95.71 kg)

## STANDARD EQUIPMENT

**Grinder/Finishers** are furnished with a water pot; Twin Lite® safety shield; wheel guards; tool rests; one 36G, coarse, aluminum oxide wheel; one rubber contact wheel, and one 2 1/2" x 60", 80G, aluminum oxide belt.

**Note:** Two No. 23-280 Lamp Bulbs must be ordered separately.

## A Versatile 2-in-1 Machine, With LVC 24-Volt Controls, That Increases Productivity While Lowering Your Costs!

This Rockwell 10" Grinder, combined with a 2 1/2" x 60" belt, is designed for time saving performance. It is especially suited for metal shops, wood shops, foundries, garages, vocational schools or wherever grinding, sanding or finishing is required.

With this versatile unit you can remove stock, snag, sharpen tool bits, remove rust and scale, sand, deburr, finish, polish, and do dozens of additional operations. With modern 3-dimensional abrasives, you can do cleaning, deburring, blending and polishing, decorating and finishing on metal, wood, plastic, ceramics and other materials. Modern 3-dimensional abrasives deliver consistent, predictable results quickly without changing the geometry of the work-piece.

No matter what type of abrasives you use, the versatile Rockwell 10" Grinder/Finisher deserves a place in your operation. See it in action today!

**NOTE:** For New Rockwell "High Efficiency" Dust Collectors, See Section D1, Page 1.

**NOTE:** For Additional Grinder/Finisher Accessories, See Section C2, Page 4, Also Section C9, Page 3.

## CATALOG LISTING

**COMPLETE 10" GRINDER/FINISHER, Bench or Pedestal Mounted, With Motor and Controls Factory Mounted and Wired as Specified Below**

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	TYPE	SHIPPING WT. LBS.	CAT. NO.	CAT. NO. 200 V
Single Phase 1 Horsepower	*On-Off Toggle Switch	TENV	60-1725	115/230	Bench	163	23-211	
	*24 V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TENV	60-1725	115/230	Pedestal	217	23-118	
Three Phase 1½ Horsepower	24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC). Separate Toggle Furnished for Twin Lite.	TENV	60-1725	230/460	Pedestal	206	23-120	23-125

\*Motor Control Switch also operates Twin Lite.

**NOTE:** Single phase electricals will be supplied wired for 230 V, unless 115 V is specified. Three phase electricals will be supplied wired for 230

V, unless 460 V is specified. Power Cord and Plug supplied for single phase only.

# New Rockwell Twin Belt Finisher

"A Full Spectrum Machine"

**A. Exclusive Rockwell LVC 24-Volt Safety Control System.** Only the New Rockwell Twin Belt Finisher offers a low 24 volts at the push button station for extra operator safety. Magnetic control system provides on-off control, low voltage, no voltage (when power is interrupted, machine can be started only by pressing start button), and motor overload protection. On three phase systems, overload protection is provided on all three legs. LVC available on pedestal models only.

**B. Advanced Safety Features.** An unmatched combination of features makes the Rockwell Twin Belt Finisher the safest on the market. 24 volt push button control system, top belt guards, heavy cast iron wheel guards with integral dust chutes, removable side plates and adjustable spark deflectors increase operator safety.

**C. Belt Tracking Control.** Swivel type handle has fine thread adjustment for accurate, easy belt tracking, yet holds setting without need for locking.

**D. Spring-Loaded Belt Tensioner.** Changing belts is a simple operation—just raise guard, pull cam lever forward to depress spring-loaded tensioner, and replace belt. Tensioner applies the

proper amount of tension on belt for smooth performance and proper belt tracking.

**E. Spark Deflectors.** Each top belt guard has an adjustable spark deflector for increased operator safety.

**F. Adjustable Rests.** Large work supports for grinding or finishing may be adjusted in or out, also tilted for exact angle desired.

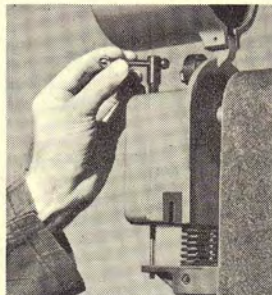
**G. Massive Contact Wheels; Rests Double As A Back Stop.** When use of the extra large 10" diameter contact wheels are required for contour, or heavy duty grinding, belt guards can be quickly removed simply by loosening two wing nuts. When finishing flat work, rests can be used as a back stop, preventing work from being carried along with the belt.

**H. Large, Husky Platen.** Ruggedly built 2½" x 6½" platen provides firm abrasive belt support over a large area. Platen is especially helpful when doing work that requires heavy pressure on belt.

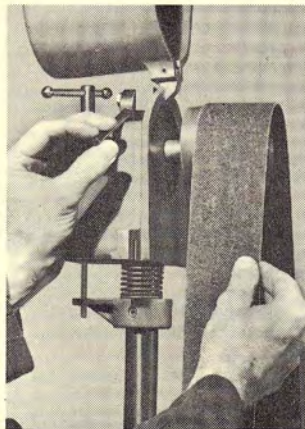
**I. Built-in Dust Chutes.** Cast iron belt guards are designed with integral dust chutes for fast, easy connection of Rockwell "High Efficiency" Dust Collector.



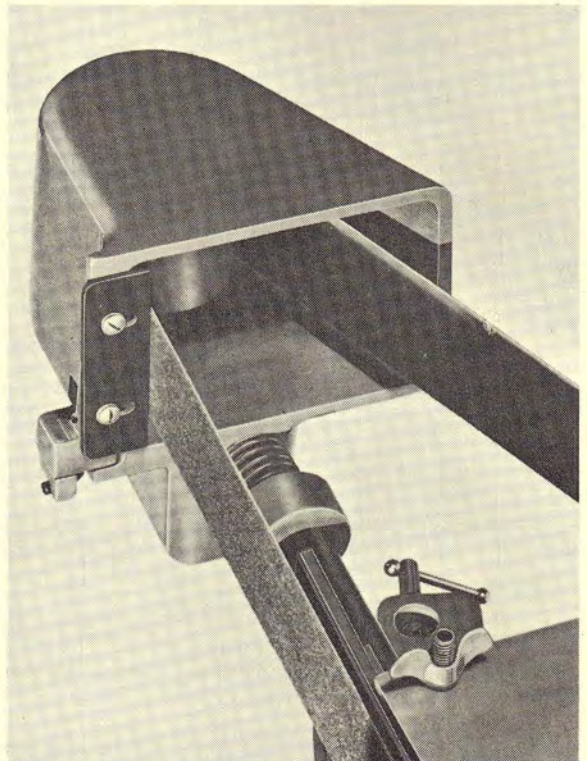
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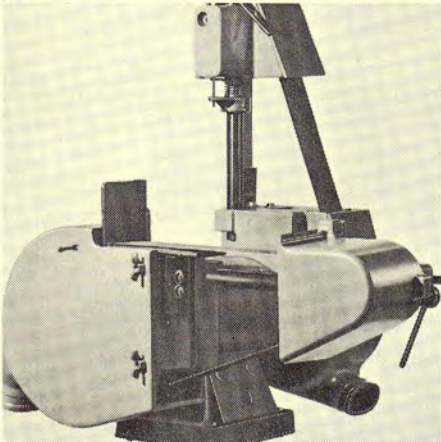
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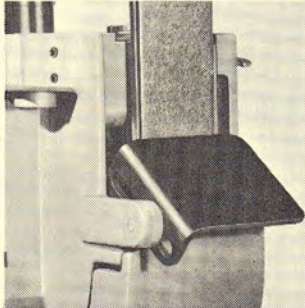
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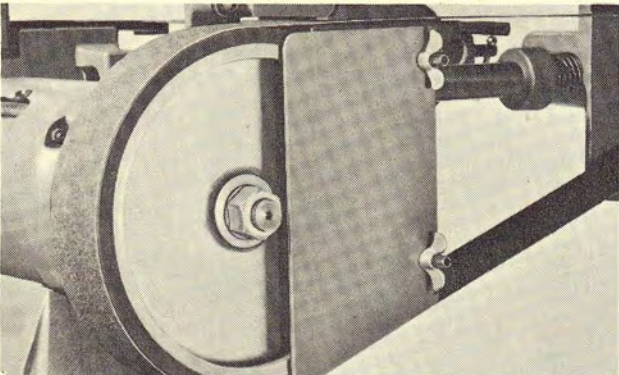
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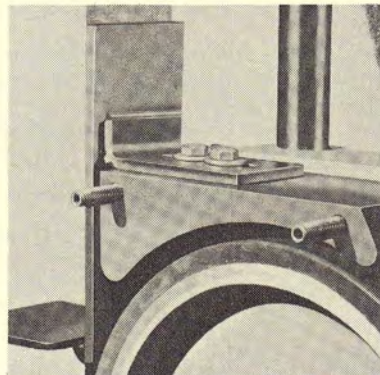
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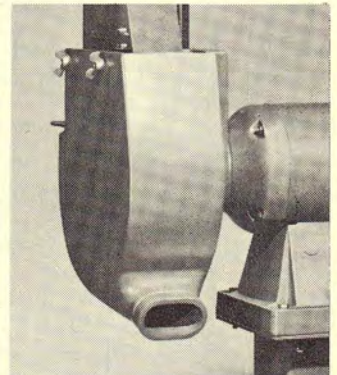
F.



G.



H.



I.

# NEW ROCKWELL TWIN BELT FINISHER . . . A "Full Spectrum" Machine

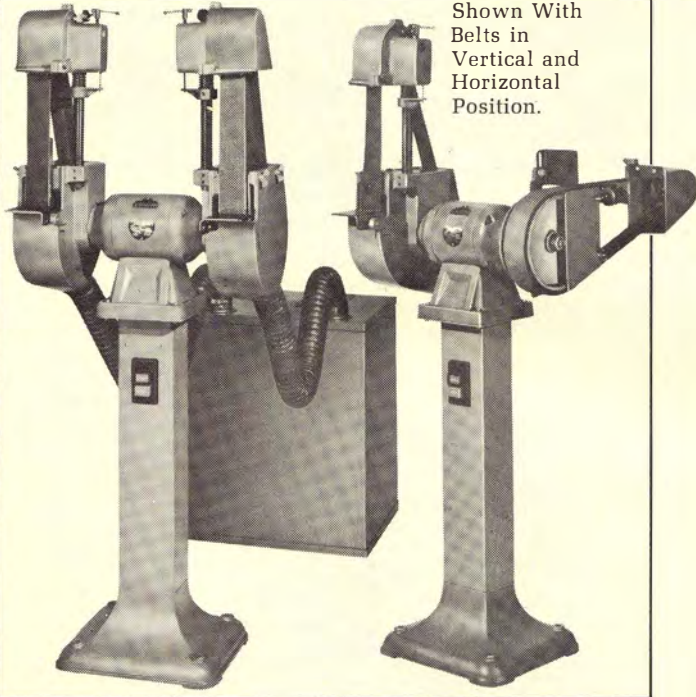
## No. 23-153

### Pedestal Model

Shown With Belts in Vertical Position and With Accessory "High Efficiency" Dust Collector

## No. 23-153 Pedestal Model

Shown With Belts in Vertical and Horizontal Position.



## A Versatile, Highly Productive Finishing Machine With LVC 24-Volt Controls!

The Rockwell Twin Belt Finisher will add speed and efficiency to your grinding or finishing operations. Equipped with 2½" x 60" abrasive belts—a 40 grit belt for rough stock removal . . . an 80 grit belt for finishing—it can be operated horizontally, vertically, or at any degree in between.

Coated, bonded or modern 3-dimensional abrasive belts may be used. This makes the Rockwell Twin Belt Finisher well suited for a wide variety of operations including grinding, deburring, finishing, sharpening, sanding, cleaning and polishing. That's why it is a valuable unit in foundries, pattern shops, plating departments, tool-rooms and assembly departments . . . wherever fast stock removal or finishing is required.

## Stop and see this "profit builder" in action today!

NOTE: For New Rockwell "High Efficiency" Dust Collectors, See Section D1, Page 1.

NOTE: For Additional Finishing Accessories, See Section C9, Page 3.

## CATALOG LISTING

COMPLETE TWIN BELT FINISHER, Bench or Pedestal Mounted, With Motor and Controls Factory Mounted and Wired as Specified Below

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	TYPE	SHIPPING WT. LBS.	CAT. NO.	CAT. NO. 200 V
Single Phase 1 Horsepower	On-Off Toggle Switch	TENV	60-1725	115/230	Bench	179	23-151	
	24 V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TENV	60-1725	115/230	Pedestal	233	23-153	
Three Phase ½ Horsepower	24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TENV	60-1725	230/460	Pedestal	222	23-154	23-156

NOTE: Single phase electricals will be supplied wired for 230 V, unless 115 V is specified. Three phase electricals will be supplied wired for 230

## MACHINE DATA

### Motor:

Horsepower . . . . . 1 HP, Single Phase; 1½ HP, Three Phase  
Shaft Diameter . . . . . 7/8" (22.22 mm)  
Frame Diameter . . . . . 6 5/8" (168.3 mm)

All Motors, Except 200 V, Are Dual Voltage With Reconnectable Feature. Single Phase Motors Are Capacitor Start Type.

### Contact Wheel:

Diameter . . . . . 10" (254 mm)  
Face . . . . . 2 1/2" (63.5 mm)  
Hole . . . . . 7/8" (22.22 mm)

### Belt:

Width . . . . . 2 1/2" (63.5 mm)  
Length . . . . . 60" (152.4 mm)  
Speed . . . . . 4500 sfpm (2286 cm/sec)

### Bench Type:

Base . . . . . 8 1/2" x 8 1/2" (216 x 216 mm)  
Width . . . . . 25 3/4" (654 mm)  
Depth (Belts Vertical) . . . . . 15 1/2" (387 mm)  
(Belts Horizontal) . . . . . 29 1/2" (749 mm)  
Height (Belts Vertical) . . . . . 30 1/4" (768.4 mm)  
(Belts Horizontal) . . . . . 17" (431.8 mm)  
Tool Rest From Base . . . . . 10 3/8" (263.5 mm)  
Platen From Base (Belt Horiz.) . . . . . 13" (330.2 mm)

### Pedestal Type:

Base . . . . . 14 1/4" x 16" (362 x 406 mm)  
Width . . . . . 25 3/4" (654 mm)  
Depth (Belts Vertical) . . . . . 15 1/4" (387 mm)  
(Belts Horizontal) . . . . . 29 1/2" (749 mm)  
Height (Belts Vertical) . . . . . 63 1/4" (1606.5 mm)  
(Belts Horizontal) . . . . . 50" (1270 mm)  
Tool Rest From Floor . . . . . 43 3/8" (1102 mm)  
Platen From Floor (Belt Horiz.) . . . . . 46" (1168 mm)

### Platen:

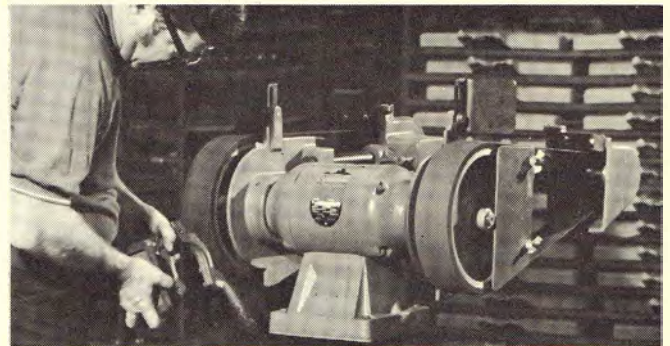
Width . . . . . 2 5/8" (66.7 mm)  
Length . . . . . 6 1/2" (165.1 mm)

### Weight:

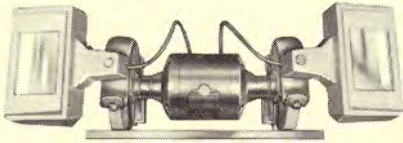
Pedestal Model w/LVC . . . . . 233 lbs. (105.69 kg)  
Pedestal Model w/Toggle Switch . . . . . 227 lbs. (102.97 kg)  
Bench Model . . . . . 179 lbs. (81.19 kg)

## STANDARD EQUIPMENT

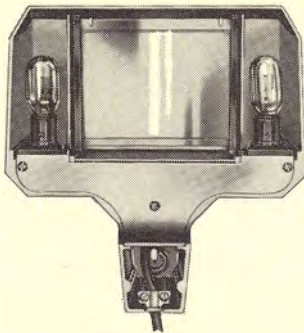
Twin Belt Finishers are furnished with wheel guards; tool rests; two rubber contact wheels; one 40 G and one 80 G, aluminum oxide belt.



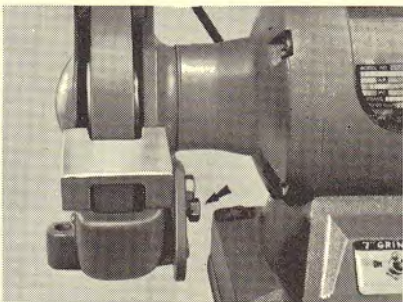
**QUALITY FEATURES  
THAT MAKE THE  
7" STANDARD GRINDER  
YOUR BEST BUY**



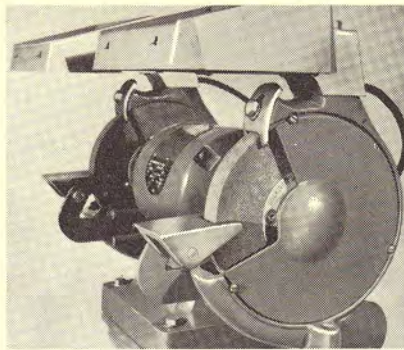
**"Thin-Line" Motor:** The slim design of the motor, combined with the extra long end bells, assures ample clearance for grinding odd-shaped items and long stock. Totally enclosed, it incorporates double sealed ball bearings, plus an extra seal, to keep out harmful abrasive dust. Note how Twin-Lite® Safety Shields may be easily swung out of the way, yet are instantly available when required.



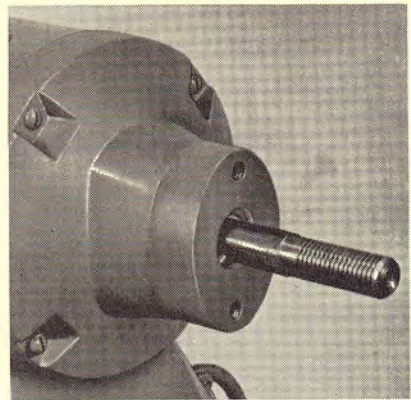
**Famous Twin-Lite® Safety Shields:** Designed to operate independently of the shop lighting system, they have no equal. Double strength, shatterproof glass safeguards operator's eyes. Special spring clips prevent rattle. Bayonet type bulbs stay tight and are shielded to prevent glare. Ideally placed, they throw a full flood of light on both sides and face of wheel without casting any shadow.



**Precision Ground Tool Rests:** These fully machined tool rests feature a single mounting screw that locks them rigidly in place, yet they may be quickly removed for accessory attachments. They adjust completely for the exact grinding angle desired. Note the special ledges that permit grinding on both sides as well as the face of the wheel.

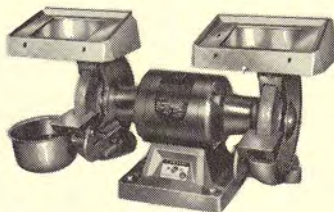


**Advanced Safety Features:** This unmatched combination of safety features makes the Rockwell-Delta Grinder the safest 7" grinder on the market! Shatterproof glass in patented eye-shields, heavy cast iron guards with integral dust chutes, removable steel side plates, and adjustable spark deflectors provide maximum safety to the operator.

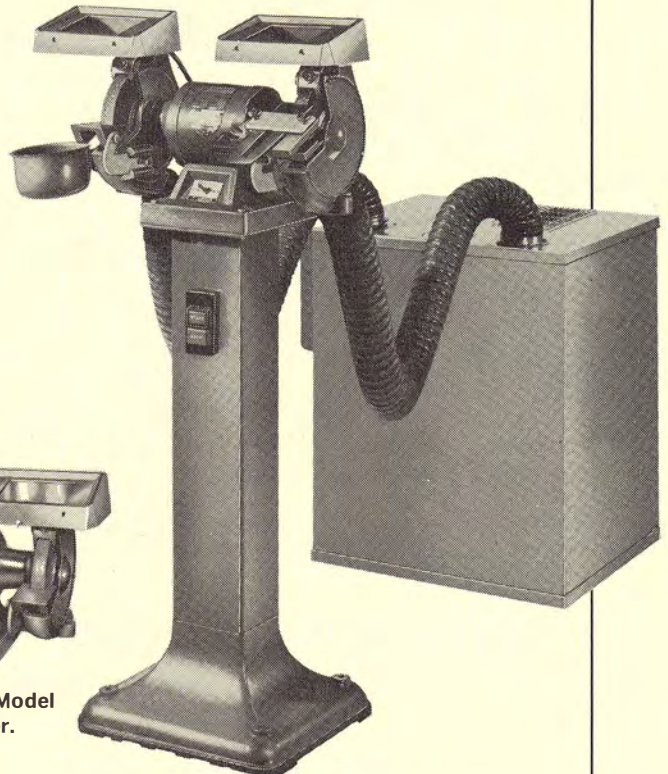


**Specially Designed End Bells:** Unique End Bell Hubs are oval in cross section—thick from top to bottom for extra rigidity—thin from front to back to give an extra measure of room for manipulating odd-shaped work pieces. These hubs extend out extra far, provide more room between the grinding wheel and the motor.

**No. 23-212  
Pedestal Model  
7" Standard Grinder  
Shown With  
Accessory 23-294  
Edge Tool Grinding  
Attachment and  
"High Efficiency"  
Dust Collector.**



**No. 23-200 Bench Model  
7" Standard Grinder.**



**Here's the Finest, Safest, Most Accurate 7" Grinder That You Can Buy! Why?** Because it has built into it all the famous Rockwell-Delta Quality features that have made Delta 7" grinders the *accepted standard* in thousands of the nation's shops for more than 25 years.

Check it feature for feature with any other 7" grinder on the market. Listen to its quiet, smooth operation. You'll see why leaders in industry, schools and commercial shops continually make it their *first choice!*

## STANDARD EQUIPMENT

Grinders are furnished with a water pot, Twin-Lite® safety shields, wheel guards, tool rests and two wheels. Single phase models are wired for 115V operation and include on-and-off switch with 115V 8-foot grounding cord and 3-prong plug.

**Note: Four No. 23-280 Lamp Bulbs must be ordered separately.**

**ALSO MADE IN CANADA**

# ROCKWELL 7" STANDARD GRINDER

## MACHINE DATA

### Motor:

Horsepower .....1/2  
Shaft:

Diameter .....5/8" (15.875 mm)  
Extends Beyond

Flange .....13/4" (44.45 mm)  
Frame Diameter .....523/32" (145.26 mm)

All Motors, Except 200 V, Are Dual Voltage With Reconnectable Feature. Single Phase Motors Are Capacitor-Start Type.

### Wheels:

Diameter .....7" (177.8 mm)  
Face .....1" (25.4 mm)

Hole .....5/8" (15.875 mm)  
Distance Between

Centers .....141/2" (368.3 mm)

### Pedestal Type:

Base .....141/4 x 16" (361.95 x 406.4 mm)  
Width .....231/4" (590.55 mm)

Depth .....15" (381 mm)  
Height .....471/2" (1206.5 mm)

Tool Rest From Base .....40" (1016 mm)

### Bench Type:

Base .....81/2 x 81/2" (215.9 x 215.9 mm)  
Width .....231/4" (590.55 mm)

Depth .....11" (279.4 mm)  
Height .....133/4" (349.25 mm)

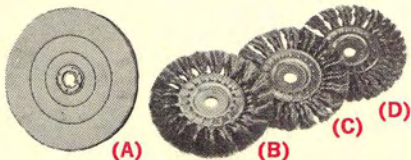
Tool Rest From Base .....63/8" (168.27 mm)

## QUALITY ACCESSORIES

**No. 23-267 (old 1267) Vitreous Aluminum Oxide Wheel, 5/8 x 7", 46 G, Grade N, 5/8" hole.** Special friable wheel for cool grinding of drills, plane blades, chisels, etc. 2 lbs.

**No. 23-815 Aluminum Oxide Wheel, 1 x 7", 60 G, Grade N, 5/8" hole.** 4 lbs.

**No. 23-816 Aluminum Oxide Wheel, 1 x 7", 46 G, Grade M, 5/8" hole.** 4 lbs.



**(A) No. 23-825 8" Buffing Wheel for 5/8" arbor, 3/4" face, 48 ply, fine muslin, cushion type with three circles of lock-**

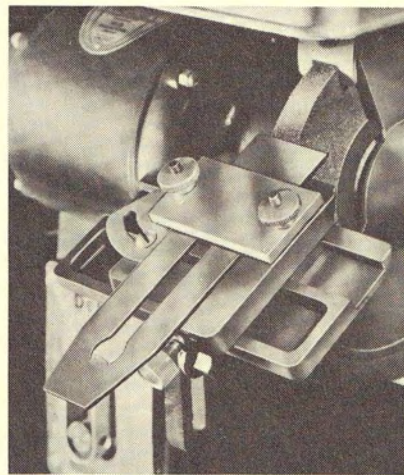
stitched sewing. Includes one pair of toothed flanges for 5/8" arbor and instructions for use. A professional quality, general purpose buff recommended for light cutting down and for finish coloring. 1 lb.

**(B) No. 23-632 (old 1236) Wire Brush, 6" diameter, fine, 5/8" hole.** 1 lb.

**(C) No. 23-637 (old 1237) Wire Brush, 6" diameter, medium, 5/8" hole.** 1 lb.

**(D) No. 23-638 (old 1238) Wire Brush, 6" diameter, coarse, 5/8" hole.** 1 lb.

**No. 23-025 (old 1250) Twin-Lite® Safety Shield (two required).** Without bulbs. 5 lbs.



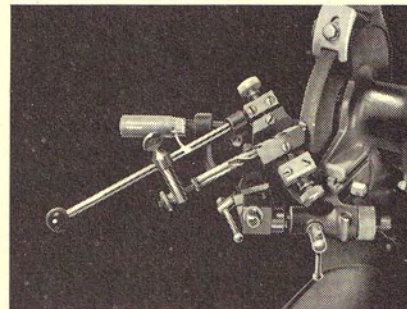
**No. 23-294 (old 1294) Edge Tool Grinding Attachment.** Ideal for school shops, cabinet shops, and all types of wood-working shops. Although especially recommended for sharpening plane irons, this attachment also does an excellent job of grinding wood chisels, putty knives, scrapers and similar items up to 3 1/4" wide.

Slide is notched for wooden handles of wood chisels, including "butts" which have a very short chisel blade. Adjustable quadrant permits accurate grinding of angle knives, assures absolute right angle position for straight knives. Knurled nut gives hairline adjustment

for amount of "cut." Blade or chisel being ground can be lifted off and inspected at any time without disturbing the micrometer adjustment of clamp and carriage. No. 23-267 Vitreous Aluminum Oxide Wheel is recommended for 7" Standard Grinder. Can be used with No. 23-312 Diamond Wheel Dresser instead of No. 23-664 Wheel Dressing Tool Holder. 6 lbs.

**No. 23-280 (old 1280) Appliance Type Bulb, clear glass, 25 watt, 115-125V, with double contact bayonet ("plug-in") base.** 1/2 lb.

**No. 23-805 Pedestal.** Used to convert 7" Standard Bench Grinder to a pedestal type. 67 lbs.



**No. 23-296 (old 1296) Drill Grinding Attachment.** So accurately made and easy to operate that anyone can do a perfect drill sharpening job. Grinds with the face of the wheel. Micrometer settings insure evenly ground lips. Amount of lip clearance on drill is just right, with enough of the heel cut away to provide clearance without weakening the cutting edge. With it you can grind straight shank twist drills to fit your job—with clearance and point angles at any degree you need. Capacity—1/8" to 5/8" drills. Furnished with No. 23-664 Holder for Wheel Dresser.

**Order No. 23-312 (old 3121) Diamond Wheel Dresser separately.** 12 lbs.

**NOTE: For New Rockwell "High Efficiency" Dust Collectors, See Page 1, Section D1.**

**NOTE: For Additional Grinder Accessories, See Page 3, Section C9.**

## CATALOG LISTING

COMPLETE 7" GRINDER, Bench or Pedestal Mounted, with Motor and Controls Factory Mounted and Wired as Specified Below.

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HZ. AND MOTOR RPM	MOTOR VOLTAGE	TYPE	SHIP. WT. LBS.	MACHINE CAT. NO.	MACHINE CAT. NO. 200 V
Single Phase 1/2 Horsepower	* On-Off Toggle Switch	TENV	60-1725	115/230	Bench	80	23-200	
	* 24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TENV	60-1725	115/230	Pedestal	160	23-212	
	* On-Off Toggle Switch	TENV	60-3450	115/230	Bench	80	23-201	
	* On-Off Toggle Switch	TENV	50-2850	115/230	Bench	88	23-202	
	* 24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TENV	60-3450	115/230	Pedestal	160	23-213	
Three Phase 1/2 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TENV	60-3450	230/460	Pedestal	165	23-215	23-214
	Three Phase Bench Models Not Factory Wired.							
	None-Separate Toggle Switch Furnished For Twin Lites	TENV	60-1725	230/460	Bench	79	23-207	23-209
	None-Separate Toggle Switch Furnished For Twin Lites	TENV	60-3450	230/460	Bench	75	23-206	23-208

\*Motor Control Switch also operates Twin Lites.

**NOTE: Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for**

**230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only.**

# New Rockwell 7" Grinder/Finisher

"A Full Spectrum Machine"

A versatile 2-in-1 machine, with LVC 24-volt controls, that SAVES TIME, SAVES SPACE, SAVES COST!

**A. Exclusive Rockwell LVC 24-Volt Safety Control System.** Only the New Rockwell 7" Grinder/Finisher offers a low 24 volts at the push button station for extra operator safety. Magnetic control system provides on-off control, low voltage, no voltage (when power is interrupted, machine can be started only by pressing start button), and motor overload protection. On three phase systems, overload protection is provided on all three legs. LVC available on pedestal models only.

**B. Patented Twin-Lite® Safety Shield.** Designed to operate independently of the shop lighting system, it has no equal. Double strength, shatterproof glass safeguards operator's eyes. Special spring clips prevent rattle. Bayonet type bulbs stay tight and are shielded to prevent glare. Ideally placed, they throw a full flood of light on both sides and face of wheel without casting any shadow.

**C. Precision Ground Tool Rest.** Fully machined tool rest has a single mounting screw that locks it rigidly in place, yet rest may be quickly removed for accessory attachments. Rest adjusts for exact grinding angle desired. Special ledges permit grinding on both sides as well as face of grinding wheel. Note convenient location of water pot.

**D. Advanced Safety Features.** An unmatched combination of safety features makes the Rockwell 7" Grinder/Finisher the

safest on the market. Shatterproof glass in eyeshield, heavy cast iron guards with integral dust chutes, removeable steel side plate, and adjustable spark deflector provide maximum operator safety.

**E. Belt Tracking Control.** Knurled knob has fine thread adjustment for fast, easy belt tracking, also holds setting firmly in place.

**F. Spring-Loaded Belt Tensioner.** Changing belts is a simple operation—just remove guard, depress spring-loaded tensioner, and replace belt. Tensioner applies the proper amount of tension on sanding belt for smooth operating performance.

**G. Adjustable Sanding Rest.** Large work support for sanding may be adjusted in or out, also tilted for exact angle desired.

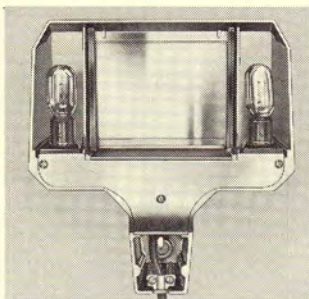
**H. Sanding Rest Doubles As A Back Stop.** When finishing flat work, sanding rest can be used as a back stop to prevent work from being carried along with the belt.

**I. Large, Husky Platen.** Ruggedly built 2 $\frac{1}{8}$ " x 5 $\frac{5}{8}$ " platen provides firm sanding belt support over a large area. Platen is especially helpful when doing work that requires heavy pressure on belt.

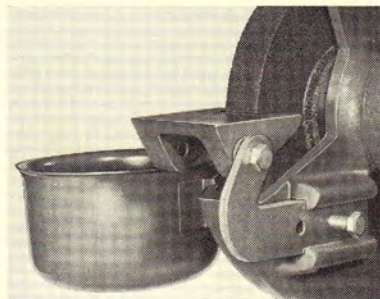
**J. Quickly Removed Contact Wheel Guard.** When use of the contact wheel is required for contour or heavy duty sanding, belt guard can be quickly removed simply by loosening two screws.



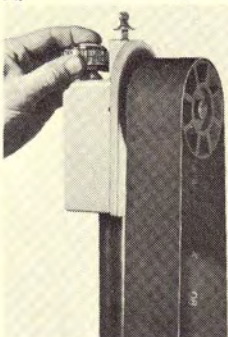
A.



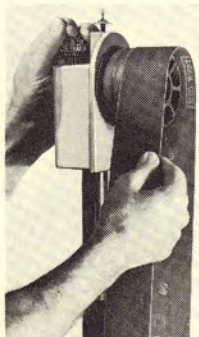
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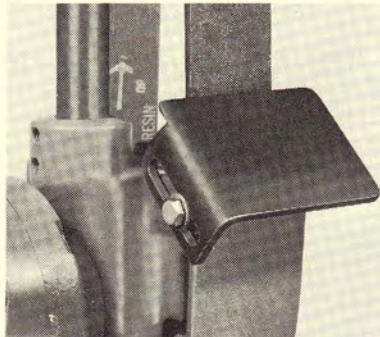
C.



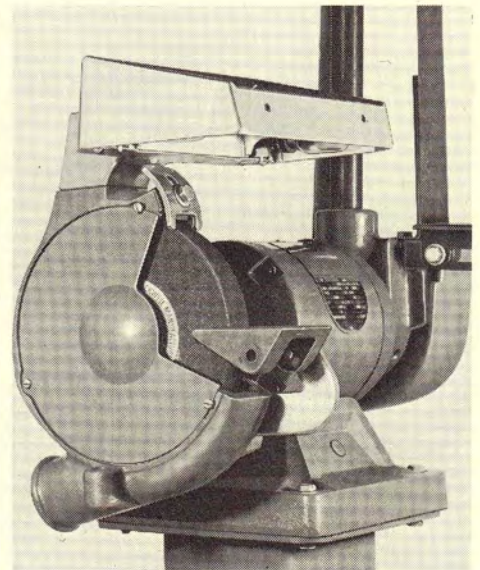
E.



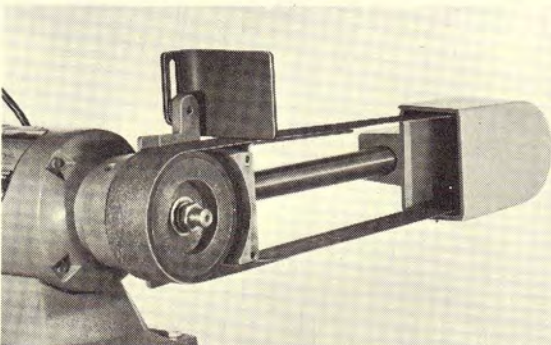
F.



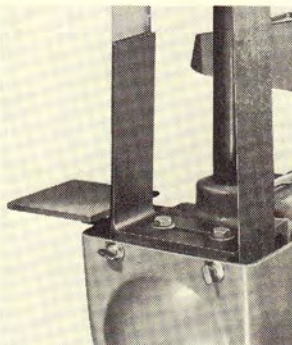
G.



D.



H. I.



J.

# NEW ROCKWELL 7" GRINDER/FINISHER . . . "A Full Spectrum Machine"

## MACHINE DATA

### Motor:

Horsepower . . . . . ½  
 Shaft Diameter . . . . . 5/8" (15.88 mm)  
 Frame Diameter . . . . . 5 23/32" (145.26 mm)  
*All Motors, Except 200V, Are Dual Voltage With Reconnectable Feature. Single Phase Motors Are Capacitor Start Type.*

### Grinder Wheel:

Diameter . . . . . 7" (178 mm) Face . . . . . 1" (25.4 mm)  
 Hole . . . . . 5/8" (15.88 mm)

### Contact Wheel:

Diameter . . . . . 4 1/2" (114 mm) Face . . . . . 2" (50.8 mm)  
 Hole . . . . . .670 (17 mm)

### Belt:

Width . . . . . 2" (50.8 mm) Length . . . . . 48" (1219 mm)  
 Speed . . . . . .4100 sfpm (2082 cm/sec)

### Bench Type:

Base . . . . . 8 1/2" x 8 1/2" (216 x 216 mm)  
 Width . . . . . 21" (533 mm)  
 Depth (Belt Vertical) . . . . . 11" (279 mm)  
 (Belt Horizontal) . . . . . 27" (686 mm)  
 Height (Belt Vertical) . . . . . 27 3/8" (695 mm)  
 (Belt Horizontal) . . . . . 13 3/4" (349 mm)  
 Grinder Tool Rest From Base . . . . . 6 5/8" (168 mm)  
 Finisher Tool Rest From Base . . . . . 9 3/4" (248 mm)  
 Finisher Platen From Base (Belt Horiz.) . . . . . 8 1/2" (216 mm)

### Pedestal Type:

Base . . . . . 14 1/4" x 16" (362 x 406 mm)  
 Width . . . . . 21" (533 mm)  
 Depth (Belt Vertical) . . . . . 11" (279 mm)  
 (Belt Horizontal) . . . . . 27" (686 mm)  
 Height (Belt Vertical) . . . . . 60 5/8" (1540 mm)  
 (Belt Horizontal) . . . . . 47" (1194 mm)  
 Grinder Tool Rest From Base . . . . . 39 7/8" (1013 mm)  
 Finisher Tool Rest From Base . . . . . 43" (1092 mm)  
 Finisher Platen From Base (Belt Horiz.) . . . . . 41 3/4" (1060 mm)

### Platen:

Width . . . . . 2 1/8" (54 mm) Length . . . . . 5 1/2" (140 mm)

### Weight:

Bench Model . . . . . 100 Lbs. (45 kg)  
 Pedestal/Finisher w/LVC . . . . . 148 Lbs. (67 kg)  
 Pedestal/Finisher w/Toggle Switch . . . . . 143 Lbs. (64 kg)



**No. 23-567  
 Pedestal Model**  
 Shown With  
 Finisher in  
 Vertical  
 Position and  
 With  
 Accessory  
 "High  
 Efficiency"  
 Dust Collector.

**No. 23-567  
 Pedestal Model**  
 Shown With  
 Finisher in  
 Horizontal  
 Position

Here's a really versatile combination—the famous Rockwell 7" Standard Grinder combined with a New 2" x 48" Belt Finisher.

Designed for "time saving" performance, this new machine is well suited for all types of users—metal shops, wood shops, foundries, garages, schools or wherever grinding, sanding or finishing is required.

With the 7" grinder you can remove stock . . . snag . . . sharpen tool bits . . . shape parts . . . clean rust and scale and do dozens of additional jobs. With the 2" x 48" belt finisher you can sand to a line . . . deburr parts or pieces . . . contour a shape . . . finish for painting or plating . . . polish finished products . . . sharpen cutting edges . . . clean intricate parts . . . and handle many other operations.

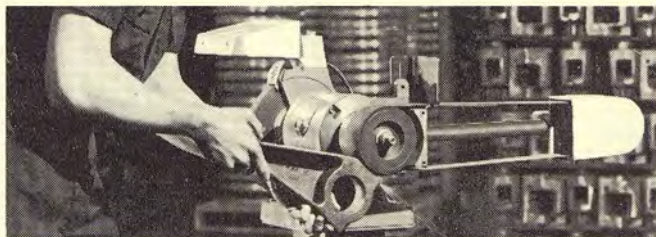
The wide versatility of the New Rockwell 7" Grinder/Finisher, together with its many excellent features, makes it a valuable addition to any shop.

Stop and let us show you this big performer in action!

## STANDARD EQUIPMENT

Grinder/Finishers are furnished with a water pot; Twin Lite® safety shield; wheel guards; tool rests; one 46G, Grade M, aluminum oxide wheel; one rubber contact wheel, and one 2" x 48", 80G, aluminum oxide belt.

Note: Two No. 23-280 Lamp Bulbs must be ordered separately.



NOTE: For New Rockwell "High Efficiency" Dust Collectors, See Page 1, Section D1.

NOTE: For Additional Grinder Accessories, See Page 2, Section C5, also Page 3, Section C9.

## CATALOG LISTING

COMPLETE 7" GRINDER/ FINISHER, Bench or Pedestal Mounted, With Motor and Controls Factory Mounted and Wired as Specified Below

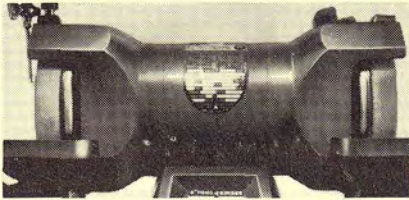
MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	TYPE	SHIPPING WT. LBS.	CAT. NO.	CAT. NO. 200 V
Single Phase ½ Horsepower	*On-Off Toggle Switch	TENV	60-3450	115/230	Bench	100	23-570	
	*24 V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TENV	60-3450	115/230	Pedestal	148	23-567	
Three Phase ½ Horsepower	None—Separate Toggle Switch Furnished for Twin Lite	TENV	60-3450	230/460	Bench	100	23-568	23-571
	24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC). Separate Toggle Switch Furnished for Twin Lite.	TENV	60-3450	230/460	Pedestal	148	23-569	23-572

\*Motor Control Switch also operates Twin Lite.

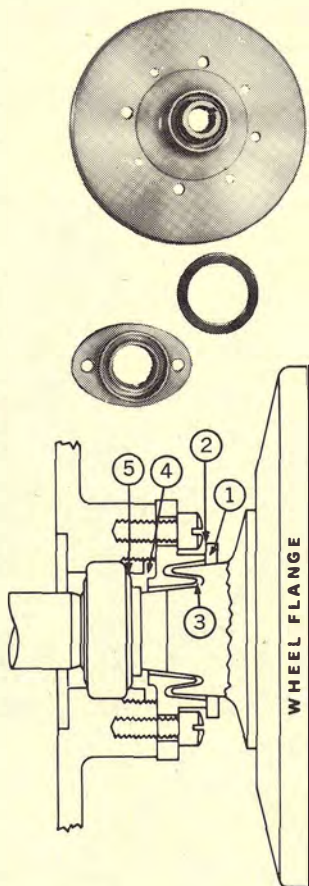
NOTE: Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230

V, unless 460 V is specified. Power Cord and Plug supplied for single phase only.

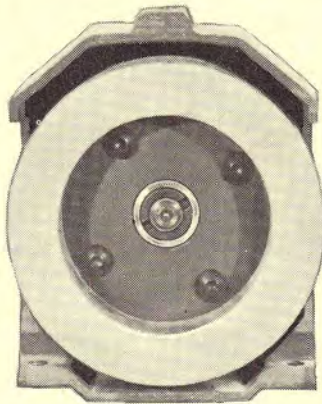
## QUALITY FEATURES THAT ASSURE PRECISION GRINDING PERFORMANCE



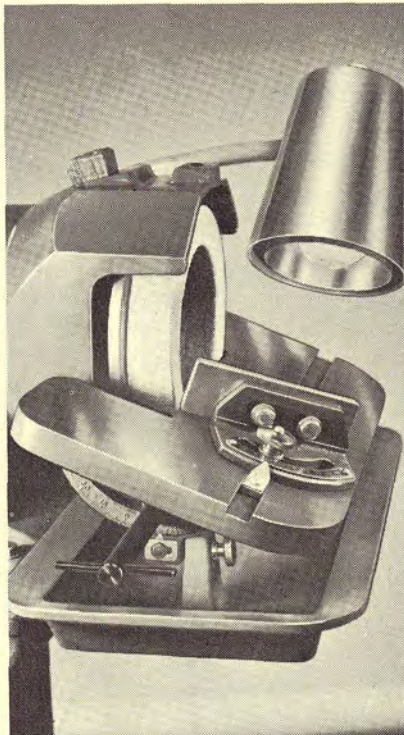
**Specially-Designed Motor:** Totally enclosed motor has heavy, integrally cast end bells which double as husky, safe wheel guards. All motors are dual voltage, re-connectable type. Single phase motors are powerful capacitor-start type that won't dim lights and that reach full grinding speed quickly.



**Motor Bearings Protected 5 ways:** It is impossible for water or abrasive grit to reach the motor bearings. Here's why: (1) Neoprene slinger washer throws water off by centrifugal force. (2) Positive contact of washer against seal closes opening to labyrinth. (3) Labyrinth type, centrifugally designed bearing seal interlocks with wheel flange. (4) Space between labyrinth seal and motor bearing is packed with grease. (5) Actual motor bearing is sealed as final protective measure.



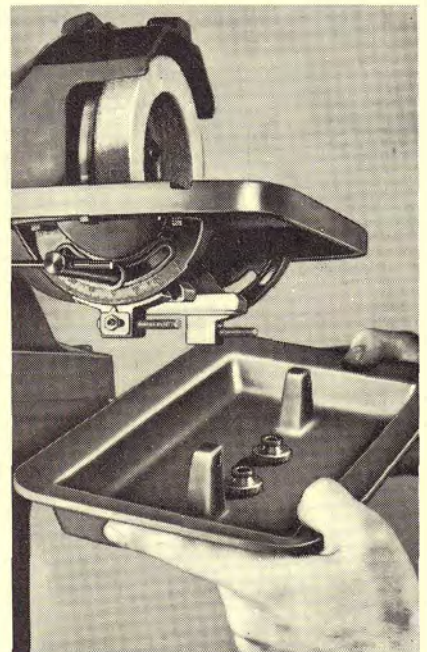
**Wheel Centering Ring (Shown in Place):** A ring is provided to automatically center wheels when mounted. Flanges have two sets of mounting holes, one for silicon-carbide or aluminum-oxide wheels and one for diamond wheels.



**Husky, Extra Large Tables:** Made of cast iron, they ride on widely spaced trunnions for maximum rigidity in operation. Easy-to-read scales at both ends facilitate tilting to 30° in and 45° out for grinding cutter bit angles easily, accurately and safely. A 1/2 x 3/16" groove accommodates jigs and fixtures. Wheel changing is easy because *tables lift off machine without need for using wrenches.*



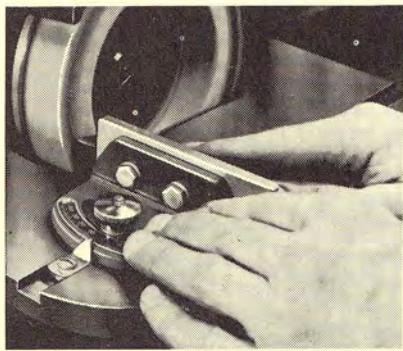
**Handy Brake; Convenient Reversing Switch:** Positive brake quickly stops wheels to save valuable production time. Switch instantly reverses wheel rotation so wheel is turning downward at both front and rear grinding points. Therefore, operator's hands are always safely placed outside and away from upward traveling face of wheel.



**Quick-Release Coolant Pans:** Designed to catch all water and sludge. Knurled knobs permit their quick removal for washing away from grinder. This saves operator's time, also keeps machine and working area clean and dry for added safety.

# ROCKWELL 6" TOOL GRINDER

FEATURES—continued



**Specially Designed Sliding Angle Jig (Standard Equipment):** Tilt angle scale, with adjustable pointer, facilitates accurate grinding of compound angles up to 45°, right or left. Movable face plate can be adjusted to bring support of cutting tool as close to wheel as desired. This feature assures better grinding with greater safety for the operator.



**Diamond Pointed Wheel Dresser:** This accessory dresses aluminum oxide and silicon carbide wheels. With the aid of the Wheel Dressing Tool Holder, it quickly sharpens the face of the wheel and trues it exactly parallel to table groove. Thus, tool bits can be sharpened to exact specifications.

## QUALITY GRINDER EXTRAS

- To assure smooth, vibration-free operation, aluminum wheel flanges are dynamically balanced, then faced off after assembly. Light in weight, they permit quicker starting and stopping.
- Lamp Attachment has a flexible gooseneck for providing a full flood of light at the four grinding points. Nylon cool-shield on lamp prevents burned fingers.
- Handy Water Pot With Faucet conveniently mounts on either side. A tapered brass mounting post securely holds it in place.
- Balanced motor and wheels assure extra smooth operation.



**No. 23-501 Bench Grinder** Shown With Accessory 23-805 Pedestal and Wheels (Order Separately).

If you grind or lap carbide-tipped tool bits or sharpen either high-speed steel or alloy steel single-point cutting tools, the Rockwell-Delta 6" Tool Grinder is the ideal machine for you.

**As a Small Shop Owner You Can Do Your Own Grinding Economically and Quickly, Right in Your Own Shop, the Way You Prefer.** It reduces operating costs because it makes possible internal grinding, therefore, a smaller investment in tools is required. It increases production. There's no loss of production time because tools are ground right in the plant. It increases efficiency. Tools can be sharpened to exact specifications without delay.

**As a Large Shop Owner You Can Use the Rockwell-Delta 6" Tool Grinder to Relieve the Bottleneck on Your Larger Grinders.** When the tool room has your large grinders tied up, you can use the Delta Grinder to handle the smaller jobs. The use of smaller grinding wheels will save dollars in wheel costs, particularly when diamond wheels are used.

**As a School Shop Instructor You Can Teach Accurate Grinding on the Rockwell-Delta 6" Tool Grinder.** When you ask your students to grind a specific rake, clearance, or point angle, there will be no guesswork on their part. They can get it by setting the table and the sliding angle jig. Their work will have a single face, not many faces. Your students' work will meet the high standards you demand.

**With a Rockwell-Delta 6" Tool Grinder You Can Sharpen Tools to Your Specifications.** As a toolmaker, model maker, lathe operator or maintenance man, you can do precision grinding or diamond finishing of carbide-tipped tool bits, high-speed, alloy steel or carbon steel single-point cutting tools right in your plant to keep work moving through your shop. This inexpensive grinder also is ideal for sharpening boring bars, star drills, blades, and for roughing multiple point tools.

## STANDARD EQUIPMENT

All models have one each lamp attachment, water pot, sliding angle jig and

on-and-off reversing switch. Single phase models are wired for 115 V operation and include 115 V 8-foot grounding cord and 3-prong plug.

## MACHINE DATA

### Motor:

Horsepower .....<sup>1</sup>/<sub>2</sub>  
Totally Enclosed (TENV)

All Motors are Dual Voltage With Reconnectable Feature. Single Phase Motors Are Capacitor-Start Type.

### Wheels Recommended:

Size: 6" (152.4 mm) Diameter;  
1" (25.4 mm) Thick; 1" (25.4 mm) Face, With 1<sup>1</sup>/<sub>4</sub>" (31.75 mm) Hole  
Type ..... Plate Mounted (D6A2C Diamond Wheels)  
Bolt Circle ..... 3<sup>1</sup>/<sub>4</sub>" (82.55 mm)  
Holes in Plate (4):  
For Diamond Wheels <sup>5</sup>/<sub>8</sub>" (5.56 mm), Countersunk  
For Sil. Carb. and Alum. Ox. Wheels ..... 1<sup>3</sup>/<sub>2</sub>" (10.32 mm), Straight

### Wheel Flanges:

6" (152.4 mm) Diameter, Tapped For Mounting Wheels  
Aluminum, Dynamically Balanced

### Tables:

Tilt ..... 45° Out and 30° In  
Size ... 7<sup>1</sup>/<sub>4</sub> x 12<sup>3</sup>/<sub>4</sub>" (184.15 x 323.85 mm)  
Groove For Sliding Angle Jig ..... <sup>3</sup>/<sub>16</sub> x 1<sup>1</sup>/<sub>2</sub>" (4.76 x 12.7 mm)

### Dimensions, Overall, Bench Type:

Height:  
Without Lamp ... 14<sup>1</sup>/<sub>4</sub>" (361.95 mm)  
Width ..... 24<sup>3</sup>/<sub>4</sub>" (628.65 mm)  
Front to Back ..... 15" (381 mm)  
Base:

Overall Space On Bench 8<sup>1</sup>/<sub>2</sub> x 8<sup>1</sup>/<sub>2</sub>" (215.9 x 215.9 mm)  
Centers of Mounting Holes: 6<sup>3</sup>/<sub>4</sub> x 6<sup>3</sup>/<sub>4</sub>" (171.45 x 171.45 mm)

### Dimensions, Overall, Pedestal Type:

Height:  
Without Lamp ... 47<sup>1</sup>/<sub>4</sub>" (1200.15 mm)  
Width ..... 24<sup>3</sup>/<sub>4</sub>" (628.65 mm)  
Front to Back ..... 15" (381 mm)  
Base:

Overall Space On Floor:  
Width ..... 16" (406.4 mm)  
Front to Back ..... 14" (355.6 mm)  
Centers of Floor Mounting Holes:  
Left to Right ... 11<sup>7</sup>/<sub>8</sub>" (300.87 mm)  
Front to Back ..... 10" (254 mm)

## CATALOG LISTING

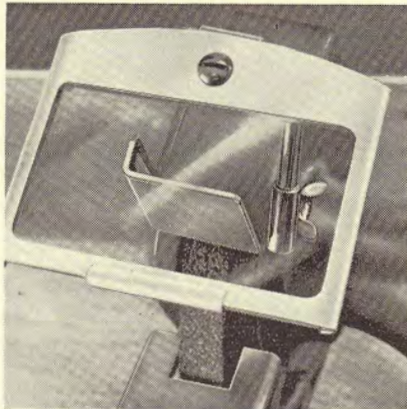
NO.	TYPE	MOTOR— <sup>1</sup> / <sub>2</sub> HP	SPEED RPM	SHIP. WT. LBS.
23-501	Bench	115/230 V, 60 Hz, Sgl. Ph.	3450	85
23-502	Bench	230/460 V, 60 Hz, 3 Ph.	3450	85
23-509	Bench	200 V, 60 Hz, 3 Ph.	3450	85

## ACCESSORY

**No. 23-805 Pedestal.** Used to convert 6" Bench Model Tool Grinder to a pedestal type. 67 lbs.

**NOTE:** For Additional Grinder Accessories, See Page 3, Section C9.

## ROCKWELL QUALITY FEATURES ASSURE SMOOTH GRINDER PERFORMANCE



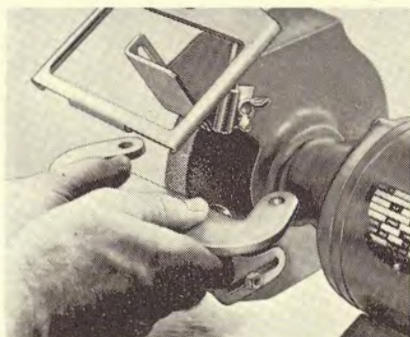
**Protective Eyeshield** . . . Each specially designed eyeshield contains two sections of glass that are completely enclosed within a protective metal frame. Mounting post provides additional positioning flexibility.

**Benefit:** Eyeshield safeguards operator's eyes while providing complete positioning flexibility for grinding on front or sides of wheel.



**Thin Motor Design** . . . Heavy duty motor is thin in design and completely enclosed.

**Benefits:** You have ample clearance for grinding long stock, even after wheel wear. Totally enclosed motor, which has shielded, lubricated-for-life ball bearings, keeps out harmful abrasive dust.



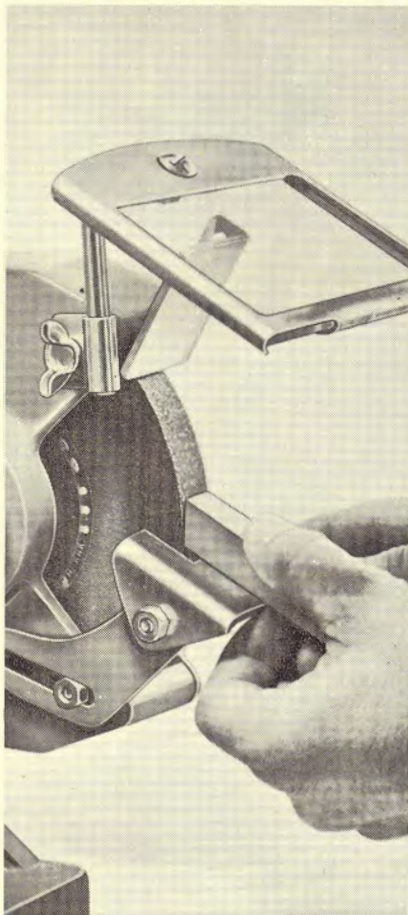
**Small End Bells** . . . The long, tapered end bells provide an extra amount of room between the motor and grinding wheel.

**Benefit:** You have ample clearance for grinding large or odd-shaped work pieces easily and quickly.



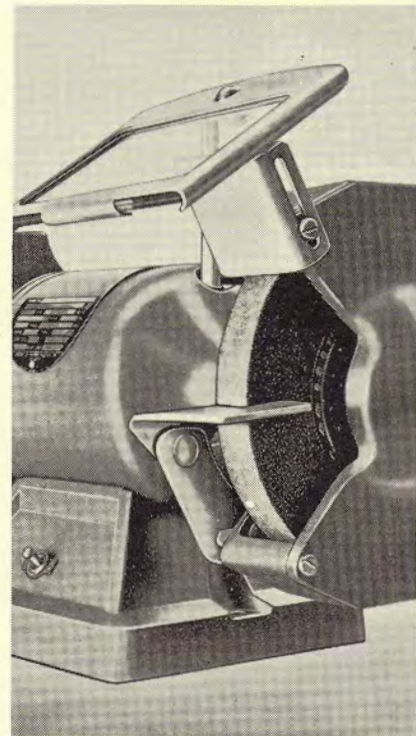
**Flexible Eyeshields** . . . Fully adjustable, they move up, down, left or right, to any desired position.

**Benefit:** You can position eyeshields to the exact angle desired for safe, accurate grinding.



**Fully Adjustable Tool Rests** . . . Adjust both horizontally and vertically . . . tilt for exact angle desired. Designed with wrap-around ledges.

**Benefits:** Complete adjustability feature enables you to position rests at any grinding angle desired. Wrap-around ledges permit grinding on sides as well as face of wheel.



**Designed for Safety** . . . Maximum safety is guaranteed by the protective eyeshields, adjustable spark deflectors, cast iron wheel guards and removable end plates.

**Benefits:** The Rockwell 6" Bench Grinder provides maximum safety for the operator.

## ROCKWELL QUALITY GRINDER EXTRAS

- **Rugged Motor Design**—Built for heavy duty grinding in industrial, commercial and school shops.
- **Quick-Mounting Eyeshields**—Can be mounted in a few minutes without requiring any disassembly of grinder.
- **Excellent Bearing Construction**—Large, lubricated-for-life ball bearings assure smooth grinder performance.
- **Wheel Guards Quickly Removed**—Enabled grinder to be quickly converted for use as a buffer or polisher.
- **Precision Balanced Wheels**—Balanced to assure extra smooth running—36 grit wheel for coarse grinding—60 grit wheel for fine grinding.
- **Three Conductor Cord**—8-foot, jacketed type cord with 3-prong grounding type plug, is U.L. and C.S.A. approved.
- **Lamp Mounting Feature**—Grinder base is drilled and tapped for mounting accessory Lamp Attachment.
- **Many Accessories Available**—Only Rockwell offers a complete line of accessories for increased grinder performance.

# ROCKWELL 6" BENCH GRINDER



This Rockwell 6" Bench Grinder is an *all-purpose unit* . . . excellent for grinding, polishing and buffing. It's ideally suited for use in tool rooms, experimental departments, foundries, garages, on farms, and in school and home workshops. Here's why: Its accuracy is insured by the balanced grinding wheels, a precision ground shaft and sealed-for-life ball bearings. Maximum safety is guaranteed by such features as adjustable spark deflectors, cast iron wheel guards, removable end plates and fully adjustable tool rests. Protective eyeshields and lamp attachment provide additional operator safety. Only that portion of the grinding wheel being used is actually exposed.

Increase the efficiency of your operation. Place one of these low-cost, versatile grinders at every bench in your shop!

## MACHINE DATA

### Motor:

Horsepower . . . . . 1/3  
 Volts . . . . . 115, Hertz . . 60, AC, 1 Phase  
 RPM . . . . . 3450  
 Arbor . . . . . 5/8" (15.875 mm) Diameter;  
 Ends Threaded 1/2"-20 (12.7 mm-20) Left and Right

### Wheels:

Size . . . . . 6" (152.4 mm) Diameter; 3/4" (19.05 mm) Face;  
 1/2" (12.7 mm) Hole  
 Distance Between Centers . . . . . 13 1/8" (333.38 mm)

### Wheel Flanges:

Diameter . . . . . 3" (76.2 mm)

### Dimensions, Overall:

Left to Right  
 With Eyeshields . . . . . 23 1/4" (590.55 mm)  
 Without Eyeshields . . . . . 17" (431.8 mm)  
 Front to Rear . . . . . 8 3/4" (222.25 mm)  
 Height . . . . . 9 3/8" (238.125 mm)

### Base:

Width . . . . . 7 3/8" (187.33 mm)  
 Front to Back . . . . . 6 5/8" (168.28 mm)  
 Mounting Holes (2), Center to Center . . . . 6 3/8" (161.9 mm)

## STANDARD EQUIPMENT

Grinders are furnished with two wheels (36 and 60 grit), eyeshields, wheel guards, spark deflectors, tool rests, on-and-off switch and 8-foot cord with 115 V grounding type plug. **Lamp Attachment must be ordered separately.**

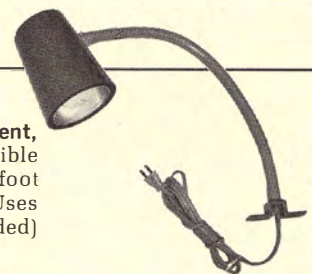
## CATALOG LISTING

### BASIC MACHINE

**No. 23-612 6" Bench Grinder.** With 1/3 HP motor, on-and-off switch, 8-foot cord with 115 V grounding type plug, eyeshields, wheel guards, spark deflectors, tool rests and two wheels—36 grit and 60 grit. Less lamp attachment. 44 lbs. UL listed.

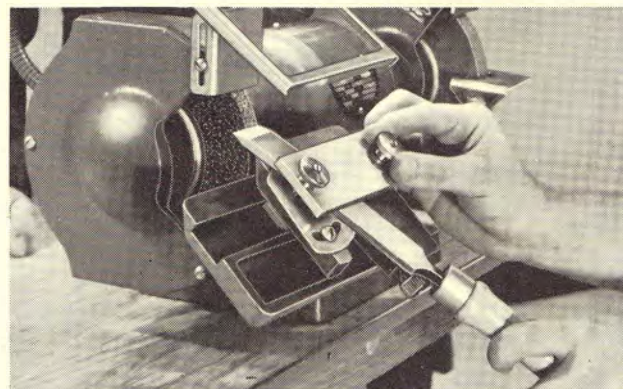
### BASIC ACCESSORY

**No. 25-857 Lamp Attachment,** for 115 V. Includes 18" flexible gooseneck, reflector and 8-foot cord with 2-prong plug. Uses standard bulb (not included) up to 75 watts. 3 lbs.



## CONVERT YOUR ROCKWELL 6" BENCH GRINDER TO AN EDGE TOOL GRINDER

You can do this simply by replacing the left wheel with the special No. 23-828 Wheel and the left tool rest with the No. 23-845 Edge Tool Grinding Attachment. No. 23-312 Diamond Dresser also recommended.



**No. 23-845 Edge Tool Grinding Attachment.** Ideal for school shops, cabinet shops, and all types of woodworking shops. Although especially recommended for sharpening plane irons, this attachment also does an excellent job of grinding wood chisels, putty knives, scrapers and similar items up to 3 1/4" wide.

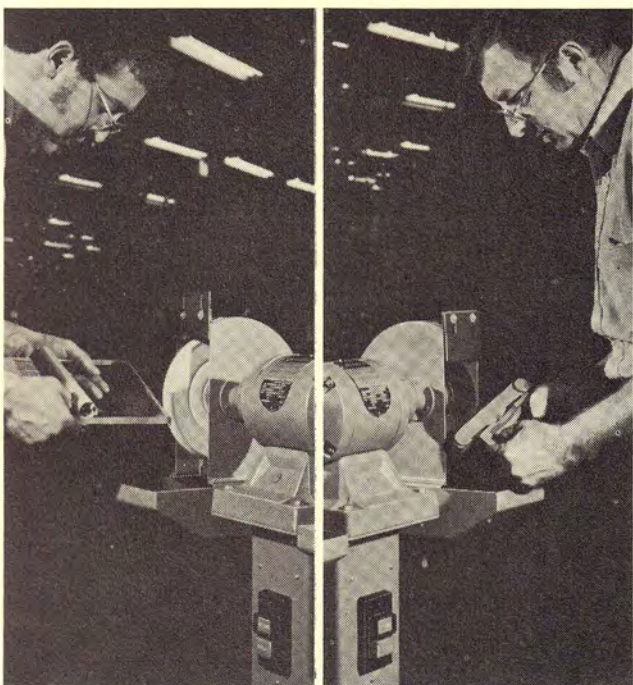
Slide is notched for wooden handles of wood chisels, including "butts" which have a very short chisel blade. Adjustable quadrant permits accurate grinding of angle knives, assures absolute right angle position for straight knives. Knurled nut gives hairline adjustment for amount of "cut." Blade or chisel being ground can be lifted off and inspected at any time without disturbing the micrometer adjustment of clamp and carriage. No. 23-828 resinoid bonded wheel is recommended. Can be used with No. 23-312 Diamond Wheel Dresser instead of No. 23-664 Wheel Dressing Tool Holder. 6 lbs.

**No. 23-828 Aluminum Oxide Wheel,** 1/2" x 6", 54 G, Grade K, 1/2" hole. A specially selected, resinoid bonded wheel recommended for sharpening edge tools at the standard speed of 3450 rpm, or for other work where cool grinding is important. 2 lbs.



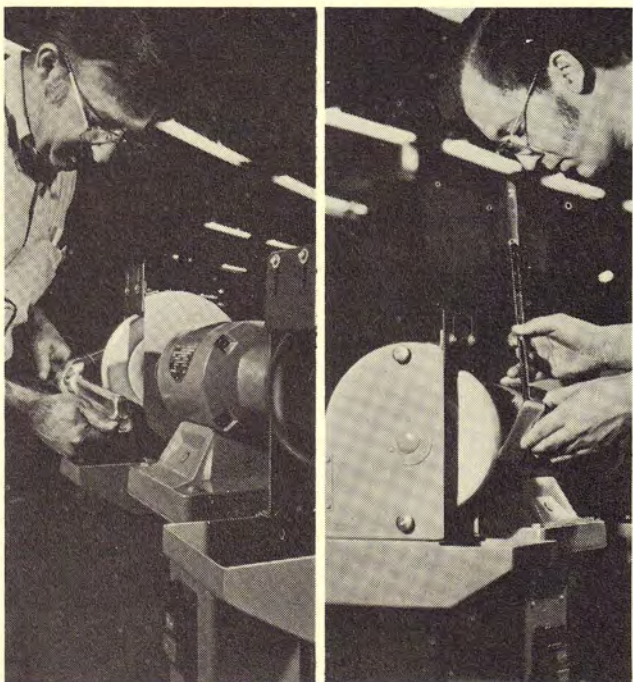
**No. 23-312 (old 3121) Diamond-Pointed Wheel Dresser.** For dressing all types of general grinding wheels. Diamond is securely held. Sturdy tool is 9 1/2" long with a comfortable handle. 1 lb.

**QUALITY FEATURES THAT ASSURE EFFICIENT PERFORMANCE YEAR AFTER YEAR!**



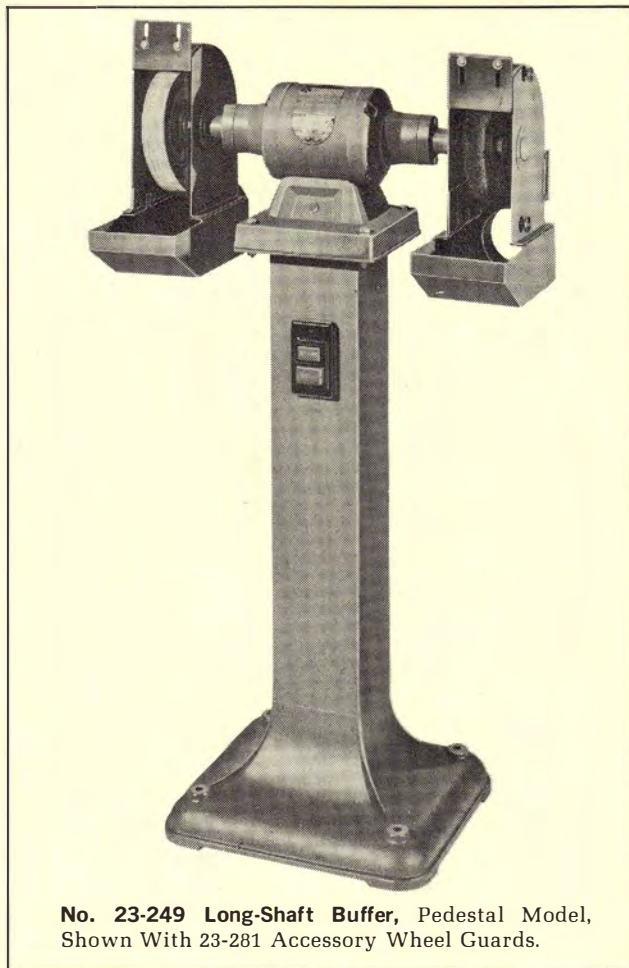
(Left) **In Commercial Shops**—Plastic manufacturers find the Rockwell Long-Shaft Buffer an excellent unit for turning down, polishing and coloring plastic pieces and components.

(Right) **In Industry**—Oval end bell hubs and extra long shafts facilitate the removal of rust and burrs from odd-shaped castings and parts.

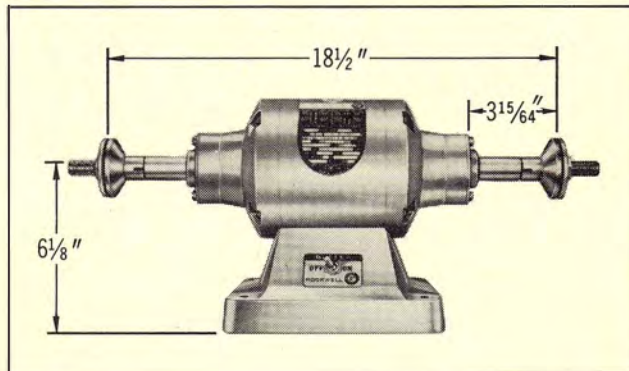


(Left) **In Repair Shops**—Appliance shops appreciate the extra amount of clearance between the motor and the buffing wheel when cleaning and polishing bulky items like sweeper housings.

(Right) **In Specialty and "Pro" Shops**—The Rockwell Buffer is ideal for removing rust and tarnish from golf clubs, guns, etc., to provide a factory-new surface in just minutes.



**No. 23-249 Long-Shaft Buffer, Pedestal Model, Shown With 23-281 Accessory Wheel Guards.**



No matter what the operation—removing rust or burrs from castings . . . polishing or coloring plastic . . . cleaning parts and pieces . . . removing tarnish and rust from guns—the Rockwell Long-Shaft Buffer will more than meet your every job requirement. Actually, its uses are practically unlimited.

Check it, feature for feature, with any other make and you will agree that it is the buffer for you!

- Unique oval end bell hubs and the extra long shafts which extend  $3\frac{15}{64}$ " from bearing seal to wheel flange provide more room for handling large or oddly shaped work pieces.
- Slim designed, "Thin-Line" motor and extended shafts assure ample clearance for buffing long stock. Totally enclosed motor incorporates double sealed ball bearings, plus an extra seal to keep out harmful dust.
- Capacitor start, 115/230V, single phase motor requires low starting current. It won't dim lights like split-phase motors.

# ROCKWELL 1/2 HP LONG-SHAFT BUFFER

## MACHINE DATA

Horsepower .....1/2

**Shaft:**

Diameter .....5/8" (15.875 mm)

Extends Beyond Flange .....2 1/2" (63.5 mm)

**Frame Diameter** .....5 2 3/8" (145.26 mm)

**Distance Between Faces of Wheel Flanges** ..18 1/2" (469.9 mm)

**Distance From Bearing Seal to Wheel Flange Face** .....3 1 5/16" (82.15 mm)

**Centerline of Spindle to Bottom of Base** ...6 1/8" (155.57 mm)

**Diameter of Wheel Flange** .....2 1/2" (63.5 mm)

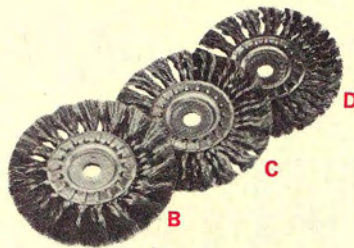
**Overall Dimensions:**

Base .....8 1/2" x 8 1/2" (215.9 x 215.9 mm)

Depth .....11" (279.4 mm)

Width .....23 1/2" (596.9 mm)

Height .....13 3/4" (349.25 mm)



**(B) No. 23-632 (old 1236) Wire Brush, 6" diameter, fine, 5/8" hole. 1 lb.**

**(C) No. 23-637 (old 1237) Wire Brush, 6" diameter, medium, 5/8" hole. 1 lb.**

**(D) No. 23-638 (old 1238) Wire Brush, 6" diameter, coarse, 5/8" hole. 1 lb.**

**No. 23-007 (old 4007) Red Rouge Buffing Compound, one pound bar, with instructions. Recommended for coloring gold, silver, and other precious metals. 19 oz.**

**No. 23-008 (old 4008) White Rouge Buffing Compound, one pound bar, with instructions. Recommended for cutting down and coloring stainless steel, steel, chromium, nickel plate, brass, aluminum and plastics. 19 oz.**

**No. 23-009 (old 4009) Emery (black) Buffing Compound, one pound bar, with instructions. Recommended for coarse polishing to remove rust, scale, scratches and burrs from iron, steel and other hard metals. 19 oz.**

**No. 23-010 (old 4010) Tripoli (brown) Buffing Compound, one pound bar, with instructions. Recommended for cutting down and coloring of aluminum, brass, copper, pewter, plastics, hard rubber, animal horn and wood. 19 oz.**

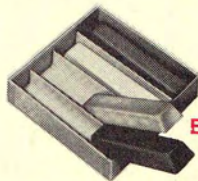
## QUALITY ACCESSORIES FOR INCREASED JOB PERFORMANCE

**No. 23-281 Wheel Guards, one pair, with 3" O.D. built-in dust chutes. Guards increase operator safety when using Long-Shaft Buffer. 20 lbs.**

**No. 23-805 Pedestal, cast iron, 26" high. Base is 14" front to back and 16" left to right. 67 lbs.**



**(A) No. 23-825 8" Buffing Wheel for 5/8" arbor, 3/4" face, 48 ply, fine muslin, cushion type with three circles of lock-stitched sewing. Includes one pair of toothed flanges for 5/8" arbor and instructions for use. A professional quality, general purpose buff recommended for light cutting down and for finish coloring. 1 lb.**



**(E) No. 23-004 (old 4004) Buffing Compound Kit, four 1/4 pound bars, with instructions. Includes one each of Red Rouge, White Rouge, Emery and Tripoli bars. 19 oz.**

## CATALOG LISTING

**COMPLETE 1/2 HP LONG SHAFT BUFFER, Bench or Pedestal Mounted, With Motor and Controls Factory Mounted and Wired as Specified Below:**

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HZ AND MOTOR RPM	MOTOR VOLTAGE	TYPE	SHIP. WT. LBS.	MACHINE CAT. NO.	MACHINE CAT. NO. 200 V	
Single Phase 1/2 Horsepower	On-Off Toggle Switch	TENV	60-3450	115/230	Bench	43	23-233		
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TENV	60-3450	115/230	Pedestal	128	23-249		
	On-Off Toggle Switch	TENV	60-1725	115/230	Bench	43	23-234		
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TENV	60-1725	115/230	Pedestal	128	23-251		
Three Phase 1/2 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TENV	60-3450	230/460	Pedestal	129	23-261	23-263	
	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TENV	60-1725	230/460	Pedestal	129	23-262	23-268	
	<b>Three Phase Bench Models, Not Factory Wired.</b>								
	None	TENV	60-3450	230/460	Bench	43	23-241	23-239	
	None	TENV	60-1725	230/460	Bench	43	23-242	23-243	

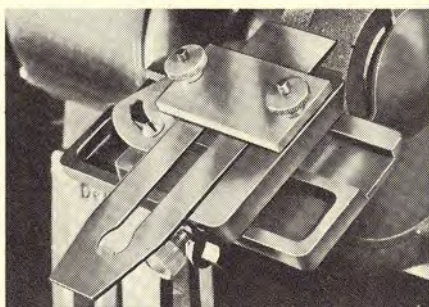
**NOTE:** Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for

230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only.

# ROCKWELL GRINDER ACCESSORIES

FOR NEW ROCKWELL "HIGH EFFICIENCY" DUST COLLECTORS, SEE PAGE 1, SECTION D1.

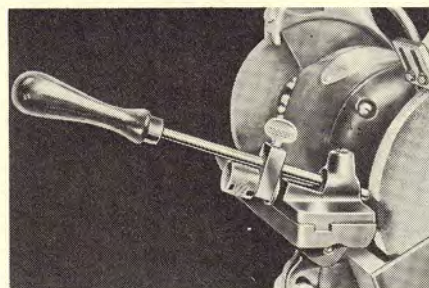
## ACCESSORY FOR 10" AND 7" STANDARD GRINDERS, ALSO 10" AND 7" GRINDER/FINISHERS



**No. 23-294 (old 1294) Edge Tool Grinding Attachment.** Ideal for school shops, cabinet shops, and all types of wood-working shops. Although especially recommended for sharpening plane irons, this attachment also does an excellent job of grinding wood chisels, putty knives, scrapers and similar items up to  $3\frac{1}{4}$ " wide.

Slide is notched for wooden handles of wood chisels, including "butts" which have a very short chisel blade. Adjustable quadrant permits accurate grinding of angle knives, assures absolute right angle position for straight knives. Knurled nut gives hairline adjustment for amount of "cut." Blade or chisel being ground can be lifted off and inspected at any time without disturbing the micrometer adjustment of clamp and carriage. No. 23-267 Vitreous Aluminum Oxide Wheel is recommended for 7" Standard Grinder. Can be used with No. 23-312 Diamond Wheel Dresser instead of No. 23-664 Wheel Dressing Tool Holder. 6 lbs.

## ACCESSORIES FOR 10", 7" AND 6" TOOL GRINDERS, ALSO 10" AND 7" GRINDER/FINISHERS



**No. 23-312 (old 3121) Diamond Pointed Wheel Dresser.** For dressing all types of general grinding wheels. Diamond is securely held. Sturdy tool is  $9\frac{1}{2}$ " long with a comfortable handle. 1 lb.

**No. 23-664 (old 1664) Holder for Diamond Wheel Dresser.** Used with No. 23-312 Wheel Dresser. 4 lbs.

## ACCESSORIES FOR 7" STANDARD GRINDER

**No. 23-292 (old 1292) Motorless, Gravity Type Dust Collector** for pedestal grinder. A self-contained unit that need

not be connected to the shop blower system. No power is required. Efficient filters trap virtually all of the fine dust. Complete with filter, bracket and screws. 29 lbs.

**No. 23-293 (old 1293) Replaceable Filter** for above. 3 lbs.

## ACCESSORIES FOR 10" GRINDER/FINISHER AND TWIN BELT FINISHER

**No. 23-516 Abrasive Belt,** aluminum oxide, package of 5,  $2\frac{1}{2}$ " x 60", 40G (coarse), cloth backing, closed coat.  $1\frac{1}{2}$  lbs.

**No. 23-557 Abrasive Belt,** aluminum oxide, package of 5,  $2\frac{1}{2}$ " x 60", 80G (medium), cloth backing, closed coat.  $1\frac{1}{2}$  lbs.

**No. 23-556 Abrasive Belt,** aluminum oxide, package of 5,  $2\frac{1}{2}$ " x 60", 120G (fine), cloth backing, closed coat.  $1\frac{1}{2}$  lbs.

## ACCESSORIES FOR 7" GRINDER/FINISHER

**No. 23-507 Abrasive Belt,** aluminum oxide, package of 5, 2" x 48", 40G (coarse), cloth backing, closed coat. 1 lb.

**No. 23-508 Abrasive Belt,** aluminum oxide; package of 5, 2" x 48", 80G (medium), cloth backing, closed coat. 1 lb.

**No. 23-515 Abrasive Belt,** aluminum oxide, package of 5, 2" x 48", 120G (fine), cloth backing, closed coat. 1 lb.

**No. 23-816 Aluminum Oxide Wheel,** 1 x 7", 46G, Grade M,  $\frac{5}{8}$ " hole. 4 lbs.

## ACCESSORIES FOR 6" TOOL GRINDER

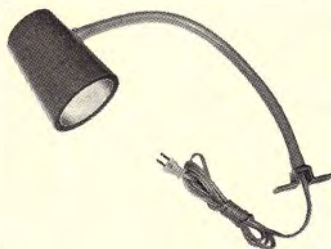
**No. 23-661 (old 1661) Wheel,** 1 x 6", 60 grit, silicon-carbide, grade H 12, 1" face,  $1\frac{1}{4}$ " hole. 4 lbs.

**No. 23-662 (old 1662) Wheel,** 1 x 6", 120 grit, silicon-carbide, grade H 12, 1" face,  $1\frac{1}{4}$ " hole. 4 lbs.

**No. 23-841 Wheel,** 1 x 6", 46 grit, aluminum-oxide (for roughing), grade G, 1" face,  $1\frac{1}{4}$ " hole. 4 lbs.

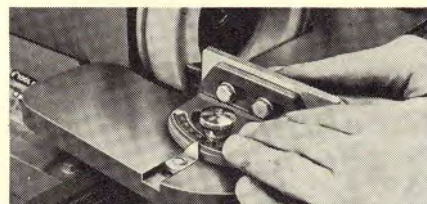
**No. 23-842 Wheel,** 1 x 6", 80 grit, aluminum-oxide (for finishing), grade J, 1" face,  $1\frac{1}{4}$ " hole. 4 lbs.

**No. 23-805 Pedestal,** for converting 6" Bench Grinder to pedestal type. 67 lbs.



**No. 25-857 Lamp Attachment,** for 115 V. Includes 18" flexible gooseneck, reflector and 8-foot cord with 2-prong plug. Uses standard bulb (not included) up to 75 watts. 3 lbs.

**No. 23-663 (old 1663) Water Pot,** with faucet. Same as furnished with machine. 2 lbs.



**No. 31-804 Sliding Angle Jig.** Same as furnished with machine. 2 lbs.

## ACCESSORIES FOR 6" BENCH AND 6" EDGE TOOL BENCH GRINDER

**No. 23-800 Eyeshields.** One pair, with brackets and screws. 3 lbs.

## GRINDING, BUFFING, WIRE AND FIBER WHEELS

**No. 23-826 Aluminum Oxide Wheel.**  $\frac{3}{4}$  x 6", 36G, Grade O,  $\frac{1}{2}$ " hole.  $2\frac{1}{2}$  lbs.



A B C D E

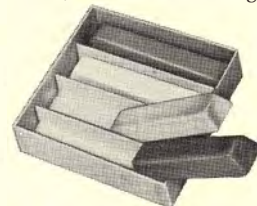
**A. No. 23-827 Aluminum Oxide Wheel.**  $\frac{3}{4}$  x 6", 60G, Grade O,  $\frac{1}{2}$ " hole.  $2\frac{1}{2}$  lbs.

**B. No. 23-114 (old 3114) Wire Brush.** 6" diameter, fine  $\frac{1}{2}$ " hole. 1 lb.

**C. No. 23-113 (old 3113) Wire Brush.** 6" diameter, coarse,  $\frac{1}{2}$ " hole. 1 lb.

**D. No. 23-511 (old 3115) Fiber Brush.** 6" diameter,  $\frac{1}{2}$ " hole. 1 lb.

**E. No. 23-005 (old 4005) Buffing Wheel.** 6" diameter,  $\frac{1}{2}$ " thick, circular stitching,  $\frac{1}{2}$ " hole. 2 lbs.



## BUFFING COMPOUNDS

**No. 23-004 (old 4004) Buffing Compound Kit.** Consisting of four  $\frac{1}{4}$  pound bars, with instructions. Includes one each of red rouge, white rouge, emery and tripoli bars. 19 ounces.

**No. 23-007 (old 4007) Red Rouge Buffing Compound.** One pound bar, with instructions. Recommended for coloring gold, silver and other precious metals. 19 ounces.

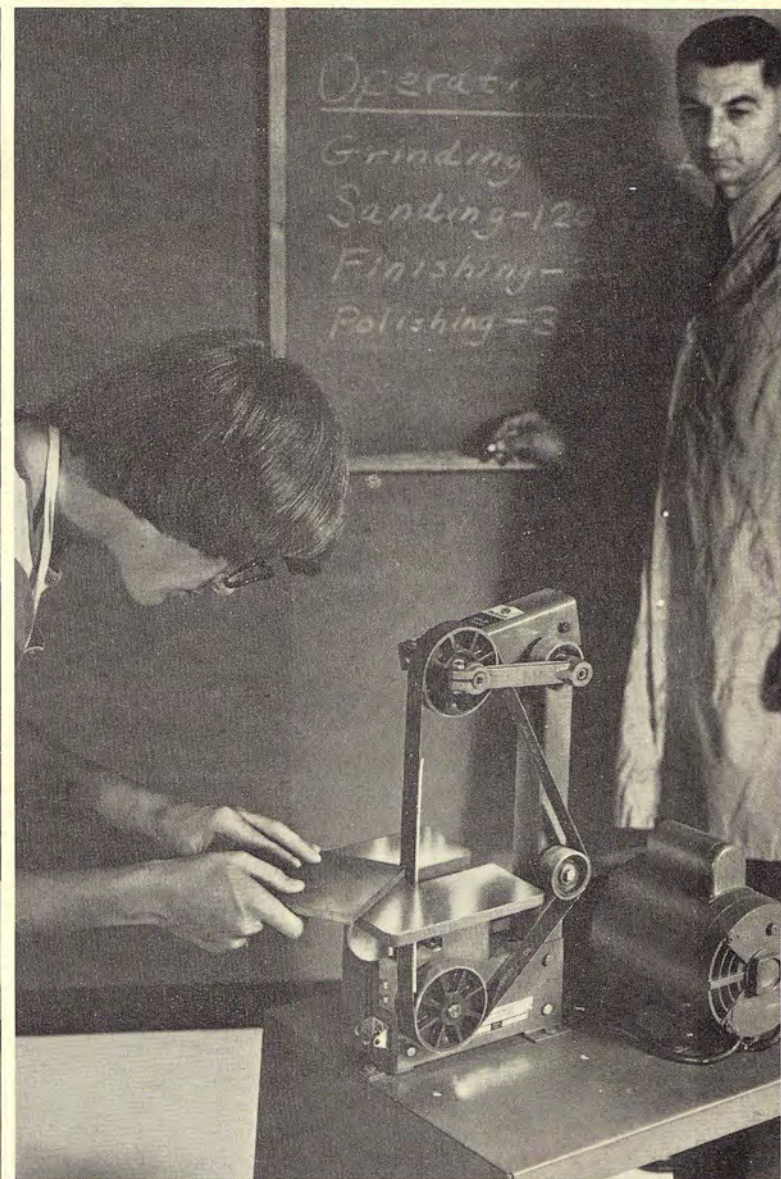
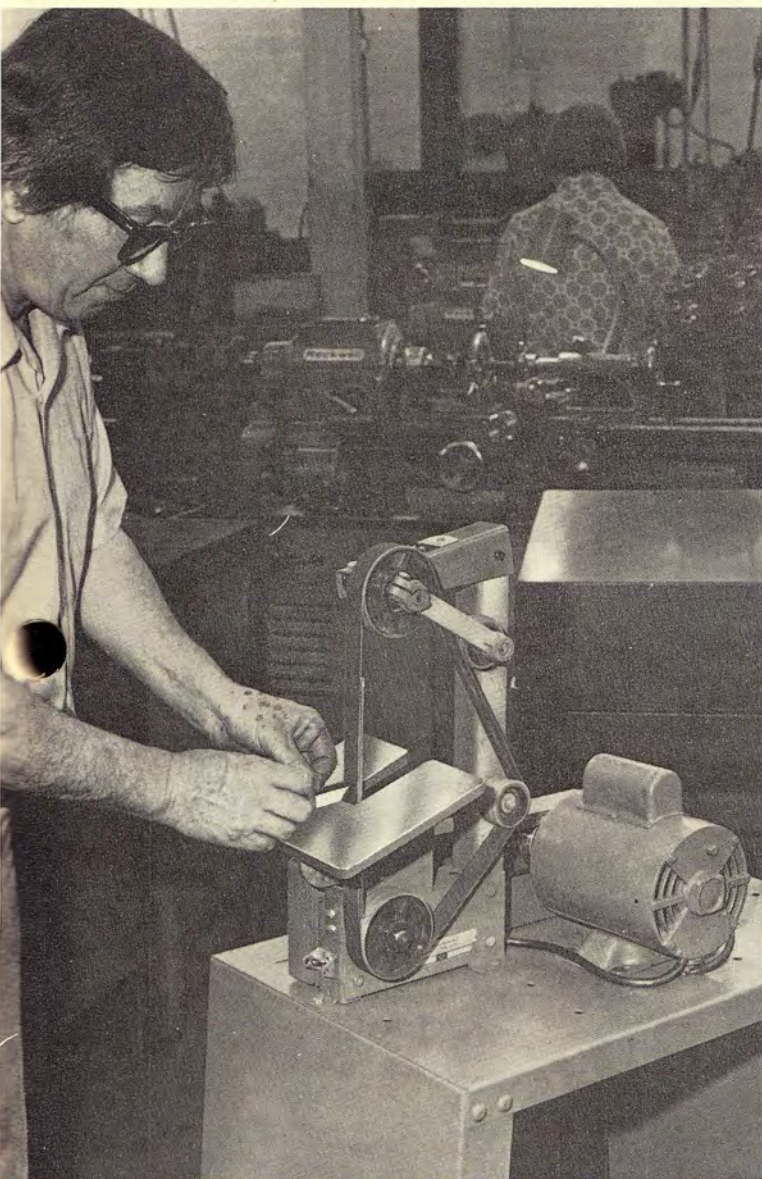
**No. 23-008 (old 4008) White Rouge Buffing Compound.** One pound bar, with instructions. Recommended for cutting down and coloring stainless steel, chromium, nickel plate, brass, aluminum and plastics. 19 ounces.

**No. 23-009 (old 4009) Emery (Black) Buffing Compound.** One pound bar, with instructions. Recommended for coarse polishing to remove rust, scale, scratches and burrs from iron, steel and other hard metals. 19 ounces.

**No. 23-010 (old 4010) Tripoli (Brown) Buffing Compound.** One pound bar, with instructions. Recommended for cutting down and coloring of aluminum, brass, copper, pewter, plastics, hard rubber, animal horn and wood. 19 ounces.

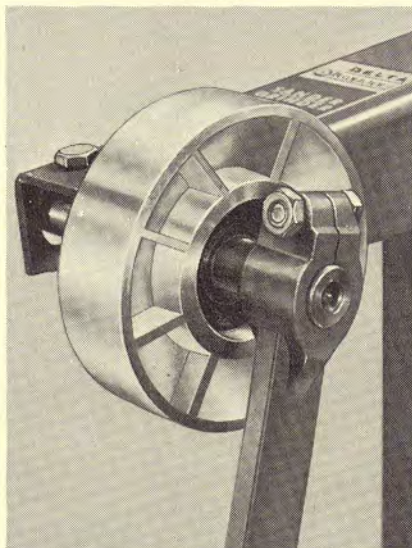
World's Most Versatile Finishing Machine...

# ROCKWELL SANDER / GRINDER

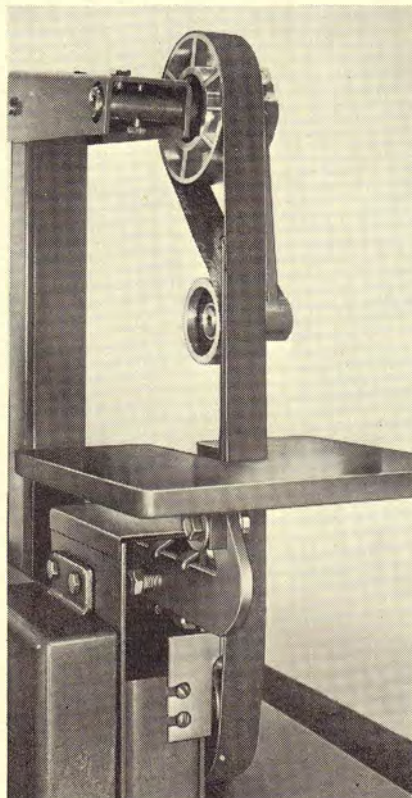


When it comes to versatility, the Rockwell Delta Sander/Grinder has no equal! Why? Because it will sand, grind, sharpen, deburr, finish, contour and polish almost any material. What's more, it will do all of these operations quickly, efficiently and with better quality. It's the ideal machine for all users — production lines, tool rooms, foundries, electronic laboratories, pattern and school shops. Investigate this **BIG VALUE** today!

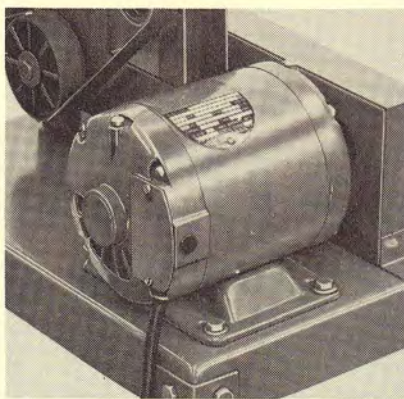
**ROCKWELL  
QUALITY FEATURES  
THAT GUARANTEE  
UNMATCHED VERSATILITY  
AND PERFORMANCE**



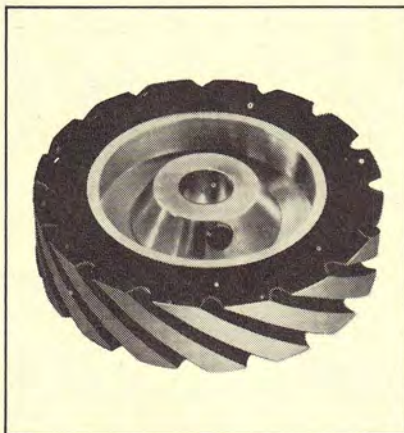
**Specially Designed Plastic Wheels**—The balanced, true running wheels are made of heat resistant CYCOLAC<sup>®</sup>, precision molded onto sealed, lubricated-for-life ball bearings. Wheel rims are crowned for easy belt tracking and made of wear resistant TEXIN<sup>®</sup>, permanently bonded to the wheel body.



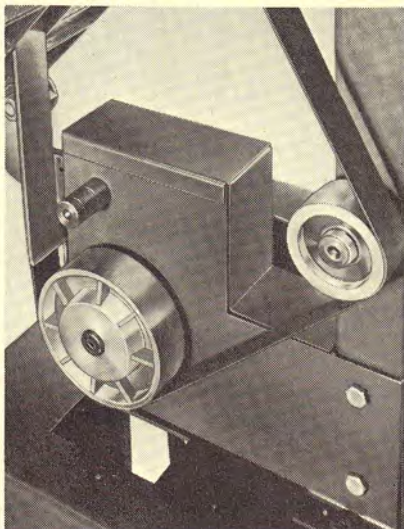
**Precision Ground Table**—Sturdy 7 x 8" table has a single mounting bolt for quick positioning or removal. Table tilts 10° in and 90° out for bevel work.



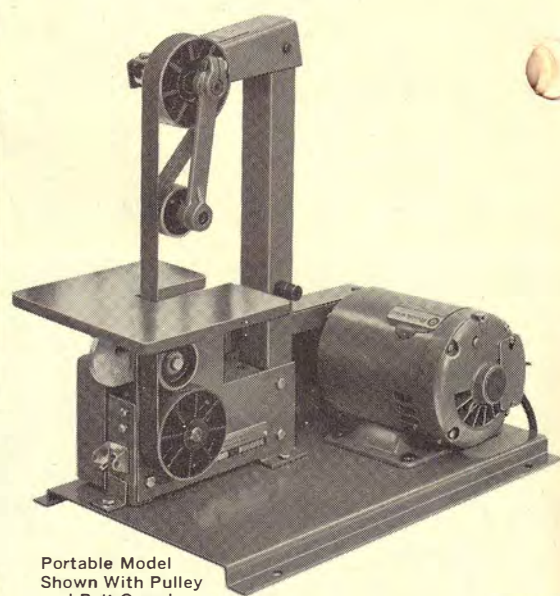
**Proper Motor Used**—Only Rockwell offers a heavy duty, ½ HP, 3450 RPM motor. You get the right belt speeds for efficient sanding and grinding—4070 SFPM with a standard pulley . . . 4600 SFPM with the contact wheel.



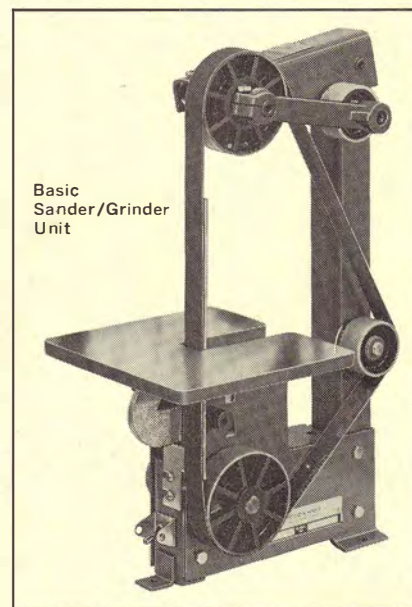
**Efficient Rubber Contact Wheel**—A general purpose wheel, it is recommended for a wide variety of jobs including fast removal of stock or rough finishing. Also excellent for flash grinding on soft metals.



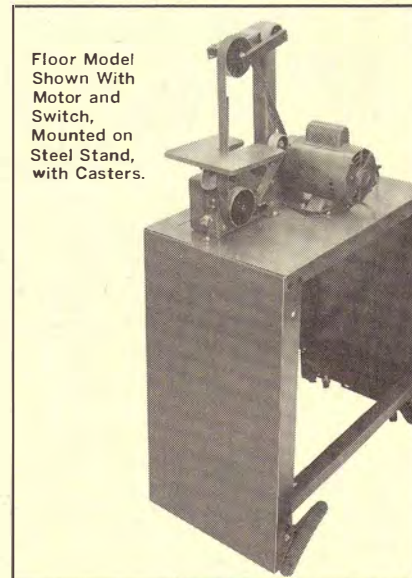
**Fully Protected Arbor Shaft**—Arbor shaft bearing is completely enclosed, preventing entry of harmful abrasive dust. Note also the use of husky 5/8" bearing shafts, plus sealed-for-life ball bearing construction throughout.



Portable Model Shown With Pulley and Belt Guard, and Motor, Mounted on Metal Base Plate.



Basic Sander/Grinder Unit



Floor Model Shown With Motor and Switch, Mounted on Steel Stand, with Casters.

## HERE'S WHY ROCKWELL GIVES YOU THE BIGGEST SANDER/GRINDER VALUE ON THE MARKET!

**Performs Unlimited Operations**—Perfectly suited for all users, it can be used on wood, metal, plastics, leather, rubber, ceramics, and compositions to do dozens of jobs like these: Sanding or grinding to a line . . . deburring parts and pieces . . . contouring to a desired shape . . . finishing for painting or plating . . . polishing the finished product . . . sharpening cutting edges . . . cleaning intricate or inside edges.

**Does Work of Many Machines**—This one low-cost machine will do the work of the band saw, jig saw, coping saw or hand file, only better. It sands at amazing speed while giving perfect results. It's more flexible than the grinder, too, because it can be used to sand or grind internal or external surfaces with or without the platen.

**Complete Portability**—can easily be moved from one location to another—no lost production time!

### Belts Are Better Than Any Other Method Because:

- They cut faster—result in sharper, faster cutting action than conventional grinding wheels.
- They operate cooler—you get increased production with longer belt life.
- They give better quality—sharper grain structure, cooler operation, custom-selected belt all result in better quality finish.
- Wide variety of belts available—you can select a specific belt for material being worked and finish desired.

### YOU GET MORE OF THE QUALITY YOU WANT WITH A ROCKWELL SANDER/GRINDER AND THE COST IS LOW!

The wide versatility, together with the excellent features built into the Rockwell Delta Sander/Grinder, makes it an ideal machine for every shop—toolroom . . . pattern shop . . . foundry . . . school shop . . . even the home workshop. Although Rockwell Delta quality constructed throughout, you'll be amazed at its *exceptionally low price!* Investigate this BIG VALUE today!

### STANDARD EQUIPMENT

Basic Sander/Grinder furnished with table, one flat platen for 1" belts, 2" arbor V-pulley, guard for arbor pulley, and one 1 x 42", 80 grit, aluminum oxide belt.

## MACHINE DATA

### Overall Dimensions:

Bench Type (Without 31-360 Plate):  
 Height . . . . . 20¼" (514.35 mm)  
 Width . . . . . 8½" (215.9 mm)  
 Front to Rear . . . . . 12" (304.8 mm)  
 Bench Type (On 31-360 Plate):  
 Height . . . . . 21½" (536.58 mm)  
 Width . . . . . 12" (304.8 mm)  
 Front to Rear . . . . . 21" (533.4 mm)  
 Floor Type (On 50-510 Stand):  
 Height . . . . . 48¾" (1238.25 mm)  
 Width . . . . . 16¾" (425.45 mm)  
 Front to Rear . . . . . 29¼" (742.95 mm)

### Table:

Size . . . . . 7" (177.8 mm) Deep x 8" (203.2 mm) Wide; With 1¾ x ¾" (30.2 x 19.05 mm) Slot  
 Tilts . . . . . 10° In; 90° Out  
 Height From Bench . . . . . 8¾" (222.3 mm)  
 With 31-360 Plate . . . . . 9½" (241.3 mm)  
 Height From Floor (on 50-106 Stand) . . . . . 40¼" (1022.4 mm)

### Capacities:

Belt to Column . . . . . 7⅞" (181 mm)  
 Table to Upper Idler Inside Grinding, With 44" (1117.6 mm) Belt . . . 3" (76.2 mm)

### Abrasive Belt:

Length: Minimum . . . . . 40" (1016 mm)  
 Standard . . . . . 42" (1066.8 mm)  
 Maximum . . . . . 44" (1117.6 mm)  
 Width: Minimum . . . . . ⅞" (3.18 mm)  
 Maximum . . . . . 1" (25.4 mm)  
 Speed: (With Contact Wheel)—  
 . . . . . 4600 SF/M (1,402,080 Surf. MM/Min.); Std.  
 . . . . . 4000 SF/M (1,219,200 Surf. MM/Min.)

### Diameter of Drive Shaft:

(Both Ends) . . . . . .627" (15.9 mm)

**Motor Recommended** .3450 RPM; ½ HP

## CATALOG LISTING

**No. 31-351 Basic Sander/Grinder** with table, flat platen for 1" abrasive belts, arbor pulley, 31-361 Guard for arbor pulley, and one 1 x 42", 80 grit, aluminum oxide belt. 22 lbs.

**No. 31-352 Sander/Grinder with Heavy Duty Motor and Base.** Includes 31-351 Basic Machine plus 62-144 ½ HP Capacitor Motor with Switch, Cord and 3-Prong Plug, 31-360 Base, 49-105 V-Belt and 41-023 Motor Pulley. Fully assembled and ready to plug in on 115 V, 60 hertz, single phase. 50 lbs.

## QUALITY ACCESSORIES

**No. 50-510 Stand** for use with 31-351 Basic Unit. 30 lbs.

**No. 41-023 Motor Pulley**, 2½" dia., ⅝" bore. ½ lb.

**No. 49-105 V-Belt**, 30⅞" O.C. Used with 31-360 Base or for rear motor position on customer's bench. ½ lb.

**No. 31-360 Metal Base Plate**, 12" wide x 18½" front to rear x ⅞" high. Drilled for mounting Sander/Grinder and motor, and for mounting Base Plate to work bench. 8 lbs.

**No. 31-361 Guard for Arbor Pulley.** Can be used for rear or underneath motor

position. Includes mounting screws and washers. 2 lbs.

**No. 31-362 Rubber Contact Wheel**, 4" diameter, 1" face, special bore size, with set screw, 60 durometer, with 45° standard serrations. A general purpose wheel recommended for both stock removal and rough finishing. Can be used for flash grinding on soft metals. 1 lb.

**No. 31-363 Flat Platen** for 1" belts. ½ lb.

**No. 31-364 Flat Platen** for ½" or narrower belts. ¼ lb.

**No. 31-365 Convex Platen**, ½" radius, for 1" belts. ¼ lb.

**No. 31-366 Guard for V-Pulleys and V-Belt.** Include mounting parts. Recommended for use when motor is mounted to rear on customer's bench or on 31-360 Base Plate. 4½ lbs.

**No. 31-370 Abrasive Belt**, aluminum oxide, pkg. of 5, 1 x 42", 40 grit (coarse), cloth backing, closed coat. ½ lb.

**No. 31-371 Abrasive Belt**, aluminum oxide, package of 5, 1 x 42", 50 grit (coarse), cloth backing, closed coat. ½ lb.

**No. 31-372 Abrasive Belt**, aluminum oxide, pkg. of 5, 1 x 42", 80 grit (medium), cloth backing, closed coat. ½ lb.

**No. 31-373 Abrasive Belt**, aluminum oxide, pkg. of 5, 1 x 42", 120 grit (medium), cloth backing, closed coat. ½ lb.

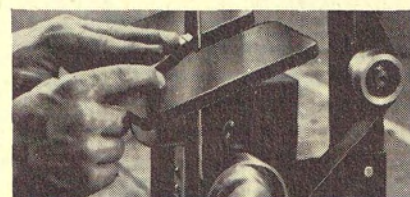
**No. 31-374 Abrasive Belt**, aluminum oxide, package of 5, 1 x 42", 150 grit (fine), cloth backing, closed coat. ½ lb.

**No. 31-375 Abrasive Belt**, aluminum oxide, package of 5, 1 x 42", 220 grit (fine), cloth backing, closed coat. ½ lb.

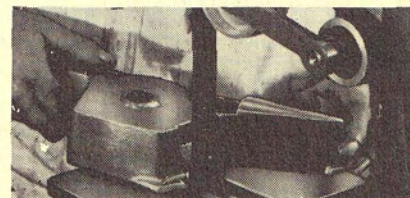
**No. 31-376 Abrasive Belt**, aluminum oxide, pkg. of 5, 1 x 42", 320 grit (extra fine), cloth backing, closed coat. ½ lb.

**No. 50-118 Retractable Caster Set** for 50-510 Steel Stand. 12 lbs.

## THE ROCKWELL SANDER/GRINDER DOES ALL THESE JOBS EASIER . . . FASTER . . . BETTER!

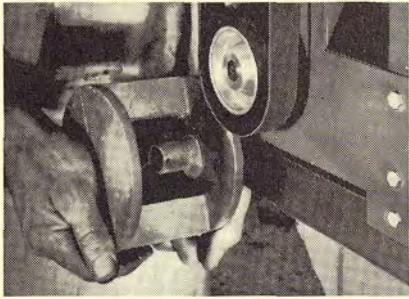


**Toolroom** . . . grinds cutting tools to exact specifications.

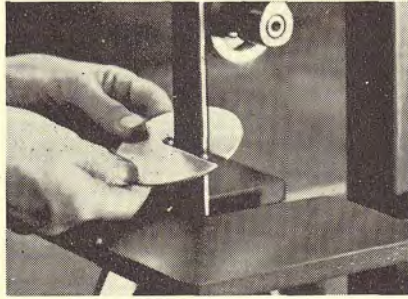


**Plating Department** . . . polishes die cast aluminum housing prior to plating.

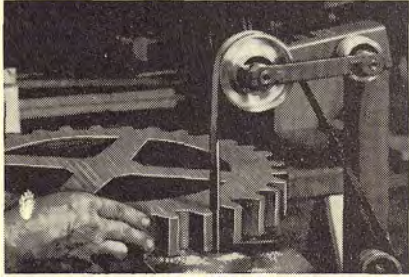
See next page for additional operations.



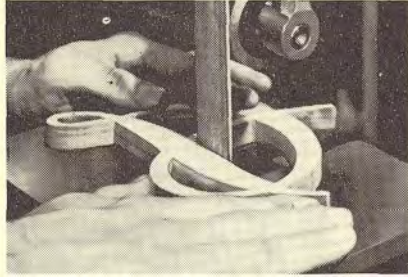
**Foundry . . .** using contact wheel, aggressively removes flash and excess stock.



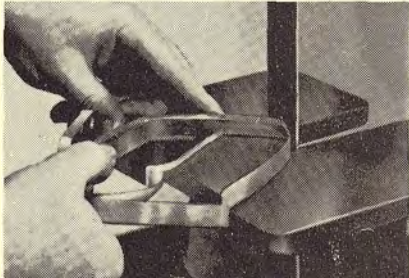
**Assembly Department . . .** quickly removes sharp edges on metal stampings, even in small openings.



**Pattern Shop . . .** narrow band gets into small openings . . . finishes patterns rapidly to close tolerances.



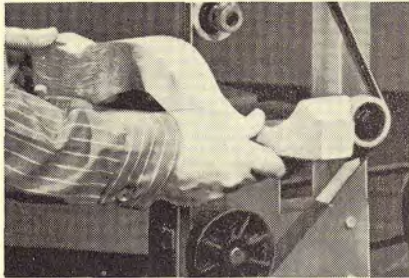
**Sign Shop . . .** after quickly threading belt, internal sanding becomes an easy operation.



**School Shop . . .** enables students to contour plastic parts perfectly.



**Golf Pro Shop . . .** quickly removes rust to make golf irons look like new.



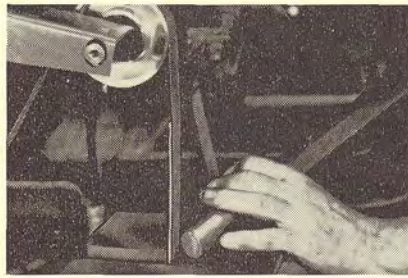
**Home Workshop . . .** items, such as this table leg, can be sanded in just a few minutes.



**Scissors Manufacturer . . .** using narrow band, and without platen, internal grinds rounded edges with ease.



**Electronics Laboratory . . .** perfectly touches up parts for precision assembly.



**Industrial Plant . . .** rapidly deburrs sharp edge following stock cut-off with abrasive wheel.

## SEE YOUR INDUSTRIAL DISTRIBUTOR FOR ALL YOUR ROCKWELL POWER TOOL AND ACCESSORY NEEDS!

*He will provide you with . . .*

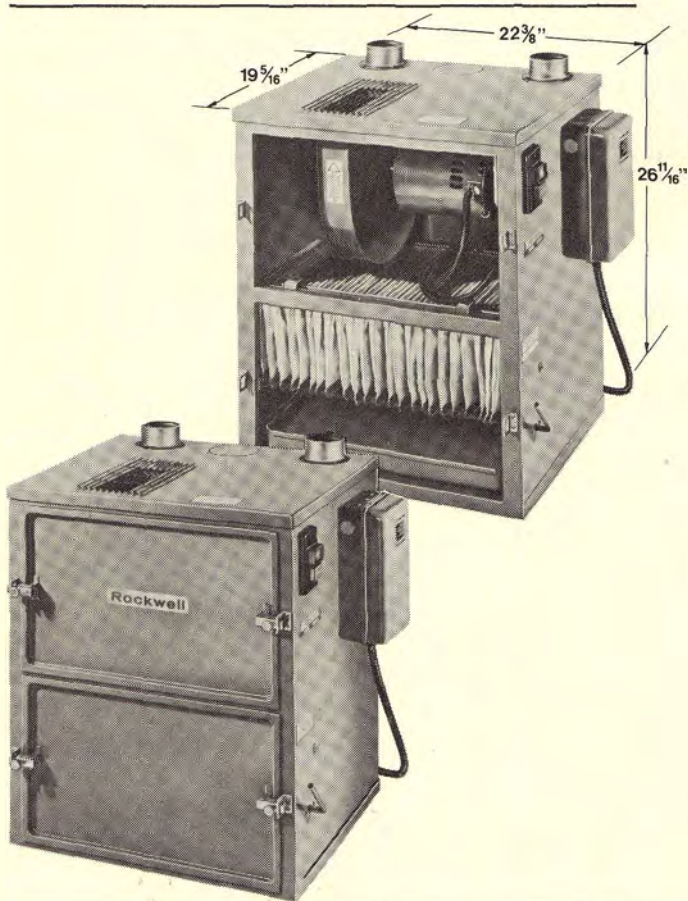
**Assistance in Your Production Planning.** His years of experience and technical know-how have equipped him to give you expert advice on your production problems.

- **Fast Delivery From Local Stocks.** Because of his knowledge of local markets, he stocks the products you need — delivers your orders quickly and keeps your working capital free.
- **Prompt Information on New and Old Products.** He is in constant touch with manufacturers who supply him with information on new products and developments.
- **One Source For Many Types of Products.** One source ordering simplifies your purchasing procedure and reduces your accounting costs.



# NEW ROCKWELL "HIGH EFFICIENCY" DUST COLLECTORS

**Rockwell "High Efficiency" Dust Collectors Provide Filtering Efficiencies to Help You Comply with O.S.H.A. Standards**



Protect workers' health, safeguard machinery, and reduce maintenance costs with Rockwell "High Efficiency" Dust Collectors. They are capable of moving 500 cubic feet of air per minute and develop a static suction of 3.5 inches of water. Recommended for dry collection only of grit, dust, chips, shavings, wood blocks, lint, tramp iron and other foreign materials which are deposited in the base or stopped by the filters. *Only clean air reaches the fan.*

Overall collection efficiencies by weight are 99.9+ % on particles down to two micron. Treated filters are fire-resistant.

Fine dust is easily dislodged from the fabric filters by using the foot-operated filter shaker.

**No. 49-826 Dust Collector.** Includes  $\frac{3}{4}$  HP, single phase, 115/230 V, 60 hertz, 3450 RPM motor; two 6' lengths of 3" diameter wire hose and four hose clamps, two 3" inlets with adapters, foot-operated shaker and 30 square feet of fabric filter (24 filters). Less electrical controls. 140 lbs.

**No. 49-831 Dust Collector.** Same as No. 49-826, except 230/460 V, three phase. Less electrical controls. 140 lbs.

**No. 49-909 Dust Collector.** Same as No. 49-826, except 200 V, three phase. Less electrical controls. 140 lbs.

## CONTROLS FOR "HIGH EFFICIENCY" DUST COLLECTORS

**No. 52-377 Start-Stop Push Button Switch,** 2-pole. Includes connecting wire assemblies, 8' cord with 3-prong 115 V grounding type plug and mounting hardware. For use with No. 49-826 Single Phase Dust Collector only. 5 lbs.

**No. 52-378 24 Volt Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC).** Includes connecting wire assemblies, 8' cord with 3-prong 115 V grounding

type plug, and mounting hardware. For use with No. 49-826 Single Phase Dust Collector only. 15 lbs.

**No. 52-379 24 Volt Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC).** Includes connecting wire assemblies and mounting hardware. For use with No. 49-831 and 49-909 Three Phase Dust Collectors. When ordering, specify 200, 230 or 460 volts. 17 lbs.

**NOTE:** Above electrical controls are shipped separately, must be mounted and wired to dust collectors.

## Here's Why the Rockwell "High Efficiency" Is A Better Dust Collector!

### FAN ON CLEAN AIR SIDE

Grit, dust, chips, shavings, wood blocks, lint, tramp iron and other foreign materials are deposited in the base or stopped by the filters—only clean air reaches the fan. This eliminates the risk of fan loading or breakage and ultimate need for expensive, time-consuming repairs.

### HIGHLY EFFICIENT FABRIC FILTERS

Rockwell collectors contain fabric filters of an extremely high collection efficiency for dust particles of all sizes, including those as small as two microns. Overall collection efficiencies by weight are 99.9+ %—even with a high concentration of particles of these small sizes. Filters are treated to be fire-resistant.

### CLEAN FILTERED AIR MAY BE RECIRCULATED

Rockwell collectors' extremely high filtering efficiency allows the filtered air to be recirculated indoors if desired, saving costly heated or conditioned air.

### FILTERS EASILY CLEANED

Most of the dust and material settles immediately into the pull-out drawer. Fine dust which clings to the outside of the fabric filters is easily dislodged by shaking the filter shaker handle.

### EASY EMPTYING DUST DRAWER

All "High Efficiency" Dust Collectors contain a handy pull-out drawer with .34 cubic feet storage capacity.

### MINIMUM FLOOR SPACE

"High Efficiency" Dust Collectors require only 19 $\frac{1}{16}$ " x 22 $\frac{3}{8}$ " floor space and provide a fabric filtering area of 30 square feet. Cabinets are constructed of steel; doors are felt-gasketed and close with specially designed "Positive-Seal" fasteners.

### ATTACHMENT PARTS

(Include Necessary Connection Fittings and Hoses)

**No. 20-838 Attachment Parts** for 12" Cut-Off Machine. 12 $\frac{1}{4}$  lbs.

**No. 23-802 Attachment Parts** for 7" Standard Grinder. 8 lbs.

**No. 24-819 Attachment Parts** for TOOLMAKER Grinder. 19 lbs.

**No. 31-803 Attachment Parts** for 12" Abrasive Disk Finishing Machine when mounted on Open Stand 50-432. 12 lbs.

**No. 31-856 Attachment Parts** for 6" Abrasive Belt Finishing Machine and for Belt Unit of Combination Belt and Disc Finishing Machine. 6 lbs.

**No. 50-141 Attachment Parts** for 12" Abrasive Disk Finishing Machine when mounted on Enclosed Stand 50-126 and for Disc Unit of Combination Belt and Disc Finishing Machine. Includes cast iron funnel. 13 $\frac{1}{2}$  lbs.

### AVAILABLE CONNECTION FITTINGS

(For Old Style 49-520 and 49-527 Dust Collectors)

**No. 49-533 Flexible Rubber Hose,** 2 $\frac{5}{16}$ " I.D. x 20" long. 2 lbs.

**No. 49-534 Flexible Rubber Hose,** 3" I.D. x 22" long. 2 lbs.

**No. 49-535 Flexible Rubber Hose,** 3" I.D. x 48" long. 3 lbs.

**No. 49-538 Flange** for 2 $\frac{5}{16}$ " hose, with mounting screws and washers. 2 lbs.

**No. 49-539 Flange** for 3" hose, with mounting screws and washers. 2 $\frac{1}{2}$  lbs.

**No. 49-541 Hose Clamps** adjustable to hose.  $\frac{1}{2}$  lb.

## GET MORE MACHINE FLEXIBILITY WITH ROCKWELL COOLANT EQUIPMENT

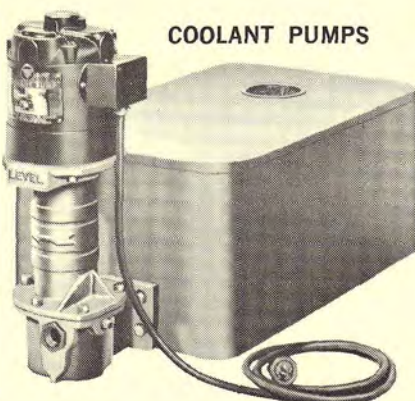
Here's the perfect answer for big cost savings on your production jobs. Rockwell Coolant Equipment gives you these important benefits:

1. **Lubricates the cut**—maintains feeds and speeds with less horsepower.
2. **Cools the work and cutting tool**—prevents overheating or discoloration of work.
3. **Flushes chips away from the work**—assures a higher quality finish.

### ROCKWELL 16-GALLON COOLANT SYSTEM

Big capacity ¼ HP pump provides a full flood of coolant making it ideal for use with Metal Lathes, Multiple Spindle Drill Presses, Cut-Off Machines and many other applications. Check these built-in Rockwell Quality Features:

- Adjustable—can be shut down to mere trickle without damage.
- Highly adaptable—flat machined flange permits use on most wet machine tools.
- Motor fully enclosed—not affected by moisture or caustic solutions.
- Double-sealed, lubricated-for-life ball bearings.
- Drilled and tapped for standard pipe fittings.
- Six-bladed impeller connected directly to motor shaft.
- 16-gallon tank has settling basin and wire mesh filter to keep coolant free from chips.



16-Gallon Coolant System shown with Pump, Cord, Switch and Tank.

#### For Single Phase Operation

**No. 49-610 Coolant Pump** complete with ¼ HP, 115 V, 60 hz, AC, 1725 rpm motor. 68 lbs. Order 49-618, 49-312 separately.

**No. 49-611 Coolant Pump** complete with ¼ HP, 230 V, 60 hz, AC, 1725 rpm motor. 68 lbs. Order 49-618, 49-313 separately.

#### For 3 Phase Operation

**No. 49-619 Coolant Pump** complete with ¼ HP, 230/460 V, 60 hz, AC, 1725 rpm motor. 68 lbs. Order 49-618 separately.

## ACCESSORIES

**No. 49-618 Tank**, 16-gal. capacity, 15 7/8 x 25 7/8 x 11" high, required with any of above pumps. 38 lbs.

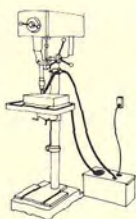
**No. 49-312 On-and-off Toggle Switch**, 2-pole, 1½ HP, AC, 115-230 V. Includes 115 V 8-foot cord, 3-prong grounding type plug and clamp. 2 lbs.

**No. 49-313 On-and-off Toggle Switch**, 2-pole, 1½ HP, AC, 115-230 V. Includes 230 V 8' cord, 3-prong grounding type tandem plug and clamp. 2 lbs.

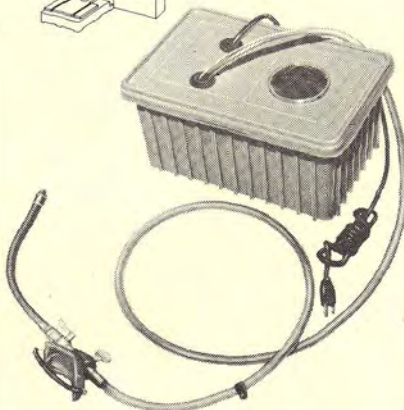
### COOLANT LINE ASSEMBLY FOR DRILL PRESSES

Recommended for single or multiple spindle drill presses or any machine with a round column from 2 3/4" to 4" in diameter.

**No. 17-802 Coolant Line Assembly** consisting of Nozzle, Valve, Column Mounting Clamp and Flexible Hose Assembly for providing coolant feed and connection to piping (coolant piping, table clamps not furnished). 3 lbs.



No. 49-620 5-Gallon Coolant System.



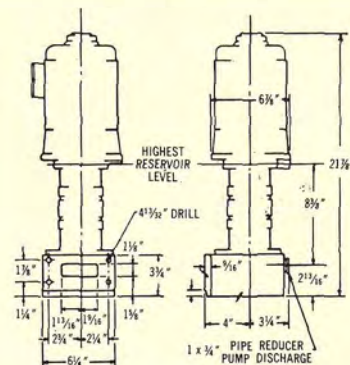
### NEW, LOW-COST ROCKWELL 5-GALLON COOLANT SYSTEM

Rockwell's new 5-Gallon Coolant System is well suited for use with Single Spindle Drill Presses having a column from 2 3/4" to 4" in diameter, also Metal Lathes, Hand Screw Machines and Surface Grinders.

The system incorporates these Rockwell Quality Features:

- Pump is hermetically sealed, has life-time lubrication, a nylon impeller and double "X" viton double lip seals.
- Equipped with a U.L. approved, 3-conductor, grounding type cord and plug.
- Flow of coolant can be regulated to any amount desired or completely shut off, without harmful effects.
- Double protection is provided against chips recirculating and causing a bad finish on the work. A screen traps the larger particles. A baffle in the tank provides a settling basin.

**No. 49-620 5-Gallon Coolant System** for 115 V, 60 hertz, single phase. Includes submersible pump with 3/4" male outlet, 5-gallon tank with screen and baffle, 6-foot plastic hose, flexible pipe with nozzle and valve, and 6-foot 3-conductor power cord with 3-prong 115 V grounding plug. The universal clamp with garter spring may be instantly snapped onto any round drill press column from 2 3/4" to 4" in diameter. It firmly holds and points nozzle exactly at hole being drilled. Does not include drain hose from machine table to coolant tank. 17 1/2 lbs.



### COOLANT FLOW—16-GAL. SYSTEM

Coolant Flow in Gal. Per Hour with a 1725 RPM Motor at 70° F. (1425 RPM Motor About 1/6 Less)

HEAD IN FEET	PIPE DIA.	COOLANT		
		WATER AND SOLUBLE OIL	LARD OIL	SAE 20 MACHINE OIL
		FLOW IN GAL. PER HOUR		
0	3/4"	1200	720	600
	1"	1920	1200	1200
5	3/4"	840	480	360
	1"	1620	900	900
10	3/4"	420	—	—
	1"	1020	—	—

14 ft. Maximum Lift with water. Discharge for water or soluble oil solution applies to all solutions of similar viscosity and density. Higher viscosity and density, less flow.

### COOLANT FLOW—5-GAL. SYSTEM Using Water Soluble Oil or Light Cutting Oil

HEAD IN FEET	GALLONS PER HOUR	STATIC PRESSURE
1 FT.	205	3.2 PSI
3 FT.	168	3.2 PSI
4 FT.	142	3.2 PSI
5 FT.	120	3.2 PSI
6 FT.	78	3.2 PSI
7 FT.	35	3.2 PSI

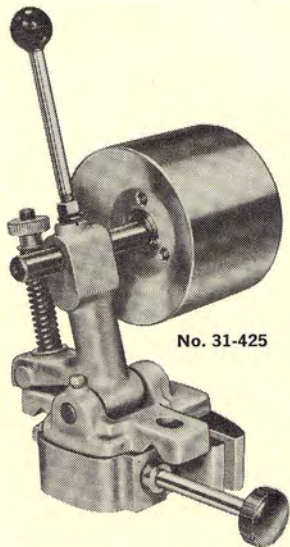


## MAKE YOUR OWN BELT GRINDING, DEBURRING OR POLISHING SET-UP USING ROCKWELL COMPONENTS

Build your own Grinding and Polishing Units around the Rockwell Delta No. 31-438 Arbor Head or convert your present Polishing Lathe using Set-Up Wheels, or your Bench Grinder using Grinding Wheels, to the modern Coated Abrasive Belt Method of Grinding and Polishing. With a contact wheel, backstand idler and abrasive belts, most standard floor or bench grinders and most polishing lathes or jacks can be converted at low cost.

### 4" RIGHT BACKSTAND IDLER UNIT

Finest, low-cost backstand idler unit available. Suitable for either left or right side operation. Hand knob swivels drum for belt tracking and lateral adjustment is provided for accurate belt alignment. Belt tension is quickly adjusted by means of a self-locking hand knob. Convenient lever instantly releases tension for quick belt changing.



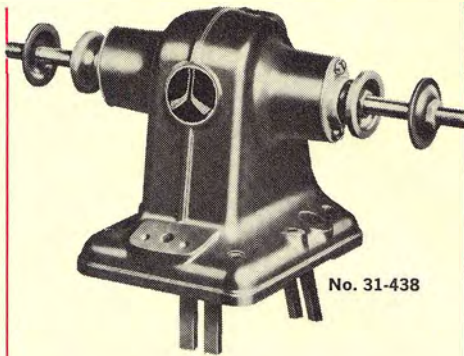
**No. 31-425 Backstand Idler Unit** with 4" wide by 5 $\frac{3}{8}$ " dia. drum, with mounting bolts and instructions for changing from R.H. to L.H. set-ups. 19 lbs.

### 2 3/4" LEFT IDLER UNIT

**No. 31-431**—Similar to No. 31-425 except drum is 2 $\frac{3}{4}$ " wide. Includes instructions for right-hand assembly. 17 lbs.

### ARBOR HEAD

Husky and engineered for long life, it can be mounted on your machine stand or on a bench top. The  $\frac{5}{8}$ " arbor runs in sealed, lubricated-for-life ball bearings. Arbor shaft extends 3 $\frac{1}{2}$ " out from the inner flange on either side of the head. Arbor shaft ends have a 2 $\frac{1}{2}$ " ground Acme thread to accommodate contact rolls and wheels from  $\frac{7}{8}$ " to 2 $\frac{7}{8}$ " in width.

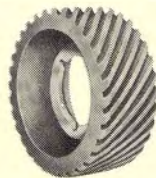


**No. 31-438 Arbor Head**, complete with dynamically balanced arbor pulley, two No. 49-560 drive belts, two 2 $\frac{1}{2}$ " diameter flanges with nuts to fit  $\frac{5}{8}$ " arbor. 25 lbs.

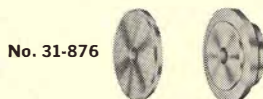
### RUBBER CONTACT WHEEL

With this new type wheel you can obtain a better finish in less time. Furthermore, it increases the life of your grinder belts to cut costs for you. Tire may be replaced on the hub which is designed for permanent use.

**No. 31-877 Rubber Contact Wheel** complete. Consists of No. 31-875 Tire and No. 31-876 Hub. 6 lbs.



**No. 31-875 Rubber Tire for Contact Wheel**, 2 $\frac{1}{2}$ " wide, 6" dia., 30-40 durometer (med. soft), with 45° standard serrations. Can be used up to 7500 sfpm. A general purpose tire for wood or metal work—stampings, die castings, forgings and contour grinding. 3 lbs.



**No. 31-876 Hub for Contact Wheel**.  $\frac{5}{8}$ " bore, consists of bushing and washer for mounting No. 31-875 Tire and other tires with same mounting dimensions. 3 lbs.

## VALUE ADDED BY YOUR INDUSTRIAL DISTRIBUTOR

*He will provide  
you with . . .*

**Assistance in Your Production Planning.** His years of experience and technical know-how have equipped him to give you expert advice on your production problems.

**Fast Delivery From Local Stocks.** Because of his knowledge of local markets, he stocks the products you need — delivers your orders quickly and keeps your working capital free.

**Prompt Information on New and Old Products.** He is in constant touch with manufacturers who supply him with information on new products and developments.

**One Source For Many Types of Products.** One source ordering simplifies your purchasing procedure and reduces your accounting costs.

**ROCKWELL**

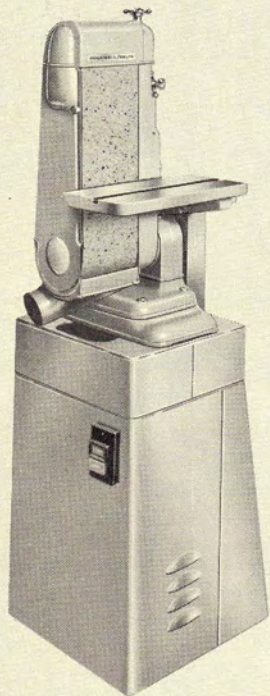
# **Abrasive Belt and Disc FINISHING MACHINES**

*Choose the Machine That Best Suits Your Needs!*

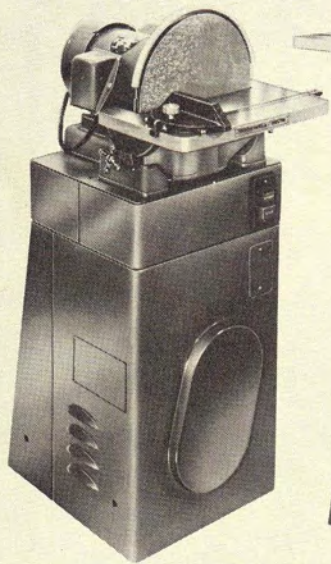
**6" ABRASIVE BELT**—a machine that offers exceptional versatility combined with high efficiency.

**12" ABRASIVE DISC**—a machine that gives you fine finishes fast whether in the pattern shop or on the production line.

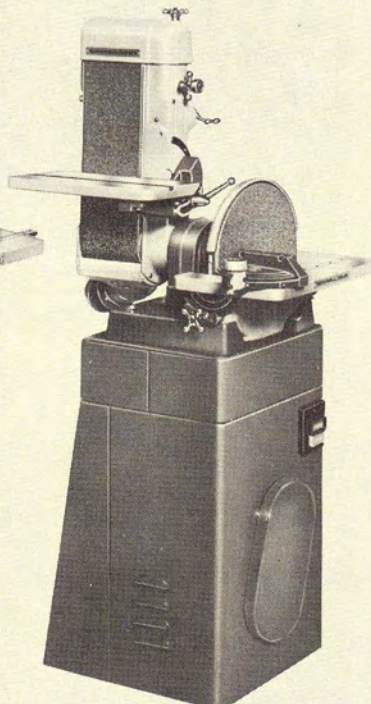
**6" BELT & 12" DISC COMBINATION**—a custom or production abrasive finishing machine in a single compact unit that **SAVES TIME, SAVES SPACE, SAVES COST.**



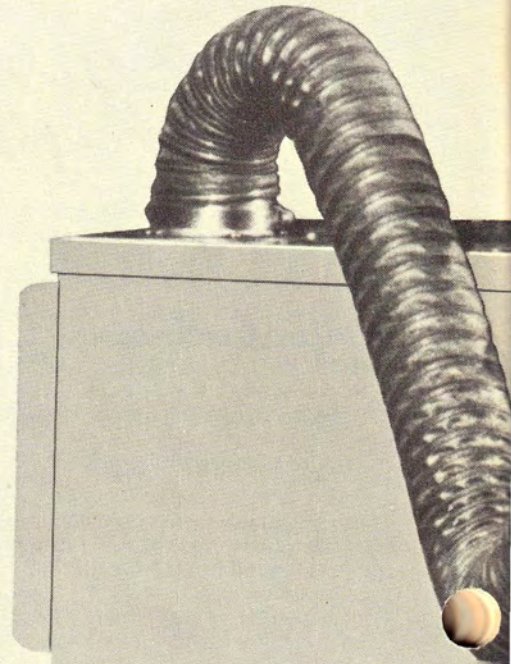
6" ABRASIVE BELT  
FINISHING MACHINE

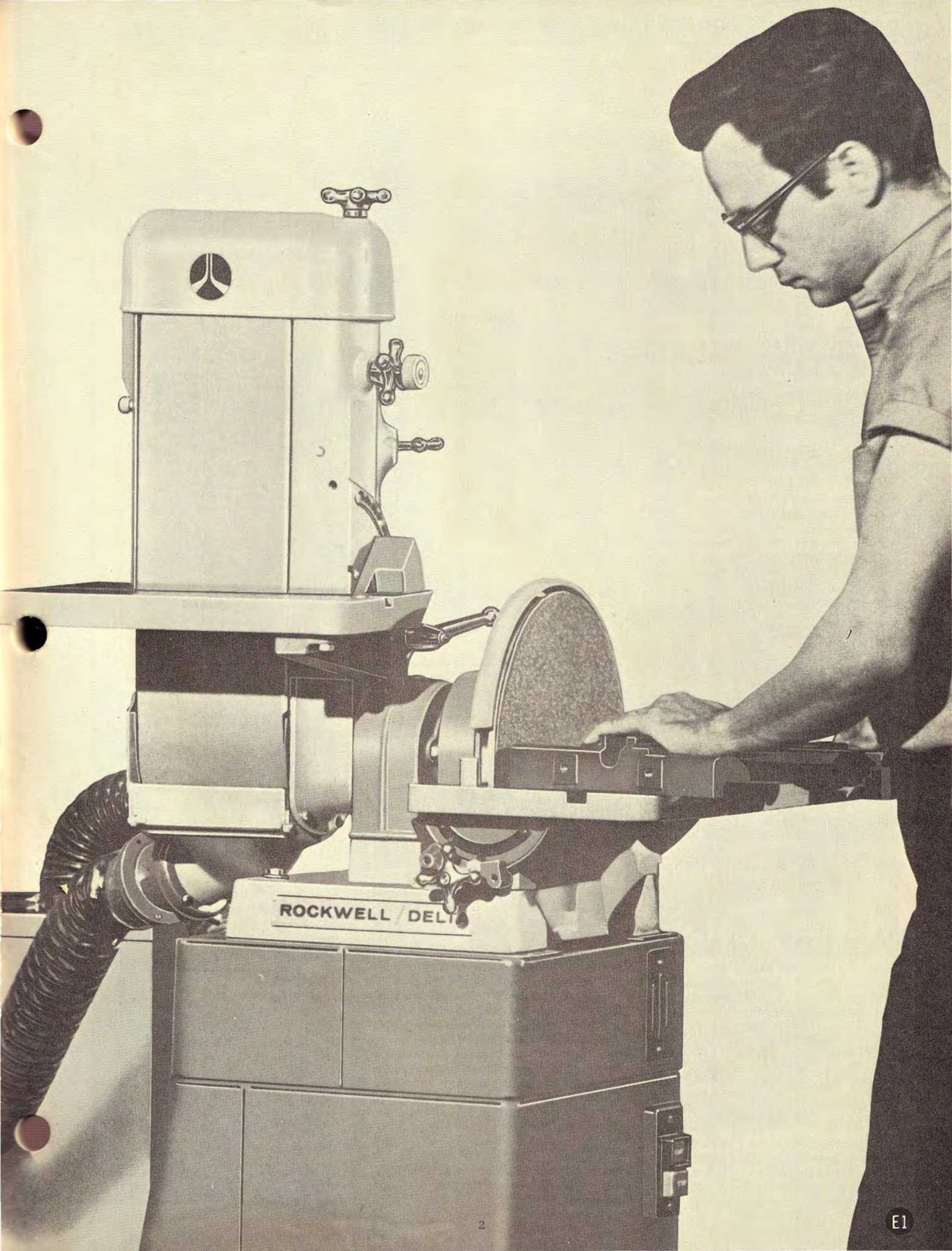


12" ABRASIVE DISC  
FINISHING MACHINE



6" BELT & 12" DISC  
FINISHING MACHINE

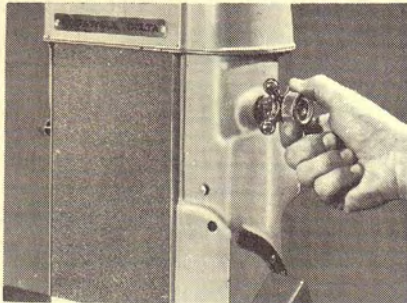




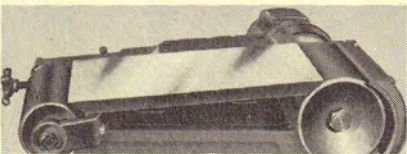
ROCKWELL / DELI

# ROCKWELL 6" ABRASIVE BELT FINISHING MACHINE

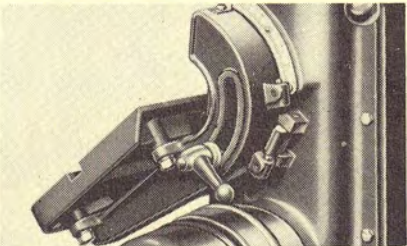
## ROCKWELL QUALITY FEATURES



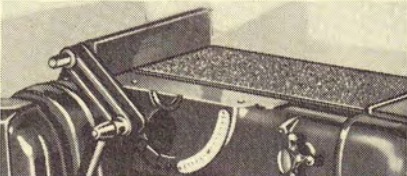
**New Belt Tracking Feature**—Knurled knob has fine thread adjustment for easy tracking of belt. Star wheel locks tracking adjustment firmly in place.



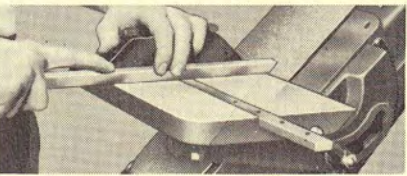
**New Platen**, with a hard chrome plated wear surface, maintains original machine accuracy much longer. Special surface also reduces friction between platen and belt (less drag on motor). Platen may be removed for contour sanding with a slack belt.



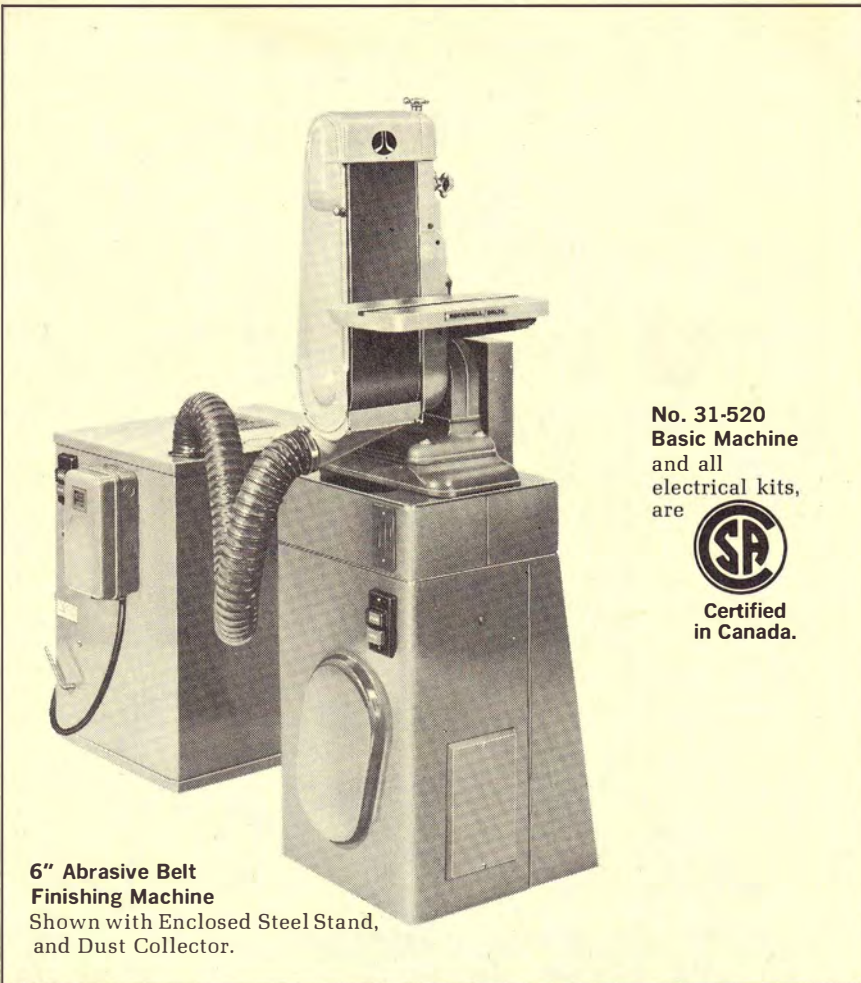
Here's a close-up of the **Heavy Trunnion** that carries the tilting table. Also shown is the swinging stop link and adjustable stop screws. Note scale and adjustable pointer for accurate readings.



View of **1403 Back Stop** and its bracket. Back stop is used for finishing flat work—prevents work from being carried along with belt.



**Belt Operates Vertically, Horizontally or at Any Degree** in between. Thus, work table can remain in level position while belt is tilted to give a 45° or other angle finish.



**6" Abrasive Belt Finishing Machine**  
Shown with Enclosed Steel Stand, and Dust Collector.

No. 31-520  
Basic Machine  
and all  
electrical kits,  
are



Certified  
in Canada.

## The Rockwell 6" Abrasive Belt Finishing Machine Offers Exceptional Versatility Combined With High Efficiency!

Here is an ideal unit for the machine shop, pattern shop, experimental department, assembly department, cabinet shop and furniture factory. It does finishing, mitering, deburring, chamfering and other operations in both wood, metal, plastics and other materials.

Outstanding features include: sealed, lubricated-for-life ball bearings; adjustable dust deflector and

dust spout on lower guard; completely enclosed or guarded drums and belt for utmost safety; adjustable platen that can be removed for freehand finishing of odd shapes; removable upper guard for contour finishing on idler drum.

### STANDARD EQUIPMENT

**Basic Machine** includes tilting table, V-pulley, 100 grit (fine), aluminum oxide belt and guards.

**Exclusive Rockwell 24-Volt Safety Control System**—Only Rockwell 6" Abrasive Belt Finishing Machines offer a low 24 volts at the push button control station for extra operator safety. Magnetic control system provides on-off control, low-voltage, no-voltage (when power is interrupted, machine can be started only by pressing start button), and motor overload protection. On three phase systems, overload protection is provided on all three legs. Shrouded green "start" button prevents accidental starts while protruding red "stop" button is extra large for quick, emergency stops. Switch cover and buttons are made of non-conductive material for added safety.



# ROCKWELL 6" ABRASIVE BELT FINISHING MACHINE

## MACHINE DATA

### Overall Dimensions:

Floor Model With Enclosed Steel Stand:

Vertical:  
 Front to Rear .....16" (406.4 mm)  
 Width .....20" (508 mm)  
 Height .....56<sup>1</sup>/<sub>2</sub>" (1435.1 mm)  
 Horizontal:  
 Front to Rear ....28<sup>1</sup>/<sub>2</sub>" (723.9 mm)  
 Width .....20" (508 mm)  
 Height .....39" (990.6 mm)

### Table:

Size ....7<sup>3</sup>/<sub>8</sub> x 14<sup>3</sup>/<sub>4</sub>" (187.3 x 374.6 mm)  
 Tilt .....45° Out, 20° In  
 Miter Gage  
 Groove .....<sup>3</sup>/<sub>8</sub> x <sup>3</sup>/<sub>4</sub>" (9.5 x 19.05 mm)  
 Platen. ....6<sup>1</sup>/<sub>4</sub> x 14<sup>3</sup>/<sub>4</sub>" (158.7 x 374.6 mm)  
**Belt:**  
 Length:  
 Standard .....48" (1219.2 mm)  
 Maximum .....49<sup>5</sup>/<sub>8</sub>" (1260.4 mm)  
 Minimum .....47<sup>3</sup>/<sub>4</sub>" (1212.8 mm)  
 Speed .....3415 SF/M  
 (1,040,892 Surf MM/Min.)

## CATALOG LISTING

**No. 31-520 Basic Machine Without Stand:** 6" Abrasive Belt Finishing Machine with 31-401 (old 1401) tilting table, 4" arbor pulley, 31-404 (old 1414) fine grit, aluminum oxide belt and guards. Without stand, fence, backstop, V-belt, V-belt guard, motor pulley, motor and switch. 98 lbs.

**NOTE:** For enclosed steel stand, motor and controls, see below. For enclosed steel stand only, see ACCESSORIES.

## ENCLOSED STEEL STAND WITH BELT GUARD, MOTOR AND CONTROLS (Factory Mounted and Wired)

**NOTE:** Motor Pulley 41-083 (<sup>5</sup>/<sub>8</sub>" bore) and V-belt 49-146 included. Enclosed Steel Stands With Electricals Can Be Ordered Either With or Without the Basic No. 31-520 6" Abrasive Belt Finishing Machine.

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER	CAT. NO. 200V
Single Phase, 1 Horsepower	Push Button Switch Only	TEFC	60-1725	115/230	125	49-975	
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230	130	49-977	
Three Phase, 1 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	90	†49-985	52-124

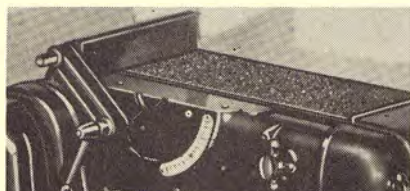
**NOTE:** Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only. Motors and Motor Controls for Rockwell Delta 6" Abrasive Belt Finishing Machines may be ordered unmounted. For listing, see Sections

P and Q. †No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to Three Phase Cat. No. 49-985, in order to obtain 6" Abrasive Belt Finishing Machine with "JIC" type electricals, factory mounted and wired.

## ACCESSORIES

**No. 50-125 Enclosed Steel Stand.** Includes 50-139 basic stand, 50-136 motor plate, 50-129 steel riser block, 50-130 cast iron riser block and 50-134 belt guard. 79 lbs.

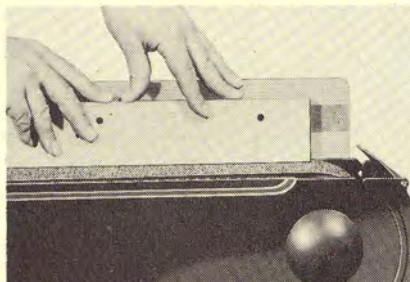
**No. 31-401 (old 1401) Tilting Table,** with trunnion assembly. 14 lbs.



**No. 31-403 (old 1403) Backstop,** complete with bracket. 4 lbs.

**No. 31-142 (old 1412) Garnet Belt** for wood, 6 x 48", 80 grit, fine. <sup>1</sup>/<sub>4</sub> lb.

**No. 31-014 (old 1410) Wood Fence,** 3<sup>1</sup>/<sub>4</sub> x 17<sup>1</sup>/<sub>2</sub>", with brackets. 6 lbs.



**No. 31-314 (old 1413) Garnet Belt** for wood, 6 x 48", 40 grit, coarse. <sup>1</sup>/<sub>4</sub> lb.

**No. 31-404 (old 1414) Al. Oxide Belt** for metal, 6 x 48", 100 grit, fine. <sup>1</sup>/<sub>4</sub> lb.

**No. 31-405 (old 1415) Al. Oxide Belt** for metal, 6 x 48", 50 grit, coarse. 1 lb.

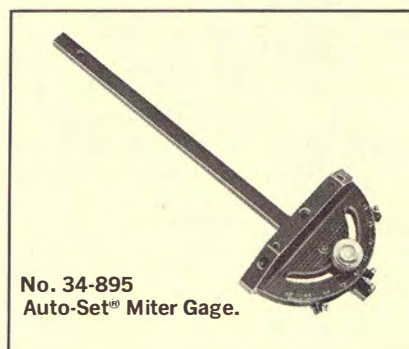
**No. 41-082 Motor Pulley,** 5" diameter, <sup>1</sup>/<sub>2</sub>" bore. 1 lb.

**No. 41-083 Motor Pulley,** 5" diameter, <sup>3</sup>/<sub>8</sub>" bore. 1 lb.

**No. 41-084 Motor Pulley,** 5" diameter, <sup>3</sup>/<sub>4</sub>" bore. 1 lb.

**No. 49-146 V-Belt,** 65<sup>1</sup>/<sub>8</sub>" OC. Used with 50-125 enclosed steel stand. <sup>1</sup>/<sub>2</sub> lb.

**No. 50-111 Retractable Caster Set** for 50-125 enclosed steel stand. 13 lbs.



**No. 34-895 Auto-Set® Miter Gage.**

### No. 34-895 Auto-Set® Miter Gage

For straight and angle finishing. Has <sup>3</sup>/<sub>8</sub> x <sup>3</sup>/<sub>4</sub> x 18" guide bar and pivoting work support body with pointer and calibrations reading through 120° swing. Adjustable, positive stops at 90° and 45° positions. Accommodates No. 34-568 Clamp Attachment. 3<sup>1</sup>/<sub>2</sub> lbs.

**No. 34-568 (old 865) Clamp Attachment** for 34-895 miter gage. 1<sup>1</sup>/<sub>2</sub> lbs.

For Dust Collector and Attachment Parts, see Section D1.

For Vacuum Cleaner and Attachment Parts, see Section O2.



You can keep your shop clean and safe when you use a Rockwell "High Efficiency" Dust Collector with the 6" Abrasive Belt Finishing Machine.

## ROCKWELL INDUSTRIAL DISTRIBUTORS

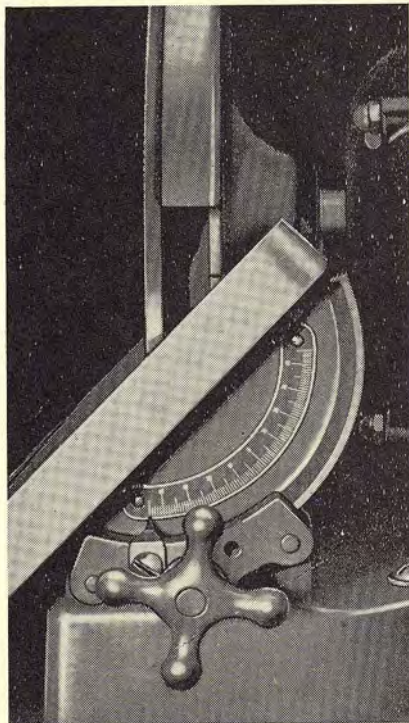
Your local Industrial Distributor, who makes Rockwell Delta Industrial Machines and Accessories conveniently available to you, also can assist you with expert application engineering. He is as close to you as your phone. He is always willing to help you by making prompt, emergency deliveries of hundreds of items which could prevent costly shutdowns and delays. Depend on him for all of your industrial requirements, just as Rockwell does at all of its plant locations.

# ROCKWELL 12" ABRASIVE DISC FINISHING MACHINE

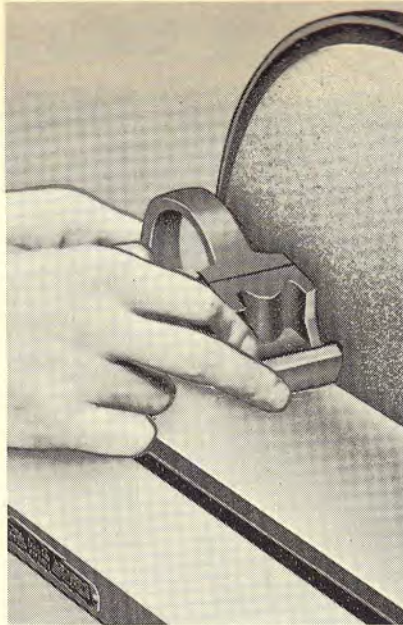
**QUALITY FEATURES  
THAT ASSURE QUICK,  
ACCURATE FINISHING  
ON EVERY JOB!**



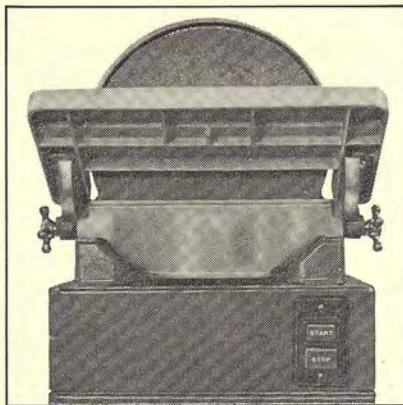
**Accurate Miters Quickly Obtained.** Plain and compound miters are easily handled with the aid of the No. 50-864 Miter Gage. The wide tilt range of the table, combined with the built-in accuracy of the 12" Abrasive Disc Finishing Machine, makes it an ideal tool for the pattern shop.



**Large Miter Scales Plus Positive Locks on Table.** A handy lock knob on either side of the table locks it securely at any angle. An easy-to-read scale shows exact degree of tilt desired.



**Job Versatility Practically Unlimited.** With the Rockwell Delta 12" Abrasive Disc Finishing Machine, all kinds of deburring, grinding, and finishing can be done quickly and easily—free-hand curved grinding, finishing with jigs, angle grinding, miter finishing.



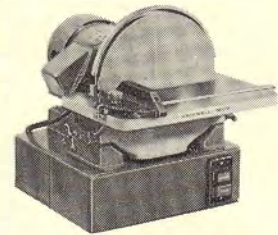
**Husky Table Has Rigid Table Supports.** The large, scientifically ribbed table is mounted on two widely spaced trunnions for maximum support and rigidity. Convenient dust chute (accessory) carries off dust to the rear.

**Exclusive Rockwell 24-Volt Safety Control System—Only Rockwell 12" Abrasive Disc Finishing Machines offer a low 24 volts at the push button control station for extra operator safety.** Magnetic control system provides on-off control, low-voltage, no-voltage (when power is interrupted, machine can be started only by pressing start button), and motor overload protection. On three phase systems, overload protection is provided on all three legs. Shrouded green "start" button prevents accidental starts while protruding red "stop" button is extra large for quick, emergency stops. Switch cover and buttons are made of non-conductive material for added safety.

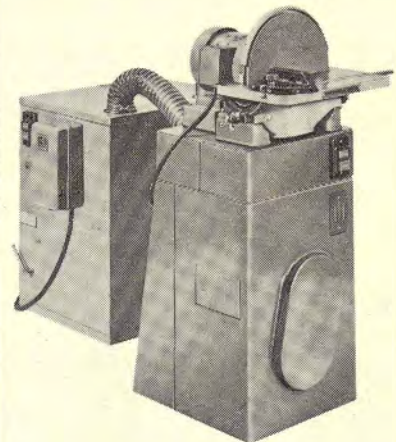
Complete 12" Abrasive Disc Finishing Machine and all electrical kits are



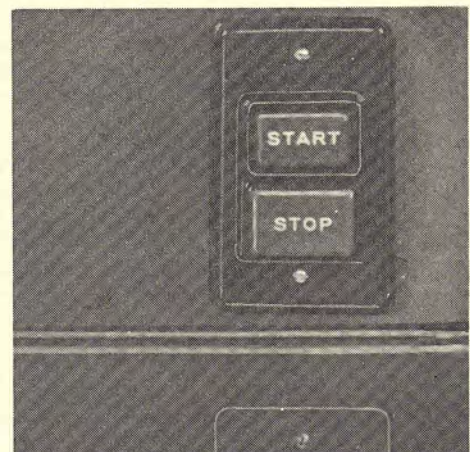
**Certified  
in Canada.**



**12" Abrasive Disc Finishing Machine,  
Ready-To-Run  
Model Shown with  
Accessory 34-895 Miter Gage.**



**12" Abrasive Disc Finishing Machine,  
Ready-To-Run Model Shown with  
Accessory 50-139 Enclosed  
Steel Stand, 34-895 Miter Gage and  
Metal Dust Collector.**



# ROCKWELL 12" ABRASIVE DISC FINISHING MACHINE

## You Get FINE Finishes FAST With The Rockwell 12" Abrasive Disc Finishing Machine

This top quality Rockwell finishing machine is designed for all types of finishing work on woods, metals plastics, compositions and other materials. It's easily moved into or out of the production line or anywhere in the shop where fast, accurate finishing is required.

Rockwell quality features include—fully machined, normalized disc that runs vibration-free and assures proper adhesion of abrasive discs... disc mounted to end of motor shaft for powerful, accurate operation... scientifically ribbed table supported by widely spaced trunnions. These and other big features make this machine extremely popular in hundreds of installa-

tions from the pattern shop to the factory production line!

## MACHINE DATA

### Overall Dimensions:

Floor Model on Enclosed

Steel Stand ..... 23" (584.2 mm) Wide,  
42<sup>1</sup>/<sub>2</sub>" (1079.5 mm) High,  
23<sup>5</sup>/<sub>8</sub>" (600.07 mm) Front to Rear

### Table:

Size ..... 9<sup>3</sup>/<sub>4</sub> x 16<sup>1</sup>/<sub>4</sub>" (247.6 x 412.7 mm)  
Tilt ..... 45° Out, 20° In  
Miter Gage Groove ..... 3/8 x 3/4" (9.5 x 19.05 mm)

**Disk** ..... 12" (304.8 mm) Diameter With Flanged Hub, 7/8" (22.2 mm) Bore

### Tilt Gage Has Adjustable Pointer

### Motor Plate:

Accommodates NEMA 143T and 145T Frame Motors

## CATALOG LISTING

**No. 31-122 Basic Machine:** 12" Direct Motor Drive Abrasive Disc Finishing Machine with tilt table. Without motor, switch, sub base and stand. 60 lbs.

**COMPLETE 12" ABRASIVE DISC FINISHING MACHINE, Ready to Run, with SUB Base (Less Stand) and Special Thrust Load, Ball Bearing Motor.**

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT., LBS.	MACHINE CAT. NO.	MACHINE CAT. NO. 200V
Single Phase 1 Horsepower	Push Button Switch Only	TEFC	60-1725	115/230	131	31-125	
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230	136	31-126	
Three Phase 1 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	125	31-131	31-132

**NOTE:** Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only. Motors and Motor Controls for Rockwell Delta 12" Abrasive Disc

Finishing Machines may be ordered unmounted. For listing, see Sections P and Q. †No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to Three Phase Cat. No. 31-131, in order to obtain 12" Disc Sander with "JIC" type electricals, factory mounted and wired.

## BASIC ACCESSORIES

**No. 50-139 Enclosed Steel Stand.** 31 lbs.

**No. 31-123 Sub Base.** Required for mounting 12" Disc Sander to Enclosed Steel Stand. Furnished as Standard Equipment except for 31-122 Basic Machine. 16 lbs.

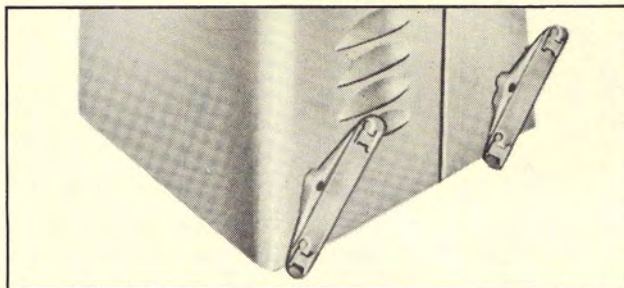
## ACCESSORIES

**No. 34-895 Auto-Set® Miter Gage.** For straight and angle finishing. Has 3/8 x 3/4 x 18" guide bar and pivoting work support body with pointer and calibrations reading through 120° swing. Adjustable, positive stops at 90° and 45° positions. Accommodates No. 34-568 Clamp Attachment. 3<sup>1</sup>/<sub>2</sub> lbs.

**No. 34-568 (old 865) Clamp Attachment** for Miter Gage. 1<sup>1</sup>/<sub>2</sub> lbs.

**No. 31-427 (old 1427) Garnet Disc** for wood, 12" diameter, 50 grit, medium (1/2 doz.). 1<sup>1</sup>/<sub>4</sub> lbs.

**No. 31-428 (old 1428) Aluminum Oxide Disc** for metal, 12" diameter, 60 grit, medium (1/2 doz.). 1<sup>1</sup>/<sub>4</sub> lbs.

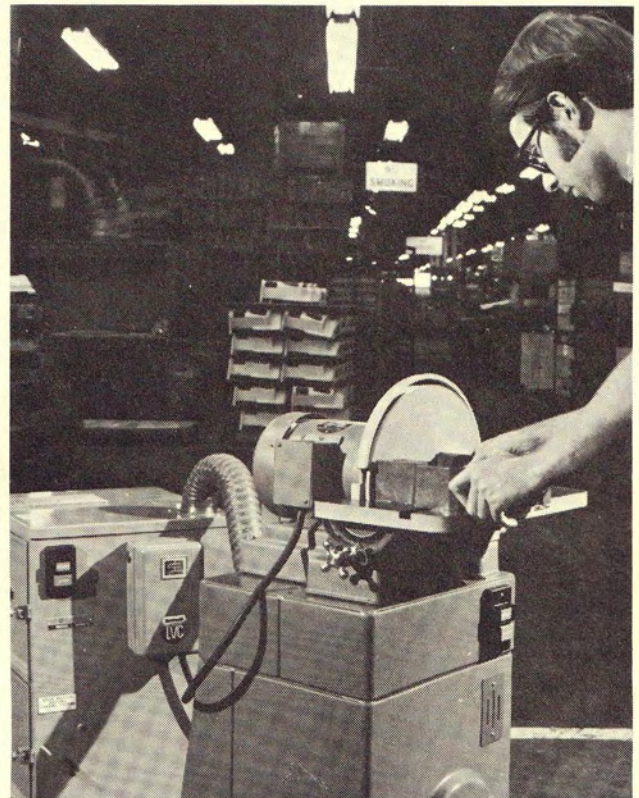


**No. 50-111 Retractable Caster Set** for 50-139 enclosed steel stand. Furnished with built-in levelling screws that assure a level base at all times. 13 lbs.

**No. 49-503 Disk Adhesive.** 1 lb.

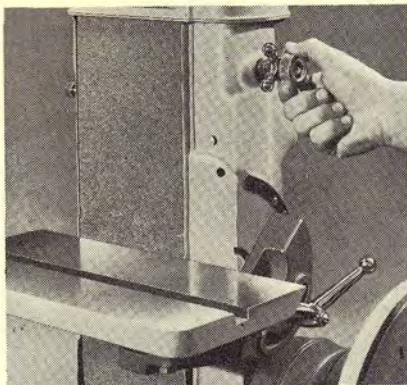
For Metal Dust Collector and Attachment Parts, see Section D1.

For Wood Vacuum Cleaners and Attachment Parts, see Section O2.

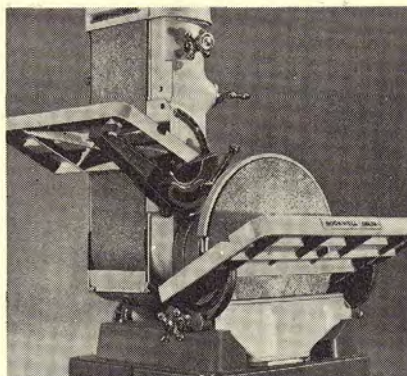


You can keep your shop clean and safe when you use a Rockwell "High Efficiency" Dust Collector with the 12" Abrasive Disc Finishing Machine.

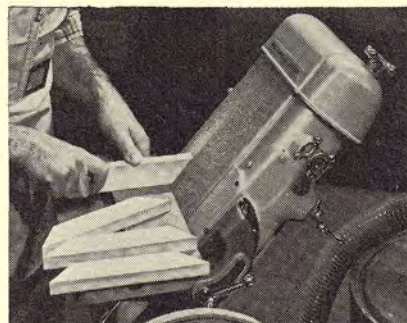
**ROCKWELL  
QUALITY FEATURES  
THAT SPEED UP  
CUSTOM OR PRODUCTION  
FINISHING  
AT LESS COST!**



**New Belt Tracking Feature**—Knurled knob has fine thread adjustment for easy tracking of belt. Star wheel locks tracking adjustment firmly in place.

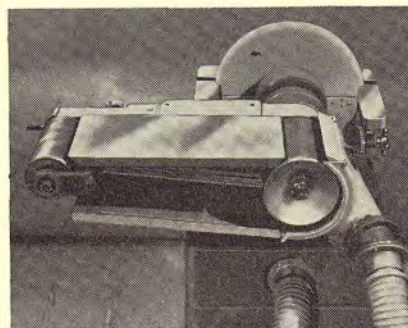


**Two Husky Tables**—With the Rockwell Delta Combination Finishing Machine, you get two scientifically ribbed tables (not one). Unlike some machines, you don't have to waste valuable production time removing the table when you move from one machine to the other. Two widely spaced trunnions firmly support the Disc Sander table while a single massive trunnion provides ample rigidity for the Belt Sander table.

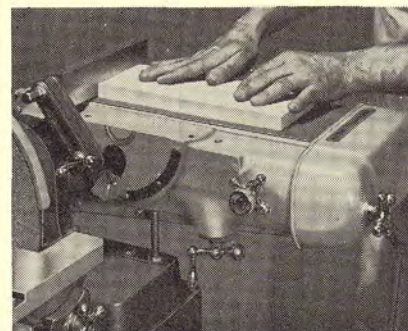


**Belt Operates At Any Angle**—You can operate the belt vertically, horizontally

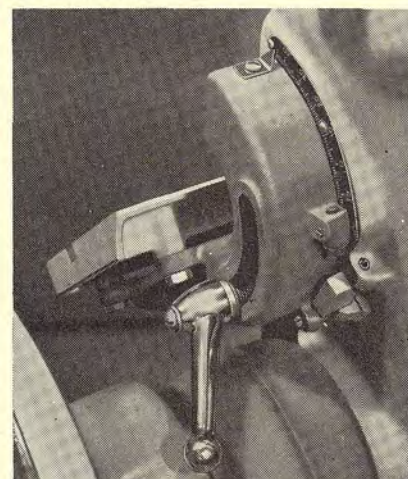
or at any degree in between. Note that work table can remain in level position, providing excellent work support, also storage area for work to be done.



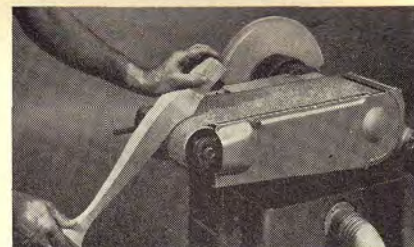
**Specially Designed Platen; Extra Large Drive Drum**—Ruggedly built platen has a hard chrome-plated wear surface that maintains original machine accuracy much longer. Special surface greatly reduces friction between platen and belt (less drag on motor). Large 5½" diameter drive drum efficiently transmits maximum power from motor to belt, also provides correct belt speed of 3450 FPM for faster, smoother finishing.



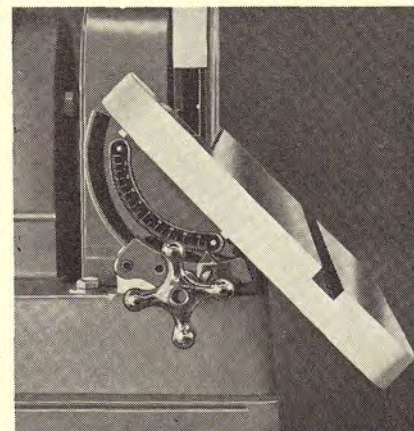
**Handy Back Stop**—An excellent accessory for finishing flat work because it prevents stock from being carried along with the belt.



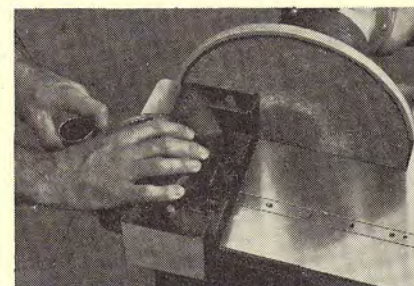
**Massive Belt Sander Table Trunnion**—Rigidly supports table for accurate work. Swinging Stop Link and adjustable screws provide positive settings at 90° and 45° for repetitive work. Table also may be tilted 20° in. Easy-to-read tilt scale and adjustable pointer speed table settings.



**Contour Finishing Set-Up Immediately Available**—Operator simply removes upper belt guard, then proceeds to contour finish stock on the idler drum.



**Handy Tilt Scale; Positive Disc Sander Table Locks**—A large, conveniently located tilt scale shows exact degree of tilt desired from 45° out to 20° in. Positive grip star wheels on either side of the table lock it securely in position.



**Big 9¾ x 16¼" Table**—Furnishes ample work support for finishing core prints of large patterns. Fully machined, normalized disc runs vibration free for accurate finishing.



**Exclusive Rockwell Safety Control Station**—shrouded green "start" button prevents accidental starts while protruding red "stop" button is extra large for quick, emergency stops. Switch cover and buttons are made of non-conductive material for added safety.

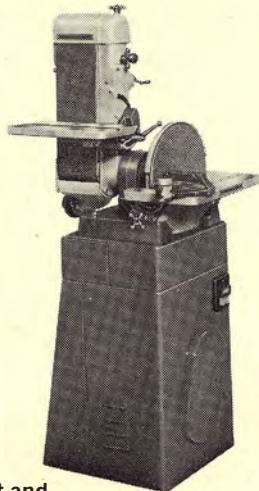
# ROCKWELL 6" BELT AND 12" DISC FINISHING MACHINE

No. 31-710  
Basic  
Machine  
and all  
electrical  
kits are



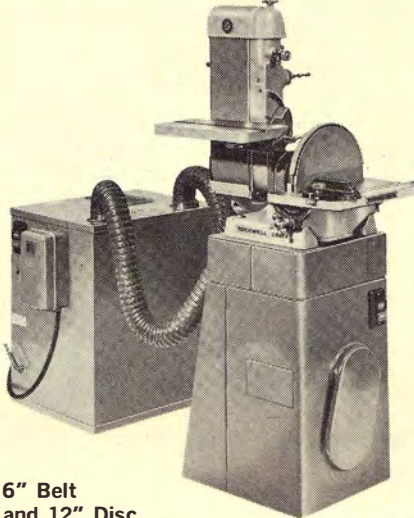
Certified  
in Canada.

Equipped With TEFC Motor



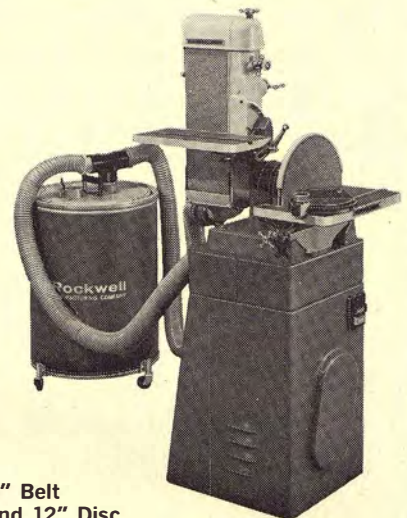
**6" Belt and 12" Disc Finishing Machine**—Shown on Enclosed Stand with Accessory Miter Gage, Dust Collector Attachment Parts and Electricals.

Equipped With TEFC Motor



**6" Belt and 12" Disc Finishing Machine**—Shown on Enclosed Stand with Accessory Miter Gage, Metal Dust Collector with Attachment Parts, and Electricals.

Equipped With TEFC Motor



**6" Belt and 12" Disc Finishing Machine**—Shown on Enclosed Stand with Accessory Miter Gage, Wood Vacuum Cleaner with Attachment Parts, "T" Connector, and Electricals

**PERFECTLY SUITED FOR ALL METALWORKING AND WOODWORKING SHOPS**

The Rockwell Delta Combination Finishing Machine is a well-engineered, high production unit. Here's why. It comprises in one compact, efficient combination the famous Rockwell Delta 6" Abrasive Belt Finishing Machine and the Rockwell Delta 12" Abrasive Disc Finishing Machine. Powered with a heavy duty 1½ HP motor, this machine has the right speeds—2400 RPM for the disc unit and 3450 FPM for the belt unit—to make it well suited for both metal and wood shops.

With this excellent performing combination you can handle 90 to 95% of all your finishing operations on wood, metal, plastic, compositions, leather and dozens of other materials. Typical operations include surfacing, finishing, sanding, polishing, deburring, grinding and cleaning.

For these reasons this time and money-saving coated-abrasive finishing machine is an excellent unit for the factory production line, machine shop, experimental department, wood and metal pattern shops, furniture factory and cabinet and school shops—wherever custom or production finishing operations must be performed efficiently and economically.

## STANDARD EQUIPMENT

**Basic Machine** includes two tilting tables, 5" arbor pulley, guard for arbor pulley, V-belt, 80-grit garnet belt and 50-grit garnet disc.

## MACHINE DATA

### Overall Dimensions on Stand:

Vertical: Front to Rear	19" (482.6 mm)
Width	26" (660.4 mm)
Height	56½" (1485.1 mm)
Horizontal: Front to Rear	29½" (749.3 mm)
Width	25" (635 mm)
Height	42" (1066.8 mm)

### Belt Machine:

Table Size	7¾" x 14¾" (187.3 x 374.6 mm)
Table Tilt	45° Out, 20° In
Miter Gage Groove	¾" x ¾" (9.5 x 19.05 mm)
Platen (Hard Chrome Plated)	6¼" x 14¾" (158.7 x 374.6 mm)
Belt	6 x 48" (152.4 x 1214.2 mm)
Belt Speed	3450 SF/M (1,051,560 Surf. MM/Min.)

### Disc Machine:

Table	9¾" x 16¼" (247.6 x 412.7 mm)
Miter Gage Groove Dimensions	¾" x ¾" (9.5 x 19.05 mm)
Table Tilt	45° Out, 20° In
Disc	12" (304.8 mm) Diameter With ¾" (19.05 mm) Bore
Disc Speed	2400 RPM
Tilt Gage	Has Adjustable Pointer

## CATALOG LISTING

**No. 31-710 Basic Machine Without Stand:** 6" Belt and 12" Disc Finishing Machine with two tilting tables, 5" arbor pulley, guard for arbor pulley, V-belt, 80-grit garnet belt and 50-grit garnet disc. Without stand, motor, motor control, motor pulley and dust collector attachment parts. 158 lbs.

## ENCLOSED STAND WITH MOTOR, MOTOR PULLEY AND MOTOR CONTROLS (Factory Mounted and Wired)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIP. WT., LBS.	CATALOG NUMBER	CAT. NO. 200V
Single Phase, 1½ Horsepower	Push Button Switch Only	TEFC	60—3450	115/230	87	52-314	
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60—3450	115/230	100	52-381	
Three Phase, 1½ Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60—3450	230/460	98	152-385	52-325

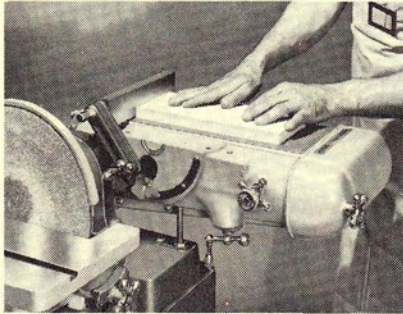
**NOTE:** Single phase electricals will be supplied wired for 230 V, unless 115 V is specified. If 115 V is specified, operating circuit must be minimum of 30 amperes, incorporating time-delay fusing. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for 230 V single phase only. Motors and Motor

Controls for Rockwell Delta 6" Belt and 12" Disc Finishing Machines may be ordered unmounted. For listing, see Sections P and Q. †No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to Three Phase Cat. No. 52-385, in order to obtain Combination Finishing Machine with "JIC" type electricals, factory mounted and wired.

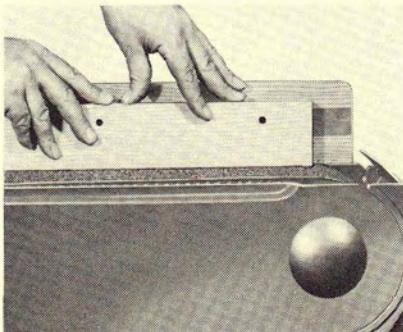
**ROCKWELL  
QUALITY ACCESSORIES  
FOR INCREASED  
JOB PERFORMANCE!**

**No. 50-114 Enclosed Stand.** Includes basic stand, motor mounting plate, steel riser block, grommets for portholes and hardware for mounting finishing machine. 55 lbs.

**No. 31-401 (old 1401) Tilting Table,** with trunnion assembly. 14 lbs.



**No. 31-403 (old 1403) Backstop,** complete with bracket. 4 lbs.



**No. 31-014 (old 1410) Wood Fence,** 3/4 x 17 1/2", with brackets. 6 lbs.

**No. 31-142 (old 1412) Garnet Belt** for wood, 6 x 48", 80 grit, fine. 1/4 lb.

**No. 31-314 (old 1413) Garnet Belt** for wood, 6 x 48", 40 grit, coarse. 1/4 lb.

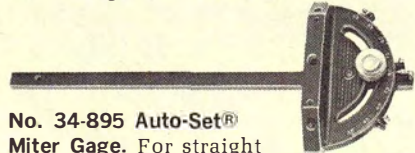
**No. 31-404 (old 1414) Al. Oxide Belt** for metal, 6 x 48", 100 grit, coarse. 1/4 lb.

**No. 31-405 (old 1415) Al. Oxide Belt** for metal, 6 x 48", 50 grit, coarse. 1/4 lb.

**No. 31-427 (old 1427) Garnet Disc** for wood, 12" diameter, 50 grit, medium (1/2 doz.) 1 1/4 lbs.

**No. 31-428 (old 1428) Al. Oxide Disc** for metal, 12" diameter, 60 grit, medium (1/2 doz.) 1 1/4 lbs.

**No. 31-034 (old 1430) Disc Assembly** with flange and set screws. 11 lbs.



**No. 34-895 Auto-Set® Miter Gage.** For straight and angle finishing. Has 3/8 x 3/4 x 18" guide bar and pivoting work support body with pointer and calibrations reading through 120° swing. Adjustable, positive stops at 90° and 45° positions. Accommodates No. 34-568 Clamp Attachment. 3 1/2 lbs.

**No. 34-568 Clamp Attachment** for 34-895 Miter Gage. 1 1/2 lbs.

**No. 41-052 Motor Pulley,** 3 1/2" diameter, 1/2" bore. 1 lb.

**No. 41-053 Motor Pulley,** 3 1/2" diameter, 5/8" bore. 1 lb.

**No. 41-054 Motor Pulley,** 3 1/2" diameter, 3/4" bore. 1 lb.

**No. 51-010 V-Belt,** 4-L cross section, 67" OC. 1/2 lb.

**No. 49-503 Disc Adhesive.** 1 lb.

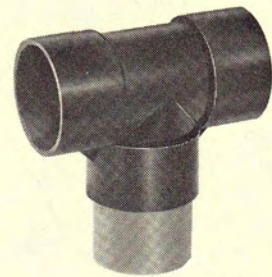
**No. 31-856 Attachment Parts** for 6" Abrasive Belt Finishing Machine and for Belt Unit of Combination Belt and Disc Finishing Machine when used with Metal Dust Collector 49-826, 49-831 or 49-909. Includes 3 x 22" hose, two hose flanges, two hose clamps and adapter. 7 lbs.

**No. 49-589 Attachment Parts** for Belt Finishing Machine when used with Vacuum Cleaner 49-255. Includes 49-233 Flange for connecting to 2 1/2" hose. 1 1/2 lbs.

**No. 50-140 Attachment Parts** for 12" Abrasive Disc Finishing Machine when used with Vacuum Cleaner 49-255. Includes cast iron funnel and flange for connecting to 2 1/2" hose. 8 1/4 lbs.

**No. 50-141 Attachment Parts** for 12" Abrasive Disc Finishing Machine when mounted on Enclosed Stand 50-126, and for Disc Unit of Combination Belt and Disc Finishing Machine when used with Metal Dust Collectors 49-826, 49-831 or 49-909. Includes 3 x 22" hose, two hose flanges, two hose clamps and cast iron funnel. 13 1/2 lbs.

**No. 49-229 Hose,** 2 1/2" diameter x 6' long. Same as standard hose supplied with Vacuum cleaner. 4 lbs.



**No. 49-225 "T" Connector,** for use with 49-255 Vacuum Cleaner. For 2 1/2" hose. Recommended when one vacuum cleaner is used to collect dust from both the belt and disc at the same time. (Order extra 49-229 2 1/2" x 6' hose separately.) 1 lb.

*For Dust Collectors and Accessories, see Section D1.*

*For Vacuum Cleaner and Accessories, see Section O2.*

# ROCKWELL Long-Bed JOINTERS

8", 6", 4 MODELS

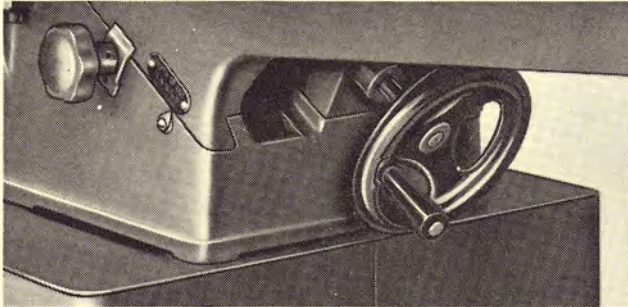
Big in Every Way—Capacity, Safety, Convenience—  
To Meet Your Every Production Need!

No matter which Rockwell Jointer you select, it will provide all the capacity, flexibility and precision you will ever require. Features include an extra-long bed . . . big fence . . . large handwheels . . . fully adjustable infeed and outfeed tables . . . dove-tailed table ways with adjustable gibs . . . and lots more!

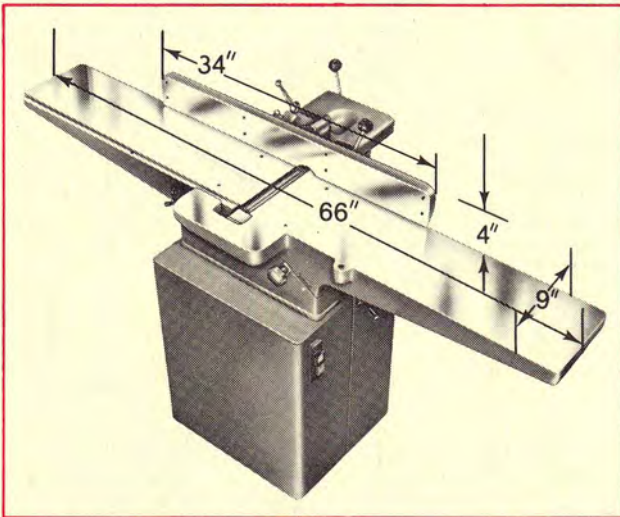


# ROCKWELL 8" LONG-BED JOINTER

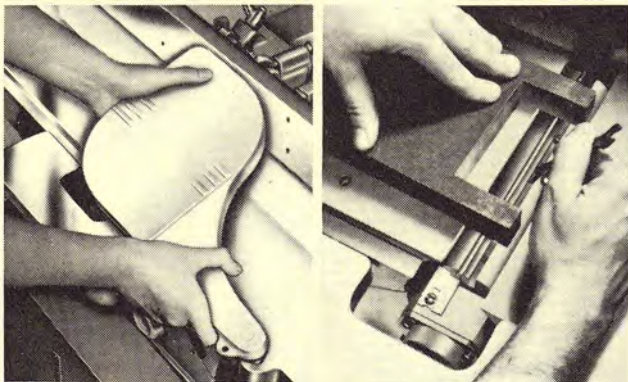
**QUALITY FEATURES THAT MAKE THE 8" LONG-BED JOINTER SUITABLE FOR EVERY PRODUCTION REQUIREMENT!**



**Gibbed, Dove-Tailed Table Ways**—both front and rear tables raise and lower on long, inclined, dove-tailed ways. Adjustable gibs compensate for any wear. Easy-to-read scale shows exact depth of cut. Handy knob locks table at desired setting.

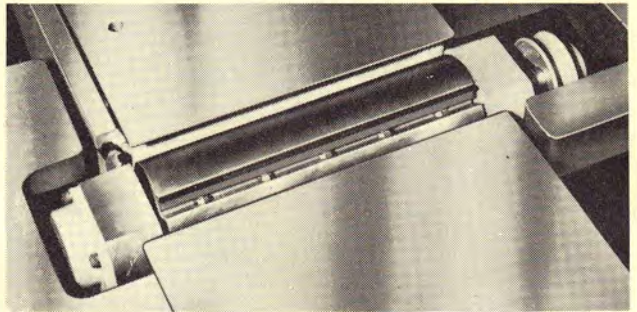


**Big, Extra-Long Bed**—measures a full 5½ feet in length . . . makes it possible to cut perfect straight edges on extra long material. Large 4" high x 34" long fence permits accurate, easy bevel jointing.

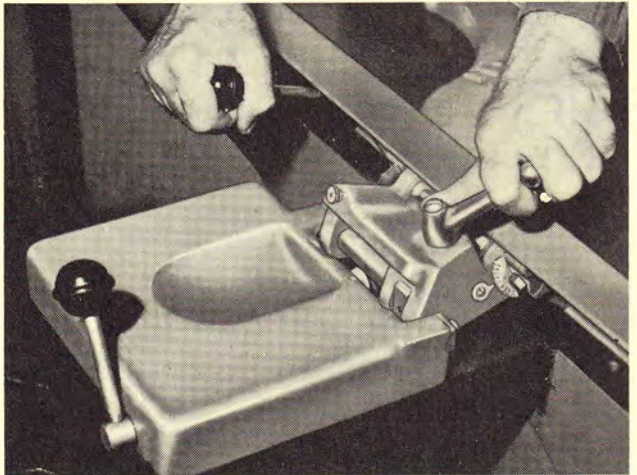


*(Left)* **Safety Engineered Guard**—Practical design of cutterhead guard gives you maximum coverage of cutter knives at all times. Easily removed for rabbeting. Cutter knives to rear of fence are covered by fence mounting base.

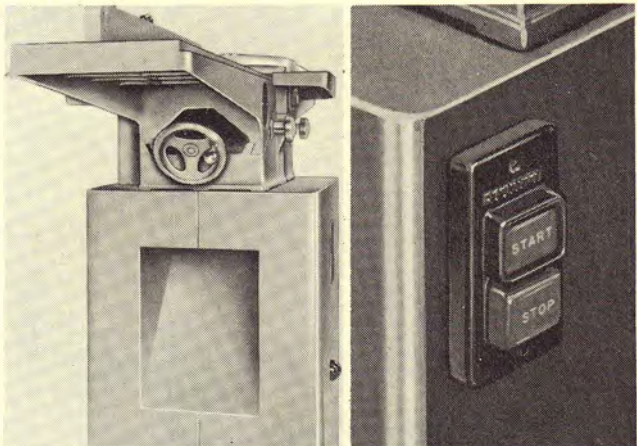
*(Right)* **Special Knife-Setting Feature**—Only the Rockwell Delta 8" Jointer incorporates a precision-ground Index Stop that locks the cutterhead in the correct position for setting cutter knives. Also serves as a stop gage to automatically locate knives for rabbeting operations. Only the Rockwell Delta 8" Jointer gives you a cutterhead with built-in springs that hold cutter knives at the proper height when locking them in place. *You get perfect cutter knife alignment every time . . . in just minutes!*



**Safety-Type, Three-Knife Cutterhead**—with 3" cutting circle, it delivers 15,525 knife cuts per minute. Unique unit-type design enables operator to change cutterheads by simply removing four studs, virtually eliminating costly down time.



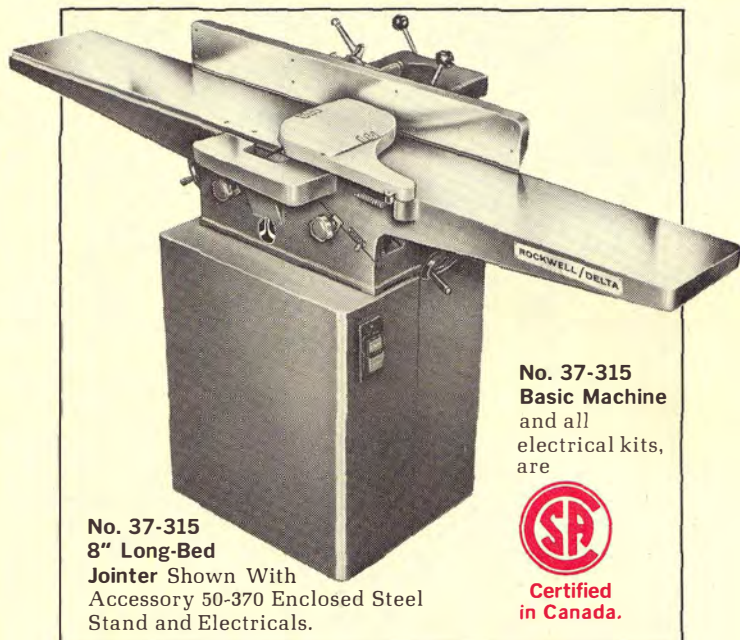
**Center Mounted, Two-Way Tilting Fence**—equipped with plunger type stop at 90° and positive stops at 45°, right and left, for making chamfer and bevel cuts. Cam type lock with single lever control quickly locks fence at any position across the work table.



*(Left)* **Adjustable Outfeed Table**—simplifies alignment of outfeed table to cutterhead. This outstanding feature makes possible stop jointing and stop chamfering. Built-in dust chute keeps chips and dust away from the motor.

*(Right)* **Exclusive Rockwell 24-Volt Safety Control System:** Only Rockwell 8" Jointers offer a low 24 volts at the push button control station for extra operator safety. Magnetic control system provides on-off control, low-voltage, no-voltage (when power is interrupted, machine can be started only by pressing start button), and motor overload protection. On three phase systems, overload protection is provided on all three legs. Shrouded green "start" button prevents accidental starts while protruding red "stop" button is extra large for quick, emergency stops. Switch cover and buttons are made of non-conductive material for added safety.

# ROCKWELL 8" LONG-BED JOINTER



**No. 37-315  
8" Long-Bed  
Jointer Shown With  
Accessory 50-370 Enclosed Steel  
Stand and Electricals.**

**No. 37-315  
Basic Machine  
and all  
electrical kits,  
are**



**Certified  
in Canada.**

## MACHINE DATA

### Cutting Capacity:

Width ..... 8 1/16" (204.7 mm)  
Depth ..... 1/2" (12.7 mm)

**Rabbeting Capacity** ..... 1/2 x 8 1/16" (12.7 x 204.7 mm)

**Cutting Circle** ..... 3" (76.2 mm) Diameter

### Cutterhead:

Speed ..... 5175 RPM, 15,525 Cuts Per Minute  
Number of Knives ..... 3  
Runs in Sealed, Lubricated-For-Life Ball Bearings

### Table:

#### Surface—

Overall ..... 9" (228.6 mm) Wide x 66" (1676.4 mm) Long  
Working Height ... Enclosed Steel Stand: 32 3/8" (822.3 mm)  
Ways ..... Dove-Tailed

### Fence:

Size ..... 4" (101.6 mm) High x 34" (863.6 mm) Long  
Tilts Right and Left ..... 45°  
Positive Stops ..... 90°, 45° Right and Left

### Overall Dimensions:

Height ..... On Enclosed Steel Stand: 36 1/2" (927.1 mm)  
Width ..... 24 1/2" (622.3 mm)  
Length ..... 66" (1676.4 mm)

### Shipping Weight:

Basic Machine Without Stand ..... 263 Lbs. (119.2 Kg.)

## STANDARD EQUIPMENT

**Basic Machine** includes set of 3 high-speed steel knives, two-way tilting fence, cutterhead pulley and safety cutterhead guard.

## CATALOG LISTING

**No. 37-315 Basic Machine Without Stand.** 8" Jointer with No. 37-308 set of 3 high-speed steel knives, two-way tilting fence, 2 1/4" cutterhead pulley and safety cutterhead guard. Without stand, motor pulley, V-belt, motor and switch. 263 lbs.

## ENCLOSED STEEL STAND WITH MOTOR AND CONTROLS (Factory Mounted and Wired)

NOTE: Motor Pulley and V-belt Included. Enclosed Steel Stands With Electricals Can Be Ordered Either With Or Without the Basic No. 37-315 8" Long-Bed Jointer.

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER	CAT. NO. 200V
Single Phase 1 1/2 Horsepower	Push Button Switch Only	TEFC	60-3450	230	100	49-054	
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-3450	230	103	49-055	
Three Phase 1 1/2 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-3450	230/460	114	49-066	49-067

NOTE: Single phase electricals will be supplied wired for 230 V only. All three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Motors and Motor Controls for Rockwell Delta 8" Jointers may be ordered unmounted. For listing, see Sections P and Q.

†No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to Three Phase Cat.No. 49-066, in order to obtain 8" Jointers with "JIC" type electricals, factory mounted and wired.

## QUALITY ACCESSORIES

**No. 50-370 Steel Stand**, enclosed type, 17" wide x 19 3/4" long x 23 1/2" high, complete with belt guard, chip chute and motor mounting plate. 60 lbs.

**No. 49-025 (old 520) V-Belt**, 54 1/8" OC, required for 50-370 Steel Stand. 1 lb.

**No. 41-053 Motor Pulley**, 3 1/2" diameter, 5/8" bore. 1 lb.

**No. 37-308 High-Speed Steel Cutter Knives**, set of 3 for No. 37-315 Jointer. 1/2 lb.

**No. 37-305 High-Speed Steel Cutter Knives**, set of 4 for No. 37-300 (old style) Jointer. 1/2 lb.

**No. 37-342 Cutterhead Assembly**, complete with bearings, housings and No. 37-308 set of 3 high-speed steel knives for new style 8" Jointers Serial No. EX-3690 and higher. 18 lbs.

**No. 37-810 Cutterhead Assembly**, same as 37-342 except for old style 8" Jointers. 18 lbs.

**No. 37-815 Knife Grinding and Jointing Attachment.** With guide rail and mounting parts, and positive index device. Less motor 25 lbs.

**No. 37-816 Motor**, 115 V, AC-DC, 25 to 60 hz. Includes on-and-off switch, 115 V 9 1/2-foot cord and 3-prong grounding type plug, one fine and one medium wheel and wheel dressing stone. 8 lbs.

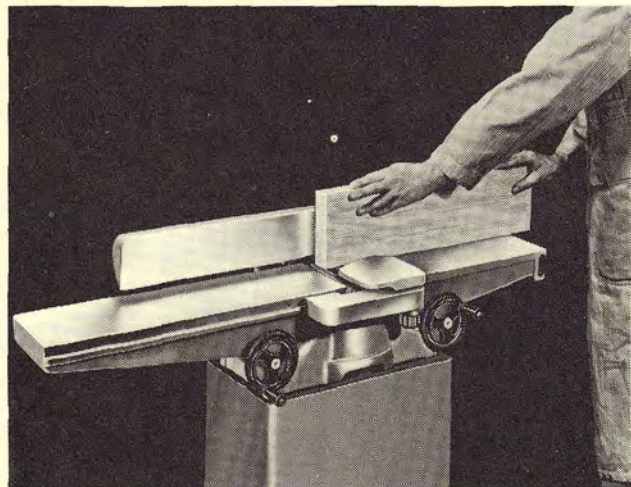


## KNIFE GRINDING ATTACHMENT

Enables operator to grind or joint knives as needed while the cutterhead remains in the jointer. Eliminates costly machine down-time.

**QUALITY FEATURES  
THAT MAKE THE 6" DELUXE JOINTER  
THE LEADER IN DESIGN, QUALITY  
AND PERFORMANCE!**

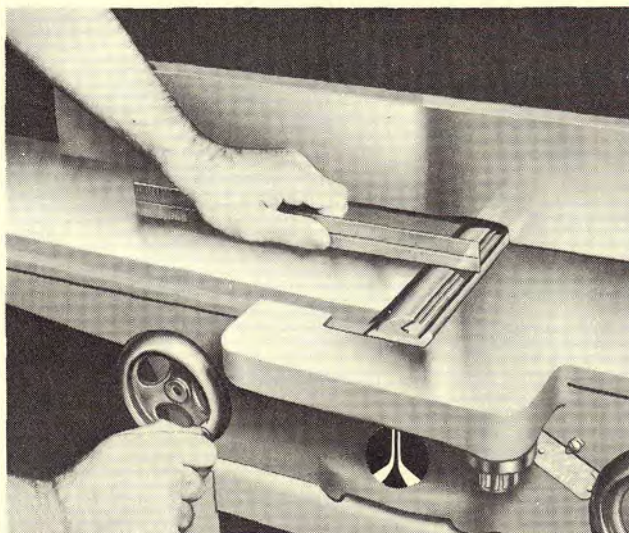
**Exclusive Rockwell 24-Volt Safety Control System**—Only Rockwell 6" Deluxe Long-Bed Jointers offer a low 24 volts at the push button control station for extra operator safety. Magnetic control system provides on-off control, low-voltage, no-voltage (when power is interrupted, machine can be started only by pressing start button), and motor overload protection. On three phase systems, overload protection is provided on all three legs. Shrouded green "start" button prevents accidental starts while protruding red "stop" button is extra large for quick, emergency stops. Switch cover and buttons are made of non-conductive material for added safety.



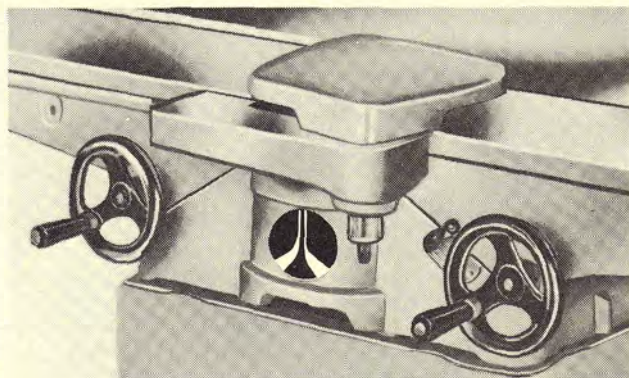
**Long Bed**—This Delta Jointer contains a long bed . . . a full 42½" . . . to insure a true cut, even on extra long boards.



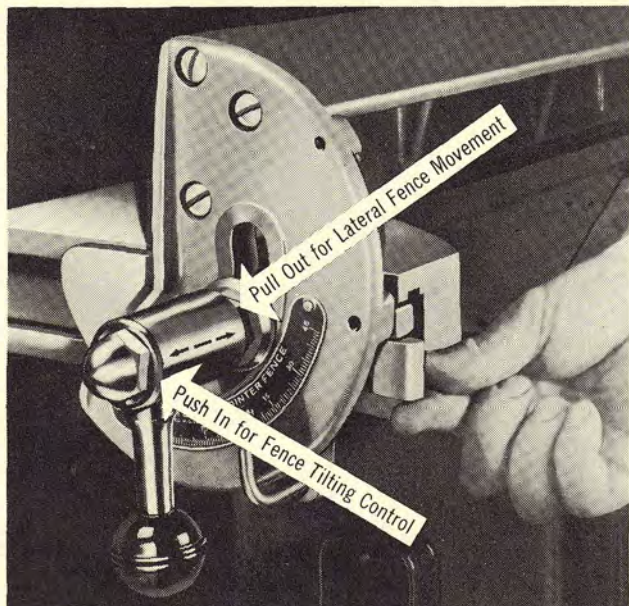
**Safety Engineered Guard**—Adjustable tension guard has torsion spring assembly which provides infinite tension adjustment. Guard is instantly removable, also can be locked. Rear Knife Guard, No. 37-807, is interchangeable with front knife guard. Gives added operator protection.



**Adjustable Outfeed Table**—The Delta 6" Deluxe Jointer has an individually controlled and fully adjustable outfeed table. It is much easier to *adjust the table to the cutterhead* with a single hand wheel than to *attempt to adjust the cutterhead to the table* with an assortment of wrenches.



**Improved Table Elevating Mechanism**—The hand-wheel control is conveniently located for rapid "glide motion" raising and lowering of both tables. Both wheels are within easy reach from the normal operating position.



**Dual Fence Control and Positive Stop**—a single control handle, on the front of the jointer, *positions the fence for both width of cut and angle of cut*. A touch of the finger engages positive stops at 90° or 45° right and left.

# ROCKWELL 6" DELUXE LONG-BED JOINTER



**6" Deluxe Jointer**  
Shown With Modern, Enclosed Steel Stand

ALSO MADE IN CANADA

## MACHINE DATA

### Overall Dimensions:

On Enclosed Steel Stand . . . . . 20<sup>1</sup>/<sub>2</sub>" (520.7 mm) Wide;  
39" (990.6 mm) High; 48" (1219.2 mm) Long

### Cutting Capacity:

Width . . . . . 6" (152.4 mm)  
Depth . . . . . 1<sup>1</sup>/<sub>2</sub>" (12.7 mm)

**Rabbeting Capacity** . . . . . 1<sup>1</sup>/<sub>2</sub> x 6" (12.7 x 152.4 mm)

### Cutterhead:

Speed . . . . . 4500 RPM, 13,500 Cuts Per Min.  
Number of Knives . . . . . 3  
Runs in Sealed, Lubricated-For-Life Ball Bearings

### Table:

Surface—  
Overall . . . 7" (177.8 mm) Wide x 42<sup>1</sup>/<sub>2</sub>" (1079.5 mm) Long  
Working Height:  
(Totally Enclosed Stand) . . . . . 34<sup>5</sup>/<sub>8</sub>" (879.48 mm)  
Ways . . . . . Dove-Tailed

### Fence:

Size . . . . . 4" (101.6 mm) High x 36<sup>3</sup>/<sub>4</sub>" (933.4 mm) Long  
Tilts Right and Left . . . . . 45°  
Positive Stops . . . . . 90°, 45° Right and Left

### Shipping Weight

(With Enclosed Steel Stand) . . . . . 200 Lbs. (90.7 Kg.)

## STANDARD EQUIPMENT

Jointers are furnished with a set of 3 high-speed steel knives, 2-way tilting fence with "dual control," cutterhead pulley and front safety knife guard.

## CATALOG LISTING

**No. 37-220 Basic Machine Without Stand.** 6" Jointer with 37-659 (old 659) set of 3 high-speed steel knives, 2-way tilting fence with "dual control," 2<sup>3</sup>/<sub>4</sub>" cutterhead pulley and front safety knife guard. Without stand, motor, switch, motor pulley or V-belt. 152 lbs.

**NOTE:** Items bearing individual catalog numbers, as included in No. 37-220, can be ordered separately; see price list.

Here's a jointer that's years ahead of anything in its class or price range!

Relatively light in weight, it can be easily moved from maintenance department to shipping department or placed in a production line. Builders, too, find it easy to transport this highly efficient jointer right to the job site where it can be quickly put to work.

The Delta 6" Long Bed Jointer is a precision-engineered tool incorporating all the advanced features that have been asked for by cabinet makers, carpenters, maintenance men, pattern makers, school shop instructors, farmers and dozens of other users. It is designed to satisfy the great demand for a high quality jointer at a relatively low cost.

### ENCLOSED STEEL STAND WITH MOTOR AND CONTROLS (Factory Mounted and Wired)

NOTE: Motor Pulley and V-belt Included. Enclosed Steel Stands With Electricals Can Be Ordered Either With or Without the Basic No. 37-220 6" Deluxe Long-Bed Jointer.

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER	CAT. NO. 200V
Single Phase, ¼ Horsepower	Push Button Switch Only	TEFC	60-1725	115/230	91	49-891	
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230	98	49-892	
Three Phase, ¾ Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	97	149-900	52-096

**NOTE:** Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only. Motors and Motor Controls for Rockwell Delta 6" Deluxe Long-Bed

Jointers may be ordered unmounted. For listing, see Sections P and Q. †No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to Three Phase Cat. No. 49-900, in order to obtain 6" Jointer with "JIC" type electricals, factory mounted and wired.

## QUALITY ACCESSORIES THAT PROVIDE GREATER EFFICIENCY AND INCREASED SAFETY

**No. 50-121 Enclosed Steel Stand.** Includes 50-127 basic stand with riser block, 50-136 motor plate and 50-133 belt guard. 55 lbs.

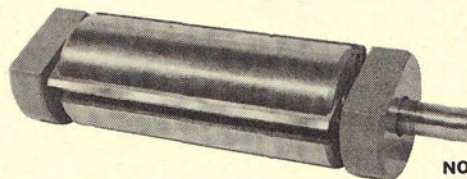
**No. 37-659 (old 659) Set of 3 high-speed steel knives.** ¾ lb.

**No. 37-522 (old 1522) Wrench, double end, 5/16"**, for cutterhead knife lock bar screws. ¼ lb.

**No. 37-815 Knife Grinding and Jointing Attachment.** With guide rail and mounting parts, positive index device, and jointing stone with adapter. Less motor. 25 lbs.

**No. 37-816 Motor, 115 V, AC-DC, 25 to 60 hz.** Includes on-and-off switch, 115 V 9½-foot cord and 3-prong grounding type plug, one fine and one medium wheel and wheel dressing stone. 8 lbs.

**No. 37-807 Rear Safety Knife Guard.** 2 lbs.



NO. 37-808

**No. 37-808 Cutterhead Assembly with 5/8" diameter shaft.** Complete with bearings, housings and 37-659 (old 659) set of 3 high-speed steel knives. Keep an extra cutterhead assembly on hand to eliminate machine downtime. 9 lbs.

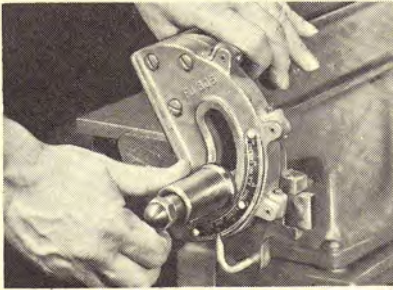
**No. 41-123 Motor Pulley, 7" diameter, 5/8" bore.** 2 lbs.

**No. 49-035 V-Belt, 55 3/8" O.C.** 1 lb.

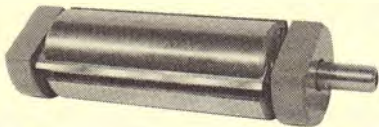
**No. 50-111 Retractable Caster Set for 50-121 Enclosed Steel Stand.** 13 lbs.

# ROCKWELL 4" DELUXE JOINTER

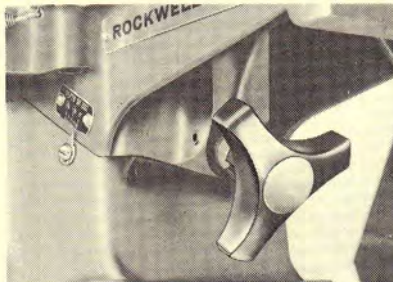
## ROCKWELL QUALITY FEATURES



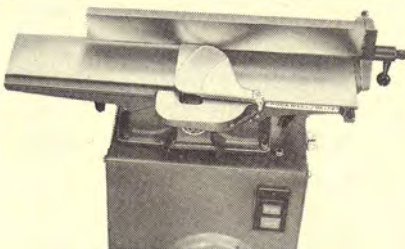
**Dual-Control Handle** simplifies fence adjustment for surfacing, chamfering or beveling... features positive stops at most used fence positions of 90° and 45°, right and left.



**Cartridge Type, Three-Knife Cutterhead** with 2" cutting circle, delivers 12,600 knife cuts per minute... features precision ground and balanced high speed steel knives... operates on lubricated-for-life ball bearings.



**Front and Rear Tables Are Independently Adjustable** for depth of cut... tables operate on gibbed dovetail ways, easily adjusted to compensate for wear... depth of cut scale is calibrated in 64ths for precise depth settings.



**Full 27 1/4" Jointer Bed** provides ample support for extra-long materials. Rigid 3 1/4 x 21 1/2 fence permits accurate beveling and chamfering.

This Rockwell 4" Deluxe Jointer surfaces stock up to 4" wide... cuts rabbets 1/4" deep and 4" wide... also tapers, chamfers and bevels without added accessories. It offers many of the precision features normally found only in larger and higher priced machines—tables are finish ground after assembly to insure perfect alignment... fully adjustable infeed and outfeed tables... single control handle to position the fence for surfacing, chamfering or beveling.

## MACHINE DATA

### Overall Dimensions:

Length .....32" (812.8 mm)  
 Width .....12" (304.8 mm)  
 Height:  
 Bench Model .....9 1/2" (241.3 mm)  
 On Stand .....35" (891 mm)

### Table:

Size 5 1/4 x 27 1/4" (133.3 x 692.1 mm) Long  
 Ways .....Dovetailed  
 Height (On Stand) .....35 1/4" (895.3 mm)

### Fence:

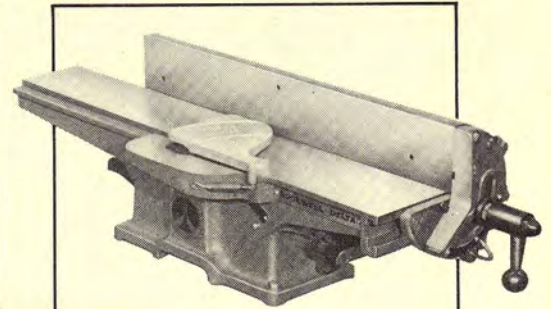
Size 3 1/4 x 21 1/2" (82.5 x 546.1 mm) Long  
 Tilt .....45° R & L  
 Positive Stops .....90°, 45° R & L

### Capacity:

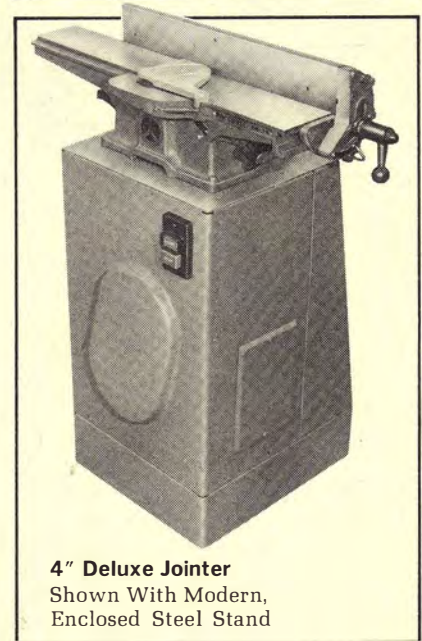
Width .....4" (101.6 mm)  
 Depth .....1/4" (6.35 mm)  
 Rabbeting .....1/4 x 4" (6.35 x 101.6 mm)

### Cutterhead:

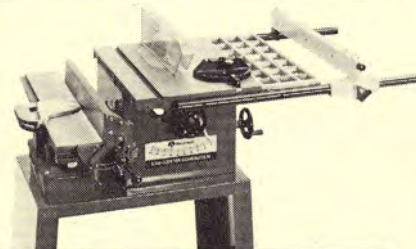
Number of Knives .....3  
 Cutting Circle .....2" (50.8 mm) Dia.  
 Speed:  
 With 3450 RPM Motor ....4200 RPM  
 Bearings:  
 Sealed Lubricated-For-Life, Ball



**No. 37-290**  
**4" Deluxe Jointer (Bench Model).**



**4" Deluxe Jointer**  
 Shown With Modern,  
 Enclosed Steel Stand



**No. 37-207**  
**9" Saw/4" Jointer Combination**

### UNIT CONSISTS OF:

- 9" Builders Saw ● 4" Deluxe Jointer ● No. 62-146 Double Shaft Motor, 1 HP, 115 V, single phase, with remote control switch ● No. 50-509 Stand for mounting saw and jointer ● No. 37-293 Jointer Raising Block ● No. 49-188 Belt and Pulley Group

## CATALOG LISTING

**No. 37-290 Basic Machine Without Stand.** 4" Jointer with 37-802 set of 3 high-speed steel knives, 2-way tilting fence with "dual control", cutterhead pulley and front safety knife guard. Without stand, motor, switch, motor pulley or V-belt. 71 lbs.

### BASIC ACCESSORIES

- No. 49-363 Retractable Casters.** 12 lbs.
- No. 37-806 Jointer Cutter Head Assembly.** Includes Bearings, Housings and No. 37-802 Set of Knives. 8 lbs.
- No. 37-802 Jointer Knives Only.** High Speed Steel, Set of Three. 1/2 lb.
- No. 49-034 V-Belt,** 44 1/8" O.C. 1 lb.
- No. 41-043 Motor Pulley,** 3" diameter, 5/8" bore. 2 lbs.
- No. 50-121 Enclosed Steel Stand.** 55 lbs.

**ENCLOSED STEEL STAND WITH MOTOR AND CONTROLS (Factory Mounted and Wired).** NOTE: Motor Pulley, V-Belt, Belt and Pulley Guard Included. Enclosed Steel Stands With Electricals Can Be Ordered Either With or Without the Basic No. 37-290 4" Deluxe Jointer.

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER
Single Phase, 1/2 Horsepower	Push Button Switch Only	TEFC	60-3450	115/230	86	49-889
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-3450	115/230	91	49-890

**NOTE:** Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Power Cord and Plug supplied. Motors and Motor

Controls for Rockwell 4" Deluxe Jointers may be ordered unmounted. For listing, see Sections P and Q.

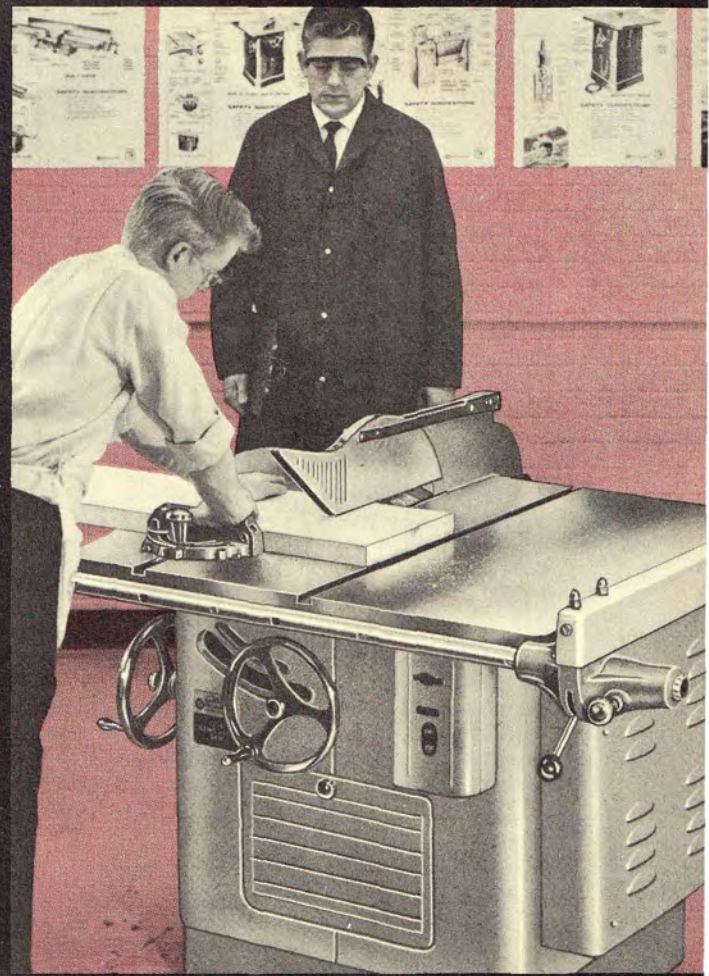
Heavy Duty Production Performer

**ROCKWELL**

# 12"-14" Tilting Arbor Saw

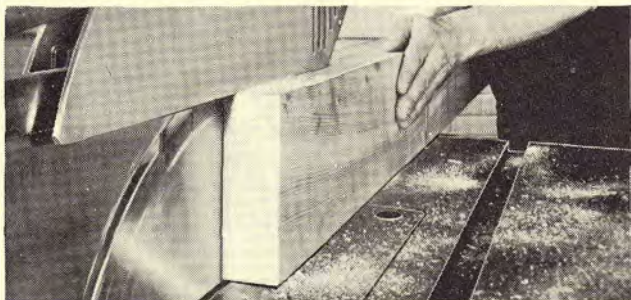
Here's a saw with all the stamina and rugged construction needed for big job performance. It has ample power to zip through stock up to 5 $\frac{1}{8}$ " thick . . . extra big capacity for ripping to the center of a 100" panel.

Advanced features like **4-Belt Drive** . . . **Unique Set-Over Guide Rails** . . . **Micro-Set, Single Control Rip Fence** . . . **"Super-Safe", Swing-Type Blade Guard** . . . Plus **Rugged Construction Throughout** make it an *unmatched value in its class!*

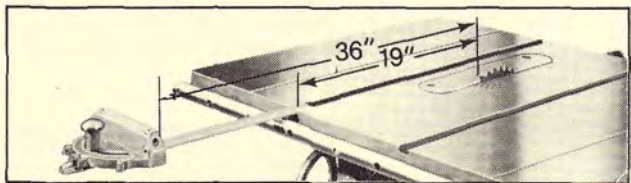


# ROCKWELL 12"-14" TILTING ARBOR SAW

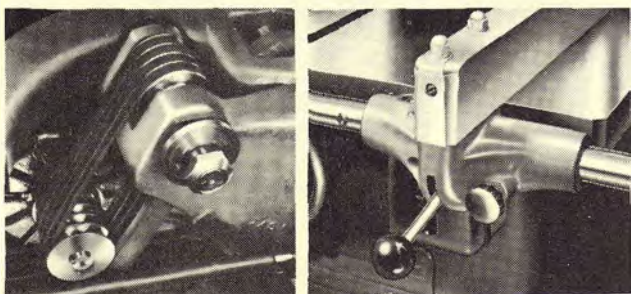
## ROCKWELL QUALITY FEATURES THAT EVERY USER WANTS!



**Extra Power with Big Capacity:** The heavy duty 5 or 7½ HP motors provide ample power to handle the toughest cutting jobs. You can cut stock up to 4¼" thick using a 12" blade, up to 5¼" thick using a 14" blade.

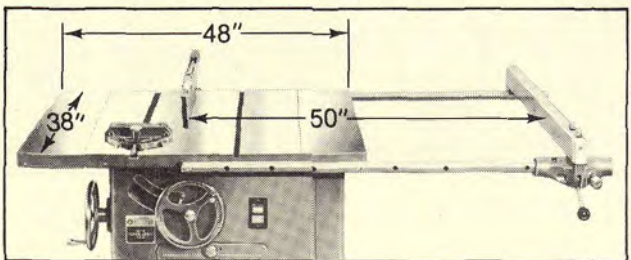


**Big Front of Blade Capacity:** The massive table on the Rockwell Delta 12"-14" Tilting Arbor Saw provides a full 19" of table in front of the blade when cutting 1" stock. With T-slot miter gage fully extended, you get a full 36" of capacity. This extra big capacity is especially valuable when cutting large panels.

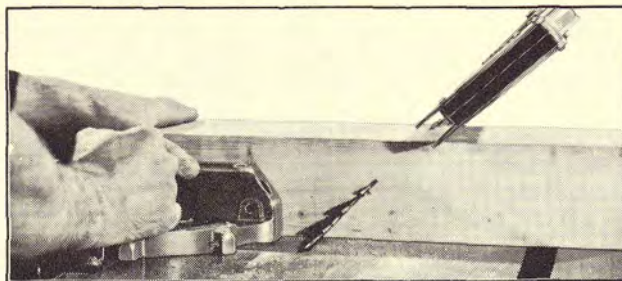


(Left) **Modern, Superior Drive:** Rockwell Delta's husky, 4-belt drive gives you constant, even power—no loss through slippage. To replace belts, simply slip them over the yoke.

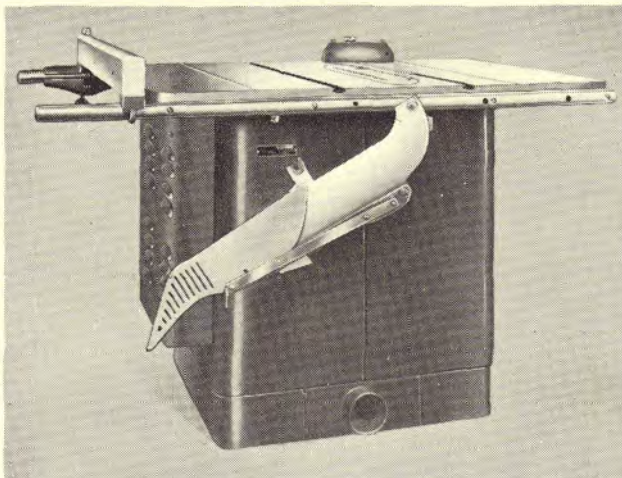
(Right)—**Superior, Two-Stage Fence Control:** Single clamp handle initially locks fence to front guide rail as fence automatically aligns itself parallel to the saw blade. At second stage, fence securely locks to rear guide rail. Micro-Set® aluminum rip fence is finish ground for utmost accuracy. When necessary, it may be easily adjusted to maintain this accuracy.



**Unique Set-Over Feature:** Illustration shows how the Rip Fence Guide Rails can be set over to increase ripping capacity to the center of a 100" panel. Only Delta includes this important feature as Standard Equipment. Table measures 3'2" x 4', ample support for extra big jobs.

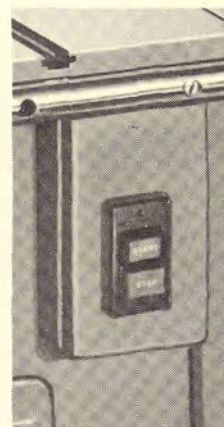


**Correct Blade Tilt:** Unlike some competitive saws, the blade on the Rockwell Delta 12"-14" Saw tilts to the right, away from the operator's hands. This assures greater safety for the operator because most people prefer to work on the left side of the blade.



**"Super-Safe," Swing Type Blade Guard:** When necessary, blade guard may be quickly swung down, out of the way for dadoing and moulding. It is never necessary to detach it from the machine.

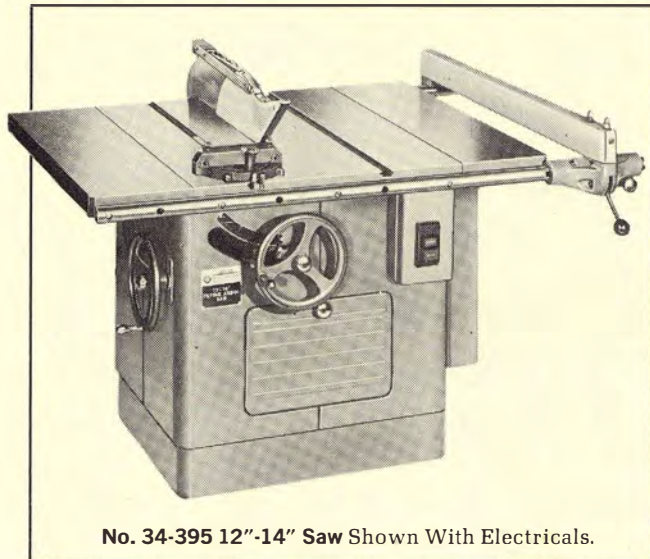
**Exclusive Rockwell 24-Volt Safety Control System**—Only Rockwell 12"-14" Tilting Arbor Saws offer a low 24 volts at the push button control station for extra operator safety. Magnetic control system provides on-off control, low-voltage, no-voltage (when power is interrupted, machine can be started only by pressing start button), and motor overload protection. On three phase systems, overload protection is provided on all three legs. Shrouded green "start" button prevents accidental starts while protruding red "stop" button is extra large for quick, emergency stops. Switch cover and buttons are made of non-conductive material for added safety.



## ROCKWELL QUALITY EXTRAS

- Massive 3'2" x 4' table is scientifically ribbed to prevent distortion, assures a true, flat surface at all times.
- Micro-Set® adjustment and easy-to-read scale permits quick, accurate positioning of rip fence.
- Auto-Set® miter gage, with adjustable index stops, has massive, heavy body. T-bar holds securely in T slots in table to give maximum accuracy.
- Sealed, lubricated-for-life ball bearings eliminate need for lubrication.
- Large, easily operated hand wheels for tilting, lowering and raising blade, have positive lock knobs.

# ROCKWELL 12"-14" TILTING ARBOR SAW



No. 34-395 12"-14" Saw Shown With Electricals.



No. 34-390 Basic Machine and all electrical kits.



Certified in Canada.

No. 34-390 12"-14" Saw Shown With Electricals.

**Cuts Stock 5 1/8" Thick . . . Rips to Center of a 100" Panel!**

Here is a saw that gives you greater capacity than most 16" machines—a full 5 1/8" depth of cut . . . a big 3 3/4" capacity at 45° blade tilt. No other saw in the same price range offers this big capacity, plus all the built-in Delta Quality Features.

That's why this Rockwell Delta 12"-14" Saw meets the "big job" requirements of users in industry . . . on large construction sites . . . in lumber yards . . . and in vocational, trade and technical schools.

## MOTORS AND CONTROLS (Factory Mounted and Wired)

NOTE: Motor Pulley and Set of Four Matched V-belts Included.

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER	CAT. NO. 200V
Single Phase 5 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60—3450	230	109	52-313	
Three Phase 5 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60—3450	230/460	130	†49-906	52-139
Three Phase 7 1/2 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60—3450	230/460	151	†49-908	52-141

NOTE: Single phase electricals will be supplied wired for 230 V only. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug not supplied. Motors and Motor Controls for Rockwell Delta 12"-14" Circular Saws may be ordered unmounted.

## MACHINE DATA

- Diameter of Arbor . . . . . 1" (25.4 mm)
- Diameter of Saw Blade . . . . . 12" or 14" (304.8 or 355.6 mm)
- Capacities:
  - Maximum Depth of Cut:
    - With 12" (304.8 mm) Blade . . . . . 4 1/8" (104.77 mm)
    - With 14" (355.6 mm) Blade (Blade is 1 3/16" (20.63 mm) Above Table When Arbor is in Lower Most Position) . . . . . 5 1/8" (130.17 mm)
  - Maximum Rip to Right of Blade . . . . . 30" (762 mm)
  - Maximum Rip to Left of Blade
    - With UNIGUARD . . . . . 25" (635 mm)
    - Maximum Rip to Right of Blade With Guide Bars in Set-Over Position . . . . . 50" (1270 mm)
  - Maximum Rip to Left of Blade . . . . . 20" (508 mm)
  - Maximum Thickness of Cut at 45°:
    - With 12" (304.8 mm) Blade . . . . . 2 7/8" (73.02 mm)
    - With 14" (355.6 mm) Blade . . . . . 3 5/8" (92.07 mm)
  - Distance, Front of Table to
    - Center of Blade . . . . . 22" (558.8 mm)
    - Table in Front of 12" (304.8 mm) Blade at Maximum Cut . . . . . 16" (406.4 mm)
  - Maximum Width of Cut-Off With 12" (304.8 mm) Blade (1" (25.4 mm) Stock) . . . . . 19" (482.6 mm)
  - Maximum Width of Dado Cut . . . . . 2" (50.8 mm)

## Table:

- Height . . . . . 34" (863.6 mm)
- Size, Including
  - Two Extensions . . . . . 38 x 48" (965.2 x 1219.2 mm)
- T-Slot Miter Gage Groove on Either Side of Saw Blade.
- Removable Table Inserts With Built-In Levelling Screws.

Cabinet Size . . . . . 26 1/2 x 30" (673.1 x 762 mm)

Rip Fence Locks Front and Back Simultaneously With Single Operating Handle at Front of Machine

## Exhaust Opening

- For Dust Collection System . . . . . 4" (101.6 mm) Diameter
- Speed With 12" (304.8) Blade and 3450 RPM Motor . . . . . 3750 RPM

## Motor Plate:

Accommodates NEMA Frame Motors 182T, 184T and 213T

Shipping Weight . . . . . 820 Lbs. (371.95 Kg.)

## STANDARD EQUIPMENT

Basic 12"-14" Tilting Arbor Saw furnished with welded steel cabinet, 38" x 48" table with two extension wings, motor mounting plate, motor cover, miter gage, rip fence, guide rails and guard for 12" or 14" diameter saw blades.

Motor pulley and set of four matched V-belts included with electrical kit.

## CATALOG LISTING

No. 34-390 Basic 12"-14" Tilting Arbor Saw with 34-937 UNIGUARD. Includes welded steel cabinet, 38" x 48" table (including two table extensions), motor mounting plate, motor cover, 34-925 miter gage, rip fence and guide rails. Without saw blade, set of 4 matched V-belts, motor pulley, motor and starter. 761 lbs.

No. 34-395 12"-14" Tilting Arbor Saw, same as 34-390, except with 34-936 Super-Safe splitter-mounted guard. 777 lbs.

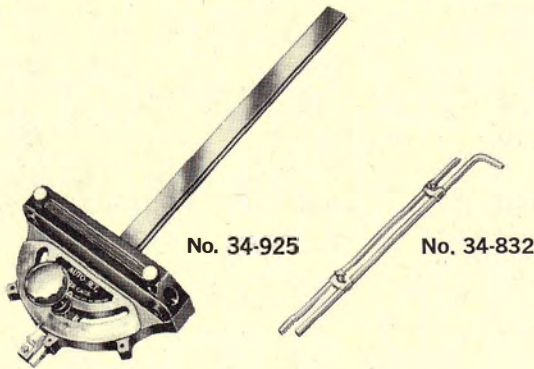
MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER	CAT. NO. 200V
Single Phase 5 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60—3450	230	109	52-313	
Three Phase 5 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60—3450	230/460	130	†49-906	52-139
Three Phase 7 1/2 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60—3450	230/460	151	†49-908	52-141

For listing, see Sections P and Q. †No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to Three Phase Cat. No. 49-906 or 49-908, in order to obtain 12"-14" Circular Saw with "JIC" type electricals, factory mounted and wired.



# ROCKWELL 12"-14" TILTING ARBOR SAW

## ROCKWELL QUALITY ACCESSORIES



No. 34-925

No. 34-832

No. 34-925 Auto-Set Miter Gage; less Stop Rods, . . . . . 13 lbs.

No. 34-832 Stop Rods for Miter Gage. 2 lbs.

No. 34-937 **UNIGUARD**, for all Rockwell Delta 12"-14" Saws. Includes table mounting bracket, support arm, two bracket arms, two guards, plastic shield, splitter assembly with anti-kickback fingers and instructions for mounting. 20 lbs.

No. 34-936 Super-Safe Saw Guard, splitter-mounted, swing type. For 12" or 14" diameter saw blades. 16 lbs.

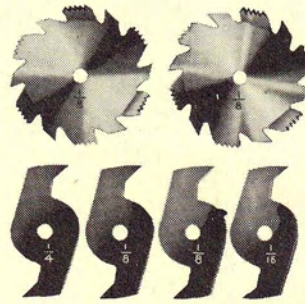
### COMPLETE SELECTION OF SAW BLADES

Catalog Number	Type of Blade	Diameter	Arbor Hole
33-197	COMBINATION SAW BLADES (Flat Ground)	12"	1"
33-179		14"	1"
33-199	RIP SAW BLADES (Flat Ground)	12"	1"
33-180		14"	1"
33-246	CROSSCUT BLADE (Flat Ground)	12"	1"
33-202	NOVELTY TOOTH COMBINATION SAW BLADES (Flat Ground)	12"	1"
33-203		14"	1"
33-228	MITRE SAW BLADES (Hollow-Ground) (4 cutting teeth) (1 raker tooth)	12"	1"
33-182		14"	1"
34-842	CARBIDE-TIPPED COMBINATION BLADE (24 Teeth With Alternate Top Bevel Grind)	*12"	1" or 1 1/8"

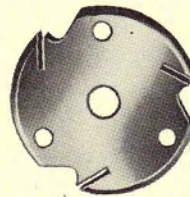
\*Contains removable bushing.

### DADO HEAD SETS

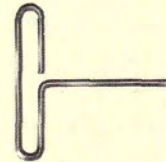
Heavy duty production type. Sets are made of high quality steel, carefully hardened and tempered. Blades and chippers are matched to assure clean, even cuts with or across the grain.



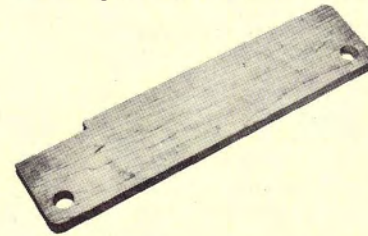
No. 33-174 No. 3 Production Type Dado Head Set. Consists of two hollow ground outer blades (10" diameter x 1/8" thick) and four inside cutters (one 1/4" thick; two 1/8" thick; one 1/16" thick). With 1" arbor hole. Cuts grooves from 1/8" to 1 3/16" wide. 10 lbs.



No. 34-941 Moulding Cutterhead, heavy duty, solid steel, 6" diameter, to fit 1" or 1 1/8" saw arbors. Without wrench or knives. 10 lbs.



No. 34-521 (old 1521) Allen Key Wrench for use with 34-941 Moulding Cutterhead. 1/8 lb.



No. 34-945 Dado Head and Moulding Cutter Table Insert for 12"-14" Tilting Arbor Saw. 2 lbs.

### ARBOR EXTENSIONS

No. 34-947 Arbor Extension, 1" diameter, with collar, to accommodate saws with 1" arbor hole. 3 lbs.

No. 34-949 Arbor Extension, 1" diameter, to accommodate 2" wide dado head, 1" bore. 4 lbs.

### V-BELTS AND MOTOR PULLEYS

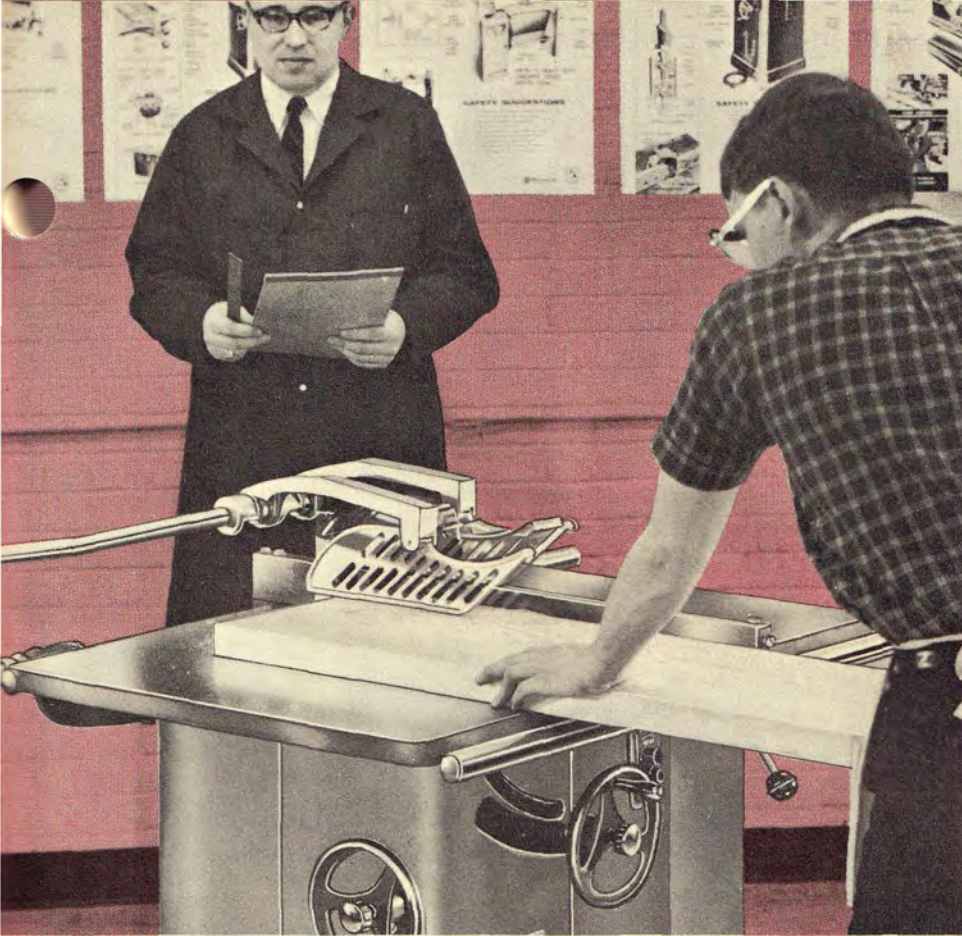
No. 49-150 Set of 4 Matched V-Belts, 28 3/8". O.C. (per set). 2 lbs.

No. 41-746 Four-Groove Motor Pulley, 1" bore, 3 1/4" diameter. 5 1/4 lbs.

No. 41-747 Four-Groove Motor Pulley, 1 1/8" bore, 3 1/4" diameter. 5 lbs.

No. 41-748 Four-Groove Motor Pulley, 1 3/8" bore, 3 1/4" diameter. 5 lbs.

For additional circular saw accessories, see Section G7.



World Famous  
**ROCKWELL**  
10" Tilting Arbor  
**UNISAW®**

An "All-Purpose" Saw  
That's Built to Satisfy  
the Needs of All Users  
on Every Job!

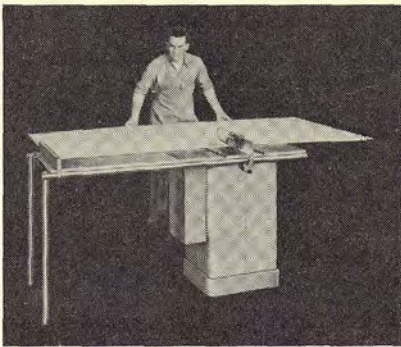
Here's a saw that has been  
**IMITATED BY MANY BUT  
NEVER EQUALLED!**

Why? Because it is specially designed and quality built, inside and out. For example, it incorporates the five Famous Delta Quality Features (lubricated-for-life ball bearings, precision bored bearing seats, preloaded bearings, a precision ground arbor and dynamically balanced pulleys) . . . a triple V-belt drive . . . the revolutionary **UNIGUARD** with exclusive, patented, retractable splitter . . . a single control, **JET-Lock**, **Micro-Set®** rip fence . . . extra long guide bars (accessory) for ripping to the center of a 100" panel . . . plus a complete line of heavy duty motors that are designed exclusively for the 10" **UNISAW**.

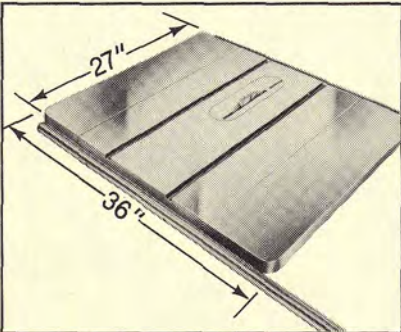
These are only a few of the many reasons (see feature section for more) why Rockwell Delta **UNISAWS** have set the "standard" in industry, year after year!



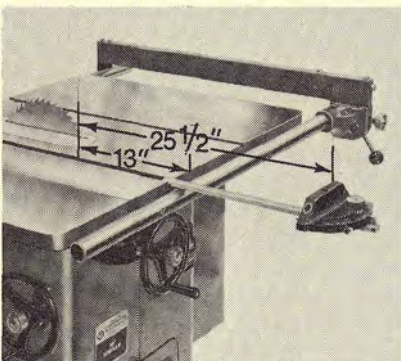
**ROCKWELL QUALITY  
FEATURES THAT MAKE THE  
UNISAW™ FIRST CHOICE  
IN 10" SAWS!**



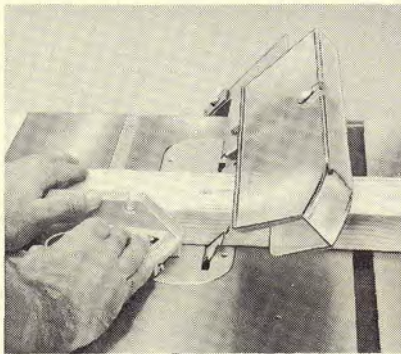
**Giant Rip Capacity.** Extra Long Guide Bars expand the rip capacity of the Delta 10" Unisaw to the center of a 100" panel. Give you the extra rip capacity usually found only on much larger and much more expensive saws. This low-cost accessory (No. 34-472) makes the Delta Unisaw the ideal machine for ripping large, bulky panels and other hard-to-handle materials. *Note: Standard guide bars furnished with machine are used as supports for Extra Long Guide Bars.*



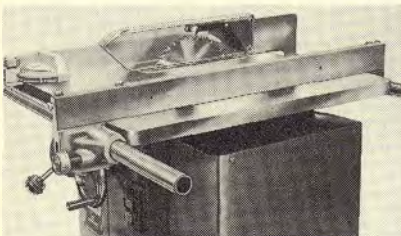
**Large, Specially Designed Table.** Big 27 x 36" cast iron table (with wings) has accurately ground face for precision work. Table and wings are scientifically ribbed to prevent warping and springing.



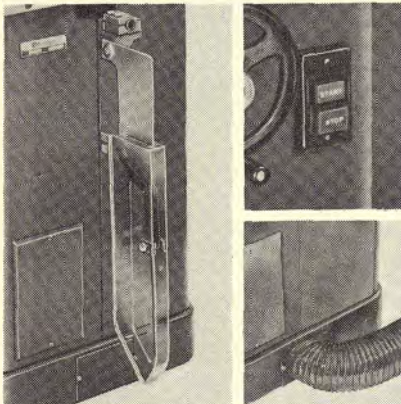
**Modern T-Slot Table.** T-slots on either side of saw blade hold miter gage securely, even beyond front of table. They provide accurate support for work up to 25 1/2" on 1" stock. Miter gage can't twist or fall out.



**Correct Blade Tilt.** Unlike some competitive saws, the blade on the Rockwell Delta 10" UNISAW® tilts to the right, away from the operator's hands. This assures greater safety for the operator because most people prefer to work on the left side of the blade.



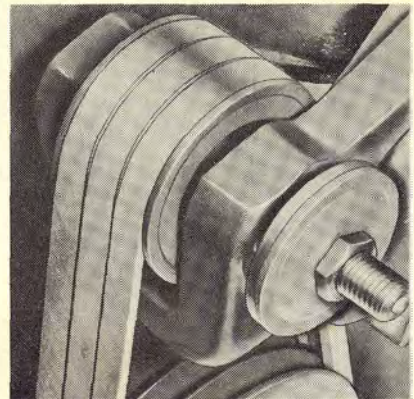
**Exclusive Jet-Lock, Micro-Set® Rip Fence.** Single control handle automatically aligns fence parallel to blade as it simultaneously locks to front guide rail, then, fence locks securely to rear guide bar. Fits old model UNISAWS and No. 1160 10" Tilting Table Saws. To order, see your Rockwell Delta Industrial Distributor.



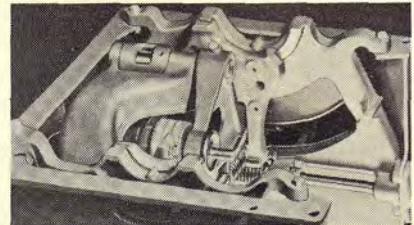
*(Left)* **Swing Type Safety Guard.** "See-Thru" blade guard quickly swings down, out of the way for dadoing and moulding operations. Never necessary to detach from machine.

*(Top Right)* **Exclusive Rockwell Safety Control Station.** Shrouded green "start" button prevents accidental starts while protruding red "stop" button is extra large for quick, emergency stops. Switch cover and buttons are made of non-conductive material for added safety.

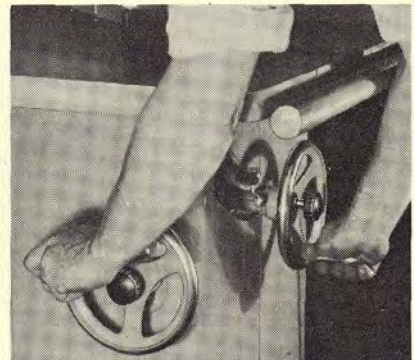
*(Bottom Right)* **Dust Collection Capability.** UNISAW cabinets contain a 3" high x 4 9/16" wide opening for connection to a central or other dust collecting facility. (Adapter and hose not provided.)



**Positive Traction, Three-Belt Drive.** Three-belt drive makes use of all power from the motor—eliminates vibration and assures smooth operation. You get no loss of power through belt slippage.



**Widely Spaced, Massive Trunnions.** The heavy trunnions that carry the saw carriage are machined from fine-grained cast iron and are completely adjustable to insure perfect alignment.



**Conveniently Placed Controls.** Hand wheels are located at convenient height and proper position for easy operation. No interference between controls. Knobs in center of wheels lock mechanism at desired settings.

## ROCKWELL QUALITY EXTRAS

- New power with specially engineered 1 1/2 or 3 HP motor, plus the power transmission efficiency of famous 3-belt drive.
- Unique, extra safe saw guard—the UNIGUARD.
- Exclusive JET-LOCK Rip Fence.
- Sealed, lubricated-for-life ball bearings.
- Graduated front guide bar.
- Preferred tubular ripping extension.
- Precision ground, stress proof arbor, flange faced after assembly.
- Large door in front of base for easy removal of saw dust.



**No. 34-466  
10" UNISAW®**

Shown With  
Accessory  
34-843  
Motor Cover  
and  
Electricals.

ALSO MADE IN CANADA



**No. 34-461  
10" UNISAW®**

Shown With  
Accessory  
34-843  
Motor Cover  
and  
Electricals.

**Rips to Center of  
a 50" Panel . . . 100" Panel  
with Long Guide Bars . . .  
Cuts Stock 3 1/8" Thick**

The Rockwell Delta 10" UNISAW is a rugged, big capacity saw at an unmatched dollar-for-dollar value. It is the most popular cabinet model saw on the market today, used in a majority of the nation's schools and in thousands of millwork, furniture, cabinet and home workshops.

The tremendous acceptance of the UNISAW results from the fact that it offers these essential advantages to every user, on the job:

**Rugged Durability.** Massive table is fully ribbed to prevent distortion—carriage swings on strong, heavy trunnions with working surfaces fully machined . . . triple V-belt drive transmits full power and reduces vibration.

**Versatility.** With the Rockwell Delta UNISAW you can do precision ripping and cross cutting, plus dadoing, moulding and tenoning, all with complete accuracy even on a production basis.

**Complete Safety.** Drive mechanism, including all belts, is completely contained in the steel cabinet. Unique UNIGUARD provides full protection for all saw operations . . . has practically no operational limitations. Patented JET-LOCK Micro-Set® rip fence automatically aligns itself as it locks to the front guide rail, then locks securely to the rear guide bar, all with one swift downward movement of the operating handle.

## MACHINE DATA

Diameter of Arbor . . . . . 5/8" (15.8 mm)  
Diameter of Saw Blade . . . 10" (254 mm)

### Capacities:

Maximum Depth  
of Cut . . . . . 3 1/8" (79.3 mm)  
Maximum Rip  
to Right of Blade . . . . . 25" (635 mm)  
Maximum Rip to Right of Blade  
With Extra Long Guide Bars  
(Accessory) . . . . . 50" (1270 mm)

Maximum Rip  
to Left of Blade . . . . 15 1/2" (393.7 mm)  
Maximum Thickness  
of Cut at 45° . . . . . 2 1/8" (53.9 mm)  
Distance, Front of Table to  
Center of Blade . . . . 16 1 3/16" (427 mm)  
Table in Front of Saw Blade at  
Maximum Cut . . . . . 12 1/4" (311.1 mm)  
Maximum Width  
of Dado . . . . . 1 3/16" (20.6 mm)

### Table:

Height . . . . . 34" (863.6 mm)  
Size . . . . . 20 x 27" (508 x 685.8 mm)  
Size With Extension  
Wings . . . . 36 x 27" (914.4 x 685.8 mm)  
T-Slot Miter Gage  
Groove . . . . 3/8 x 3/4" (9.5 x 19.05 mm)

### Overall Dimensions:

#### With Wings and

Guide Bars . . . 35 3/4" (908 mm) Deep x  
45 3/8" (1152.5 mm) Wide x  
36 3/4" (933.4 mm) High

### Rip Fence Locked Both Front and Back by Single Handle at Front of Machine

### Speed:

With 3450 RPM Motor . . . . . 4000 RPM

## STANDARD EQUIPMENT

**Basic 10" Tilting Arbor UNISAW®** furnished with blade guard, JET-LOCK rip fence, combination blade, miter gage, front graduated guide bar, rear guide bar, table insert, motor pulley with 3/4" bore and set of three matched V-belts.

## CATALOG LISTING

**No. 34-461 Basic Machine With "See-Thru" Blade Guard and Extension Wings:** Includes 10" Tilting Arbor UNISAW®, 34-545 pair of extension wings, 34-639 "See-Thru" splitter-mounted guard, JET-LOCK rip fence, 34-105 combination blade, 34-895 miter gage, front graduated guide bar, rear guide bar, 34-154 table insert, 41-644 motor pulley (3/4" bore) and 49-124 set of three matched V-belts. Without motor and switch. 375 lbs.

**No. 34-466 Basic Machine With UNIGUARD and Extension Wings:** Includes 10" Tilting Arbor UNISAW®, 34-545 pair of extension wings, 34-885 UNIGUARD, JET-LOCK rip fence, 34-105 combination blade, 34-895 miter gage, front graduated guide bar, rear guide bar, 34-154 table insert, 41-644 motor pulley (3/4" bore) and 49-124 set of three matched V-belts. Without motor and switch. 379 lbs.

## MOTORS AND CONTROLS (Factory Mounted and Wired)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER	CAT. NO. 200V
Single Phase, 1 1/2 Horsepower	Push Button Switch Only	TEFC	60—3450	115/230	60	49-812	
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60—3450	115/230	68	49-814	
Single Phase 3 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60—3450	115/230	91	49-819	
Three Phase, 3 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60—3450	230/460	81	†49-825	52-088

**NOTE:** Single phase 1 1/2 HP electricals will be supplied wired for 230 V, unless 115 V is specified. Single phase 3 HP electricals will be supplied wired for 230 V only. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied on 1 1/2 HP single phase UNISAWS only. Motors and Motor Controls for Rockwell

Delta 10" UNISAWS may be ordered unmounted. For listing, see Sections P and Q. †No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to Three Phase Cat. No. 49-825, in order to obtain 10" UNISAWS with "JIC" type electricals, factory mounted and wired.

# ROCKWELL 10" TILTING ARBOR UNISAW®

## CATALOG LISTING—Continued

**No. 34-885 UNIGUARD**, for all Rockwell Delta 10" UNISAWS®. Includes table mounting bracket, support arm, two bracket arms, two guards, plastic shield, splitter assembly with anti-kickback fingers and instructions for mounting. 15 lbs.

**No. 34-639 "See-Thru" Swing-Type, Splitter-Mounted Blade Guard** complete with spring-loaded anti-kickback fingers. 8 lbs.

## ACCESSORIES

**Saw Blades** (with  $\frac{5}{8}$ " arbor hole. Each 1½ lbs.)

NUMBER	TYPE	DIAMETER
<b>34-105</b> (old 1015)	Combination	10"
<b>34-016</b> (old 1016)	Hollow Ground	10"
<b>34-017</b> (old 1017)	Rip	10"
<b>34-018</b> (old 1018)	Cross Cut	10"
<b>34-707</b>	Plywood (200 teeth) For fine finish work.	7"

**Carbide-Tipped Combination.** Recommended for general purpose use on hard or soft woods, certain plastics, laminates. Each tooth has an alternate top bevel grind (ATB). Entire blade is hard chrome finished.

NUMBER	ARBOR	TEETH	DIAMETER
<b>34-840</b>	$\frac{5}{8}$ "	24	9"
<b>34-841</b>	$\frac{5}{8}$ "	24	10"

**No. 34-154 (old 1451) Standard Table Insert.** 1¼ lbs.

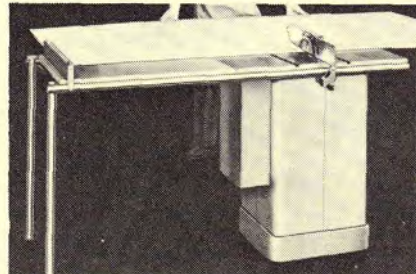


**No. 34-254 (old 1452) Dado Head Table Insert** (for 6" diameter dado heads only). 1½ lbs.

**No. 34-453 (old 1453) Moulding Cutter-Table Insert.** 1½ lbs.

**No. 34-525 (old 1525) Arbor Wrench,**  $\frac{7}{8}$ " open end and  $\frac{5}{8}$ " hex box. 1 lb.

**No. 34-545 (old 1455) Side Extension Wings** to make table 36 x 27" (per pair). 49 lbs.



**No. 34-472 Extra Long Guide Bars** that permit ripping to center of a 100" panel. 22 lbs.

**No. 34-843 Motor Cover** with mounting hardware. 13 lbs.

**No. 41-644 Motor Pulley,** 3-groove,  $\frac{3}{4}$ " bore. 4 lbs.

**No. 49-124 V-Belts,** matched set of three, 26 $\frac{1}{6}$ " O.C. 1½ lbs.

For additional saw accessories, see Section G7.

## Revolutionary UNIGUARD for all Rockwell UNISAWS®

- A Completely Safe Saw Guard
- Has Practically No Operational Limitations
- Permits Ripping to the Center of a 50" Panel

In industry, the building trades, custom and school shops, users express the same requirements of a saw guard. It must provide full protection for all saw operations; it should be easy to use; it should be easy to remove and replace.

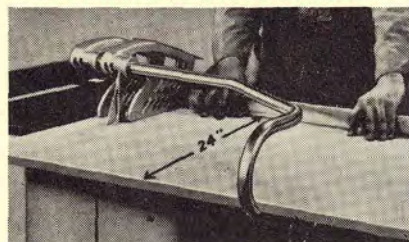
The Rockwell Delta UNIGUARD meets all of these requisites and more! Here's why:

Gives complete protection for all operations. ▪ Mounts easily without special machining. ▪ Unique, double basket with "disappearing" splitter makes even rabbeting operations safe. ▪ Splitter has anti-kickback protection feature. ▪ Fixed splitter maintains perfect alignment with saw blade at all times. ▪ "Clear-View" basket offers excellent visibility for every operation. ▪ Offers extra large capacity with maximum safety. ▪ Low in cost . . . less than half the price of comparable guards.

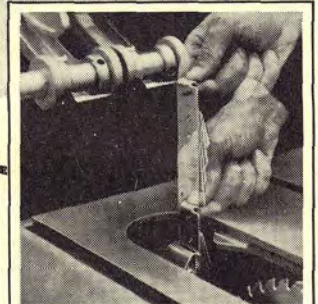
## CATALOG LISTING

**No. 34-885 UNIGUARD**, for all Rockwell Delta UNISAWS®. Includes table mounting bracket, support arm, two bracket arms, two guards, plastic shield, splitter assembly with anti-kickback fingers and instructions for mounting. 15 lbs.

PROVIDES GREATER SAFETY  
FOR THESE AND MANY OTHER JOBS!

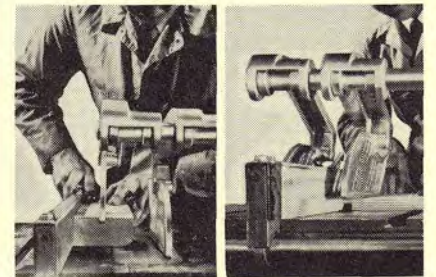


**Big Cut-Off Capacity**—Modern, operator-engi-



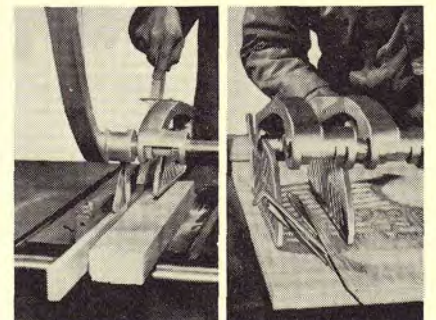
**Unique Disappearing Splitter.** For dadoing and similar operations, flip basket up, remove saw insert and depress splitter . . . a two-second operation. For ripping or cross-cutting, reverse this easy, quick operation.

neered UNIGUARD provides unusually wide cut-off capacity. With miter gauge extended to end of T-slot, operator can cut off stock up to two feet wide.



(Left) **Moulding**—UNIGUARD affords excellent operator protection for all jobs, even when the "disappearing" splitter is not required. Split basket design permits basket to raise up onto stock while other basket stays on table for maximum operator protection.

(Right) **Rabbeting**—This close-to-fence operation heretofore could not be performed with a conventional guard. The UNIGUARD's "disappearing" splitter and lateral adjustment feature make it completely safe.



(Left) **Ripping Thin Stock**—Special split basket design permits use of push stick between rip fence and adjustable plastic shield. Splitter fingers prevent kickback of stock.

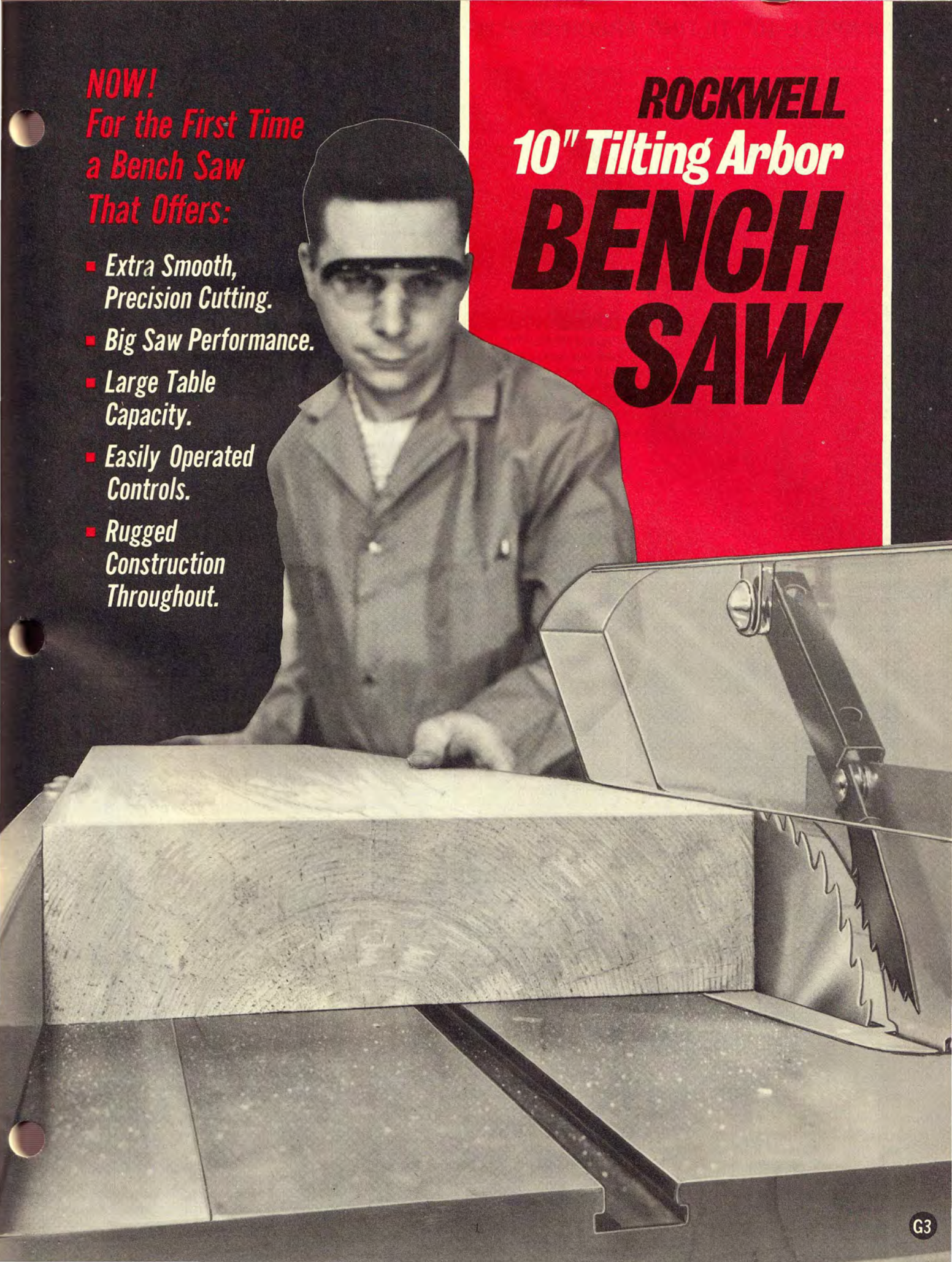
(Right) **Angle Cutting**—UNIGUARD's retractable splitter tilts with the arbor while the "CLEAR-VIEW" basket remains stationary. Provides operator increased visibility.

**NOW!**

**For the First Time  
a Bench Saw  
That Offers:**

- **Extra Smooth,  
Precision Cutting.**
- **Big Saw Performance.**
- **Large Table  
Capacity.**
- **Easily Operated  
Controls.**
- **Rugged  
Construction  
Throughout.**

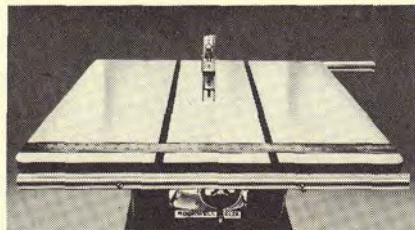
**ROCKWELL**  
**10" Tilting Arbor**  
**BENCH**  
**SAW**



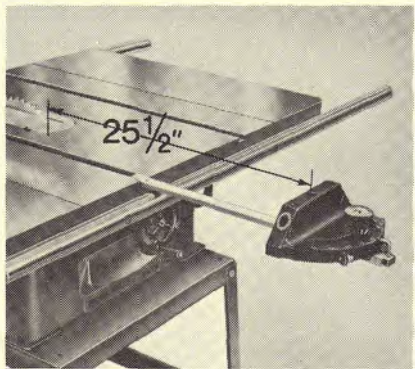
**ROCKWELL  
QUALITY FEATURES  
THAT ASSURE  
TOP QUALITY  
SAW PERFORMANCE!**



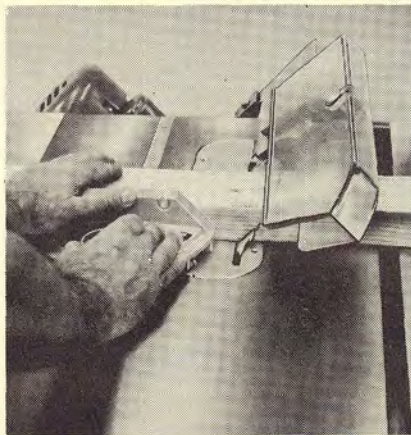
**Big Saw Capacities.** This new Delta saw offers capacities not usually found in bench saws—cuts stock  $3\frac{1}{8}$ " thick . . . rips to center of a 50" panel, 100" with Extra Long Guide Bars (accessory).



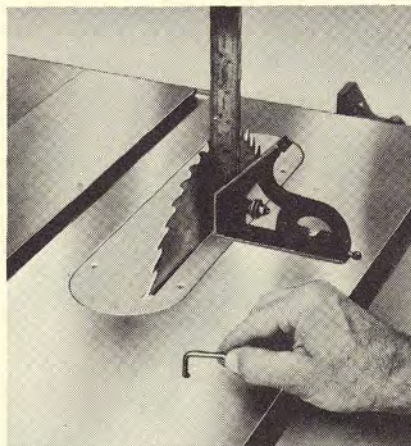
**Extra Large Table Surface.** Big 36" x 27" table (with wings) provides extra support for handling large panels. Precision ground table is scientifically ribbed to prevent warping and distortion.



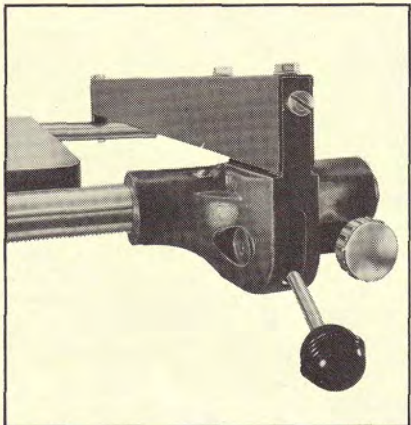
**Preferred T-Slot Table.** T-slots on either side of saw blade hold miter gage securely, even beyond front of table. They provide accurate support for work up to  $25\frac{1}{2}$ " on 1" stock. Miter gage can't twist or fall out.



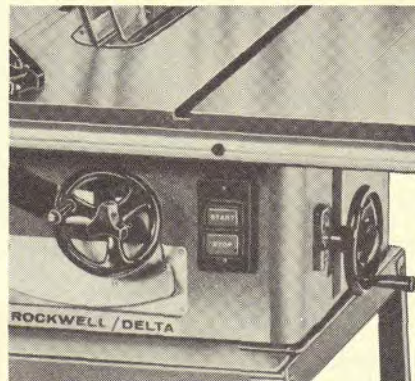
**Correct Blade Tilt.** Unlike some competitive saws, the blade on the Rockwell Delta 10" Bench Saw tilts to the right, away from the operator's hands. This assures greater safety for the operator because most people prefer to work on the left side of the blade.



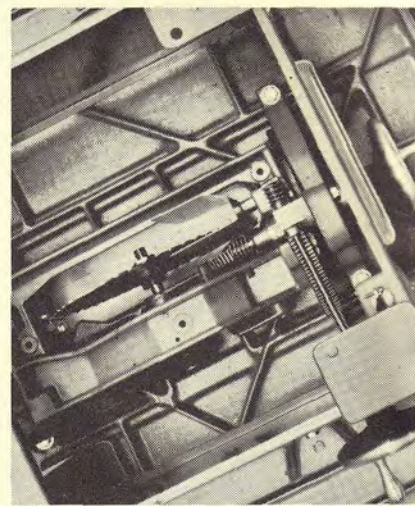
**Adjustable, Positive Stops on Table.** Saw blade stops can be adjusted for perfect 90° and 45° settings on the top of the table. Saw blade insert contains similar adjusting screws for levelling insert in place.



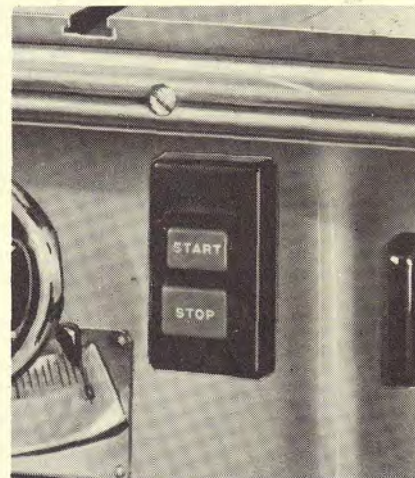
**Exclusive Jet-Lock Rip Fence.** Single control handle automatically aligns fence parallel to blade as it simultaneously locks to front guide rail, then, fence locks securely to rear guide bar. Fits old model UNISAWS and No. 1160 10" Tilting Table Saws. To order, see your Rockwell Delta Industrial Distributor.



**Conveniently Grouped Controls.** All controls are grouped "up front" for fast, safe operation. Smooth functioning rack and gear mechanism makes it easy to raise, tilt and lower saw blade while 3-spoke lock holds desired saw settings.

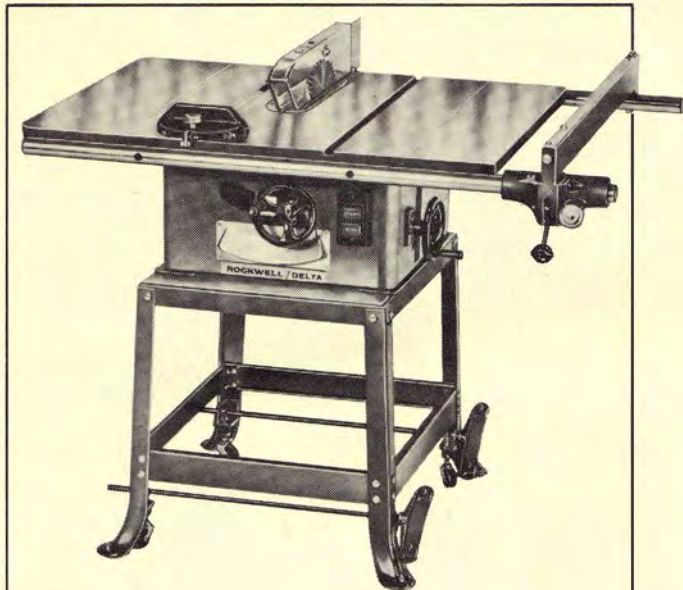


**Rugged Interior Construction.** The heavy trunnions support a large cast iron trunnion bracket which carries the arbor assembly. Note husky rack and gear mechanism that assures smooth, easy positioning of saw blade.



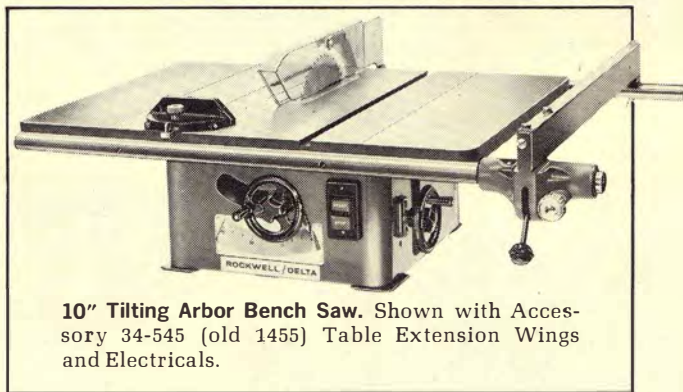
**Exclusive Rockwell Safety Control Station.** Shrouded green "start" button prevents accidental starts while protruding "red" stop button is extra large for quick, emergency stops. Switch cover and buttons are made of non-conductive material for added safety.

# ROCKWELL 10" TILTING ARBOR BENCH SAW



**10" Tilting Arbor Bench Saw.** Shown with Accessory 50-315 Steel Stand, 34-545 (old 1455) Table Extension Wings, 50-726 Retractable Casters and Electricals.

Also Made in Canada.



**10" Tilting Arbor Bench Saw.** Shown with Accessory 34-545 (old 1455) Table Extension Wings and Electricals.

Every user, from industry to the cabinet or school shop, wants a saw that will provide these important features—big capacity . . . large table surface . . . quick operating, self-aligning fence . . . conveniently grouped controls . . . plus rugged interior construction.

You get *all* these features, and more, with the Rockwell Delta 10" Tilting Arbor Bench Saw!

Let us demonstrate this new *standard* in bench saws for you today . . . prove that it's the **BIGGEST VALUE** in its class!

## STANDARD EQUIPMENT

**Basic 10" Tilting Arbor Bench Saw** furnished with splitter-mounted blade guard, JET-LOCK rip fence, combination blade, miter gage, front graduated guide bar, rear guide bar, table insert, motor pulley with  $\frac{3}{8}$ " bore and V-belt.

## MACHINE DATA

**Diameter of Arbor** . . . . .  $\frac{5}{8}$ " (15.8 mm)

**Diameter of Saw Blade** . . . . . 10" (254 mm)

### Capacities:

Maximum Depth of Cut . . . . .  $3\frac{1}{8}$ " (79.3 mm)

Maximum Rip to Right of Blade . . . . . 25" (635 mm)

Maximum Rip to Right of Blade With

Extra Long Guide Bars (Accessory) . . . . . 50" (1270 mm)

Maximum Rip to Left of Blade . . . . .  $15\frac{1}{2}$ " (393.7 mm)

Maximum Thickness of Cut at 45° . . . . .  $2\frac{1}{8}$ " (53.9 mm)

Distance, Front of Table to

Center of Blade . . . . .  $16\frac{1}{16}$ " (427 mm)

Table in Front of Saw Blade at

Maximum Cut . . . . .  $12\frac{1}{4}$ " (311.1 mm)

Maximum Width of Dado . . . . .  $1\frac{3}{16}$ " (20.6 mm)

### Table:

Height (Bench Model) . . . . .  $12\frac{1}{4}$ " (311.1 mm)

(On Steel Stand) . . . . .  $13\frac{1}{2}$ " (850.9 mm)

Size . . . . . 20" x 27" (508 x 685.8 mm)

Size With Extension Wings . . . . . 36" x 27" (914.4 x 685.8 mm)

T-Slot Miter Gage Groove . . . . .  $\frac{3}{8}$  x  $\frac{3}{4}$ " (9.5 x 19.05 mm)

### Overall Dimensions:

(With Wings and

Guide Bars) . . . . .  $30\frac{1}{4}$ " x  $45\frac{3}{8}$ " (768.3 x 1152.5 mm)

**Rip Fence Locked Both Front and Back by Single Operating Handle at Front of Machine**

**Speed With 3450 RPM Motor** . . . . . 4000 RPM

**Shipping Weight** . . . . . 158 Lbs. (71.6 Kg.)

## CATALOG LISTING

**No. 34-426 Basic Machine Less Extension Wings:** Includes 10" Tilting Arbor Bench Saw, splitter-mounted blade guard, JET-LOCK rip fence, 34-105 (old 1015) combination blade, 34-895 miter gage, front graduated guide bar, rear guide bar, 34-154 (old 1451) table insert, 41-203 motor pulley with  $\frac{3}{8}$ " bore and 49-145 V-belt. Without motor and switch. 158 lbs.

**NOTE: For Motors and Controls. See Sections P and Q.**

## CONVENIENT ONE-NUMBER ORDERING

(Shipped in Individual Cartons)

### FOR SINGLE PHASE OPERATION

**No. 34-429 10" Tilting Arbor Bench Saw complete.** Includes 34-426 Saw with 34-545 (1455) Pair of Side Extension Wings, 50-315 Steel Stand, 62-129  $1\frac{1}{2}$  HP Motor and 34-891 Manual Control Switch and Wiring Kit. 302 lbs.

### FOR THREE PHASE OPERATION

**No. 34-430 10" Tilting Arbor Bench Saw complete.** Includes 34-426 Saw with 34-545 (1455) Pair of Side Extension Wings, 50-315 Steel Stand, 66-041  $1\frac{1}{2}$  HP Motor, with factory mounted and wired 24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection. 346 lbs.

## ROCKWELL QUALITY ACCESSORIES

**No. 34-154 (old 1451) Standard Table Insert** . . . . .  $1\frac{3}{4}$  lbs.

**No. 34-254 (old 1452)**

**Dado Head Table Insert**

(for 6" diameter dado heads only) . . . . .  $1\frac{1}{2}$  lbs.

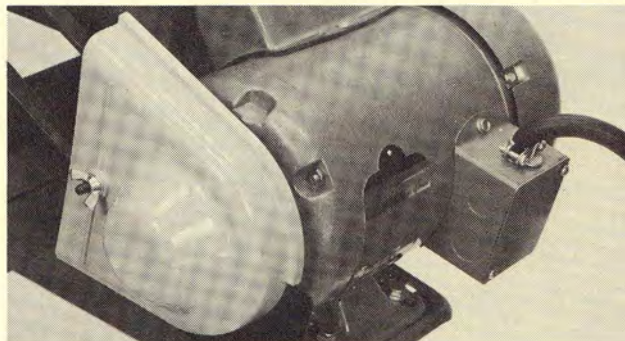


**No. 34-453 (old 1453) Moulding Cutterhead Table Insert** . . . . .  $1\frac{1}{2}$  lbs.

**No. 34-545 (old 1455) Side Extension Wings** to make table 36" x 27" (per pair) . . . . . 49 lbs.

**No. 34-472 Extra Long Guide Bars** that permit ripping to center of a 100" panel . . . . . 22 lbs.

**No. 34-895 Auto-Set® Miter Gage.** For straight and angle operations. Accommodates No. 34-568 (old 865) Clamp Attachment.  $3\frac{1}{2}$  lbs.



**No. 34-965 Belt Guard.** Encloses entire V-belt and motor pulley, preventing small pieces of stock from striking and damaging the belt or pulley during operation . . . 4 lbs.

**No. 49-364 Retractable Caster Set.** . . . . . 13 lbs.

**No. 50-315 Steel Stand,** 24" high with 20 x 22 $\frac{1}{2}$ " top. . . 47 lbs.

For additional accessories, see Section G7.

# Rockwell 10" Contractors' Saw

## ROCKWELL QUALITY FEATURES

- A. **Big Capacities.** The Rockwell Contractors' Special offers big saw capacities—cuts stock  $3\frac{1}{2}$ " thick... rips to center of a 50" panel, 100" with Extra Long Guide Bars (accessory).
- B. **Large Table Surface.** Contractors like the big 40" x 27" table because it provides ample support for handling large panels. Precision ground table is scientifically ribbed to prevent warping and distortion.
- C. **Correct Blade Tilt.** Unlike some competitive saws, the blade on the Rockwell 10" Contractors' Saw tilts to the *right*, away from the operator's hands. This assures greater safety for the

operator because most people prefer to work on the *left* side of the blade.

D. **Rigid Splitter Support.** Splitter for "Clear-View" blade guard has a double mounting. This provides the rigidity required for accurate cutting performance. Guard is equipped with spring-loaded, anti-kickback fingers.

E. **Locking Type Toggle Switch.** Protected toggle switch may be locked (order Padlock No. 49-031) to prohibit unauthorized use. This is an especially important safety feature in school shops.

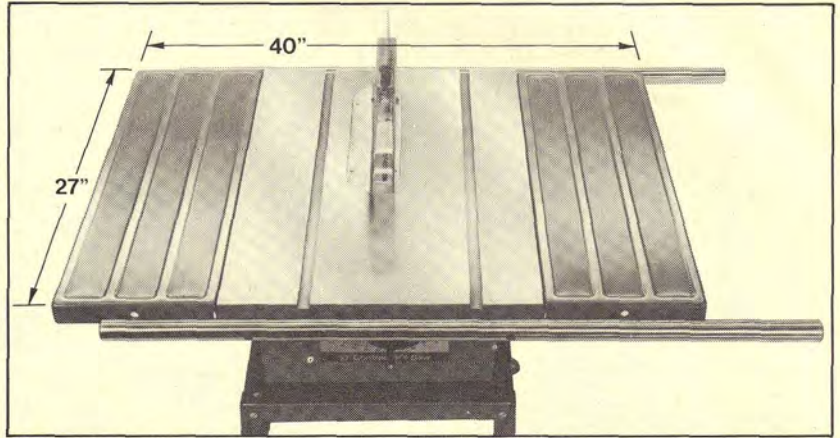
F. **Convenient Controls.** Raising and tilting controls are located up front within easy operator reach for fast, safe operation. Easy-to-read tilt scale facilitates angle settings.

G. **Exclusive Jet-Lock® Rip Fence.** Single control handle automatically aligns fence parallel to blade at it simultaneously locks to front guide rail; then, fence locks securely to rear guide bar.

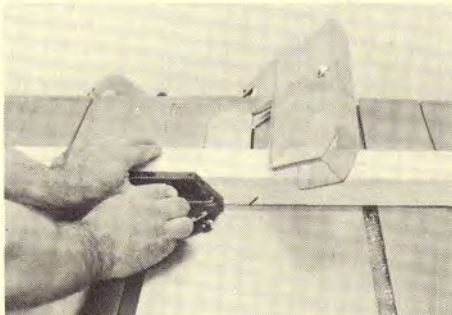
H. **Positive-action Rack and Worm Gear** blade elevating and tilting mechanism out-performs and out-wears less costly, threaded screw and nut arrangement of some competitive saws.



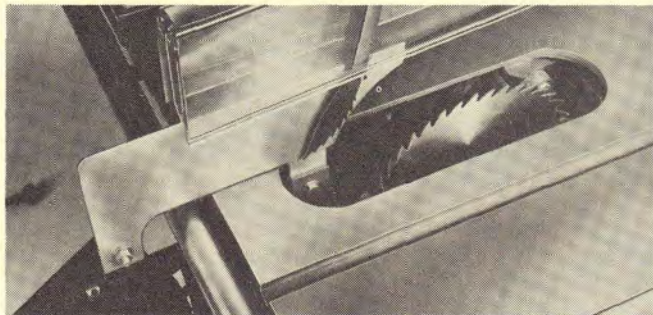
A.



B.



C.



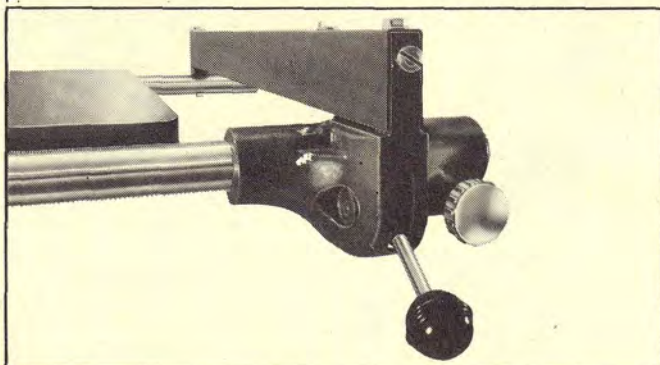
D.



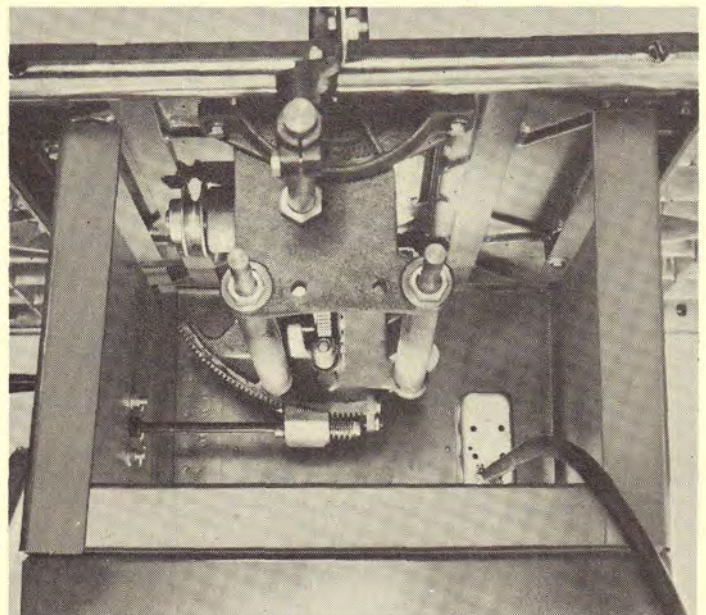
E.



F.



G4



G. H.



**No. 34-440**  
10" Contractors' Special Shown With Accessory  
50-315 Stand and Electricals.

Here's a saw that will satisfy the needs of all types of users from the building contractor to the cabinet maker to the school shop instructor. Built-in Rockwell Quality Features tell why: • Extra-large 40" x 27" table (extension wings included as Standard Equipment). • "See-thru" blade guard with splitter and anti-kickback attachment. • Rips to center of a 50" panel, 100" with Extra Long Guide Bars (accessory). • Lubricated-for-life ball bearing construction. • Up-front controls. • Jet-Lock self-aligning rip fence.

These are just a few reasons why the Rockwell 10" Contractors' Special will give you smooth cutting performance combined with extra big capacities.

Let us show you this BIG VALUE saw in action today!

## MACHINE DATA

Diameter of Arbor ..... 5/8" (34.625 mm)

Diameter of Saw Blade ..... 10" (254 mm)

### Capacities:

Maximum Depth of Cut ..... 3 1/8" (79.375 mm)

Maximum Depth of Cut at 45° ..... 2 1/8" (53.975 mm)

Maximum Rip to Right of Blade ..... 25" (635 mm)

Maximum Rip to Right of Blade with

Extra Long Guide Bars (Accessory) ..... 50" (1270 mm)

Maximum Rip to Left of Blade ..... 15 1/2" (83.7 mm)

Table in Front of Saw Blade

at Maximum Cut ..... 12 1/4" (311.15 mm)

Maximum Width of Dado ..... 1 3/16" (20.64 mm)

### Table:

Height (on Steel Stand) ..... 34 1/4" (184.95 mm)

Size with Extension Wings .... 40" x 27" (1016 x 685.8 mm)

Miter Gage Groove ..... 3/8" x 3/4" (9.525 x 19.05 mm)

### Overall Dimensions:

Width ..... 37" (939.8 mm); Depth ..... 30" (762 mm);

Height ..... 18" (457.2 mm)

**Rip Fence Locked Both Front and Back by Single Operating Handle at Front of Machine.**

Speed with 3450 RPM Motor ..... 4000 RPM

## CATALOG LISTING

**No. 34-440 10" Contractors' Special with Extension Wings.** Includes Basic Machine, See-Thru Blade Guard with Splitter and Anti-Kickback Attachment, Jet-Lock Rip Fence, Front Graduated Guide Bar, Rear Guide Bar, 34-895 Miter Gage, 10" Saw Blade, Table Insert, Arbor Pulley, 41-043 Motor Pulley (5/8" Bore), 49-034 V-belt and Two 34-862 Table Extension Wings. Less Motor and Stand. 192 lbs.

## BASIC ACCESSORIES

**No. 62-042 Motor,** 1 1/2 HP, Single Phase, Ball Bearing, Capacitor Start, 3450 RPM, 115/230 V, TEFC, with 8-foot Power Cord Set, Remote Control On-Off Toggle Switch with Locking Feature and Cord Connected to Motor. 42 lbs.

**No. 34-965 Belt and Pulley Guard.** Use with 62-042 Motor. 3 lbs.

**No. 50-315 Stand** for 10" Contractors' Saw. 28 lbs.

## ADDITIONAL ROCKWELL ACCESSORIES

For Saw Blades, See Section G2, Page 4.

**No. 34-154 Standard Table Insert.** 1 3/4 lbs.

**No. 34-254 Dado Head Table Insert** (for 6" diameter dado heads only). 1 1/2 lbs.

**No. 34-453 Moulding Cutterhead Table Insert.** 1 1/2 lbs.

**No. 34-472 Extra Long Guide Bars** that permit ripping to the center of a 100" panel. 22 lbs.



**No. 34-895 Auto-Set® Miter Gage.**

For straight and angle operations. Has 3/8" x 3/4" x 18" guide bar and pivoting work support body with pointer and calibrations reading through 120° swing. Adjustable, positive stops at 90° and 45° positions. Accommodates

No. 34-568 (old 865) Clamp Attachment. 3 1/2 lbs.

**No. 34-568 Clamp Attachment for Miter Gage.** 1 1/2 lbs.

**No. 41-043 Motor Pulley,** 5/8" bore, 3" diameter, for 3450 RPM motors. 2 lbs.

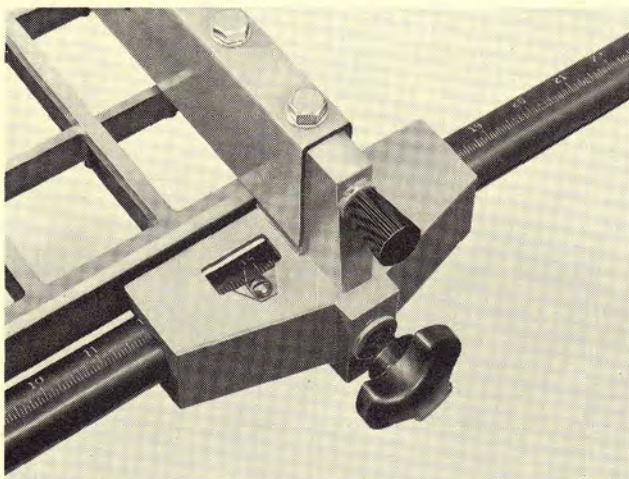
**No. 49-034 V-belt,** 44" O.C. 1/2 lb.

**No. 49-364 Retractable Caster Set.** Fits 50-315 Stand. 13 lbs.

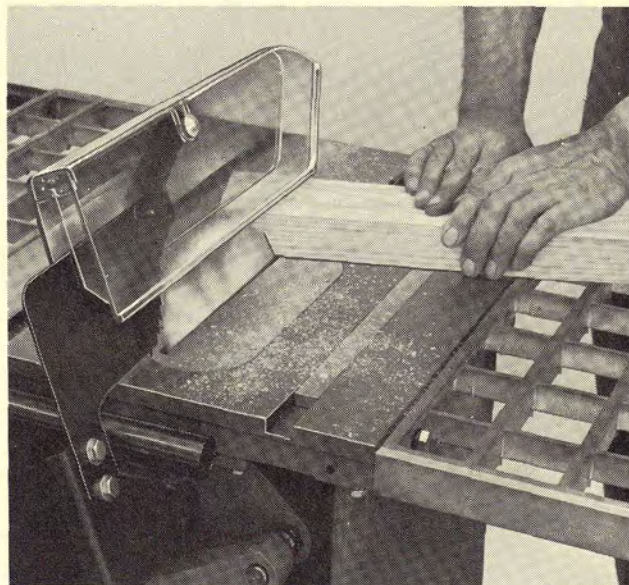


# ROCKWELL DELUXE 9" TILTING ARBOR CIRCULAR SAW

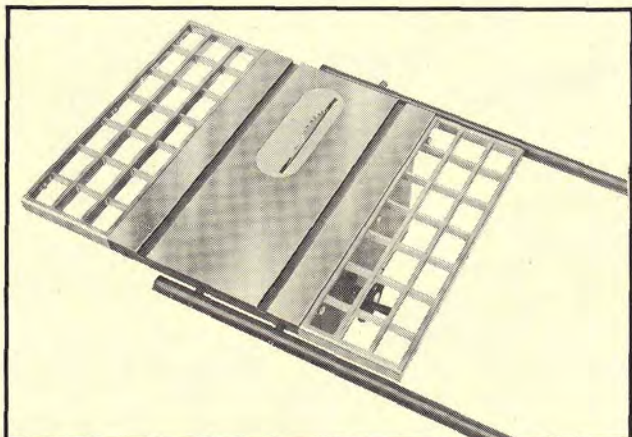
**ROCKWELL QUALITY FEATURES  
FOR UNMATCHED ACCURACY,  
SAFETY AND CONVENIENCE**



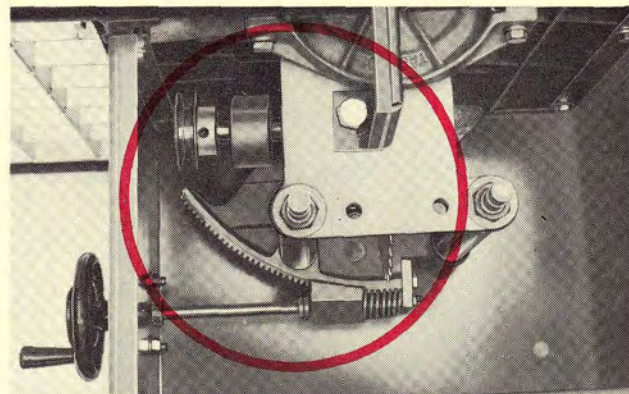
**Self-aligning rip fence**—with up-front controls, it automatically aligns itself parallel to the blade as it is locked to the guide bars.



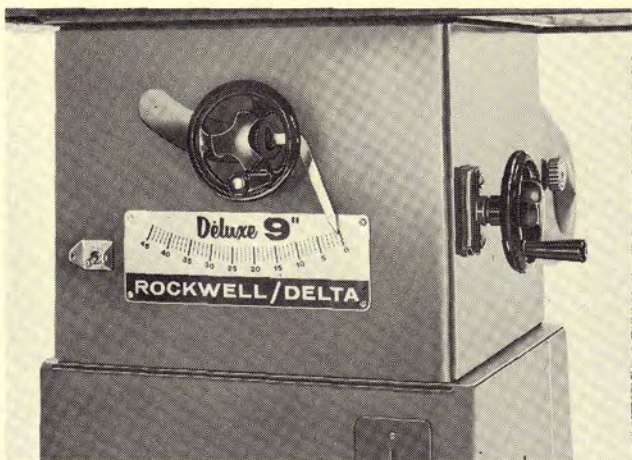
**Big 9" blade** cuts stock a full 2 $\frac{3}{4}$ " thick; angle cuts 2" at 45°. Rips to the center of a 48" panel with standard guide bars provided. Blade tilts away from operator's hand.



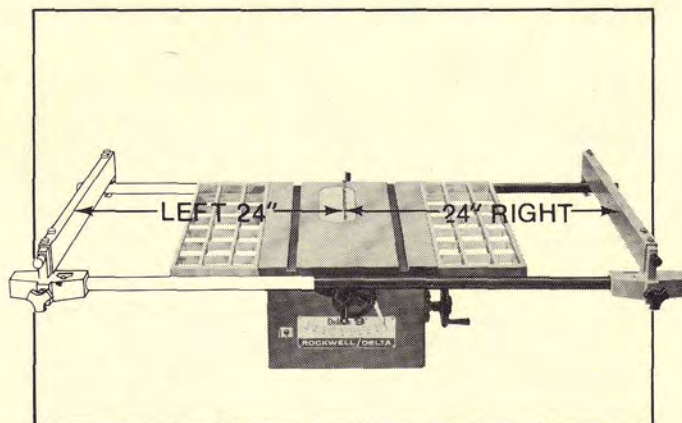
**Precision ground 22" x 15" table.** (22" x 30" with grid-type extensions), it is scientifically ribbed to prevent warping. Furnishes ample support for ripping large, bulky panels or other hard-to-handle materials.



**Positive action rack and worm gear,** blade elevating and tilting mechanism out-performs and out-wears cheap threaded screw and nut arrangements of competitive saws.



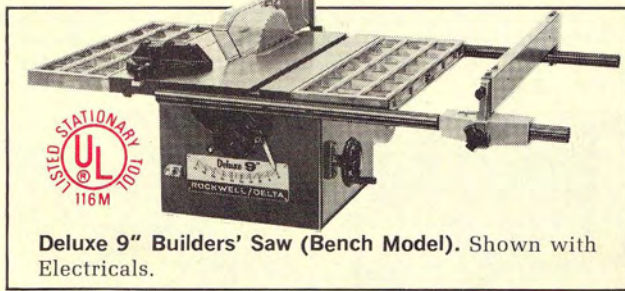
**Blade raising and tilting controls** located up-front within easy operator reach for fast, safe operation . . . easy-to-read tilt scale facilitates angle settings . . . protected on-off switch prevents accidental starts.



**Big rip capacity**—unique repositioning feature of guide bars permits ripping a full 24" to the right as well as to the left of the blade.

**Preloaded,** lubricated-for-life ball bearings with precision bored bearing seats and accurately ground arbor assure longer trouble-free operation, better all-around performance.

# ROCKWELL DELUXE 9" BUILDERS SAW



**Deluxe 9" Builders' Saw (Bench Model).** Shown with Electricals.



**Deluxe 9" Builders' Saw (Floor Model).** Shown with Accessory 50-111 Retractable Casters.

The Rockwell Deluxe 9" Builders' Saw was built with just one thought in mind—to produce a machine that would offer precision accuracy, big capacity, maximum convenience and more built-in value than any similar saw on the market today—all at exceeding low cost!

You will agree when you check its many fine features such as 2 3/4" depth of cut... large 22" by 30" table (with extension wings)... handy up-front fence and blade controls... precision bored bearing seats... sealed, lubricated-for-life ball bearing construction throughout... and more.

## MACHINE DATA

Speed (With 3450 RPM Motor) ..... 3800 RPM

### Blade:

Diameter ..... 9" (228.6 mm)

Arbor ..... 5/8" (15.8 mm)

### Capacity:

Depth of Cut ..... 2 3/4" (69.8 mm)

Depth of Cut at 45° ..... 2" (50.8 mm)

Rip ..... 24" (609.6 mm) Right or Left of Blade

### Table:

Size ..... 22" x 15" (558.8 x 381 mm) Wide

Size (W/Grid-Type

Extension Wings) ..... 22" x 30" (558.8 x 762 mm) Wide

In Front of Blade ..... 11 1/4" (285.7 mm)

Table Height on Stand ..... 34 1/2" (876.3 mm)

### Overall Dimensions:

Width ..... 37 1/2" (952.5 mm)

Height ..... 17 1/2" (444.5 mm)

Front to Back ..... 36" (914.4 mm)

## CATALOG LISTING

**No. 34-607 Deluxe 9" Builders' Saw With Extension Wings.** Includes Basic Machine with two 34-601 table extensions, 34-636 "see-thru" blade guard with splitter and anti-kickback attachment, rip fence, 34-708 combination blade, 34-895 miter gage, guide bars, table insert, arbor pulley, 41-023 motor pulley (3/8" bore), 49-152 V-belt and wrenches. 88 lbs.

**No. 34-609 Deluxe 9" Builders' Saw With Extension Wings, Stand and Motor.** Includes 34-607 plus 50-139 enclosed stand, 34-965 belt and pulley guard, and 52-493 1 HP single phase motor with 8' power cord set, remote control on-off toggle switch with locking feature and cord connected to motor. 152 lbs.

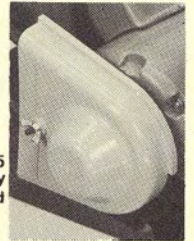
## ACCESSORY EQUIPMENT

**No. 50-139 Enclosed Steel Stand.** 23 1/2" high. 44 lbs.

**No. 50-111 Retractable Casters.** For No. 50-139 Stand. 11 lbs.

**No. 34-636 Splitter-Mounted, "See-Thru" Blade Guard** with anti-kickback fingers. 8 lbs.

**No. 34-965 Belt and Pulley Guard**



**No. 34-965 Belt and Pulley Guard.** 3 lbs.

**No. 34-601 Table Extension**, Open grid type, 22" x 7 1/2". Two extensions required to increase table size to 22" x 30". 5 lbs.

**No. 34-895 Auto-Set® Miter Gage.** 3 1/2 lbs.

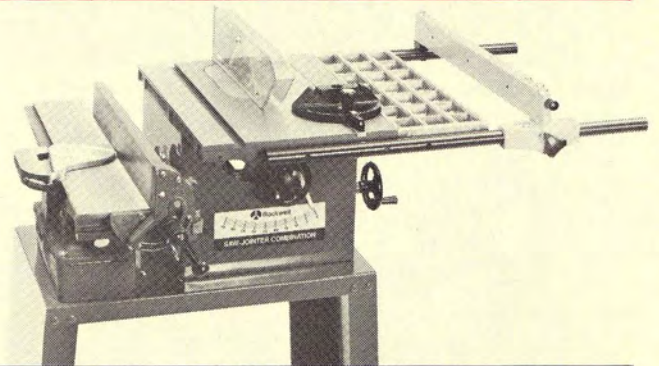
**No. 34-661 Standard Table Insert.** Included with basic machine. 2 lbs.

**No. 34-662 Moulding Cutterhead Table Insert.** 1 lb.

**No. 34-663 Dado Head Table Insert.** 1 lb.

**SAW BLADES** All with 3/8" diameter arbor hole. 1 1/2 lbs. each

No.	Type	Diam.
34-708	Combination	9"
33-198	Rip	9"
33-223	Cross Cut	9"
33-227	Hollow Ground	9"
34-707	Plywood (200 teeth)	7"
34-709	HARD TOOTH COMBINATION (Stays sharp seven times longer) (30 Teeth)	9"
34-840	Carbide-Tipped Comb. (24 teeth)	9"



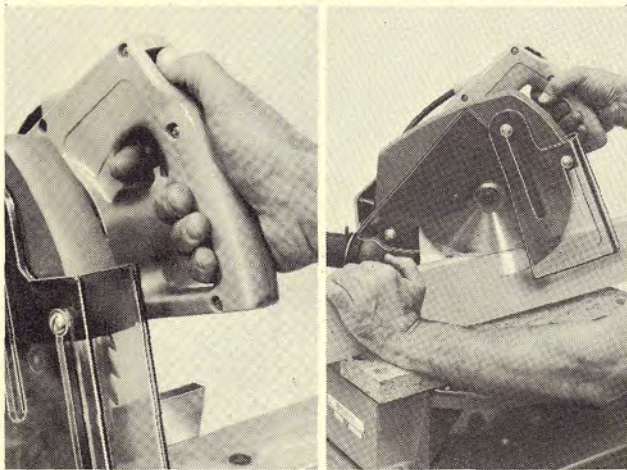
**No. 37-207  
9" Saw/4" Joints Combination**

### UNIT CONSISTS OF:

● 9" Builders Saw ● 4" Deluxe Joints ● No. 62-146 Double Shaft Motor, 1 HP, 115 V, single phase, with remote control switch ● No. 50-509 Stand for mounting saw and joints ● No. 37-293 Joints Raising Block ● No. 49-188 Belt and Pulley Group

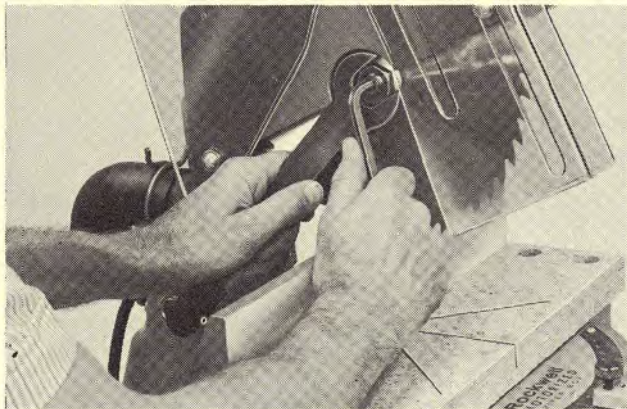
# ROCKWELL MOTORIZED MITER BOX

## ROCKWELL QUALITY FEATURES THAT GIVE YOU SAFETY, CONVENIENCE AND TOP PERFORMANCE!

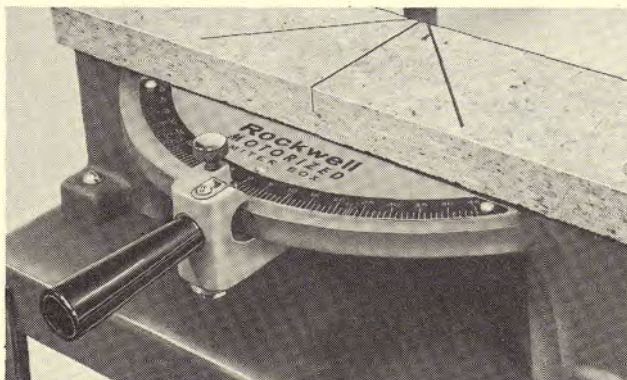


(Left) **Exclusive "SAFETYMATIC" Push Button Brake.** Used first on famous Rockwell Portable Electric Saws. Lets you stop the blade in seconds, eliminating time-consuming blade coasting while adjusting for the next cut.

(Right) **Big Capacity With Ample Power.** As illustrated, base board can be mitered, either 45° right or left, prior to coping. The heavy duty 10.5 amp motor provides extra power to cut many materials, including compositions, plastic, wood and soft, light-weight aluminum extrusions.

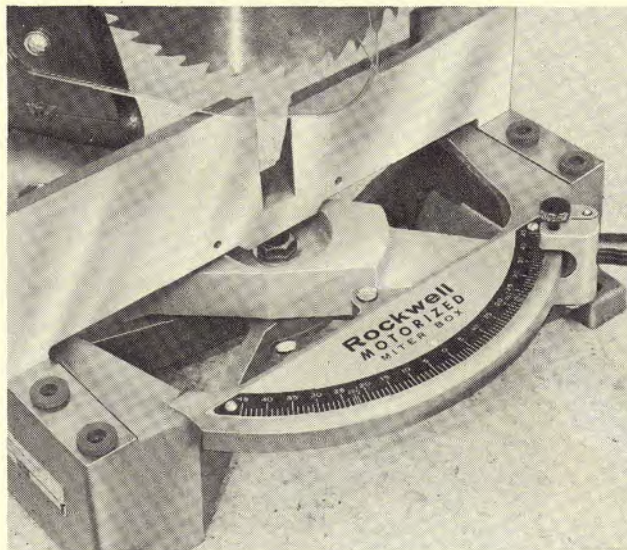


**Specially Designed Arbor.** Permits quick, easy blade removal . . . saves valuable production time.

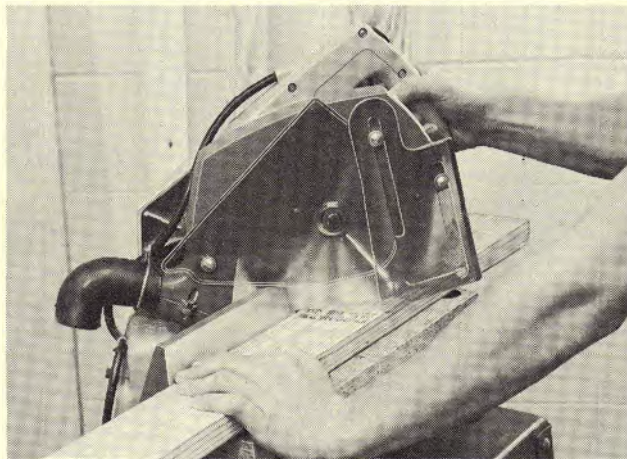


**Full 45° Miter Capacity With Positive Stops.** The table on the Rockwell Motorized Miter Box contains positive stops at 90° and 45°, right and left. You can select any of these positive

stops instantly simply by moving springloaded hand control to factory pre-drilled stop. Lock firmly holds setting at any other angle desired. Miter scale has large graduations for easy reading.



**Ruggedly Constructed Base.** Massive, ribbed base assures continuous alignment for accuracy. Resilient pads and levelling screw permit table to be accurately aligned to the fence. Base clamping ledges are designed for temporary or permanent mounting.



**"Clear-View" Retractable Blade Guard.** Lets you see the exact cut you are making. Specially designed guard provides maximum operator protection.

## ROCKWELL QUALITY EXTRAS:

**Lightweight**—only 43 lbs.—easily carried from room to room on the job.

**No Job Set-Up Required**—unit is ready to run.

**Single Hand Control** for rapid positioning *all* cuts.

**Lubricated-for-Life** ball bearing construction throughout.

**Rigid Construction** and powerful motor assure accurate, fast cutting.

Unit is **Completely Adjustable** assuring continuous, accurate cutting performance.

See the **Complete Line of Accessories** for increased versatility of the Rockwell Motorized Miter Box.

# ROCKWELL MOTORIZED MITER BOX



Rockwell Motorized Miter Box  
Shown Mounted on No. 50-508  
Steel Stand.



No. 34-010 Basic Machine

Here's the ideal saw for builders . . . contractors . . . plastic and aluminum fabricators . . . industrial arts and vocational education instructors. It's specifically designed for fast, accurate cutting. Light in weight (only 43 lbs.), it offers complete portability. Steel stand is available for stationary applications.

If you need a machine that will produce accurate miters and square cuts in compositions, plastic, wood and soft, light-weight aluminum extrusions, see this BIG PERFORMER in action today!

## MACHINE DATA

### Motor:

Amps . . . . .10.5, 115 V, Develops 1.6 HP

### Blade:

Diameter . . . . .9" (228.6 mm)  
Arbor . . . . .5/8" (15.8 mm)  
Speed . . . . .5000 RPM (Under Average Load)

### Capacity:

Cross-Cut . . . . .2 1/2 x 4" (63.5 x 101.6 mm)  
Miter, 45° . . . . .2 1/2 x 3 5/8" (63.5 x 92 mm)  
Miter, 45° R & L, on Edge . . . . .5/8 x 3 5/8" (15.8 x 92 mm)

Positive Stops . . . . .90° and 45° R & L

Table Size . . . . .4 x 17" (101.6 x 431.8 mm)

### Overall Dimensions:

Width . . . . .19" (482.6 mm); Depth . . . . .20" (508 mm)  
Height . . . . .22" (558.8 mm)

Net Weight . . . . .43 Lbs. (19.5 Kg.)

Shipping Weight . . . . .63 Lbs. (28.5 Kg.)

Motors—Universal Type, 115 Volt, 25-60 Hertz, AC-DC.

## STANDARD EQUIPMENT

Basic Machine includes 34-708 combination saw blade, retractable blade guard, 90° elbow, cord and 3-prong grounding type plug, and arbor wrenches.

## CATALOG LISTING

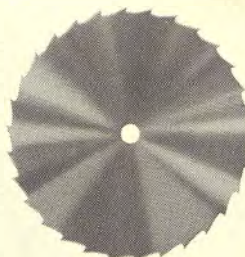
**No. 34-010 Basic Machine Without Stand.** Motorized Miter Box with 9" blade, "clear-view" retractable blade guard, 90° elbow, motor with 7-foot 3-conductor cord with 115 V grounding type plug, and arbor wrenches. 63 lbs.

## ROCKWELL QUALITY ACCESSORIES FOR INCREASED JOB PERFORMANCE!

Saw Blades (with 5/8" arbor hole. Each 1 1/2 lbs.)

Catalog Number	Type	Diameter
34-708	COMBINATION (Flat Ground)	9"
33-223	CROSS-CUT (Flat Ground)	9"
33-227	MITRE (Hollow Ground) (4 cuttingteeth—1 raker tooth)	9"

### No. 34-709 HARD TOOTH COMBINATION 9" Diameter (Stays sharp seven times longer)



(30 Teeth)

This thin-kerf blade offers fast, accurate cutting of hard woods and plastic. Use of a lubricant, together with its skip tooth design, makes it excellent for cutting lightweight aluminum extrusions and other soft, non-ferrous metals. Tapered from hub to edge, the thin-kerf design practically eliminates "climbing" and "digging in." The hardened, flame-quenched teeth can be re-sharpened.

**No. 49-083 Positive Drive Belt.** For replacement use. 1/4 lb.

**No. 49-245 Four-Wheel Caster Set** for 18 and 28-Gallon Vacuum Cleaners. 3 lbs.



No. 49-255 (CASTERS EXTRA)

**No. 49-255 All-Purpose Vacuum Cleaner,** 28-gallon capacity, complete with 6 amp, 115V motor, switch and cord; filter bag, fiber collector drum: 2 1/2" diameter x 6' hose and 3" x 6" rectangular nozzle. 24 lbs.

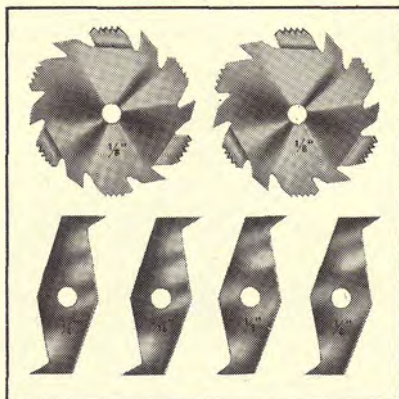
**No. 50-118 Retractable Casters** for use with 50-508 Steel Stand. 12 lbs.

**No. 50-508 Stand** for Motorized Miter Box. 40 lbs.

# ROCKWELL CIRCULAR SAW ACCESSORIES

## DADO HEAD SETS

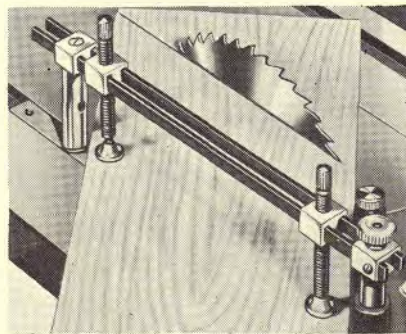
Sets are made of high quality steel, carefully hardened and tempered. Blades and chippers are matched to assure clean, even cuts with or across the grain.



**No. 34-333 Production Type Dado Head Set.** Consisting of two hollow-ground outer blades (6" dia. x  $\frac{1}{8}$ " thick) and four inside cutters (one  $\frac{1}{4}$ " thick; two  $\frac{1}{8}$ " thick; one  $\frac{1}{16}$ " thick). With  $\frac{5}{8}$ " arbor hole. Cuts grooves from  $\frac{1}{8}$ " to  $1\frac{3}{16}$ " wide. 3 $\frac{1}{2}$  lbs.

**No. 33-212 Production Type Dado Head Set.** Consisting of two hollow ground outer blades (8" diameter by  $\frac{3}{8}$ " thick) and four inside cutters (one  $\frac{1}{4}$ " thick; two  $\frac{1}{8}$ " thick; one  $\frac{1}{16}$ " thick). With  $\frac{5}{8}$ " arbor hole. Cuts grooves from  $\frac{1}{8}$ " to  $1\frac{3}{16}$ " wide. 8 lbs.

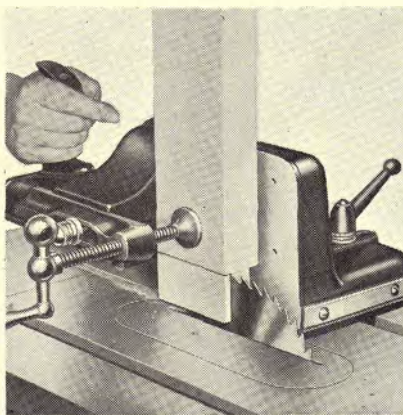
**No. 34-334 Economy Dado Head Set.** Consisting of two flat-ground outer blades (6" dia. x  $\frac{1}{4}$ " thick) and five inside cutters (four  $\frac{1}{8}$ " thick; one  $\frac{1}{16}$ " thick). With  $\frac{3}{8}$ " arbor hole. Cuts grooves from  $\frac{1}{8}$ " to  $1\frac{3}{16}$ " wide. 4 lbs.



**No. 34-568 (old 865) Clamp Attachment for Miter Gage.** Holds work securely for accurate miter and cut-off operations. Complete with clamp bar, front and rear posts and two sliding clamp screws and blocks. For use with No. 34-895 Miter Gage. 1 $\frac{1}{2}$  lbs.

**No. 34-873 (old 873) Extra Clamp Screw and Block Only.** For use with No. 34-568 clamp attachment.  $\frac{1}{2}$  lb.

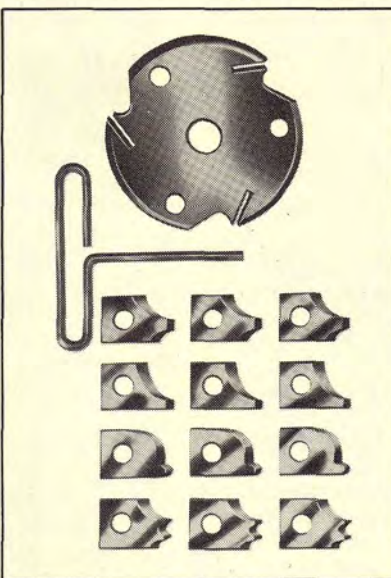
**No. 43-170 (old 1170) Tenoner** for use with No. 43-186 (old 1186) Sliding Jig. Can also be used on wood shaper. 21 lbs.



**No. 34-172 (old 1172) Tenoning Attachment.** Simplifies operation of cutting tenons for mortise and tenon joints. Stock can be fed with one hand—far removed from saw blade(s). Handles stock up to 2 $\frac{3}{4}$ " thick. Base plate included. 30 lbs.

**No. 34-171 (old 1171) Spacer Collars.** Set of two:  $\frac{1}{4}$ " and  $\frac{3}{8}$ " widths with  $\frac{5}{8}$ " arbor hole. For spacing saw blades to cut tenons in one pass. 1 lb.

## MOULDING CUTTERHEAD SETS



**No. 34-813 Heavy Duty Moulding Cutterhead & Knife Set.** Includes No. 34-562 (old 265) cutterhead, No. 34-521 (old 1521) wrench and Nos. 35-102, 35-103, 35-221 and 35-222 cutterhead knives. For use on  $\frac{1}{2}$ " and  $\frac{5}{8}$ " dia. arbors. 4 lbs.

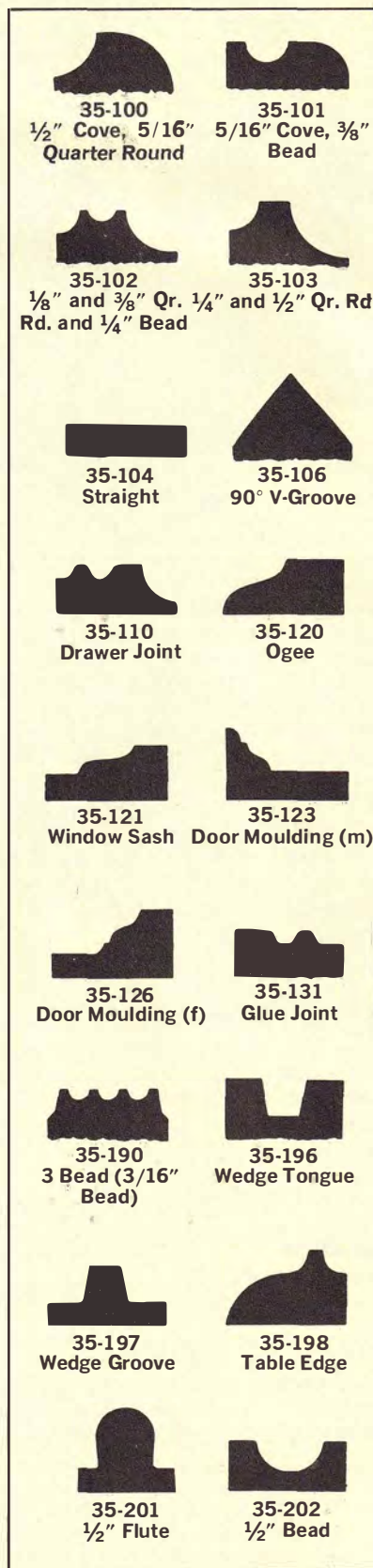
**No. 34-821 Basic Moulding Cutterhead & Knife Set.** Includes No. 34-562 (old 265) cutterhead. No. 34-521 (old 1521) wrench and No. 35-102 set of knives. For use on  $\frac{1}{2}$ " and  $\frac{5}{8}$ " dia. arbors. 3 lbs.

**No. 34-562 (old 265) Moulding Cutterhead.** Heavy Duty, Solid-Steel Type. For use on  $\frac{1}{2}$ " and  $\frac{5}{8}$ " arbors. Less wrench and knives. 3 lbs.

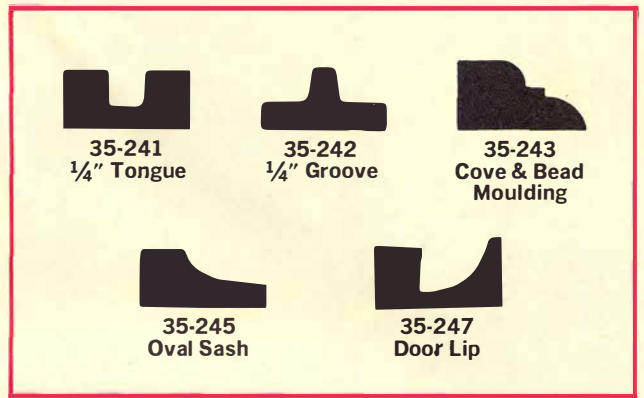
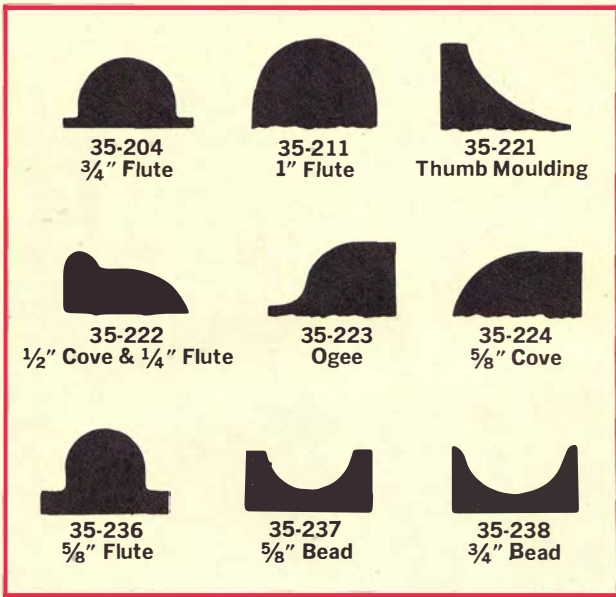
**No. 34-521 (old 1521) Wrench.** For moulding cutterhead.  $\frac{1}{8}$  lb.

With a Moulding Cutterhead and these 32 Sets of Knives You Can Cut Thousands of Different Mouldings On Your Circular Saw.

Each set consists of three knives.  $\frac{1}{4}$  lb. Knives are shown  $\frac{1}{2}$  size.

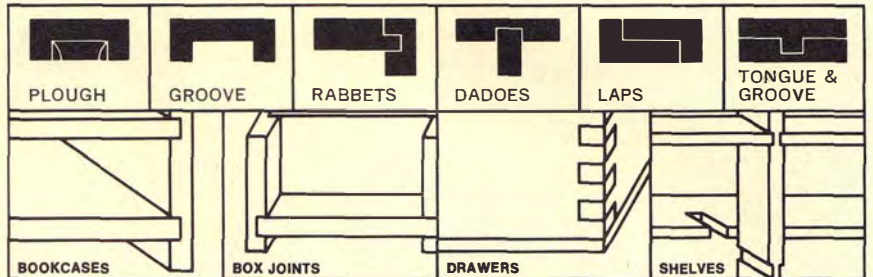
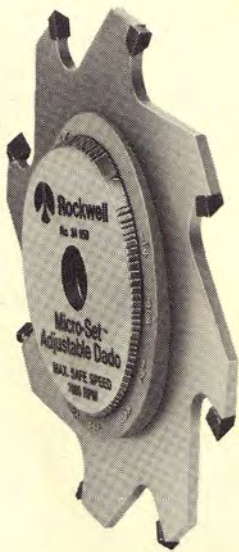


# ROCKWELL CIRCULAR SAW ACCESSORIES

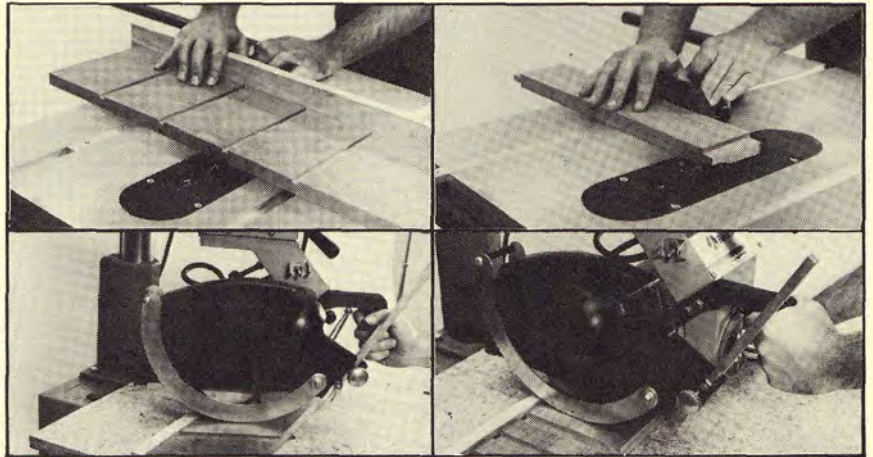


## NEW ROCKWELL MICRO-SET™ ADJUSTABLE DADO

... Carbide-Tipped  
for Longer Life



Make These Cuts and Joints and Many More  
With Your Rockwell Micro-Set™ Adjustable Dado



### Easy to use!

Just dial the width of cut you want  
and get perfect results every time!

Here's the dado that stays on the saw! No need to remove it from the saw arbor to change settings. Just turn the calibrated dial to the width of cut you want from 1/4" to 1 3/16"

wide, up to 3/4" deep. The Micro-Set dado also ploughs, rabbets, grooves and makes decorative cuts. The 6 3/8" blade is carbide tipped to cut wood or plastic laminates smoothly and truly, more times. Sturdy plastic carrying case is included.

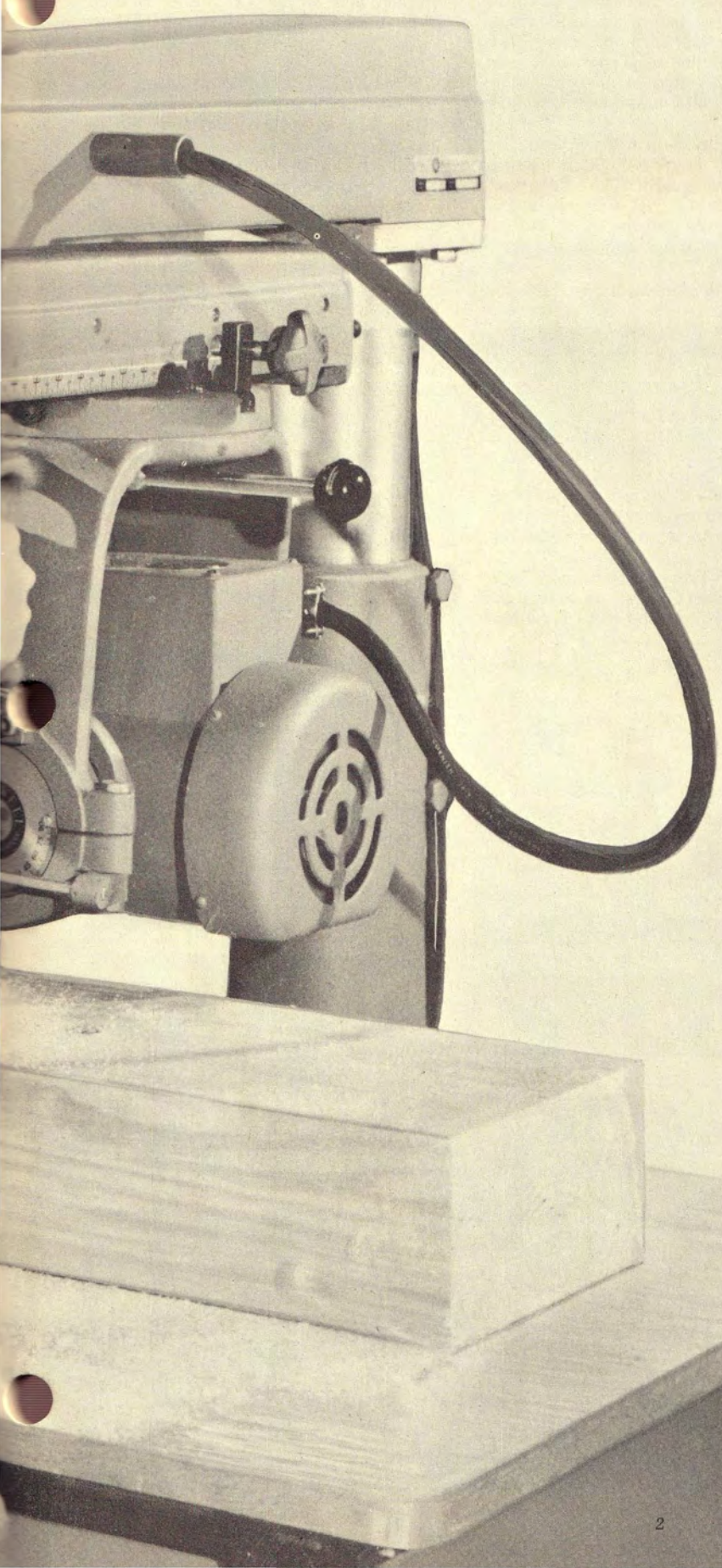
**NOTE:** Do not use on machines exceeding 7000 rpm.

### SPECIFICATIONS

Catalog No. .... 34-959  
 Width of Cut ..... 1/4" to 1 3/16"  
 (6.35 to 20.64 mm)  
 Maximum Depth of Cut 3/4" (19.05 mm)  
 No. of Teeth ..... 8  
 Fits Arbor ..... 5/8" (15.87 mm)  
 Speed ..... Not to Exceed 7000 RPM  
 Weight ..... 2 lbs. (.907 kg)

*Big Capacity Performers with Famous "Turret-Arm" Action*





# ROCKWELL RADIAL SAWS

**There's a profit-building Rockwell Radial Saw designed for every user:**

**18" MODEL**—equipped with a 5 or 7½ HP motor.

A heavy duty workhorse that's especially suited for production work.

**16" MODEL**—furnished with an extra long overarm and an extra large table that makes it ideal for large capacity jobs like fabricating roof trusses and wall panels.

**14" MODEL**—has the same fine built-in features as the 16" machine. A semi-portable model that's excellent for use on the job site or in the plant.

**12" MODEL**—designed for easy movement, this saw can be taken right to the job site, even carried through a standard doorway for on-the-spot, centralized cutting.

# Rockwell 18" Radial Saw

## ROCKWELL QUALITY FEATURES THAT GUARANTEE BIG PERFORMANCE!

**A. Famous Delta "Turret Arm" Action:** Swings 360° in any direction above the table for angle cutting. Gives full table capacity for cutting *left* as well as right-hand miters.

**B. Exclusive "Micro-Set" Miter Stops:** Only Rockwell Delta gives you *individually adjustable* positive stops. When required, each setting can be quickly adjusted to assure perfect 90° and 45° cuts for the life of the saw.

**C. Exclusive Lifetime Trackways:** Rockwell Delta 18" Radial Saws feature lifetime track rods with glass-smooth, hardened surfaces that minimize roller friction. They can be easily rotated to provide a new surface, assuring precision cutting accuracy for the life of the machine.

**D. Handy, "Up-Front" Operating Controls:** Every control, lever and scale is within easy reach for safe-sure operation. Positive stops at most-used positions and accurately calibrated scales for in-between settings eliminate guesswork and make it easy to set up operation.

**E. Giant Capacity With Extra Power:** You can cut stock up to 7½" thick using a 20" blade and guard. The "low-rise" motor, in 5 or 7½ HP, delivers ample power to handle the toughest cutting jobs. (Note: Leaf guard removed to aid in photo clarity.)

**F. Big Left-Hand Miter Capacity:** Rockwell Delta's famous "turret-arm" action lets you cut in any direction *above* the table. Here, for example, the operator makes a long 45° left-hand miter cut on a large composition panel.

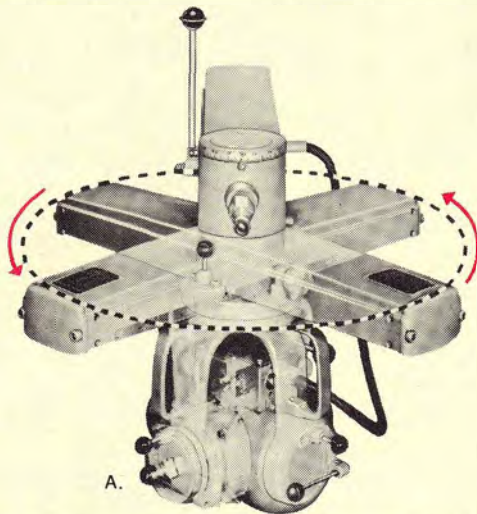
**G. Safe Blade Guard Design:** Unlike many competitive models, the blade guard on the Rockwell Delta 18" Radial Saw covers the entire saw arbor. Although Delta includes this safety feature as Standard Equipment, many competitive models offer it only as an accessory at additional cost.

**H. "Up-Front" Fence Knobs:** Large, convenient knobs enable you to adjust and lock the fence from the front for added

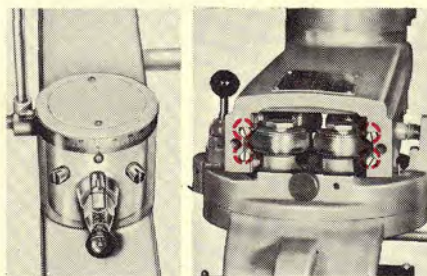
safety. This important feature saves you time, especially when cutting varying widths of stock.

**I. Positive Table Leveling Jacks . . . Massive Frame Construction:** Six easy-to-adjust leveling jacks assure sustained table accuracy. The extra deep channel, unitized base, which is rigidly reinforced by the cast iron center piece, guarantees continuous alignment of the entire machine.

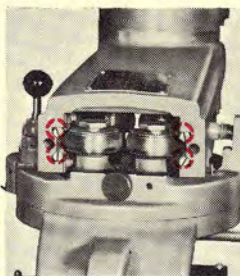
**J. Exclusive Rockwell 24-Volt Safety Control System:** Only Rockwell Radial Saws offer a low 24 volts at the push button control station for extra operator safety. Magnetic control system provides on-off control, low-voltage, no-voltage (when power is interrupted, machine can be started only by pressing start button), and motor overload protection. On three phase systems, overload protection is provided on all three legs. Shrouded green "start" button prevents accidental starts while protruding red "stop" button is extra large for quick, emergency stops. Switch cover and buttons are made of non-conductive material for added safety.



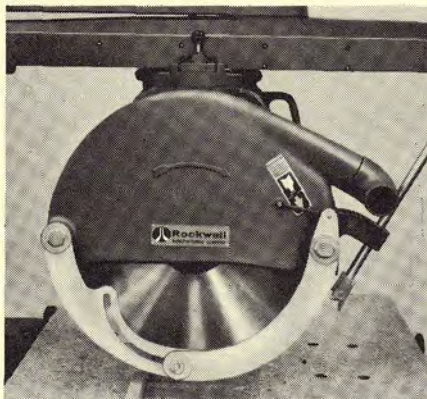
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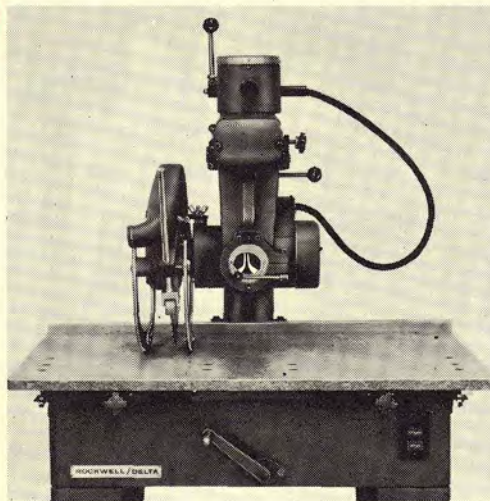
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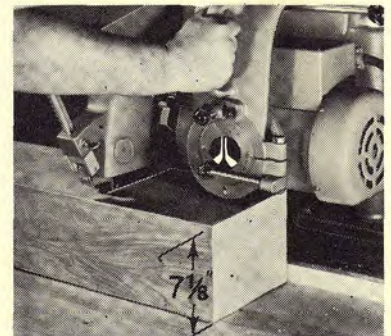
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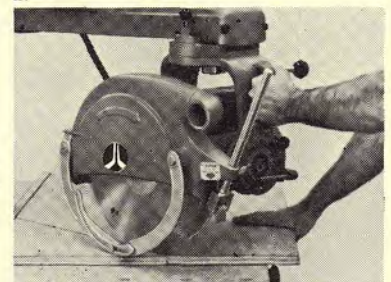
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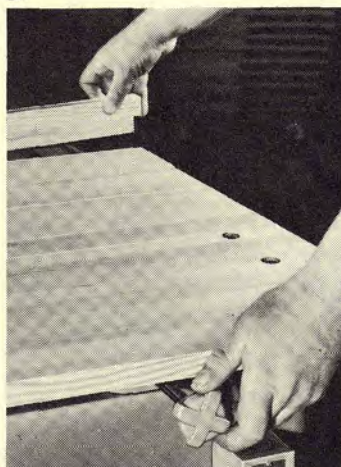
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E.



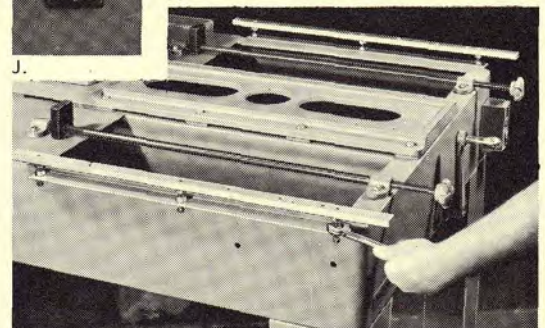
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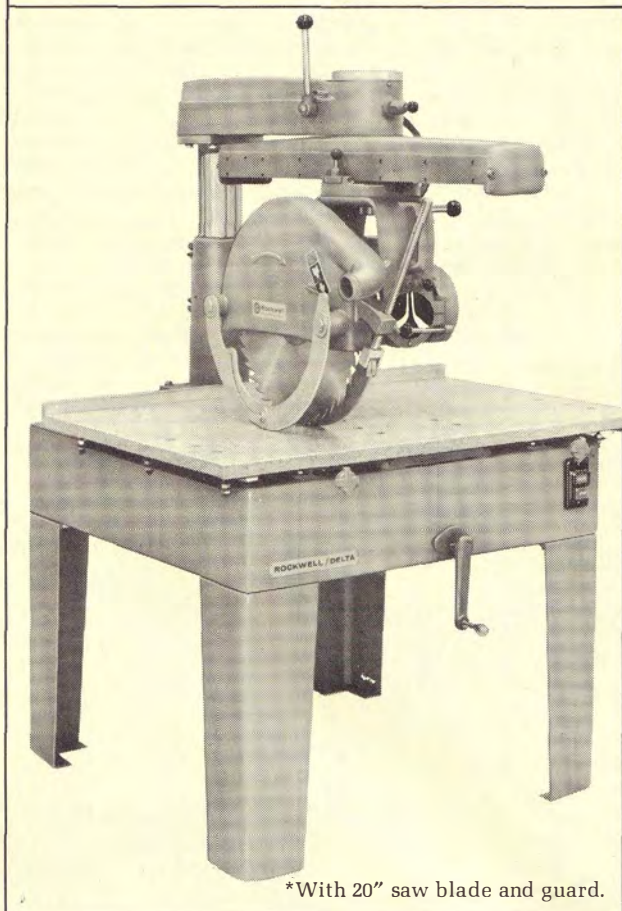
I.



J.

# ROCKWELL 18" RADIAL SAW

**Giant 7<sup>1</sup>/<sub>8</sub>" Depth of Cut!\***



\*With 20" saw blade and guard.

## NEW SAFETY FEATURES

Now! All Rockwell Delta 18" Radial Saws are supplied with a 24-volt control station for greater operator safety.

Now! All Three Phase 18" Radial Saws are equipped with 3-leg overload for greater motor protection.

Now! All 18" Models are furnished with a standard equipment retractable leaf guard for added operator safety.

Now! All 18" Radial Saws are available with an Electronic, Dynamic Brake as an optional accessory. For single phase machines, order Cat. No. 52-496; for three phase machines, order Cat. No. 52-497. See Section 15, Page 1 for field mounting.

Here's a saw with all the stamina and rugged construction features needed for heavy duty, precision cutting. A real workhorse, it has the "beef" to zip through stock up to 7<sup>1</sup>/<sub>8</sub>" thick (with 20" saw blade), cross cut 1" stock to 25" wide and rip to the center of a 77" panel.

## CATALOG LISTING

**COMPLETE 18" RADIAL SAW, with Motor and Controls Factory Mounted and Wired as Specified Below.**  
(For Electronic Brake, See New Safety Features Above.)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HZ. AND MOTOR RPM	MOTOR VOLTAGE	MACHINE CAT. NO.	MACHINE CAT. NO. 200 V
Single Phase 5 Horsepower	24 V at Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-3450	230	33-760	
Three Phase 7 <sup>1</sup> / <sub>2</sub> Horsepower	24 V at Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-3450	230/460	†33-763	33-764

**NOTE:** Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. 575 V, 5 and 7<sup>1</sup>/<sub>2</sub> HP, three phase electricals are available at the same prices as those shown for 5 and 7<sup>1</sup>/<sub>2</sub> HP, three phase saws wired for 200 V. †No. 49-000 "JIC" Type Control Kit.

Check its many features. Cam type locking device on overarm guarantees positive clamping at any setting. Built-in, precision indexing plunger enables operator to make quick, positive settings at most-used angle positions. "Micro-Set" miter stops, that are individually adjustable, assure absolutely true 90° cross cuts and 45° miter cuts for the life of the saw.

To step up production in the shop or on the job, Rockwell offers you a Chain Feed Control for steady, constant feed for heavy production work and a Safety Return Attachment to reduce operator fatigue while providing increased safety.

This heavy duty, production model will accommodate an 18" saw blade, or 20" blade with accessory 20" guard.

## MACHINE DATA

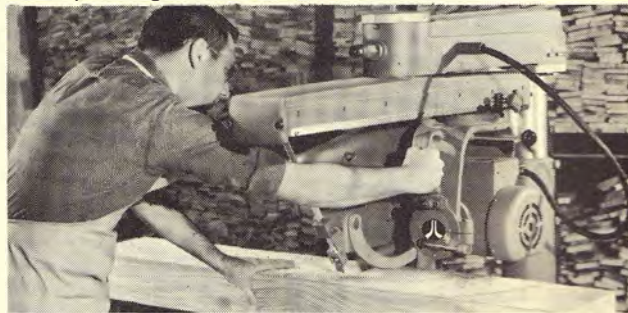
Motor Rating	..... 5 and 7 <sup>1</sup> / <sub>2</sub> HP
Crosscut Capacity—1" (25.4 mm) Stock	..... 24" (609.6 mm)
Maximum Rip Capacity	..... 38 <sup>1</sup> / <sub>2</sub> " (977.9 mm)
Maximum Depth of Cut, Approx. (Less Leaf Guard)	..... 6 <sup>1</sup> / <sub>8</sub> " (155.5 mm)
Maximum Depth of Cut, Approx. (With Leaf Guard)	..... 4 <sup>1</sup> / <sub>4</sub> " (107.9 mm)
Maximum Depth of Cut at 45° Bevel, Approx. (Less Leaf Guard)	..... 3 <sup>5</sup> / <sub>8</sub> " (92.4 mm)
Maximum Depth of Cut at 45° Bevel, Approx. (With Leaf Guard)	..... 3 <sup>5</sup> / <sub>8</sub> " (92.4 mm)
Dado Capacity (With 12" (304.8 mm) Dado)	..... 2 <sup>1</sup> / <sub>16</sub> " (52.3 mm) Wide*
Diameter Saw Arbor	..... 1" (25.4 mm)
Diameter of Combination Saw Supplied	..... 18" (457.2 mm)
Bevel Positive Stops	..... 0°, 45° and 90°
Miter Positive Stops	..... 90° and 45°, R & L
Type of Track	..... Replaceable, Hardened, Nickel-Alloy Rods
Motor Speed (Full Load) 60 Cycles	..... 3450 RPM
Overall Height	..... 62" (1574.8 mm)
Floor Space Required	..... 37 x 37" (939.8 x 939.8 mm)
Wood Table Top	..... 29 x 44" (736.6 x 1117.6 mm)
Height Table Top	..... 32" (812.8 mm)
Shipping Weight (Approx.)	..... 792 Lbs. (359.2 Kg.)

\*Using one standard flange on motor side of shaft, capacity is 1<sup>7</sup>/<sub>8</sub>" (47.6 mm). To obtain 2<sup>1</sup>/<sub>16</sub>" (52.3 mm) dado capacity, use one flange, No. 33-814, on motor side of shaft.

## STANDARD EQUIPMENT

Saw includes totally enclosed, fan cooled motor; blade guard with anti-kickback attachment; retractable leaf guard; 18" combination blade; steel legs; operating and maintenance instructions and wrenches.

For complete range of accessories, see Section 15.



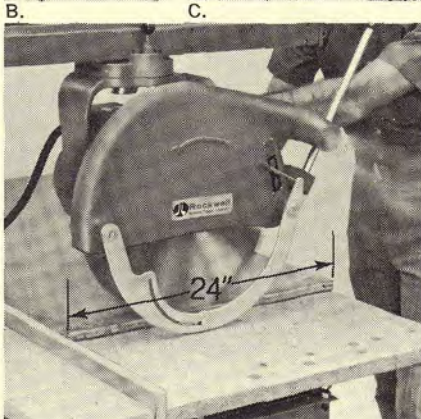
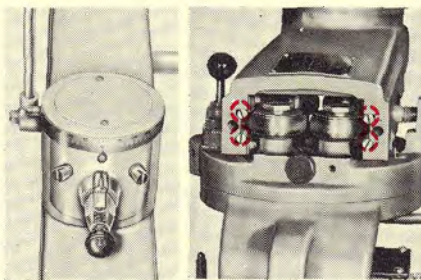
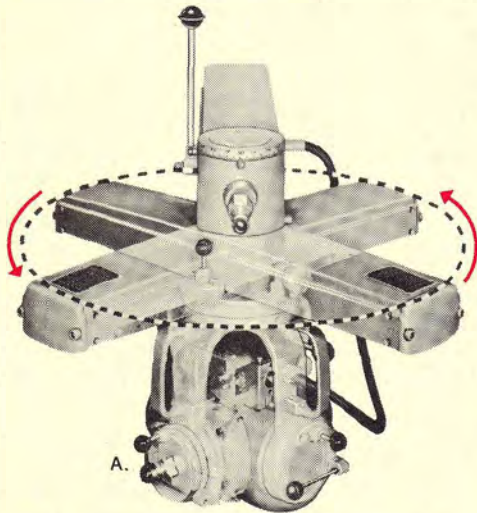
Specify this Catalog Number, in addition to Three Phase Cat. No. 33-763 in order to obtain 18" Radial Saw with "JIC" type electricals factory mounted and wired.

# Rockwell 16" Radial Saw

## ROCKWELL QUALITY FEATURES THAT GUARANTEE FASTER, MORE ACCURATE CUTTING, LOWER COSTS!

**A. Famous Double Overarm Action:** This preferred construction permits the saw blade to rotate a full 360° above the work table—gives full table capacity for left and right-hand miters.

**B. Exclusive "Micro-Set" Miter Stops:** Only Rockwell Delta gives you individually adjustable positive stops. When required, each setting can be quickly adjusted to assure perfect 90° and 45° cuts for the life of the saw.



**C. Lifetime Trackways:** Rockwell Delta 16" Radial Saws feature lifetime track rods with glass-smooth, hardened surfaces that minimize roller friction. They can be easily rotated to provide a new surface, providing precision cutting accuracy for the life of the machine.

**D. Convenient, "Up-Front" Operating Controls:** Every control, lever and scale is within easy reach for safe-sure operation. Positive stops at most-used positions and accurately calibrated scales for in-between settings eliminate guesswork, make it easy to set up operation.

**E. Ample Power With Big Capacity:** The "low-rise" motor, in 3 or 5 HP, delivers extra power to handle the toughest jobs. You can cut stock up to 5 3/8" thick.

(Note: Leaf guard removed to aid in photo clarity.)

**F. Extra Left-Hand Miter Capacity:** Rockwell Delta's famous "turret-arm" action lets you cut in any direction above the table. Here, the operator cuts the lower chord (2 x 6") of a low pitch roof truss, 1/8th pitch (4-12).

(Note: Leaf guard removed to aid in photo clarity.)

**G. Extra Wide Cross Cut Capacity:** The extra long arm on the Rockwell Delta 16" Model enables the operator to easily trim a 24" wide panel for a cabinet door.

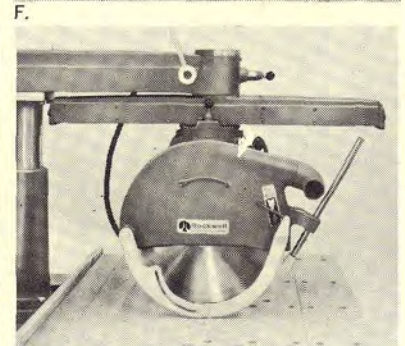
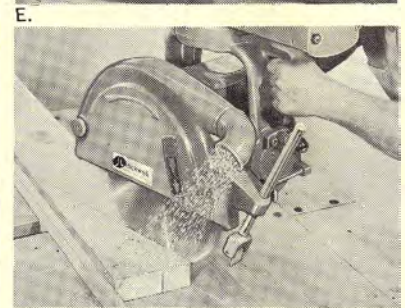
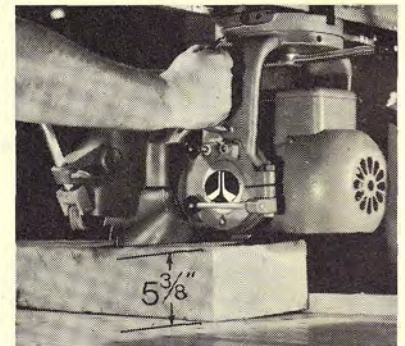
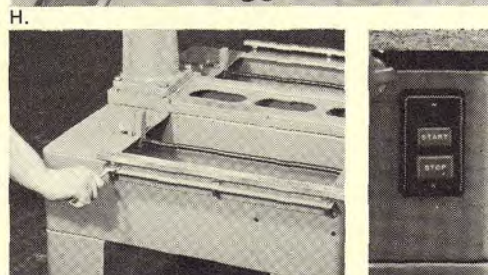
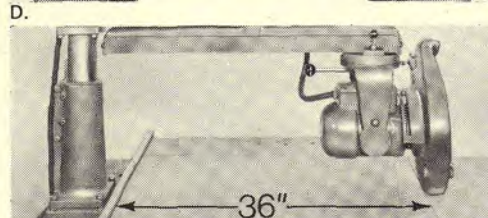
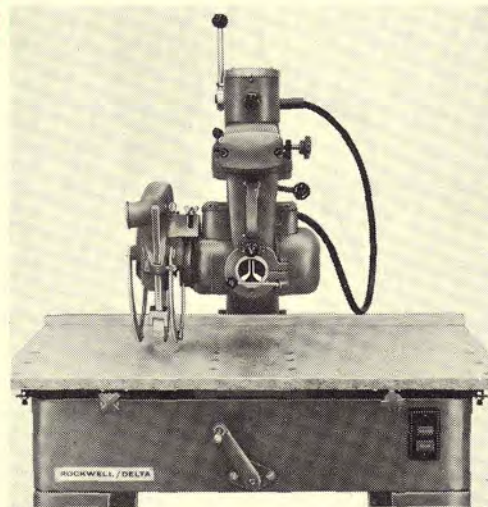
**H. Extra Wide Rip Capacity:** Large, bulky panels are quickly and easily ripped with the Rockwell Delta 16" Radial Saw.

**I. Safe Blade Guard Design:** Unlike many competitive models, the blade guard on

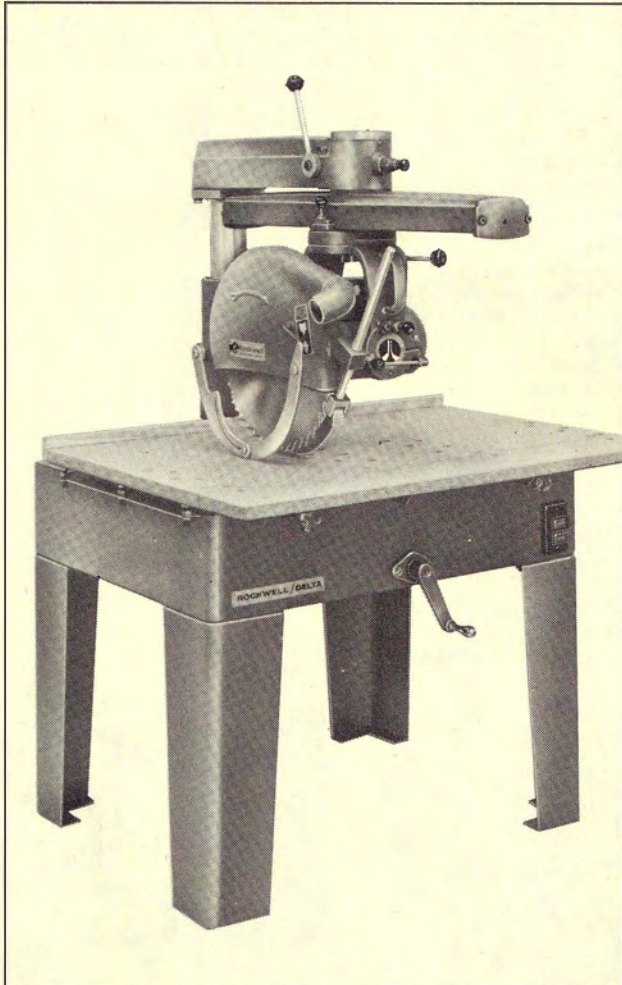
the Rockwell Delta 16" Radial Saw covers the entire saw arbor. Although Delta includes this safety feature as Standard Equipment, many competitive models offer it only as an accessory at additional cost.

**J. Positive Table Leveling Jacks—Massive Frame Construction:** Six easy-to-adjust leveling jacks assure sustained table accuracy. The extra deep channel, unitized base, which is rigidly reinforced by the cast iron center piece, guarantees continuous alignment of the entire machine.

**K. Exclusive Rockwell 24-Volt Safety Control System:** Only Rockwell Radial Saws offer a low 24 volts at the push button control station for extra operator safety. Magnetic control system provides on-off control, low-voltage, no-voltage (when power is interrupted, machine can be started only by pressing start button), and thermal overload protection. On three phase systems, overload protection is provided on all three legs. Shrouded green "start" button prevents accidental starts while protruding red "stop" button is extra large for quick, emergency stops. Switch cover and buttons are made of non-conductive material for added safety.



## A Semi-Portable Model for Field and Shop Use



Here's a saw that's built for production work and provides the capacities that these jobs require. It will cut stock 5<sup>3</sup>/<sub>8</sub>" thick, cross cut 24" wide and rip to the center of a 72" panel. With these extra big capacities, it's ideally suited for fabricating roof trusses, wall and floor panels, kitchen cabinets and interior partitions. The power packed 3 or 5 HP motor will stand up under extra heavy work loads over a long haul. This versatile saw incorporates all the fine features of the 18" Model. It's the finest long range investment you can make to protect and increase your profits.

### MACHINE DATA

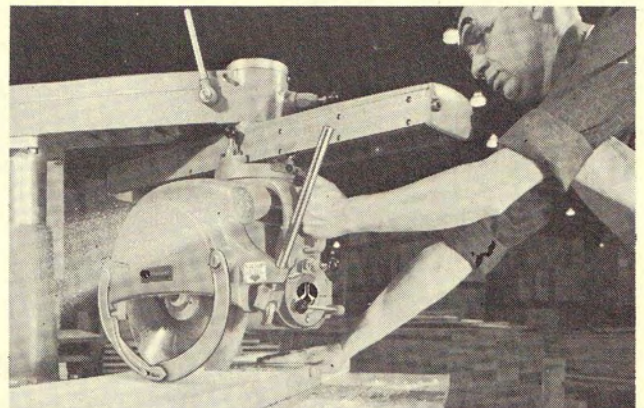
Motor Rating	..... 3 and 5 HP
Crosscut Capacity—1" (25.4 mm) Stock	..... 24" (609.6 mm)
Maximum Rip Capacity	..... 37 <sup>7</sup> / <sub>16</sub> " (950.9 mm)
Maximum Depth of Cut, Approx. (Less Leaf Guard)	..... 5 <sup>3</sup> / <sub>8</sub> " (136.5 mm)
Maximum Depth of Cut, Approx. (With Leaf Guard)	..... 4 <sup>1</sup> / <sub>8</sub> " (104.8 mm)
Maximum Depth of Cut at 45° Bevel, Approx. (Less Leaf Guard)	..... 2 <sup>1</sup> / <sub>16</sub> " (74.6 mm)
Maximum Depth of Cut at 45° Bevel, Approx. (With Leaf Guard)	..... 2 <sup>5</sup> / <sub>16</sub> " (66.7 mm)
Dado Capacity (With 10" (254 mm) Dado)	..... 2 <sup>1</sup> / <sub>8</sub> " (53.9 mm) Wide*
Diameter Saw Arbor	..... 1" (25.4 mm)
Diameter of Combination Saw Supplied	..... 1.6" (406.4 mm)
Bevel Positive Stops	..... 0°, 45° and 90°
Miter Positive Stops	..... 90° and 45°, R & L
Type of Track	..... Replaceable, Hardened, Nickel-Alloy Rods
Motor Speed (Full Load) 60 Cycles	..... 3450 RPM
Overall Height	..... 56" (1422.4 mm)
Floor Space Required	..... 30 x 37" (762 x 939.8 mm)
Wood Table Top	..... 32 x 42" (812.8 x 1066.8 mm)
Height Table Top	..... 32" (812.8 mm)
Shipping Weight (Approx.)	..... 567 Lbs. (257.2 Kg.)

\*Using no flanges, dado capacity is 2<sup>1</sup>/<sub>8</sub>" (53.9 mm); using one standard flange on motor side of shaft, dado capacity is 1<sup>7</sup>/<sub>8</sub>" (47.6 mm).

### STANDARD EQUIPMENT

Saw includes totally enclosed, fan cooled motor; 16" blade guard with anti-kickback attachment; retractable leaf guard; 16" combination blade; steel legs; operating and maintenance instructions and wrenches.

For complete range of accessories, see Section 15.



### NEW SAFETY FEATURES

Now! All Rockwell Delta 16" Radial Saws are supplied with a 24-volt control station for greater operator safety.

Now! All Three Phase 16" Radial Saws are equipped with 3-leg overload for greater motor protection.

Now! All 16" Models are furnished with a standard equipment retractable leaf guard for added operator safety.

Now! All 16" Radial Saws are available with an Electronic, Dynamic Brake as an optional accessory. For single phase machines, order Cat. No. 52-496; for three phase machines, order Cat. No. 52-497. See Section 15, Page 1 for field mounting.

### CATALOG LISTING

COMPLETE 16" RADIAL SAW, with Motor and Controls Factory Mounted and Wired as Specified Below.  
(For Electronic Brake, See New Safety Features Above.)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HZ. AND MOTOR RPM	MOTOR VOLTAGE	MACHINE CAT. NO.	MACHINE CAT. NO. 200 V
Single Phase 3 Horsepower	24 V at Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-3450	230	33-770	
Three Phase 5 Horsepower	24 V at Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-3450	230/460	†33-771	33-772

NOTE: Single phase electricals will be supplied wired for 230 V only. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. 575 V, 5 HP, three phase electricals are available at the same prices as those shown for 200 V electricals. †No. 49-000 "JIC" Type

Control Kit. Specify this Catalog Number, in addition to Three Phase Cat. No. 33-771, in order to obtain 16" Radial Saw with "JIC" type electricals, factory mounted and wired.

# Rockwell 14" Radial Saw

## ROCKWELL QUALITY FEATURES THAT GUARANTEE FASTER, MORE ACCURATE CUTTING, LOWER COSTS!

**A. Famous Double Overarm Action:** This preferred construction permits the saw blade to rotate a full 360° above the work table—gives full table capacity for left and right-hand miters.

**B. Exclusive "Micro-Set" Miter Stops:** Only Rockwell Delta gives you *individually adjustable* positive stops. When required, each setting can be quickly adjusted to assure perfect 90° and 45° cuts for the life of the saw.

**C. Lifetime Trackways:** Rockwell Delta 14" Radial Saws feature lifetime track rods with glass-smooth, hardened surfaces that minimize roller friction. They can be easily rotated to provide a new surface, providing precision cutting accuracy for the life of the machine.

**D. Convenient, "Up-Front" Operating Controls:** Every control, lever and scale is within easy reach for safe, sure operation. Positive stops at most-used positions and accurately calibrated scales for in-between settings eliminate guesswork, make it easy to set up operation.

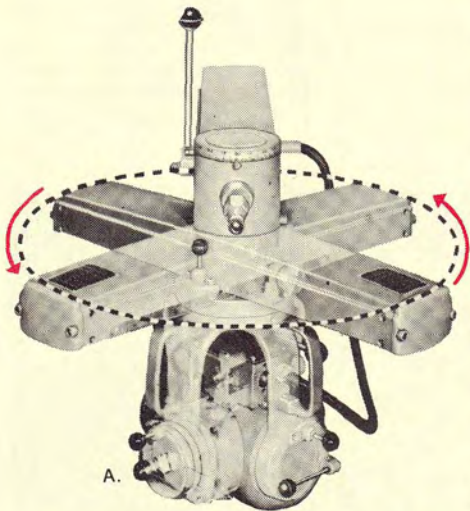
**E. Ample Power With Big Capacity:** The "low-rise" 3 HP motor delivers extra power to handle the toughest jobs. You can cut stock up to 4<sup>5</sup>/<sub>16</sub>" thick. (Note: Leaf guard removed to aid in photo clarity.)

**F. Safe Blade Guard Design:** Unlike many competitive models, the blade guard on the Rockwell Delta 14" Radial Saw covers the entire saw arbor. Although Delta includes this safety feature as Standard Equipment, many competitive models offer it only as an accessory at additional cost.

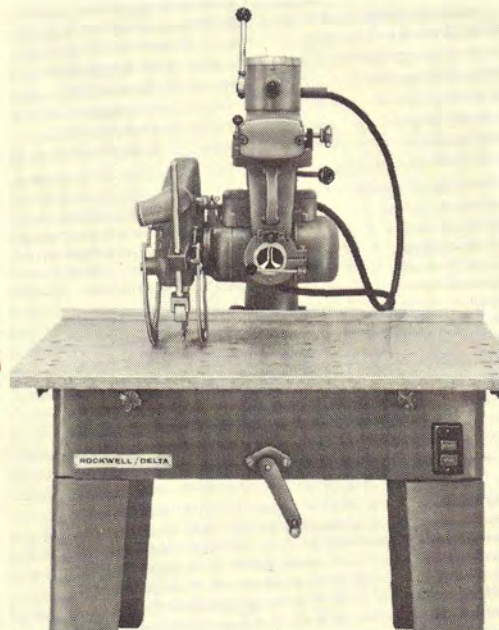
**G. Positive Table Leveling Jacks—Massive Frame Construction:** Six easy-to-adjust leveling jacks assure sustained table accuracy. The extra deep channel, unitized base, which is rigidly reinforced by the cast iron center piece, guarantees continuous alignment of the entire machine.

**H. Exclusive Rockwell 24-Volt Safety Control System:** Only Rockwell Radial Saws offer a low 24 volts at the push button

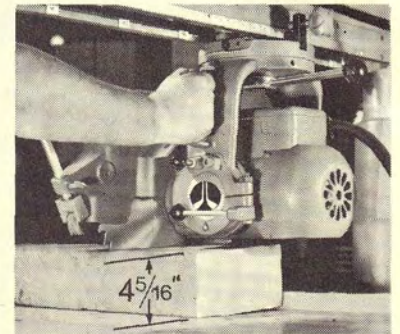
control station for extra operator safety. Magnetic control system provides on-off control, low-voltage, no-voltage (when power is interrupted, machine can be started only by pressing start button), and thermal overload protection. On three phase systems, overload protection is provided on all three legs. Shrouded green "start" button prevents accidental starts while protruding red "stop" button is extra large for quick, emergency stops. Switch cover and buttons are made of non-conductive material for added safety.



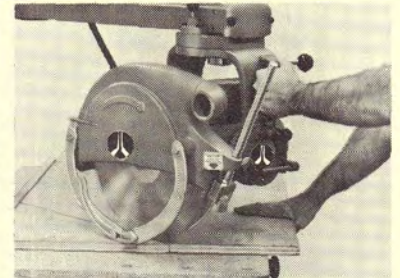
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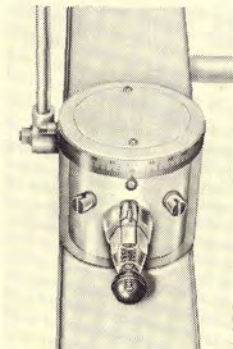
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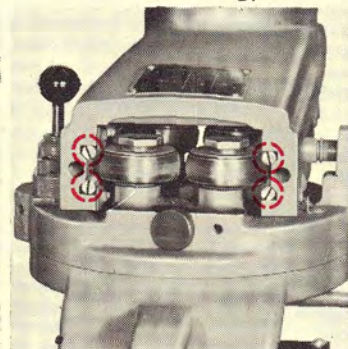
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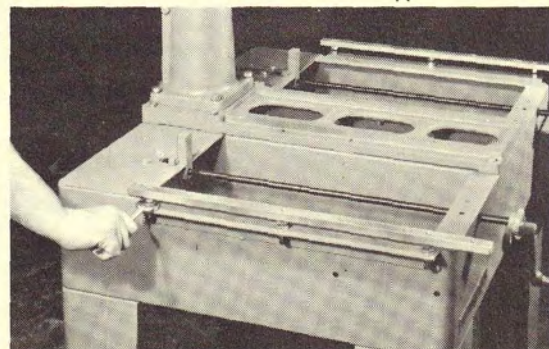
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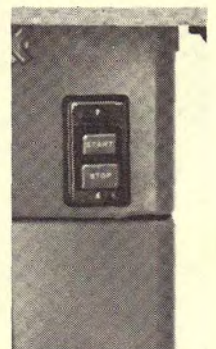
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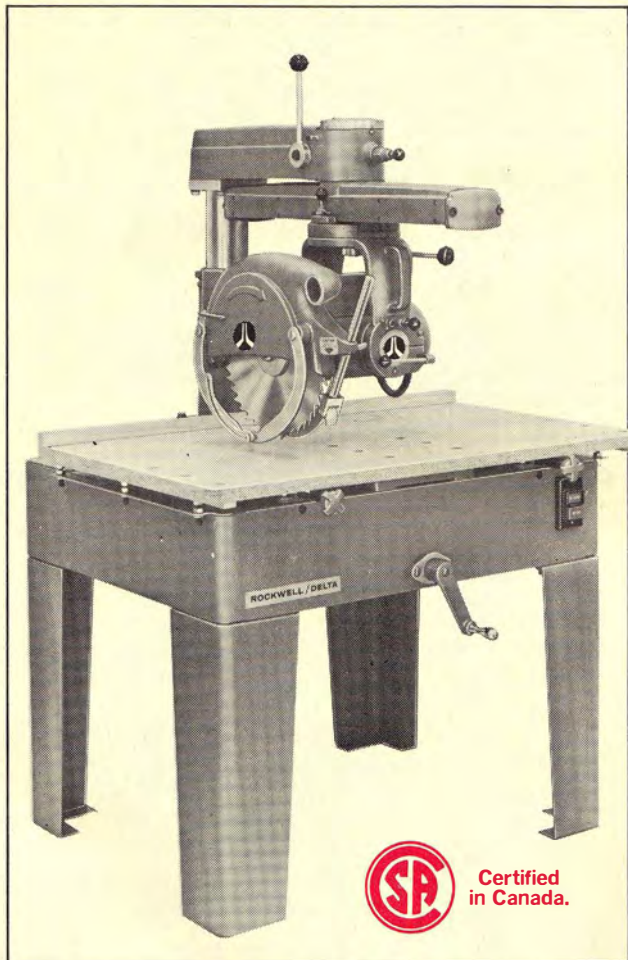
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H.

# ROCKWELL 14" RADIAL SAW

## A Semi-Portable Model for Field and Shop Use



### NEW SAFETY FEATURES

Now! All Rockwell Delta 14" Radial Saws are supplied with a 24-volt control station for greater operator safety.

Now! All Three Phase 14" Radial Saws are equipped with 3-leg overload for greater motor protection.

Now! All 14" Models are furnished with a standard equipment retractable leaf guard for added operator safety.

Now! All 14" Radial Saws are available with an Electronic, Dynamic Brake as an optional accessory. For single phase machines, order Cat. No. 52-496; for three phase machines, order Cat. No. 52-497. See Section 15, Page 1 for field mounting.

### CATALOG LISTING

COMPLETE 14" RADIAL SAW, with Motor and Controls Factory Mounted and Wired as Specified Below.  
(For Electronic Brake, See New Safety Features Above.)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HZ. AND MOTOR RPM	MOTOR VOLTAGE	MACHINE CAT. NO.	MACHINE CAT. NO. 200 V
Single Phase 3 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-3450	230	33-780	
Three Phase 3 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-3450	230/460	†33-781	33-782
Three Phase 5 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-3450	230/460	†33-783	33-784

**NOTE:** Single phase electricals will be supplied wired for 230 V only. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. 575 V, 3 and 5 HP, three phase electricals are available at the same prices as those shown for 200 V electricals. †No. 49-000 "JIC"

You can use this popular saw for production work in the shop, then take it out on the job site for heavy-duty, centralized cutting. It gives you 4 $\frac{3}{8}$ " cutting capacity and rips up to 30" wide. Big in quality, it incorporates all the fine features of the 16" Model. That's why it's excellent for home builders and prefabricators, for maintenance work or on the production line in industrial plants, and for lumber yards and woodworking shops where continuous accuracy is essential.

### MACHINE DATA

Motor Rating ..... 3 and 5 HP  
Crosscut Capacity—1" (25.4 mm) Stock. .... 19" (482.6 mm)

Maximum Rip Capacity:  
3 HP Single Phase and  
5 HP Three Phase ..... 31 $\frac{7}{16}$ " (798.5 mm)  
3 HP Three Phase ..... 30" (762 mm)

Maximum Depth of Cut, Approx. (Less Leaf Guard) ..... 4 $\frac{5}{16}$ " (109.5 mm)

Maximum Depth of Cut, Approx. (With Leaf Guard) ..... 4 $\frac{1}{8}$ " (104.8 mm)

Maximum Depth of Cut at 45° Bevel, Approx. (Less Leaf Guard) ..... 2 $\frac{15}{16}$ " (74.6 mm)

Maximum Depth of Cut at 45° Bevel, Approx. (With Leaf Guard) ..... 1 $\frac{1}{8}$ " (28.6 mm)

Dado Capacity  
(With 10" (254 mm) Dado) ..... 1 $\frac{7}{8}$ " (47.6 mm) Wide\*

Diameter Saw Arbor ..... 1" (25.4 mm)

Diameter of Combination Saw Supplied ..... 1 $\frac{1}{4}$ " (355.6 mm)

Bevel Positive Stops ..... 0°, 45° and 90°

Miter Positive Stops ..... 90° and 45°, R & L

Type of Track .... Replaceable, Hardened, Nickel-Alloy Rods

Motor Speed (Full Load) 60 Cycles ..... 3450 RPM

Overall Height ..... 56" (1422.4 mm)

Floor Space Required ..... 30 x 37" (762 x 939.8 mm)

Wood Table Top ..... 26" x 42" (660.4 x 1066.8 mm)

Height Table Top ..... 32" (812.8 mm)

Shipping Weight (Approx.) ..... 550 Lbs. (249.5 Kg.)

\*1 $\frac{7}{8}$ " (47.6 mm) dado capacity is obtained using only standard flange on motor side of shaft.

### STANDARD EQUIPMENT

Saw includes totally enclosed, fan cooled motor; 14" blade guard with anti-kickback attachment; retractable leaf guard; 14" combination blade; steel legs; operating and maintenance instructions and wrenches.

For complete range of accessories, see Section 15.



# Rockwell 12" Radial Saw

## ROCKWELL QUALITY FEATURES THAT ASSURE TOP QUALITY PERFORMANCE!

**A. Famous Delta "Turret Arm" Action.** Swing It! Arm swings 360° in any direction above the table for angle cutting. Features positive stops at 0° and 45°, right and left. **Spin It!** Yoke-motor unit swivels 360° under the arm with positive stops at each 90° position. Makes it easy to rip from either side. **Tilt It!** Motor tilts inside yoke for beveling, shaping and moulding operations. Gives you a tilting arbor machine with positive stops at 45° and 90°.

**B. Extra Powerful Motor.** 1½ HP motor delivers up to 3 HP under heavy work loads to assure faster, smoother cutting. The extra power means extra safety because stalling is virtually eliminated. Threaded right-hand shaft of motor permits use of drill bits, sanding drums and other accessories.

**C. Convenient, Up-Front On-and-Off Switch.** Conveniently placed at eye level, switch can be turned on or off in an instant for added operator protection. Lock-out feature permits switch to be locked so that saw cannot be turned on—an extra safety feature that restricts unauthorized use of the machine.

**D. All Controls Located "Up-Front".** Every control, including the elevating crank, is "up front," away from the blade for faster, safer operation. Extra long, comfortable hand grips assure greater locking leverage and control.

**E. Precision Index Ring for Miter Cuts.** 90° and 45° positive miter stops are precision machined simultaneously at the factory, assuring lifetime accuracy on the job. Adjustment, if ever required, is easily made.

**F. Convenient Index Control.** Index release knob is conveniently located "up front" permitting quick, easy selection of desired miter positions.

**G. Massive Column and Base.** Husky column and rugged base are precision matched. A heavy, built-in, spring-loaded key maintains rigid, accurate alignment of cutting arm yet affords free, easy rais-

ing and lowering of cutting head. There are no gibs or wrap-around clamps to go out of adjustment.

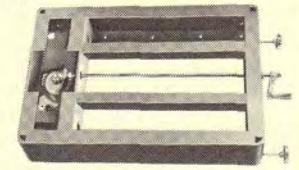
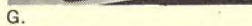
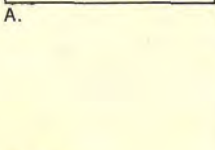
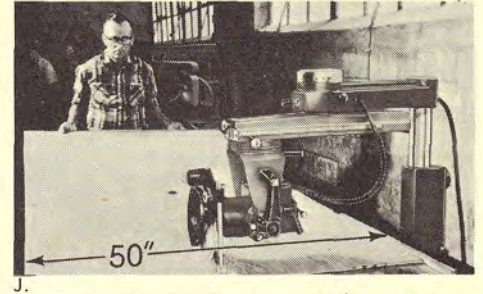
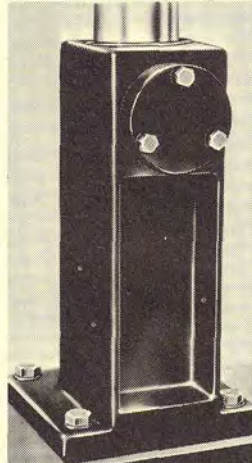
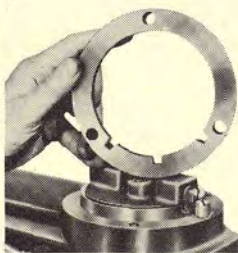
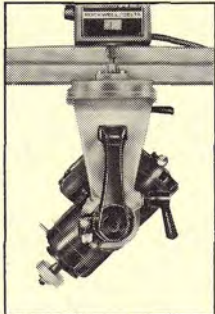
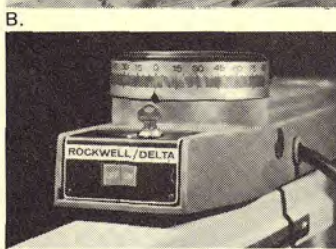
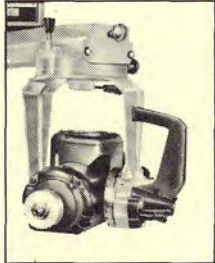
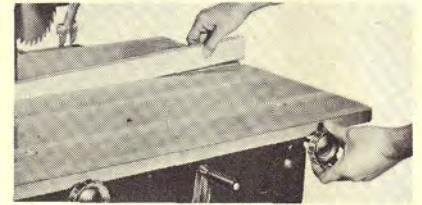
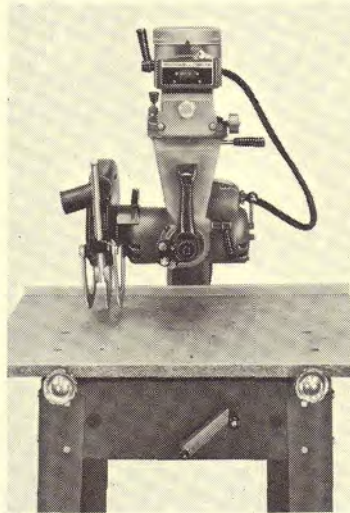
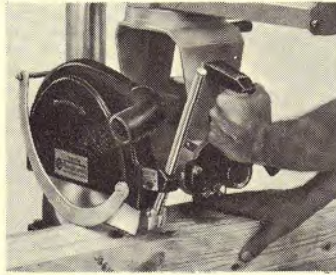
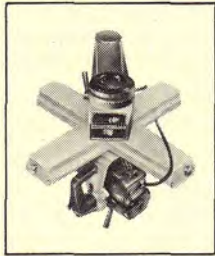
**H. Handy Fence Lock Knobs.** Large, convenient knobs enable you to adjust and lock the fence from the front for added safety. This important feature saves you time, especially when cutting varying widths of stock.

**I. Large Bevel and Miter Scales.** They are extra large in size and conveniently located, making them easy to use. This speeds up production and improves accuracy on close tolerance jobs.

**J. Big Capacities.** Cuts stock up to 4" thick and rips to the center of a 50" panel, with ample table support. In addition, Delta's famous "Turret-Arm" action permits the blade to stay positioned over the table throughout the 360° arm swing. You can even cut left-hand miters and still get full capacity over the table.

**K. Heavy, Deep Channel Frame Construction.** This underside view of the frame shows its rugged, box-type construction that makes it practically distortion proof. This assures continuous alignment of the entire machine, guaranteeing the user trouble-free performance and accuracy year after year.

**L. Fool-Proof Mechanical Brake.** A dependable, manually operated brake that works every time to assure quick, safe blade stoppage. Brake stops blade almost instantly.

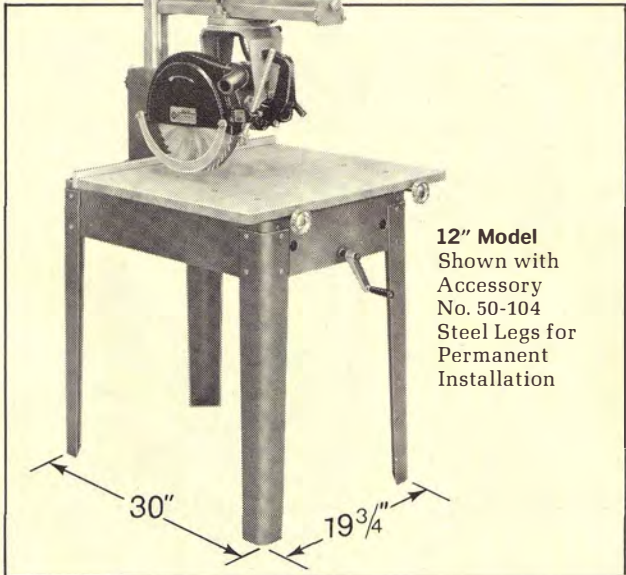


# ROCKWELL 12" RADIAL SAW



Certified  
in Canada.

No. 33-790  
12" Bench Model



12" Model  
Shown with  
Accessory  
No. 50-104  
Steel Legs for  
Permanent  
Installation

30"

19 3/4"

## NEW SAFETY FEATURES

Now! All Rockwell Delta Magnetically Controlled 12" Radial Saws are supplied with a 24-volt control station for greater operator safety.

Now! All Three Phase 12" Radial Saws are equipped with 3-leg overload for greater motor protection.

Now! All 12" Models are furnished with a standard equipment retractable leaf guard for added operator safety.

## CATALOG LISTING

COMPLETE 12" RADIAL SAW, BENCH MODEL, with Motor and Controls Factory Mounted and Wired as Specified Below. Order No. 50-104 set of four steel legs separately.

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HZ. AND MOTOR RPM	MOTOR VOLTAGE	MACHINE CAT. NO.	MACHINE CAT. NO. 200 V
Single Phase 1 1/2 Horsepower	On-Off, Key-Lock Switch and Overload Protection	GD	60-3450	115/230	33-790	
	24 V at On-Off, Key-Lock Switch; Magnetic Starter; Transformer and Overload Protection (LVC)	GD	60-3450	115/230	33-791	
Three Phase 2 Horsepower	24 V at On-Off, Key-Lock Switch; Magnetic Starter; Transformer and 3-Leg Overload Protection (LVC)	GD	60-3450	230/460	33-792	33-793

NOTE: Single phase dual-voltage electricals will be supplied wired for 230 V, unless 115 V is specified. Three phase 230/460 V electricals will

This machine meets the high standards required by industry, builders, contractors, commercial and school shops. Here's why. The extra powerful motor will handle the toughest cutting jobs. The rigid frame, massive column base and precision index ring assure top quality cuts on all jobs. And the convenient on-off switch with lock-out key, fool-proof mechanical brake and all "up-front" operating controls make it the safest radial saw you can buy. Designed for easy movement, it can be taken right to the job, even carried through a standard entrance for on-the-spot, centralized cutting.

## MACHINE DATA

### Motor:

Horsepower ..... 1 1/2, 2  
Speed ..... 3450 RPM

### Blade:

Diameter (Supplied) ..... 12" (304.8 mm)  
Arbor ..... 5/8" (15.8 mm)

### Capacity:

Maximum Depth of Cut, Approx. (Less Leaf Guard) ..... 4" (101.6 mm)  
Maximum Depth of Cut, Approx. (With Leaf Guard) ..... 3 3/8" (98.4 mm)  
Maximum Depth of Cut at 45° Bevel, Approx. (Less Leaf Guard) ..... 2 1/2" (63.5 mm)  
Maximum Depth of Cut at 45° Bevel, Approx. (With Leaf Guard) ..... 1 11/16" (39.7 mm)  
Cross-Cut ..... 15 1/2" (393.7 mm)  
Rip ..... 25" (635 mm)

Bevel Positive Stops ..... 0°, 45° and 90°

Miter Positive Stops ..... 90° and 45° R & L

Table Size ..... 25 1/2" x 30" (635 x 762 mm)

### Overall Dimensions:

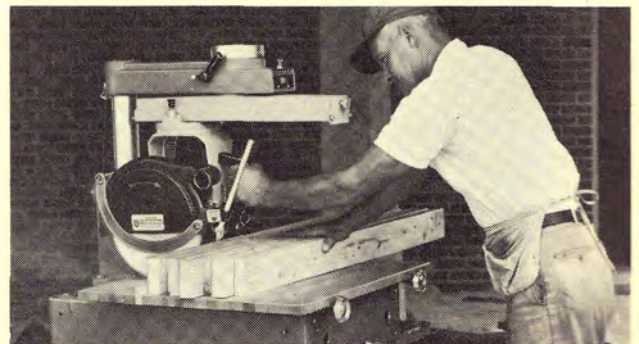
Width ..... 30" (762 mm)  
Depth ..... 32" (812.8 mm)  
Height:  
Bench Model ..... 33" (838.2 mm)  
Floor Model ..... 63 1/2" (1612.9 mm)

Shipping Weight (Approx.) ..... 270 Lbs. (122.4 Kg.)

## STANDARD EQUIPMENT

Extra powerful 1 1/2 or 2 HP motor; 12" blade guard with anti-kickback attachment; retractable leaf guard; 12" combination blade; operating and maintenance instructions and wrenches.

For complete range of accessories, see Section 15.



# ROCKWELL RADIAL SAW ACCESSORIES

## ROCKWELL ACCESSORIES INCREASE THE USEFULNESS OF YOUR RADIAL SAW

### SAW BLADES

DIAMETER AND ARBOR HOLE	COMBINATION (FLAT GROUND)	RIP (FLAT GROUND)	CROSSCUT (FLAT GROUND)	NOVELTY TOOTH COMBINATION (FLAT GROUND)	MITRE (HOLLOW GROUND) (4 CUTTING TEETH) (1 RAKER TOOTH)	CARBIDE-TIPPED COMBINATION (24 TEETH WITH ALTERNATE TOP BEVEL GRIND)	WEIGHT LBS.
18 x 1"	33-740	33-741	33-742		33-743		7½
16 x 1"	33-183	33-184	33-001	33-204	33-186		5½
14 x 1"	33-179	33-180	33-002	33-203	33-182		4
12 x 1"						34-842	4
12 x 5/8"	33-197	33-003	33-004		33-005		4
10 x 5/8"						34-841	2½
9 x 5/8"						34-840	2

### SPECIAL SAW BLADE

**No. 34-707 Plywood**, 7" diameter x 5/8" arbor hole, 200 teeth. 2½ lbs.

**No. 34-709 Hard Tooth Combination**, taper ground, 9" diameter x 5/8" arbor hole, 30 teeth. 2½ lbs.

### FLANGES

**No. 33-548 Pair of Flanges**, 5" diameter, for use with 18" or 20" diameter saw blades. 4 lbs.

**No. 33-814 Steel Flange**, 4" diameter. Use this flange in place of standard flanges No. 33-548, furnished with machine, to obtain 2¼" dado capacity.

### ELECTRONIC BRAKES FOR FIELD MOUNTING

For use with 18", 16" and 14" Rockwell Delta Radial Saws.

**No. 52-453 Dynamic Brake**, for single phase operation. Electronic brake stops blade quickly for greater operator safety. 48 lbs.

**No. 52-452 Dynamic Brake**, same as above except for three phase operation. 48 lbs.

### SPACER COLLARS

**No. 34-171 (old 1171)**. Use with above saw blades to make accurate, clean tenons. Set of 2, one ¼" thick and one 3/8" thick, 2½" diameter with 5/8" arbor hole. 1 lb.

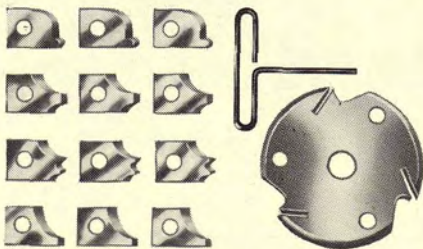
### MOULDING CUTTERHEADS

Heavy duty, solid steel type. Less wrench and knives. 2½ lbs.

**No. 33-307**. With 1" arbor hole.

**No. 34-562**. With 5/8" arbor hole.

**No. 34-521 (old 1521) Wrench**. For moulding cutterheads. ½ lb.



**No. 34-813 Standard Moulding Cutterhead and Knife Set**. Includes No. 34-562 (old 265) cutterhead, No. 34-521 (old 1521) wrench and Nos. 35-102, 35-103, 35-221, and 35-222 cutterhead knives. For use on ½" and 5/8" diameter arbor saws. 4 lbs.

**No. 34-821 Basic Moulding Cutterhead and Knife Set**. Includes No. 34-562 (old 265) cutterhead. No. 34-521 (old 1521) wrench and No. 35-102 set of knives. For use on ½" and 5/8" diameter arbor saws. 3 lbs.

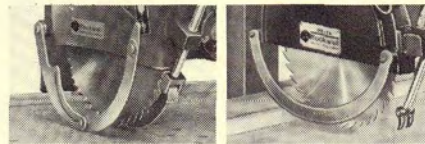
### STANDARD DADO HEAD SETS



**No. 3 Production type**. Made of the finest steel, carefully hardened and tempered. Set consists of two hollow-ground outer blades (1/8" thick) and four inside cutters (two ¼" thick; one 1/8" thick; one 1/16" thick). Will cut grooves from 1/8" to 1 1/16" wide with or against the wood grain. Sold in complete sets only.

DIAMETER	ARBOR HOLE	WEIGHT LBS.	CATALOG NUMBER
10"	1"	9	33-174
8"	5/8"	8	33-212
6"	5/8"	3½	34-333

**No. 34-334 Economy Dado Head Set**. Consisting of two flat-ground outer blades (6" diameter x 1/8" thick) and five inside cutters (four 1/8" thick; one 1/16" thick). With 5/8" arbor hole. Cuts grooves from 1/8" to 1 1/16" wide. 4 lbs.



No. 33-450

No. 33-594

### RETRACTABLE LEAF GUARDS

Provide additional safety for operator.

**No. 33-446** For 20" blade guard. 4 lbs.

**No. 33-471** For 18" blade guard. 4 lbs.

**No. 33-450** For 16" blade guard. 2½ lbs.

**No. 33-449** For 14" blade guard. 2½ lbs.

**No. 33-594** For 12" blade guard. 2 lbs.

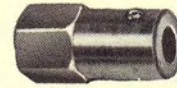
### BLADE GUARD

Designed to cover entire saw spindle for additional operator safety.

**No. 33-543, 20" Blade Guard** for 18" Radial Saw. 18 lbs.

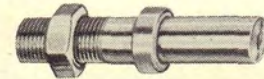
### ADAPTERS

**No. 33-304 Adapter** with 1"-14 L.H. thread x 1/2" bore. Threads onto radial saw arbor to provide 1/2" bore hole to fit 1/2" shank accessories. 1/2 lb.

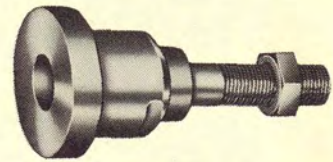


**No. 33-277 Adapter** with 5/8"-18 L.H. thread x 1/2" bore. Threads onto radial saw arbor to provide 1/2" bore hole to fit 1/2" shank accessories. 1/2 lb.

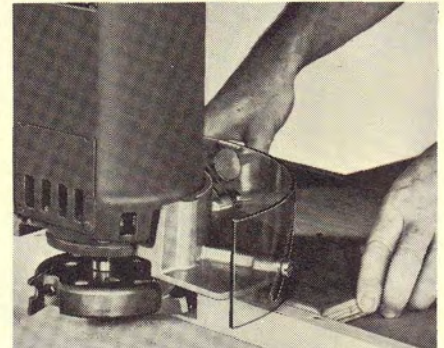
### SHAPER CUTTER ADAPTERS



**No. 43-990 Shaper Cutter Adapter**. With 1/2" diameter shank and 1/2" L.H. threaded shaft to accommodate shaper cutters or other accessories up to 1" thick. Use with 33-304 or 33-277 Adapter. 1/2 lb.



**No. 33-600 Shaper Cutter Adapter**. For mounting 1/2" hole 3-lip shaper cutters on 5/8"-18 L.H. threaded motor shaft. 1 lb.



**No. 33-942 Shaping Guard for 12" Radial Saw**. Provides additional operator protection.

### SANDING DISCS

Threaded to fit motor shaft. Furnished with one garnet disc.

**No. 46-836 Sanding Disc**, 8 1/2" diameter, mounts on 1"-14 L.H. thread motor shaft. 2½ lbs.



**No. 33-603 Sanding Disc**, 8 1/2" diameter, mounts on 5/8"-18 L.H. thread motor shaft. 2½ lbs.

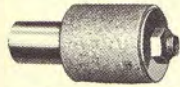
### ABRASIVE PAPER AND DISK ADHESIVE

**No. 46-815 Abrasive Paper**, 8 1/2" diameter, No. 40 grit, coarse garnet. 1 doz. 2 lbs.

**No. 46-817 Abrasive Paper**, 8 1/2" diameter, No. 80 grit, fine garnet. 1 doz. 2 lbs.

**No. 49-503 Disk Adhesive**. For changing abrasive paper. 1 lb.

# ROCKWELL RADIAL SAW ACCESSORIES



## SANDING DRUMS

**No. 33-278.** 3" diameter x 3", with one sleeve. Fits  $\frac{3}{8}$ "-18 L.H. thread motor shaft. 2 lbs.

**No. 46-038 (old 830).** 3" diameter x 3", with one sleeve. Fits  $\frac{1}{2}$ " diameter shaft. 2 lbs.

**No. 33-279.**  $1\frac{3}{4}$ " diameter x 2", with one sleeve. Fits  $\frac{3}{8}$ "-18 L.H. thread motor shaft. 2 lbs.

**No. 46-538 (old 835).**  $1\frac{3}{4}$ " diameter x 2", with one sleeve. Fits  $\frac{1}{2}$ " diameter shaft. 1 lb.

**No. 46-048 (old 840).**  $1\frac{1}{16}$ " diameter x  $2\frac{1}{2}$ ", with one sleeve. With  $\frac{1}{2}$ " shank to fit  $\frac{1}{2}$ " adapters or chuck.  $\frac{1}{2}$  lb.

## SANDING SLEEVES

**3" Diameter x 3" Sleeves.** Package of 6. For use with No. 33-278 and No. 46-038 (old 830) Sanding Drums.

**No. 46-138 (old 831).** Coarse Garnet. 40 grit.  $\frac{1}{2}$  lb.

**No. 46-832 (old 832).** Medium Garnet. 60 grit.  $\frac{1}{2}$  lb.

**No. 46-338 (old 833).** Al. Oxide (for metal) 50 grit.  $\frac{1}{2}$  lb.

**$1\frac{3}{4}$ " Diameter x 2" Sleeves.** Package of 6. For use with No. 33-279 and No. 46-538 (old 835) Sanding Drums.

**No. 46-638 (old 836).** Coarse Garnet. 40 grit.  $\frac{1}{4}$  lb.

**No. 46-837 (old 837).** Medium Garnet. 60 grit.  $\frac{1}{4}$  lb.

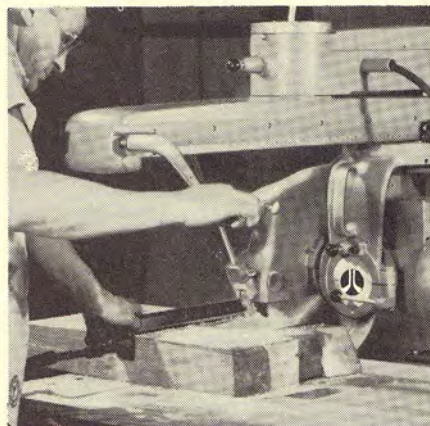
**No. 46-838 (old 838).** Al. Oxide (for metal) 50 grit.  $\frac{1}{4}$  lb.

**$1\frac{1}{16}$ " Diameter x  $2\frac{1}{2}$ " Sleeves.** Package of 6. For use with No. 46-048 (old 840) Sanding Drum.

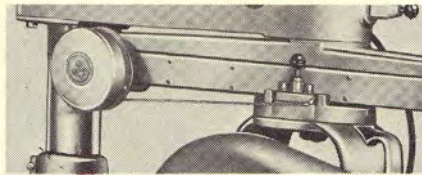
**No. 46-841 (old 841).** Medium Garnet. 50 grit.  $\frac{1}{2}$  lb.

**No. 46-248 (old 842)** Fine Garnet. 80 grit.  $\frac{1}{2}$  lb.

**No. 46-847 (old 847).** Al. Oxide (for metal). No. 50 grit.  $\frac{1}{2}$  lb.



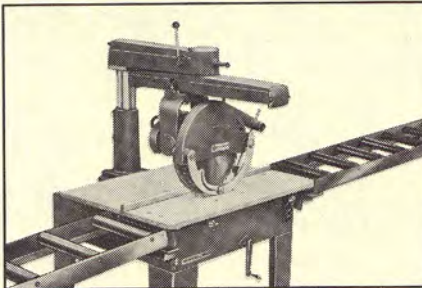
**No. 33-544 Chain Feed Control.** For 18" Radial Saw. Provides a constant, steady feed for cutting heavy timbers, gang sawing, rafter notching and other operations where a carefully controlled feed is required. Reduces waste and rejects. Special design permits operator to switch to regular saw operation in seconds. 8 lbs.



**Cutterhead Return Attachments.** Help speed up production. Operator makes cut and cutterhead automatically returns to an out-of-the way position behind the guide fence. Stock then can be positioned for the next cut.

**No. 33-550.** For 18" Radial Saw.  $4\frac{1}{4}$  lbs.

**No. 33-549** For 14" and 16" Radial Saws.  $4\frac{1}{4}$  lbs.

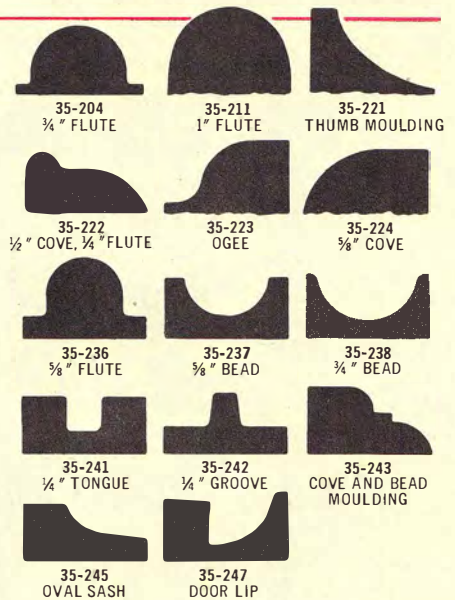
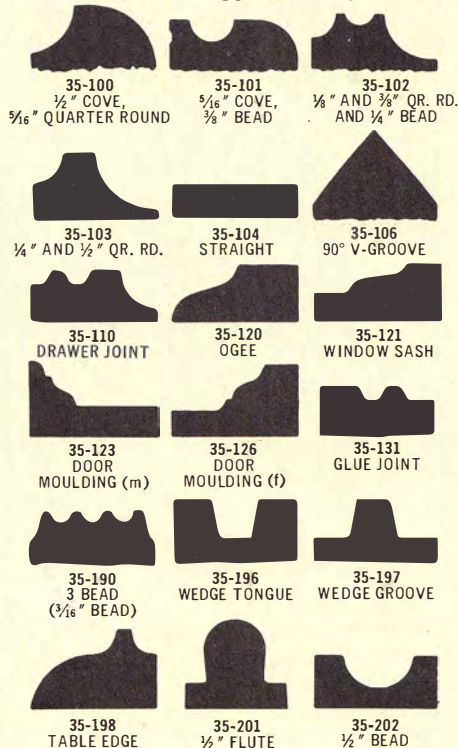


**Extension Roller Table** for Rockwell Delta 18", 16" and 14" Radial Saws. Use several extension tables to increase the speed of your cutting operations. Your material always moves in a straight line on a level table—no matter what cut you make.

**No. 33-521 One Roller Extension Table,** eight feet long, with eight 12-inch rollers and one adjustable support stand. For direct coupling to steel table of Rockwell Delta 18", 16", or 14" Radial Saw (specify Machine Catalog Number). 125 lbs.

## MOULDING CUTTERHEAD KNIVES

Choose from 32 sets of Knives. Knives are shown approximately  $\frac{1}{2}$  size.



## STRAIGHT CUTTERS— $\frac{1}{2}$ " hole.

1 $\frac{1}{8}$ " Diameter		
09-107 (Old D-107)		$\frac{1}{2}$ "
09-130 (Old D-130)		$\frac{3}{4}$ "
09-104 (Old D-104)		1"
09-105 (Old D-105)		1 $\frac{1}{2}$ "
1 $\frac{5}{16}$ " Diameter		
09-108 (Old D-108)		$\frac{1}{4}$ "
09-127 (Old D-127)		$\frac{3}{8}$ "
2 $\frac{1}{32}$ " Diameter		
09-139 (Old D-139)		$\frac{1}{4}$ "
09-129 (Old D-129)		$\frac{3}{8}$ "

## SPACING COLLARS— $\frac{1}{2}$ " hole.

$\frac{1}{8}$ " Thickness		
Number		Diameter
09-133 (Old D-133)		$\frac{1}{16}$ "
$\frac{3}{16}$ " Thickness		
Number		Diameter
09-150 (Old D-150)		1 $\frac{3}{8}$ "
$\frac{1}{4}$ " Thickness		
09-155 (Old D-155)		$\frac{3}{4}$ "
09-217 (Old D-217)		1 $\frac{1}{32}$ "
09-134 (Old D-134)		1 $\frac{3}{32}$ "
09-140 (Old D-140)		1 $\frac{3}{16}$ "
09-215 (Old D-215)		1 $\frac{15}{32}$ "
09-151 (Old D-151)		1 $\frac{7}{8}$ "
$\frac{3}{8}$ " Thickness		
09-142 (Old D-142)		$\frac{3}{4}$ "
09-171 (Old D-171)		1 $\frac{1}{16}$ "
09-143 (Old D-143)		$\frac{7}{8}$ "
09-172 (Old D-172)		1 $\frac{5}{16}$ "
09-144 (Old D-144)		1"
09-173 (Old D-173)		1 $\frac{1}{8}$ "
09-145 (Old D-145)		1 $\frac{1}{8}$ "
09-132 (Old D-132)		1 $\frac{3}{32}$ "
09-141 (Old D-141)		1 $\frac{3}{16}$ "
09-146 (Old D-146)		1 $\frac{1}{4}$ "
09-174 (Old D-174)		1 $\frac{1}{16}$ "
09-175 (Old D-175)		1 $\frac{1}{8}$ "
09-176 (Old D-176)		1 $\frac{9}{16}$ "
09-147 (Old D-147)		1 $\frac{3}{8}$ "
09-148 (Old D-148)		1 $\frac{1}{2}$ "
09-177 (Old D-177)		1 $\frac{5}{8}$ "
09-178 (Old D-178)		1 $\frac{3}{4}$ "
09-179 (Old D-179)		1 $\frac{13}{16}$ "
09-180 (Old D-180)		1 $\frac{7}{8}$ "
09-149 (Old D-149)		1 $\frac{15}{16}$ "

# ROCKWELL RADIAL SAW ACCESSORIES

**3-LIP SHAPER CUTTERS**— $\frac{1}{2}$ " hole. Choose from 38 3-lip cutters. Knives are shown  $\frac{1}{2}$  size.



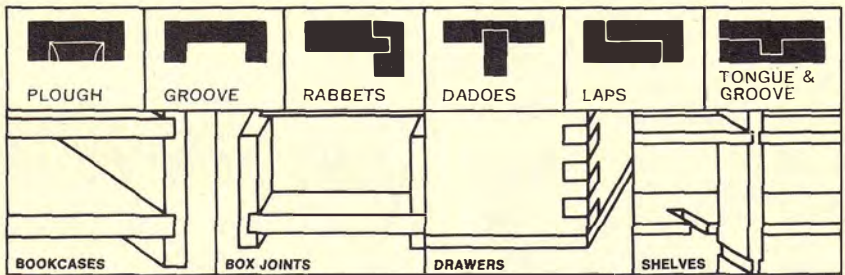
## NEW ROCKWELL MICRO-SET™ ADJUSTABLE DADO

... Carbide-Tipped  
for Longer Life

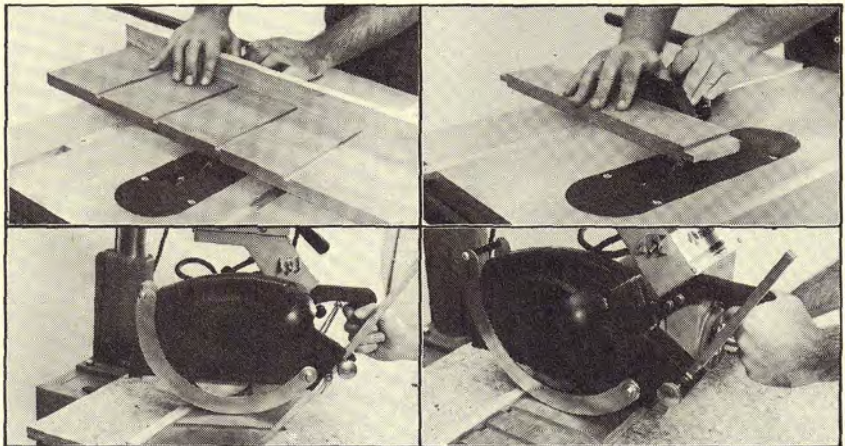


**Easy to use!**  
Just dial the width of cut you want and get perfect results every time! Here's the dado that stays on the saw! No need to remove it from the saw arbor to change settings. Just turn the calibrated dial to the width of cut you want from  $\frac{1}{4}$ " to  $1\frac{3}{16}$ "

**NOTE:** Do not use on machines exceeding 7000 rpm.



Make These Cuts and Joints and Many More  
With Your Rockwell Micro-Set™ Adjustable Dado



wide, up to  $\frac{3}{4}$ " deep. The Micro-Set dado also ploughs, rabbets, grooves and makes decorative cuts. The  $6\frac{3}{8}$ " blade is carbide tipped to cut wood or plastic laminates smoothly and truly, more times. Sturdy plastic carrying case is included.

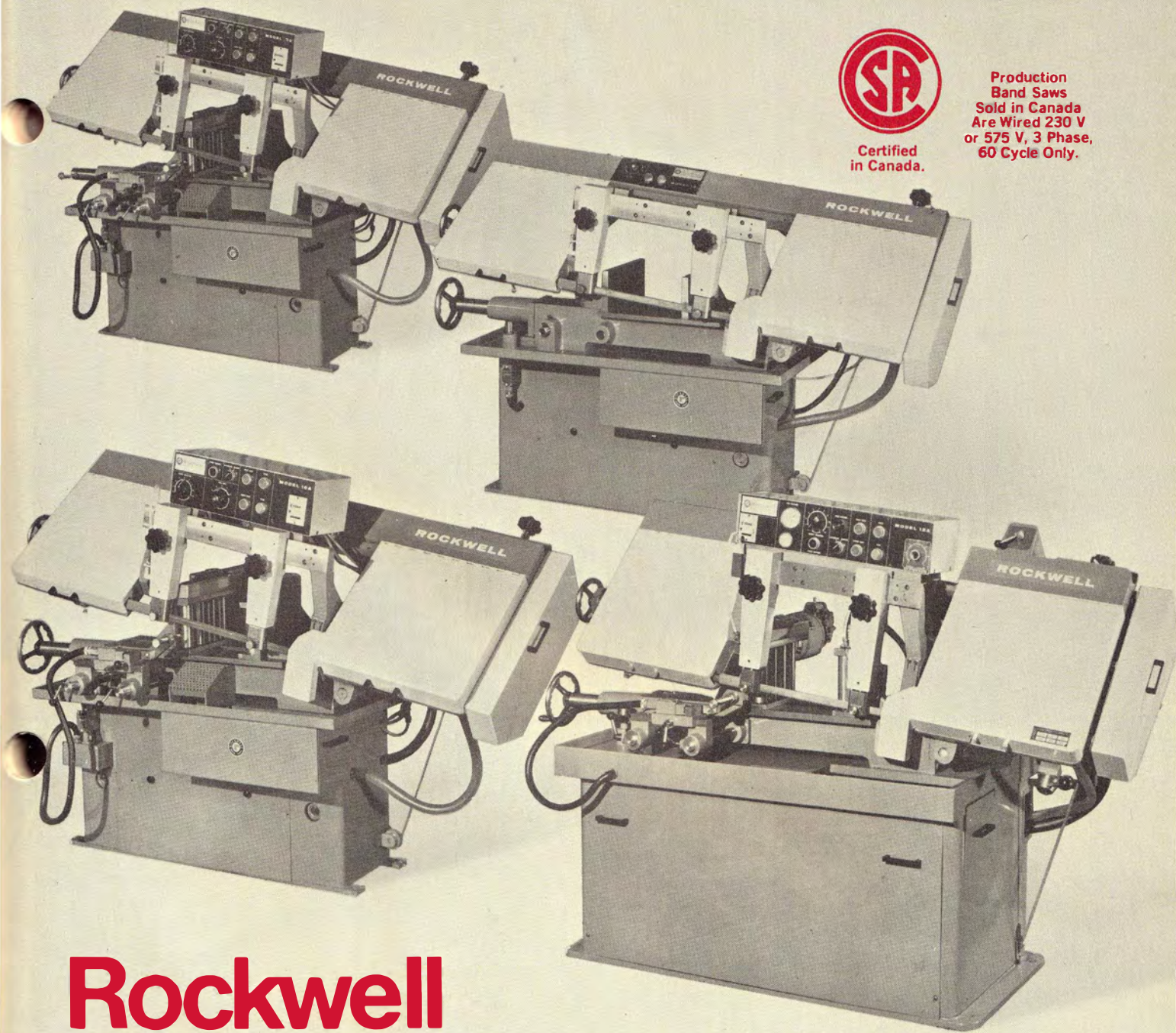
## SPECIFICATIONS

Catalog No. .... 34-959  
Width of Cut .....  $\frac{1}{4}$ " to  $1\frac{3}{16}$ "  
(6.35 to 20.64 mm)  
Maximum Depth of Cut  $\frac{3}{4}$ " (19.05 mm)  
No. of Teeth ..... 8  
Fits Arbor .....  $\frac{5}{8}$ " (15.87 mm)  
Speed ..... Not to Exceed 7000 RPM  
Weight ..... 2 lbs. (.907 kg)



Certified  
in Canada.

Production  
Band Saws  
Sold in Canada  
Are Wired 230 V  
or 575 V, 3 Phase,  
60 Cycle Only.



# Rockwell Production Band Saws

**Fastest Cutting, Most Accurate,  
Easiest to Operate Production Saws...at the Price!**

**4 MODELS...MANUAL TO AUTOMATIC...7" TO 12" CAPACITY**

We know and will prove to you that Rockwell Production Band Saws will increase your production while lowering your cost per saw cut. Here's why. They are ruggedly built, precision machines and incorporate modern design throughout. That's why Rockwell Production Band Saws will give you the high quality performance you want—square cuts, parallel cuts, flat cuts. And they will give you these cuts unbelievably fast.

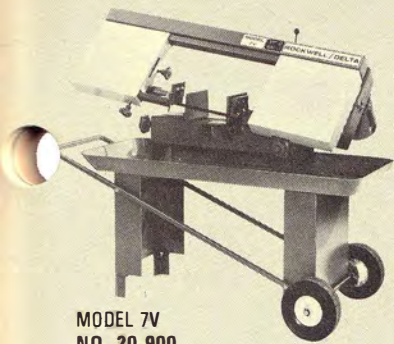
Designed for use with high speed and intermediate

alloy blades, Rockwell Production Band Saws provide exceedingly fast cuts on bars, tubes and extrusions in a wide variety of metals. And they save stock, too, because of the small quantity of material removed per cut. Rockwell Production Band Saws will save you up to 50% on cuts compared with power hacksaws... even greater savings over cold saws.

Don't take our word for it. We'll prove that the Rockwell Production Band Saw Line is right for you!



MODEL 9 x 16  
NO. 20-916  
SHOWN WITH 24 VOLT  
CONTROLS AND ACCESSORY  
COOLANT SYSTEM



MODEL 7V  
NO. 20-900  
WITH ACCESSORY  
20-902 MOBILITY KIT

# ROCKWELL Horizontal BAND SAWS

The All New ROCKWELL Model 9x16 . . . uses carbon or intermediate alloy blades to provide accurate cuts in such metals as high speed steel, cast iron, Tobin bronze, aluminum, brass and other problem materials.

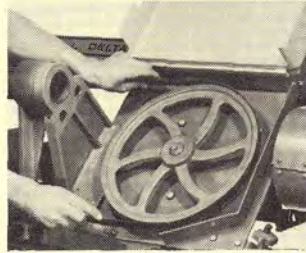
The Popular ROCKWELL Model 7V . . . it's portable . . . it's productive . . . and the price is right! This versatile band saw is well suited for use in industry, the building trades and vocational schools.

CUT COSTS! CUT WASTE! CUT TIME!

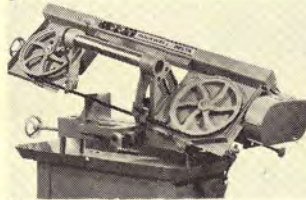


# NEW ROCKWELL 9"x16" HORIZONTAL BAND SAW

Available With Exclusive  
Rockwell LVC 24 Volt  
Control System . . .  
Standard Equipment Coolant Pan . . .  
Cuts 9" x 13" Rect. Stock at 90°  
6" x 8" at 45°



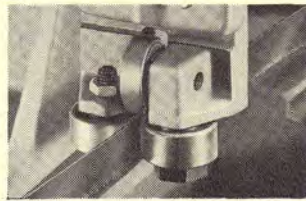
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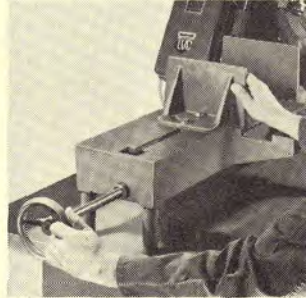
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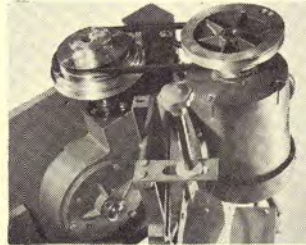
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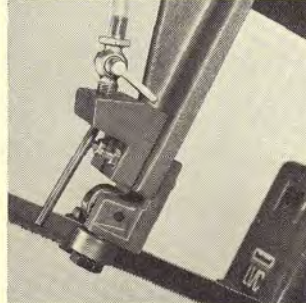
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H.



J.



K.

**A. Exclusive Rockwell 24-Volt Control System.** (Left) Only the Rockwell Delta 9 x 16 offers a low 24 volts at the push button control station for greater operator safety. Magnetic control system provides on-off control, low-voltage, no-voltage (when power is interrupted, machine can be started only by pressing start button), and motor overload protection. On three phase systems, overload protection is provided on all three legs. Note how all controls—start/stop buttons and feed dial—are grouped away from the cutting area for operator convenience and safety. (Right) The Rockwell Delta 9 x 16 also can be ordered with 115 V, single phase, toggle switch control.

**B. Fast Blade Changes; Individual Blade Guards.** Blade changes are fast and easy because they are made at the front of the machine (not the back). Separate wheel guards permit accessibility to one wheel at a time for greater convenience and safety.

**C. Husky Saw Frame.** Made of heavy structural steel and thick square tubing, frame firmly supports motor, wheels and blade guide assemblies for accurate cutting. Standard equipment coolant/chip tray has bevelled design for easy chip removal and clean-up.

**D. Blade Tension Control.** Large handwheel facilitates fast blade tensioning while scale shows degree of tension.

**E. Efficient Blade Guide System.** Saw blade rides between two sets of double row bearings that may be easily adjusted to suit blade thickness. Back-up support bearing is positioned at an angle so as to provide greater bearing support, reducing bearing wear and extending blade life.

**F. Husky Blade Guide Arms.** Two large cast iron arms rigidly support the blade guides to maintain accurate cutting performance at high cutting rates.

**G. Massive Bridge.** Correct wheel and blade alignment are maintained by the massive bridge which consists of two extra heavy cast iron supports joined by a 2 3/4" steel column.

**H. Quick-Positioning Vise.** Fully adjustable vise jaws can be swivelled for cutting at any angle from 0° to 45°. To position moveable vise jaw instantly, simply rotate control wheel counterclockwise a half turn. To tighten vise, turn wheel clockwise.

**I. On-Off Control With Automatic Shut-Off.** Machine and any accessories, such as the coolant pump, are controlled from the 24 volt switch (Left) or 115 volt toggle switch (Right) and automatically shut off when cut is completed. This provides added safety and convenience for the operator.

**J. Efficient, Powerful Drive.** The totally enclosed, fan cooled, 1 HP motor combined with a massive gear box and worm gear drive transmits ample power to the saw blade. Four-step pulley system provides speeds of 50, 125, 200 and 275 FPM.

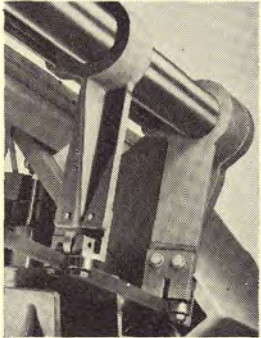
**K. Positive Coolant System.** Use of a split nozzle that straddles both sides of the blade assures a full flood of coolant over the entire blade for better cutting performance.



A.



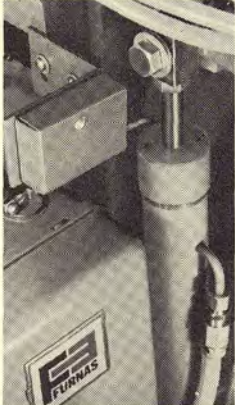
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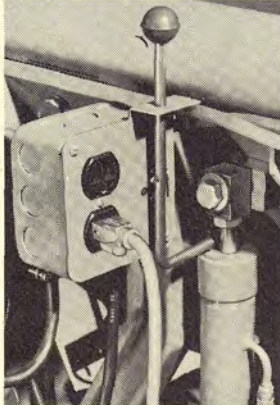
F.



G.



I. I.



# NEW ROCKWELL 9" x 16" HORIZONTAL BAND SAW



**No. 20-916 Horizontal Band Saw** Shown With 24 Volt Controls and Accessory Coolant System

**No. 20-916 Horizontal Band Saw** Shown With 115 V Controls and Accessory Coolant System

## CUTS COSTS! CUTS WASTE! CUTS TIME!

Holding costs down while increasing production is the answer to keeping competitive in today's fast moving economy. With Rockwell Delta's New 9" x 16" Horizontal Band Saw, you can do just that. This ruggedly built, precision machine will give you square, parallel, flat cuts exceptionally fast!

Using carbon or intermediate alloy blades with the proper tooth configuration and the correct coolant, it will provide accurate cuts in such metals as high speed steel, cast iron, Tobin bronze, aluminum, brass and other problem materials.

Compared to power hacksaws, the New Rockwell Delta 9 x 16 will save you up to 50% in cutting time because of the thinner kerf and much higher cutting rates produced.

Let us show you this "profit builder" in action today!

## CATALOG LISTING

**No. 20-916 Manual, Band Cut-Off Saw.** Includes Basic Machine Mounted on Steel Legs, Bar Stock Stop, Roller Guides, Chip Removal Brush, Coolant and Chip Pan. Two 4-Step Pulleys and V-Belt. Less Electricals and Coolant System. 585 lbs.

## MOTORS AND CONTROLS (Factory Mounted and Wired)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT. LBS.	CAT. NO.	CAT. NO. 200 V	CAT. NO. 575 V
Single Phase 1 Horsepower	24 V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230 V	87	52-399		
	Toggle Switch Only	TEFC	60-1725	115 V	61	52-403		
Three Phase 1 Horsepower	24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460 V	70	52-400	52-401	52-402

**NOTE:** Single phase dual voltage electricals will be supplied wired for 115 V only; may be easily changed by user to 230 V. Three phase dual voltage elec-

## MACHINE DATA

### Controls:

Toggle Switch ..... Full Voltage, 115 V, 1 Phase Only  
24 V (LVC) ..... 115/230 V, 1 Phase; 200 V, 3 Phase;  
230/460 V, 3 Phase; 575 V, 3 Phase

### Capacity:

Diameter at 90° ..... 9" (228.6 mm)  
Rect. at 90° ..... 3" x 16" (76.2 x 406.4 mm)  
9" x 13" (228.6 x 330.2 mm)  
Rect. at 45° ..... 6" x 8" (152.4 x 203.2 mm)

### Blade:

Length ..... 129" (3277 mm)  
Width ..... 3/4 or 1" (19 or 25.4 mm)  
Type ..... Hardened Back

### Drive ..... 4-Step Pulley and Worm Gear

Speed Range ..... 50, 125, 200, 275 FPM  
(15.25, 38.125, 61, 83.87 MPM)

Blade Wheels ..... 14" (355.6 mm) Diameter, Flanged, Cast Iron

Head Control ... Hydraulic Cylinder Operated by Needle Valve

Blade Guides ..... Roller and Roller Back-Up

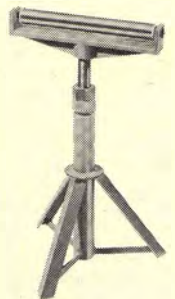
Floor Space ..... 30" x 70" (762 x 1778 mm)

Net Weight ..... 625 Lbs. (281 kg)

Shipping Weight ..... 655 Lbs. (295 kg)

## QUALITY ACCESSORIES

**No. 20-904 Bar Stock Stand**, with adjustable height for easier work handling. Roller, 10" wide; minimum height, 17 3/4"; maximum height, 30 1/2". 20 lbs.



### METAL CUTTING BAND SAW BLADES

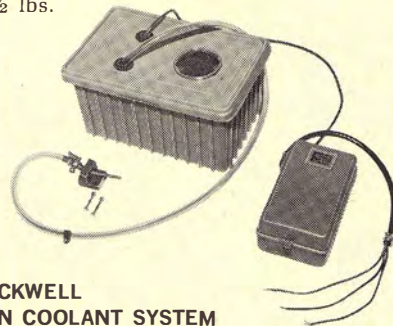
Hard-edge, flexible back blades for cutting all metals.

**No. 28-746 Saw Blade**, 3/4" wide x 129" long, 6 TPI, with raker tooth. 1 1/2 lbs.

**No. 28-747 Saw Blade**, 3/4" wide x 129" long, 10 TPI, wavy set. 1 1/2 lbs.

**No. 28-748 Saw Blade**, 3/4" wide x 129" long, 10 TPI, with raker tooth. 1 1/2 lbs.

**No. 28-749 Saw Blade**, 3/4" wide x 129" long, 8 TPI, with raker tooth. 1 1/2 lbs.



## NEW ROCKWELL 5-GALLON COOLANT SYSTEM

**No. 49-134 5-Gallon Coolant System** for 200/230/460 V, three phase. Includes submersible pump with 1/4" male outlet; 5-gallon tank with screen and baffle; 6-foot plastic hose, shut-off valve with nozzle, mounting clamp and 6-foot 3-conductor power cord, and transformer. 20 lbs.

**No. 49-136 5-Gallon Coolant System.** Same as 49-134 except for 575 V, three phase. 20 lbs.

**No. 49-137 5-Gallon Coolant System.** Same as 49-134, except for 115 V, single phase. Does not include transformer. 17 lbs.

tricals will be supplied wired for 230 V only; may be easily changed by user to 460 V.

# Rockwell Model 7V Horizontal Band Saw

## ROCKWELL QUALITY FEATURES THAT ASSURE TOP QUALITY PERFORMANCE!

**A. Rugged Saw Frame.** Made of heavy structural steel square tubing, frame firmly supports motor, wheels and blade guide assemblies for accurate cutting. Coolant and chip tray (standard equipment) has bevelled design for easy chip removal and clean-up.

**B. Fast Blade Changes: Individual Blade Guards.** With the Rockwell Delta Model 7V, blade changes are fast and easy because they are made at the front of the machine (not the back). Separate guard for each wheel permits accessibility to one wheel at a time for greater convenience and safety.

**C. Enclosed Gear Box; Roller Chain Drive.** Drive is fully enclosed to keep out coolant and harmful abrasive dust. Roller chain drive provides full, even power to drive wheel. Wheels are tapered and flanged for proper blade tracking.

**D. Efficient Blade Guide System.** Saw blade rides between roller bearings that may be easily adjusted to suit blade thickness. Back-up support bearing is positioned at an angle so as to provide greater bearing support, eliminating bearing wear and extending blade life. Husky locking mechanism firmly holds moveable guide in desired position.

**E. Chip Removal Brushes.** Entire saw blade travels between two extra wide wire brushes that efficiently remove chips from blade teeth. By preventing the re-circulation of chips, blade life is greatly extended and you also get faster, more accurate cutting.

**F. Variable Speed Drive.** The Rockwell Delta Model 7V is the only cut-off saw in its price range that has a built-in variable speed drive with a range of 80 to 200 FPM.

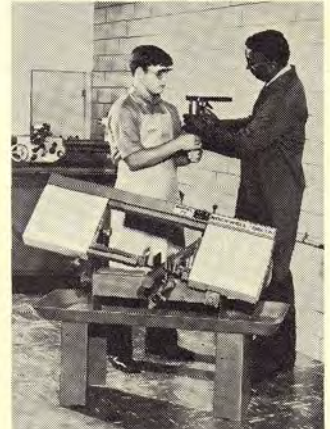
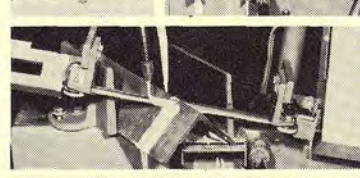
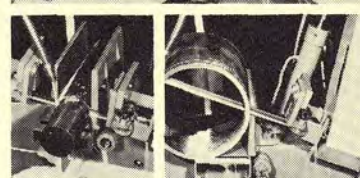
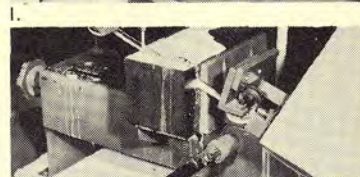
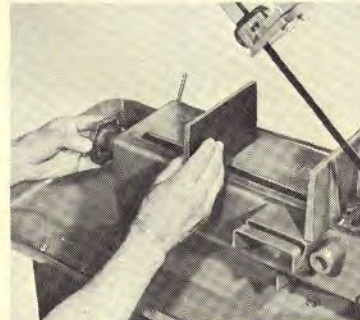
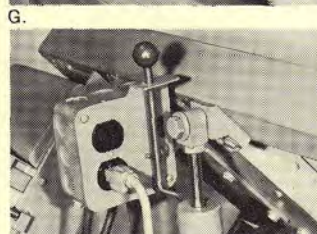
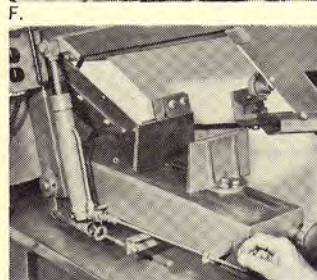
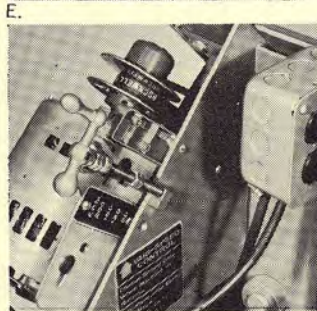
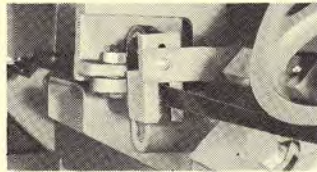
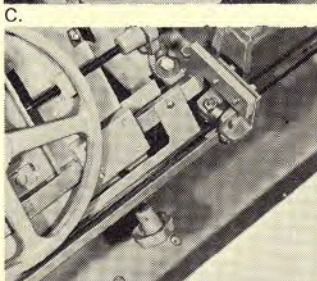
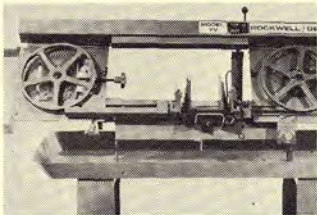
You can select the correct speed for cutting all types of metals. Furthermore, you get faster, better cuts combined with longer blade life.

**G. Feed Rate Control.** The hydraulic dash pot control enables the operator to regulate the feed rate to obtain the best possible combination of speed and feed.

**H. On-Off Control With Automatic Shut-Off.** Machine and any accessories, such as the coolant pump, are controlled from the on-off switch and automatically shut off when the cut is completed. This provides added convenience and safety for the operator.

**I. Quick-Positioning Vise.** Vise jaws are fully adjustable and can be swivelled for cutting stock at any angle from 0° to 45°. To position moveable vise jaw instantly simply rotate control knob counterclockwise a half turn. To tighten vise, turn knob clockwise.

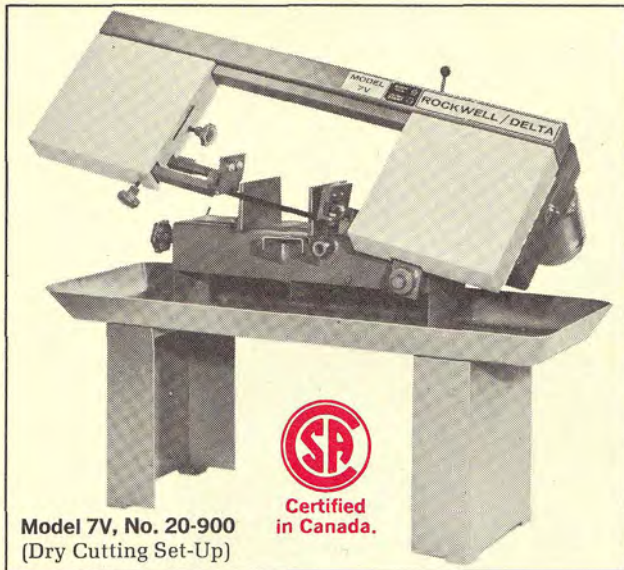
**J. Rockwell Delta's Model 7V** provides big capacity cuts on all types of stock—round and square bars, angles, tubes and plates.



Rockwell Delta's Model 7V makes cuts fast to keep programs on schedule in the school shop or laboratory.

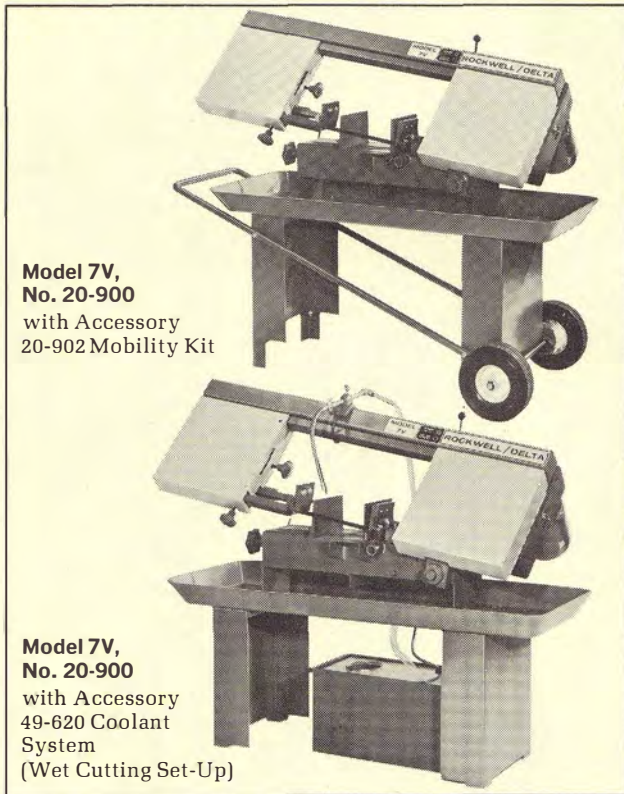


When equipped with the 20-902 Mobility Kit, the Model 7V can easily be moved on the job site to keep production moving.



**Model 7V, No. 20-900**  
(Dry Cutting Set-Up)

**SA**  
Certified  
in Canada.



**Model 7V, No. 20-900**  
with Accessory  
20-902 Mobility Kit

**Model 7V, No. 20-900**  
with Accessory  
49-620 Coolant  
System  
(Wet Cutting Set-Up)

Big capacity together with variable speed, all at an economical price, is what makes the New Rockwell Delta 7V such an outstanding value. What's more, you'll be surprised at the quality and speed of cut it will produce.

You can choose from three different model set-ups, too. There's a dry cutting model; however, if you want a wet model, you simply add the Rockwell 5-Gallon Coolant System. If you need a mobile unit for use right on the job site, you just add the Mobility Kit to the basic machine.

Now is the time to replace your hand and power hack saws with the "time cutter." Rockwell Delta's new 7V is well suited for many users—job shops, tool rooms, maintenance departments, metal fabricators, building trade contractors, vocational schools and teacher training colleges.

Let us show you how this "time cutter" can cut costs for you!

## MACHINE DATA

- Drive Motor** . . . . . 1/2 HP, 115 Volts, 1 Phase, 60 Cycle Only.  
No Other Voltages or Three Phase Motors Available For This Model.
- Coolant Pump Motor (Accessory)** . . . . . 115 Volts, 1 Phase, 60 Cycle Only. No Other Voltages or Three Phase Motors Available For This Model.  
5-Gallon Tank Capacity.
- Controls** . . . . . Toggle Switch, Full Voltage
- Capacity:**
- Diameter at 90° . . . . . 7" (177.8 mm)
  - Rect. at 90° . . . . . 7" x 10" (177.8 x 254 mm)
  - Rect. at 45° . . . . . 4 3/4 x 7" (120.6 x 177.8 mm)
- Blade:**
- Length . . . . . 95 1/2" (7 Ft. 11 1/2 In.) (232.4 mm)
  - Width . . . . . 1/2" (12.7 mm) or 5/8" (15.8 mm)
  - Type . . . . . Carbon Alloy
- Drive** . . . . . Vari-Speed Pulley With Gear Box
- Speed Range (SF/M)** . . . . . 80 to 200  
(24,384 or 609,600 Surf. MM/Min.)
- Blade Wheels** . . . . . 10" (254 mm) Diameter, Flanged, Cast Iron  
Wheels Driven by Chain and Sprocket
- Head Control** . . . . . Hydraulic Cylinder Operated by  
Needle Valve
- Saw Guides** . . . . . Roller and Roller Back-Up
- Floor Space** . . . . . 24" x 48" (609.6 x 1219.2 mm)
- Net Weight** . . . . . 200 Lbs. (90.7 Kg.)

## CATALOG LISTING

**No. 20-900 Manual, Band Cut-Off Saw—Model 7V.** Includes Basic Machine, Ready-To-Run, With 1/2 HP Motor, Toggle Switch Control, Roller Guides, Chip Removal Brushes (2), Coolant and Chip Pan, and 80 to 200 FPM Variable Speed Control. 200 lbs.

**Note:** For Wet Model Cut-Off Saw, Order 20-900 Basic Machine-Plus 49-620 5-Gallon Coolant System.

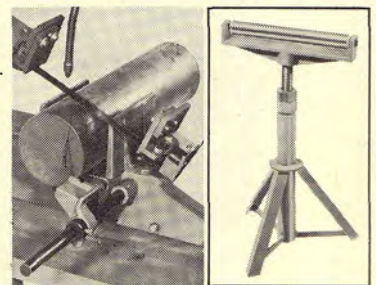
**Note:** For Mobile Cut-Off Saw, Order 20-900 Basic Machine Plus 20-902 Mobility Kit.

## ACCESSORIES

**No. 20-902 Mobility Kit.** Includes two ball bearing wheels with rubber tires, curved handle and two riser blocks for left stand. Converts Model 7V to a portable unit so that it can be taken right to the job site. 30 lbs.

**No. 20-903 Bar Stock Stop** for repetitive cut-off to same length. 3 lbs.

**No. 20-904 Bar Stock Stand,** with adjustable height for easier work handling. Roller, 10" wide; minimum height, 17 3/4"; maximum height, 30 1/2". 20 lbs.



**No. 20-949 One-Quart Can "Mobile-DTE (Light)"** dash pot oil. 2 lbs.

## METAL CUTTING BAND SAW BLADES

Regular set, hard-edge, flexible back blades for cutting all metals.

**No. 20-905 Saw Blade,** 1/2" wide, 10 TPI. 1 lb.

**No. 20-906 Saw Blade,** 5/8" wide, 10 TPI. 1 lb.

**No. 20-907 Saw Blade,** 1/2" wide, 8 TPI. 1 lb.

**No. 20-908 Saw Blade,** 5/8" wide, 8 TPI. 1 lb.

**No. 49-620 5-Gallon Coolant System** for 115 V, 60 cycle, single phase. Includes submersible pump with 1/4" male outlet, 5-gallon tank with screen and baffle, 6-foot plastic hose, flexible pipe with nozzle and valve, and 6-foot 3-conductor power cord with 3-prong 115 V grounding plug. 50 lbs.

**BLADE AND SPEED CHART**

MATERIAL	BLADE	SPEED	FEED	DEPTH	TEMP.
FERROUS	1/2"	1200	0.005	0.001	100-150
STEEL	1/2"	1200	0.005	0.001	100-150
STAINLESS	1/2"	1200	0.005	0.001	100-150
ALUMINUM	1/2"	1200	0.005	0.001	100-150
COPPER	1/2"	1200	0.005	0.001	100-150
BRASS	1/2"	1200	0.005	0.001	100-150
INCONEL	1/2"	1200	0.005	0.001	100-150
TITANIUM	1/2"	1200	0.005	0.001	100-150
MONEL	1/2"	1200	0.005	0.001	100-150
WOLFRAM	1/2"	1200	0.005	0.001	100-150
NON-FERROUS	1/2"	1200	0.005	0.001	100-150
ALUMINUM	1/2"	1200	0.005	0.001	100-150
COPPER	1/2"	1200	0.005	0.001	100-150
BRASS	1/2"	1200	0.005	0.001	100-150
INCONEL	1/2"	1200	0.005	0.001	100-150
TITANIUM	1/2"	1200	0.005	0.001	100-150
MONEL	1/2"	1200	0.005	0.001	100-150
WOLFRAM	1/2"	1200	0.005	0.001	100-150
NON-METALLIC	1/2"	1200	0.005	0.001	100-150
BRASS	1/2"	1200	0.005	0.001	100-150
INCONEL	1/2"	1200	0.005	0.001	100-150
TITANIUM	1/2"	1200	0.005	0.001	100-150
MONEL	1/2"	1200	0.005	0.001	100-150
WOLFRAM	1/2"	1200	0.005	0.001	100-150

**BLADE TYPES**

BLADE WIDTH: 1/2" 3/8" 1/4" 3/16" 1/8" 1/16"

RECOMMENDATION: IN THE CHART

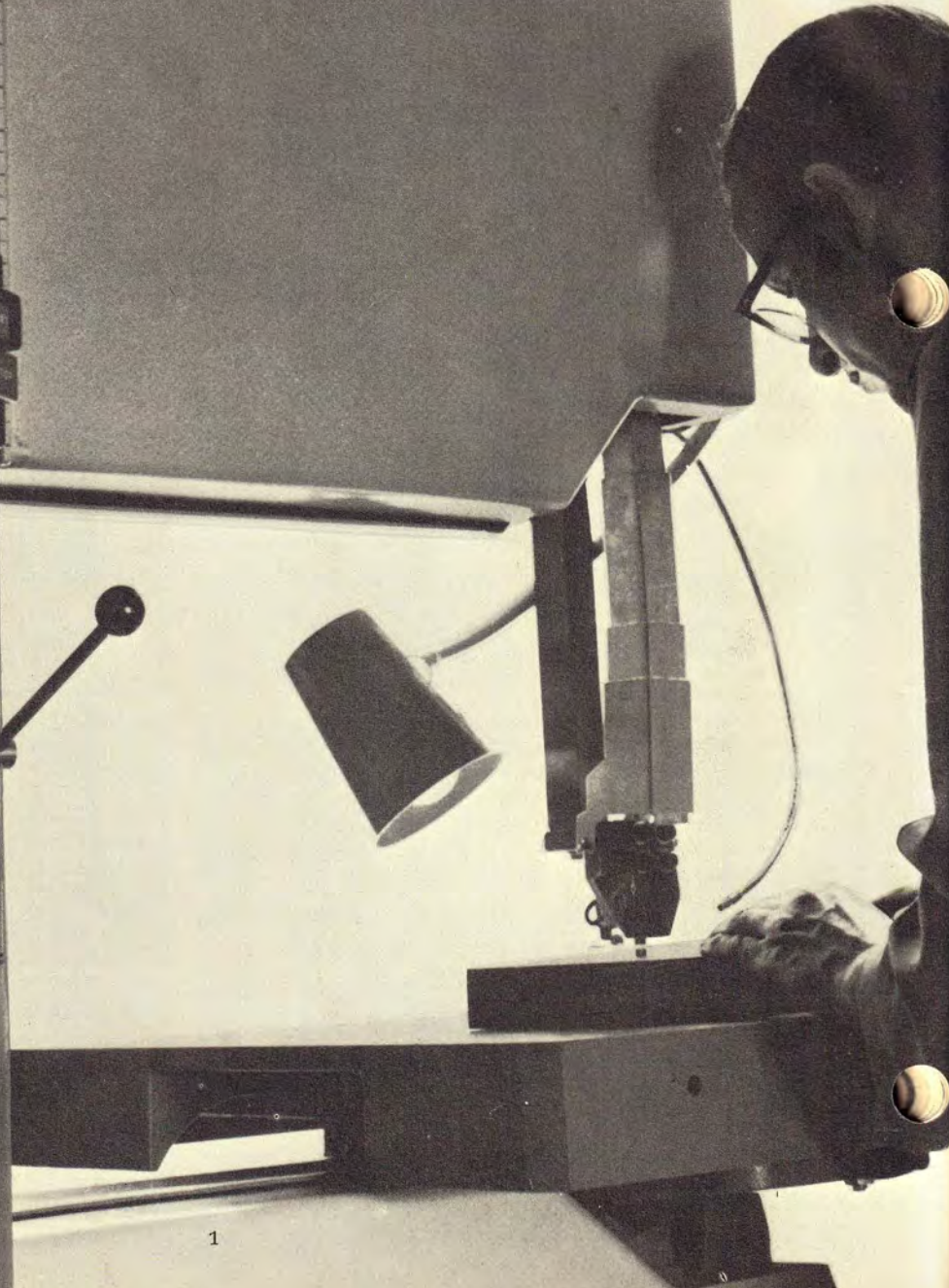
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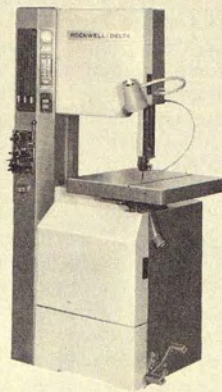
**ROCKWELL / DELTA**

**Rockwell**

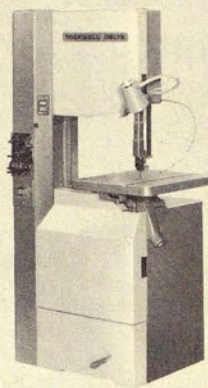
AMPERAL WELD CURRENT

WELD PRESSURE





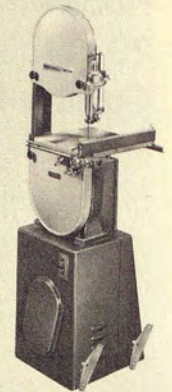
20" METAL CUTTING  
VARIABLE SPEED BAND SAW



20" WOOD/NON-FERROUS  
CUTTING BAND SAW



14" METAL CUTTING  
BAND SAW



14" WOOD CUTTING  
BAND SAW

# Better Performance!

## That's what these Rockwell Band Saws are all about!

You can count on any one of these Rockwell Delta Band Saws. Here's why. They offer many exclusive, improved features plus high quality construction throughout. Result!— you get *increased job flexibility* combined with *higher production performance*.

Take the Rockwell Delta 20" Metal Cutting Model, for example. The foot-operated speed changer lets you select the *exact speed* you require in seconds. Or consider the Delta 20" Wood/Non-Ferrous Cutting Model. Its unique "finger type" blade guides support the blade right down to the work, yet pivot away to store in place. Next, check Delta's 14" Wood Cutting Band Saw. It offers *extra safe, independently adjustable* blade guides that adjust with micrometer accuracy. Finally, consider Delta's 14" Metal Cutting Model. It lets you shift *instantly* from direct to gear drive . . . and you have a selection of eight cutting speeds.

Go for BETTER PERFORMANCE!  
Go for the entire Rockwell Delta Band Saw Team!

# Rockwell 20" Wood/Non-Ferrous Cutting Band Saw

## ROCKWELL QUALITY FEATURES

**A. Quick Change Tires.** The specially constructed, "Snap-Lock" plastic tires are precision molded of tough, wear resistant TEXIN which is not affected by oil or commercial solvents. These tires do not have to be cemented to the wheel, never need to be ground or balanced, will not come loose. They can be replaced in about 10 minutes without removing the wheels.

**B. Rugged Table Construction.** Table is a big 20" x 24 1/4" in size. Two massive trunnions, 17" apart—one on each side of the saw blade—give solid support to the table. Handy tilt scale shows exact angle of cut.

**C. Handy Blade Tension and Tracking Controls.** Facilitate accurate adjustment of both blade and wheel. Eye-level tension scale inside cabinet enables operator to select exact tension to suit the job.

**D. E. Exclusive Blade Guide Design.** Unique "finger type" blade guides support blade right down to work, yet pivot away to store in place. Lower guide supports blade to within 1/16" from table surface. Two large ball bearings provide extra rigid backup blade support. "Clear-view" protective guard keeps fingers away from blade, even when table is tilted to 45°.

**F. Telescopic Blade Guard.** Wrap-around design encloses blade from guide to upper wheel housing for maximum operator protection. Solid guide bar absorbs back thrust and is counter-balanced to hold blade guide at any position.

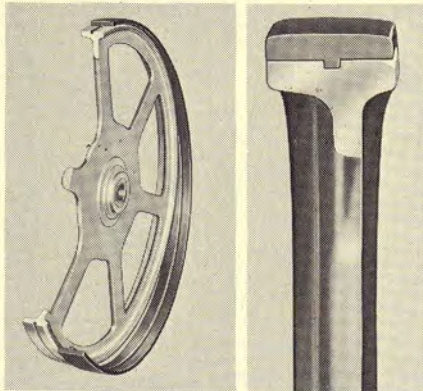
**G. Exclusive Rockwell Safety Control Station**—Shrouded, green "start" button prevents accidental starts while protruding red "stop" button is extra large for quick emergency stops. Switch cover and buttons are made of non-conductive material for added safety.

## ROCKWELL QUALITY EXTRAS

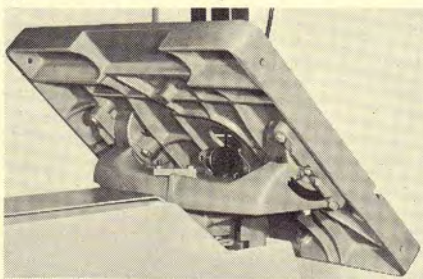
**Lightweight Aluminum Wheels,** precision balanced with rims fully machined concentric to shaft hole, guarantee smoother, safer running, even at high speeds.

**Exclusive "Locked-In" Table Insert** cannot rotate because it contains a tiny lug that engages the blade removal slot. Therefore, the insert won't get chewed up by the blade and the operator need not endanger his fingers to turn the insert to the correct position.

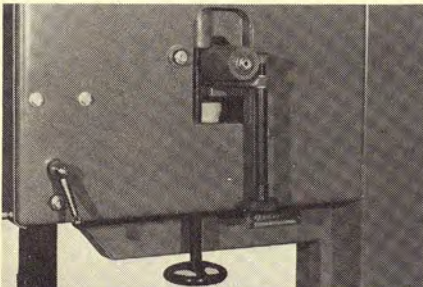
**Built-In Blade and Tire Cleaning Brushes** provide continuous cleaning action that greatly lengthens blade and tire life.



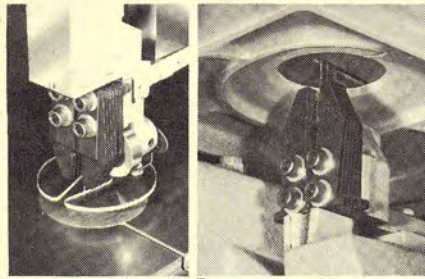
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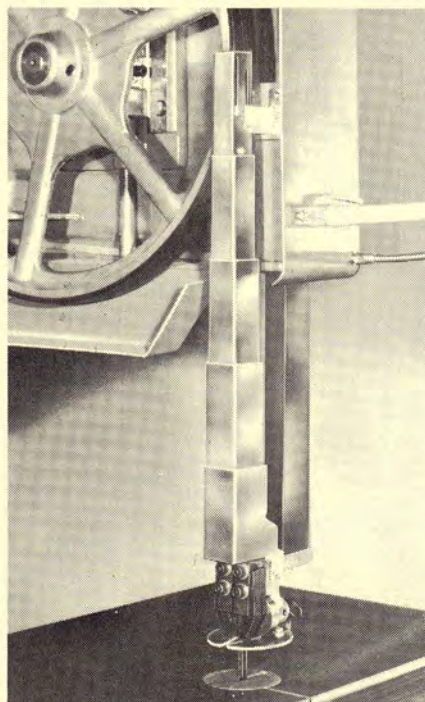


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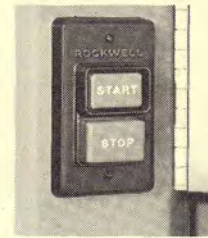


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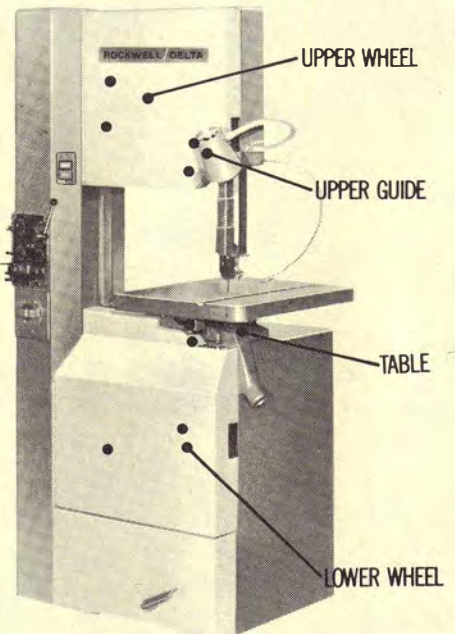
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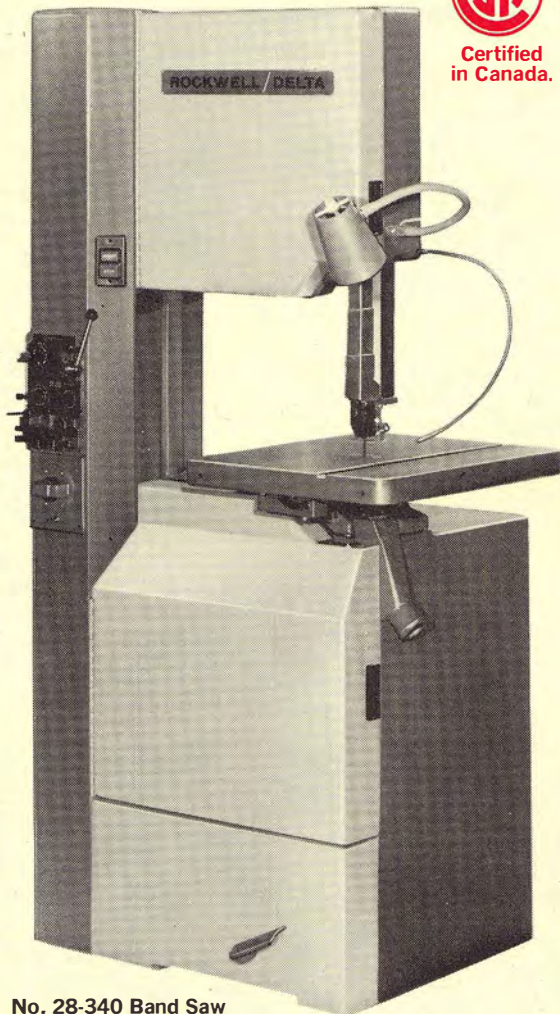


## Unique "3-Point" Adjustability.

Only Delta 20" Band Saws incorporate a "3-point" adjustability feature whereby the upper wheel, upper guide bracket, table and lower wheel can be minutely adjusted one to another. This exclusive, built-into-the-frame feature assures continued factory-adjusted machine alignment and perfect saw cuts for the life of the machine.

# ROCKWELL 20" WOOD/NON-FERROUS CUTTING BAND SAW

**No. 28-340 Basic Machine**  
and all electrical kits, except 52-439, are



**No. 28-340 Band Saw**  
Shown with Accessory 25-857 Lamp Attachment, 28-701 Blade Welder and Flash Grinder, 28-005 Blade Shear, and Electricals.

Only Rockwell Delta makes available a 2-Speed 20" Band Saw. This means you get "double duty"—a machine that offers a 4500 FPM speed for cutting wood and a 2000 FPM speed for cutting non-ferrous metals. This dual-speed range, combined with rugged construction throughout, makes this unit especially suited for use in woodworking plants, furniture factories, cabinet and pattern shops, aluminum fabricating plants and school shops.

Built for heavy duty work, this versatile band saw incorporates many of the fine features offered in the Rockwell Metal Cutting Model. That's why it will handle your toughest jobs, day after day, year-in and year-out with little or no maintenance.

Stop and see this "profit builder" in action today!

## MACHINE DATA

### Capacity:

- Blade to Column . . . . . 19<sup>3</sup>/<sub>4</sub>" (501.65 mm)
- Maximum Height Under Top Guide . . . . . 13<sup>1</sup>/<sub>2</sub>" (342.9 mm)
- Height Under Upper Wheel Guard . . . . . 12<sup>1</sup>/<sub>2</sub>" (317.5 mm)

### Table:

- Size . . . . . 20 x 24<sup>1</sup>/<sub>2</sub>" (508 x 622.3 mm)
- Front to Center of Blade . . . . . 10<sup>1</sup>/<sub>2</sub>" (266.7 mm)
- Size of Groove for Miter Gage. . . . . <sup>3</sup>/<sub>8</sub>" x <sup>3</sup>/<sub>4</sub>" (9.52 x 19.05 mm)
- Center of Blade to Rear Edge of Table . . . . . 13<sup>1</sup>/<sub>2</sub>" (342.9 mm)
- Tilts . . . . . 12° Left and 45° Right
- Trunnions . . . . . 17" (431.8 mm) Apart
- Height From Floor . . . . . 42<sup>1</sup>/<sub>2</sub>" (1079.5 mm)

### Speeds:

- With 1725 RPM Motor . . . . . 2000 and 4500 SF/M (609,600 and 1,371,600 Surf. MM/Min.)

(To obtain non-ferrous cutting speed of 2000 SF/M (609,600 Surf. MM/Min.), simply change V-belt setting on 2-speed pulley.)

### Wheels:

- Diameter (Tire Mounted) . . . . . 20<sup>1</sup>/<sub>8</sub>" (511.17 mm)
- Width . . . . . 1<sup>1</sup>/<sub>4</sub>" (31.75 mm)

### Blades:

- Length: Standard . . . . . 150" (3810 mm)
- Maximum . . . . . 151" (3835 mm)
- Minimum . . . . . 147" (3733.8 mm)
- Maximum Width . . . . . 1" (25.4 mm)

**Floor Space Required** . . . . . 30<sup>3</sup>/<sub>4</sub> x 42" (781.05 x 1066.8 mm)

### Overall Dimensions:

- Front to Rear . . . . . 30<sup>3</sup>/<sub>4</sub>" (781.05 mm)
- Left to Right . . . . . 42" (1066.8 mm)
- High . . . . . 79<sup>1</sup>/<sub>2</sub>" (2019.3 mm)

**Chip Chute Connection Diameter** . . . . . 2<sup>1</sup>/<sub>4</sub>" (57.15 mm)

### Motor Plate:

Accommodates NEMA 143T, 145T, 182T and 184T Frame Motors

### Shipping Weight (Approx.)

Less Motor and Control . . . . . 698 Lbs. (316.61 Kg.)

## STANDARD EQUIPMENT

**Basic Machine** includes 20" Wood/Non-Ferrous Cutting Band Saw with foot brake, chip chute, adjustable blade guides, "clearview" protective blade guard, blade tension indicator, <sup>3</sup>/<sub>8</sub>" blade, motor pulley and V-belt.

## CATALOG LISTING

**No. 28-340 2-Speed, 20" Wood/Non-Ferrous Cutting Band Saw**, less electricals. Includes Standard Equipment as listed. 698 lbs.

**NOTE:** See Section J7 for Band Saw Accessories.

## MOTORS AND CONTROLS (Factory Mounted and Wired)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT., LBS	CATALOG NUMBER	CAT. NO. 200V	CAT. NO. 575 V
Single Phase, 1 Horsepower	Push Button Switch Only	TEFC	60-1725	115/230	57	*52-439		
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230	61	*52-440		
Single Phase, 2 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	230	88	52-442		
	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	73	†52-445	52-448	52-451

**NOTE:** Single phase 1 HP electricals will be supplied wired for 230 V, unless 115 V is specified. Single phase dual-voltage 2 HP electricals will be supplied wired for 230 V only. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only. Motors and Motor Controls for Rockwell

Delta 20" Band Saws may be ordered unmounted. For listing, see Sections P and Q. †No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to Three Phase Cat. No. 52-445, in order to obtain 20" Band Saw with "JIC" type electricals, factory mounted and wired. \*Supplied only for woodworking applications.

# Rockwell 20" Metal Cutting Variable Speed Band Saw

## ROCKWELL QUALITY FEATURES

**A. B. Exclusive Blade Guide Design.** Unique "finger type" blade guides support blade right down to work, yet pivot away to store in place. Lower guide supports blade to within  $\frac{1}{16}$ " from table surface. Two large ball bearings provide extra rigid backup blade support. "Clear-view" protective guard keeps fingers away from blade, even when table is tilted to 45°.

**C. Telescopic Blade Guard.** Wrap-around design encloses blade from guide to upper wheel housing for maximum operator protection. Solid guide bar absorbs back thrust and is counter-balanced to hold blade guide at any position.

**D. Foot-Operated Speed Changer.** For fast speed changes. Operator simply pushes forward with toe to increase speed . . . down with heel to decrease speed. Easy-to-use control frees operator's hands for positioning work, also saves valuable production time.

**E. Exclusive Rockwell Safety Control Station**—Push buttons are color coded—green for "start" and red for "stop." Shrouded

"start" button prevents accidental starts while "stop" button is extra large for quick, emergency stops. Switch cover and buttons are made of non-conductive material for added safety.

**E. Handy Blade and Speed Chart.** Aids operator in selecting the correct blade and speed for cutting many ferrous and non-ferrous metals, also non-metallic materials such as Formica and wood. Chart also gives minimum cutting radius for different blade widths.

**E. Convenient Blade Speed Indicator.** Located at eye level for easy reading. Right-hand column indicates low, back gear blade speeds whereas left-hand column provides high, direct drive readings.

**F. Massive, Extra Rigid Table.** Scientifically ribbed, more than two-foot square table rests on two solid trunnions, spaced 17" apart. Side take-out slot for blade permits trunnion support in front of the blade, where work load is greatest. Compare this table mounting with others that have the trunnions located behind the blade which results in lengthy table overhang and inadequate support for heavy work loads.

**G. Quick Change Tires.** The specially constructed, "Snap-Lock" plastic tires are precision molded of tough, wear resistant TEXIN which is not affected by oil or commercial solvents. These tires do not have to be cemented to the wheel, never need to be ground or balanced, will not come loose. They can be replaced in about 10 minutes without removing the wheels.

**H. Protected Drive Selector.** "Hi-Lo" drive selector, for shifting transmission from direct drive to back gear, is located out of the way, inside lower cabinet. This prevents accidental shifting while blade is running.

## ROCKWELL QUALITY EXTRAS

**Unique "3-Point" Adjustability.** Only Delta 20" Band Saws incorporate a "3-point" adjustability feature whereby the upper wheel, upper guide bracket, table and lower wheel can be minutely adjusted one to another. This exclusive, built-into-the-frame feature assures continued factory-adjusted machine alignment and perfect saw cuts for the life of the machine.

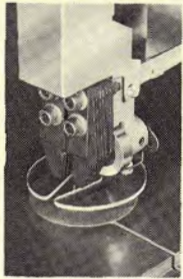
**Chip Blower** keeps cutting line free of chips for truer sawing.

**Lightweight Aluminum Wheels,** precision balanced with rims fully machined concentric to the shaft hole, guarantee smoother, safer running, even at high speeds.

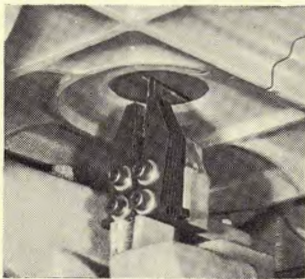
**Handy Blade Tension and Tracking Controls** facilitate accurate adjustment of both blade and wheel. Eye-level tension scale inside cabinet enables operator to select exact tension to suit the job.

**Exclusive "Locked-In" Table Insert** cannot rotate and get chewed up by the blade.

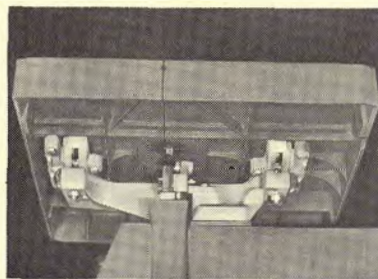
**Built-In Blade and Tire Cleaning Brushes** provide continuous cleaning action that lengthens blade and tire life.



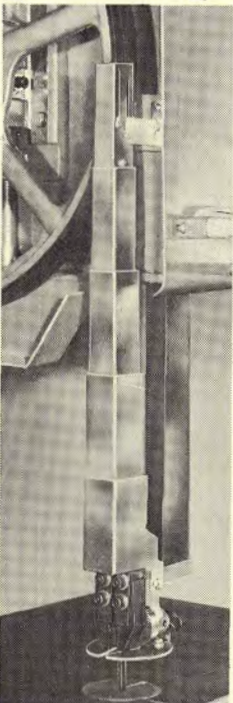
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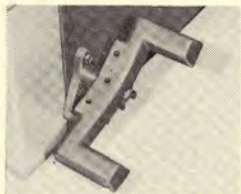
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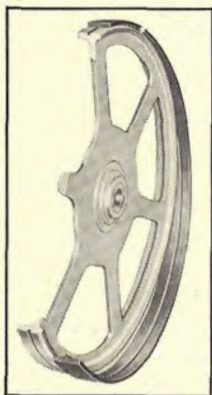
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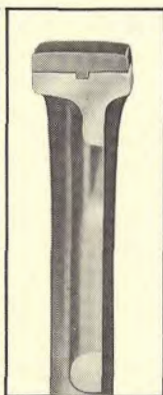
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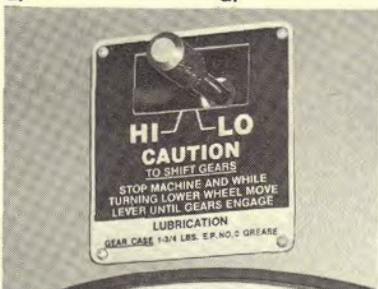
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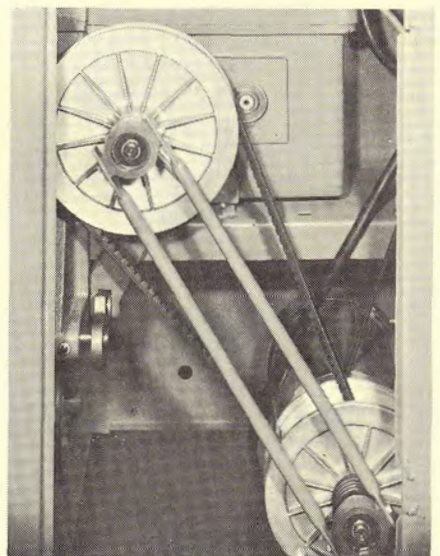
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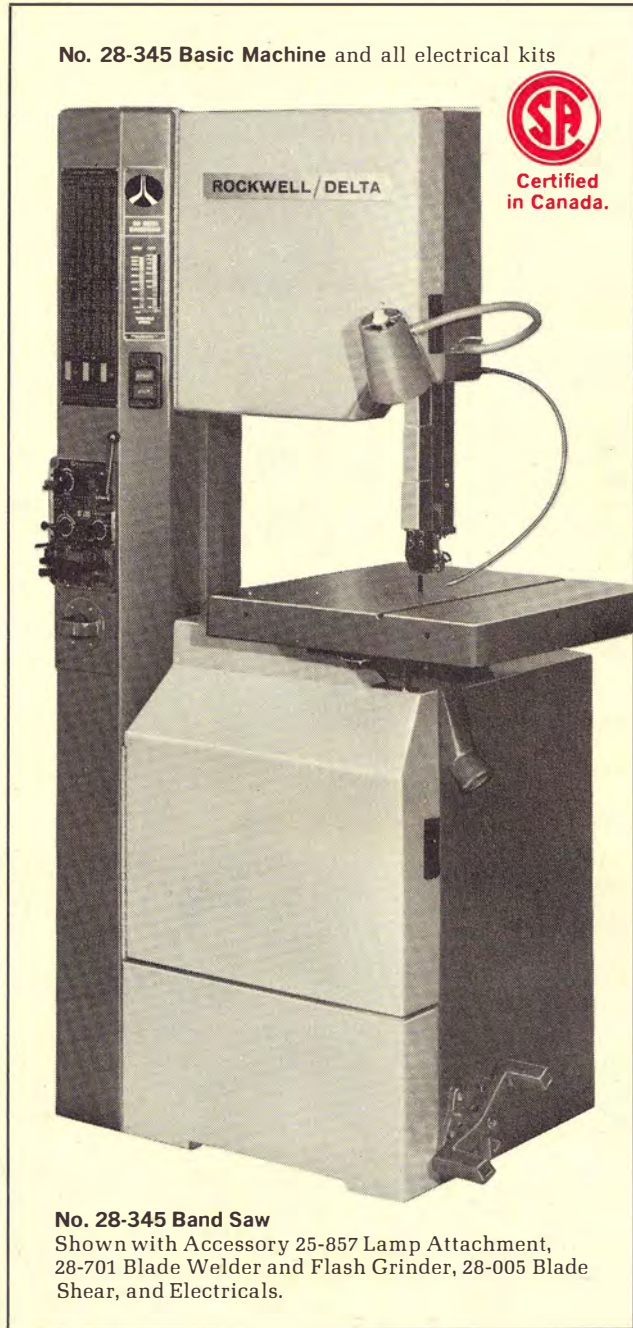
**Wide Range Variable Speed Drive.** Provides a tremendous speed range that is infinitely variable . . . 50 to 530 FPM in gear drive . . . 450 to 4500 FPM in direct drive (no blind spots) for cutting anything that can be sawed.



**Flush-Mounted Welder, Grinder and Blade Shear (Accessories).** Mounted out of the way, right in the column. Make quick, strong, high quality welds from  $\frac{1}{8}$ " to 1" wide.

# ROCKWELL 20" METAL CUTTING VARIABLE SPEED BAND SAW

No. 28-345 Basic Machine and all electrical kits



**No. 28-345 Band Saw**  
Shown with Accessory 25-857 Lamp Attachment, 28-701 Blade Welder and Flash Grinder, 28-005 Blade Shear, and Electricals.

This Rockwell 20" Variable Speed Band Saw has no equal! Why? Because it has unique "finger type" blade guides that guarantee better blade support for more accurate sawing. The extra wide variable speed drive, that provides a range of 50 to 4500 FPM, lets you saw everything from stainless steel to wood. And the foot-operated speed changer helps you make speed changes fast, while your hands are free to position the work.

These are just a few reasons why this unit is suited for all types of users—tool rooms, machine shops, foundries, pattern shops, vocational and technical schools.

But don't take our word for it. Let us prove the capabilities of this great Rockwell Band Saw by giving you a "proof-by-performance" test today!

## MACHINE DATA

### Capacity:

- Blade to Column ..... 19<sup>3</sup>/<sub>4</sub>" (501.65 mm)
- Maximum Height Under Top Guide ..... 12<sup>1</sup>/<sub>2</sub>" (317.5 mm)
- Height Under Upper Wheel Guard ..... 12<sup>1</sup>/<sub>2</sub>" (317.5 mm)

### Table:

- Size ..... 3 x 24<sup>1</sup>/<sub>4</sub> x 24<sup>1</sup>/<sub>4</sub>" (76.2 x 615.95 x 615.95 mm)
- Front to Center of Blade ..... 10<sup>1</sup>/<sub>2</sub>" (266.7 mm)
- Size of Groove For Sliding Jig ... <sup>3</sup>/<sub>8</sub> x <sup>3</sup>/<sub>4</sub>" (9.52 x 19.05 mm)
- Center of Groove to Blade ..... 4<sup>1</sup>/<sub>8</sub>" (104.77 mm)
- Tilts ..... 12° Left and 45° Right
- Height From Floor ..... 42<sup>1</sup>/<sub>2</sub>" (1079.5 mm)

### Speeds (With 1725 RPM Motor):

- Infinite Choice of Speeds
- in Gear Drive ..... 50 to 530 SF/M  
(15,240 to 161,544 Surf. MM/Min.)
- Infinite Choice of Speeds
- in Direct Drive ..... 450 to 4500 SF/M  
(137,160 to 1,371,600 Surf. MM/Min.)

### Wheels:

- Diameter (Tire Mounted) ..... 20<sup>1</sup>/<sub>8</sub>" (511.17 mm)
- Width ..... 1<sup>1</sup>/<sub>4</sub>" (31.75 mm)

### Blades:

- Length: Standard ..... 150" (3810 mm)
- Maximum ..... 151" (3835 mm)
- Minimum ..... 147" (3733.8 mm)
- Maximum Width ..... 1" (25.4 mm)

**Floor Space Required** ..... 30<sup>3</sup>/<sub>4</sub> x 44" (781.05 x 1117.6 mm)

### Overall Dimensions:

- Front to Rear ..... 30<sup>3</sup>/<sub>4</sub>" (781.05 mm)
- Left to Right ..... 44" (1117.6 mm)
- High ..... 79<sup>1</sup>/<sub>2</sub>" (2019.3 mm)

**Chip Chute Connection Diameter** ..... 2<sup>1</sup>/<sub>4</sub>" (57.15 mm)

### Motor Plate:

Accommodates NEMA 143T, 145T, 182T and 184T Frame Motors

### Shipping Weight (Approx.)

Less Motor and Control ..... 826 Lbs. (374.67 Kg.)

## STANDARD EQUIPMENT

**Variable Speed Drive** complete with belts and pulleys, counter-balance for upper blade guide, "clear-view" protective blade guard, chip blower, chip chute, chip removal brushes (2), blade and speed chart, and one blade (1/2", 18 teeth, metal cutting).

## CATALOG LISTING

\*No. 28-345 20" Metal Cutting Variable Speed Band Saw, less electricals. Includes Standard Equipment as listed. 826 lbs.

\*NOTE: Shipped only with motor and motor control which are factory mounted and wired.

NOTE: See Section J7 for Band Saw Accessories.

## MOTORS AND CONTROLS (Factory Mounted and Wired)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT., LBS	CATALOG NUMBER	CAT. NO. 200V	CAT. NO. 575 V
Single Phase, 2 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	230	88	52-442		
Three Phase, 2 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	73	†52-445	52-448	52-451

NOTE: Single phase electricals will be supplied wired for 230 V only. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only. †No.

49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to Three Phase Cat. No. 52-445, in order to obtain 20" Band Saw with "JIC" type electricals, factory mounted and wired.

# Rockwell 14" Wood Cutting Band Saw

## ROCKWELL QUALITY FEATURES

**A. Smooth Running Wheels**—Light weight aluminum wheels are precision balanced with rims fully machined concentric with the shaft hole, for smooth running. Recess in rim eliminates use of messy cement—makes tire changing easy.

**B. Superior Upper Blade Guide Construction**—Upper guide has separate, safe, remote control micrometer adjustments for ball bearing blade support and blade guide blocks. Guides and blade supports adjust independently.

**C. Precision Lower Blade Guides**—Lower blade guides have safe, accurate, remote control micrometer adjustment. Lower guides support blade to within  $\frac{3}{4}$ " of table work surface—assure accurate cutting.

**D. Special Table Stop**—Adjustable sleeve provides positive stop for table at level

position. Can be removed for a 10° left tilt. Table tilts full 45° to the right.

**E. Specially Designed Table**—Side take-out slot for blade permits use of solid front trunnion (not split for blade removal) located directly under work load. Rip fence guide rails need not be removed when changing blades.

**F. Exact Tension Blade Scale**—Direct reading scale on blade tension adjustment shows correct tension for different blade widths. Scale readings are not affected by variable blade lengths.

**G. Exclusive "Locked-In" Table Insert Cannot Rotate** because there is a slot in the insert which meshes with a pin in the table. Therefore, the insert won't get chewed up by the blade and the operator need not endanger his fingers to turn the insert to the correct position.

**H. Exclusive Rockwell 24-Volt Safety Control System**—Only Rockwell 14" Wood Cutting Band Saws offer a low 24 volts at the push button control station for extra operator safety. Magnetic control system provides on-off control, low-voltage, no-voltage (when power is interrupted, machine can be started only by pressing start button), and motor overload protection. On three phase systems, overload protection is provided on all three legs. Shrouded green "start" button prevents accidental starts while protruding red "stop" button is extra large for quick, emergency stops. Switch cover and buttons are made of non-conductive material for added safety.

## ROCKWELL QUALITY EXTRAS

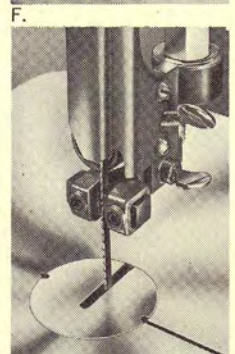
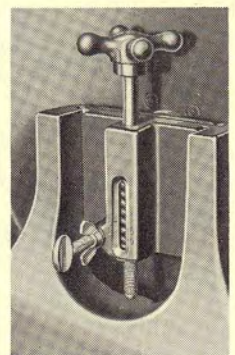
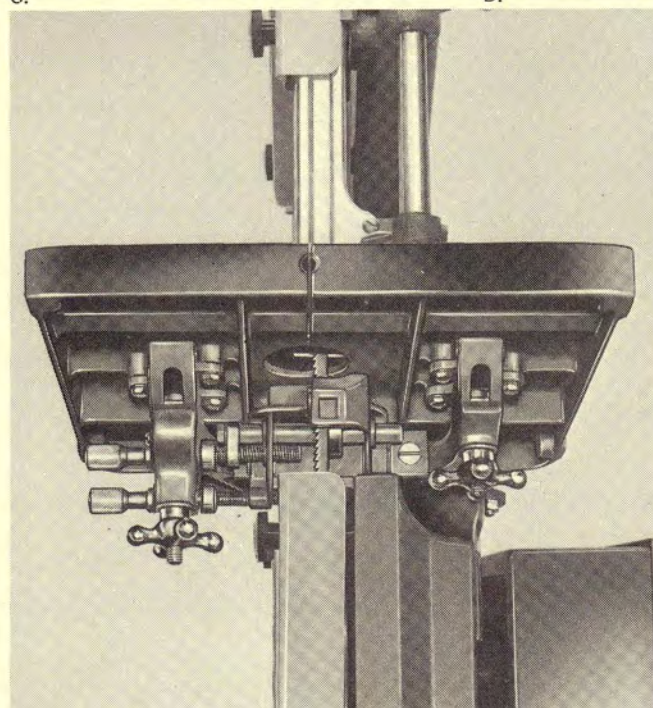
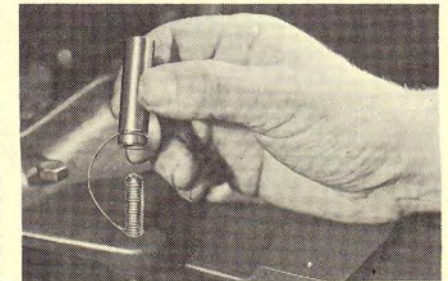
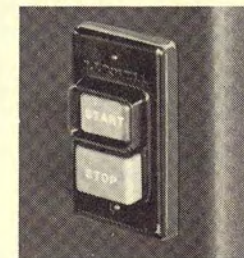
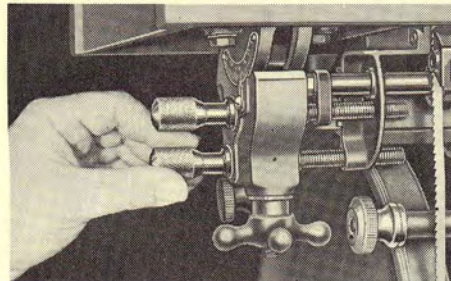
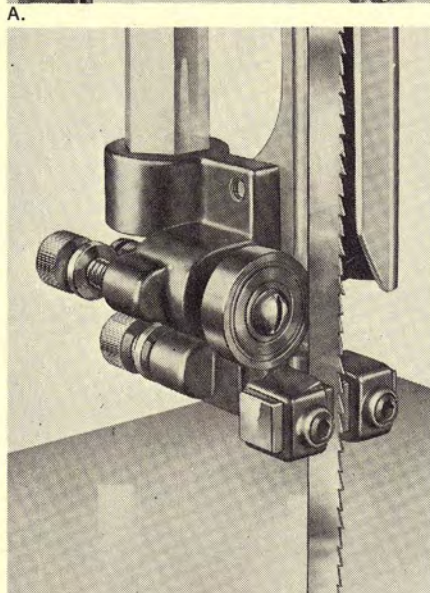
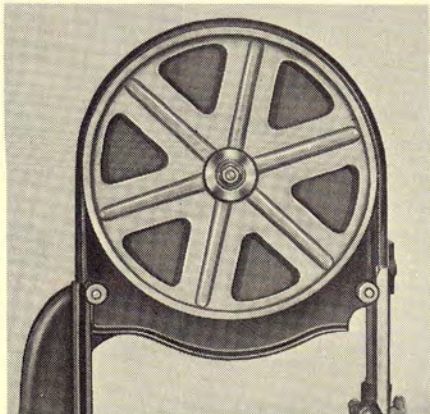
**Double-Sealed, Lubricated-For-Life Ball Bearings** for upper and lower wheels and blade supports insure many years of trouble-free performance.

**Upper and Lower Wheels** are completely guarded. All portions of blade are enclosed and guarded except portion actually cutting material.

**Rugged 14x14" Table** has a  $\frac{3}{8}$ x $\frac{3}{4}$ " miter gage groove. Machined for rip fence. Widely spaced double trunnions and heavy ribbing provide rigid support for work.

**Guides** are finest type ever offered. Each adjusts independently of the other, also adjusts with micrometer accuracy. Guide pins can be set to blade teeth without disturbing the setting of the blade supports; blade supports can be set without altering adjustment of guide pins. Ball bearing blade supports are reversible and double-sealed.

**Aluminum Wheels** are carefully balanced for true running, also rimmed for proper mounting of tire.



# ROCKWELL 14" WOOD CUTTING BAND SAW



**14" Wood Cutting Band Saw**  
Shown on Enclosed Steel Stand With Accessory Rip Fence, Lamp Attachment, Retractable Casters and Electricals.

**ALSO MADE IN CANADA**

## A Versatile Production Saw That's Ideal for Every Shop!

This low-cost Rockwell 14" Wood Cutting Band Saw is well suited for the school shop, cabinet shop, furniture factory, pattern shop, sign and display shop, maintenance department and many other installations. It's ideal for contour cutting, straight cutting or resawing (especially with the No. 28-984 Height Attachment) of a wide variety of materials.

Economical in price, it comes equipped with a standard blade for wood cutting. When desired, the machine can be used with skip tooth blades for cutting wood, plastic, building materials, bakelite, non-ferrous metals such as aluminum and copper, and similar stock.

*Investigate this widely-used Band Saw today!*

## MACHINE DATA

### Overall Dimensions:

Height (On Stand) .....65<sup>1</sup>/<sub>2</sub>" (1663.7 mm)  
Width .....25" (635 mm)  
Front to Rear .....17<sup>1</sup>/<sub>2</sub>" (444.5 mm)

### Capacities:

Blade to Frame .....13<sup>3</sup>/<sub>4</sub>" (349.2 mm)  
Under Guide and Wheel .....6<sup>1</sup>/<sub>4</sub>" (158.7 mm)  
Under Guide and Wheel  
(With 28-984 Height Attachment) .....12<sup>1</sup>/<sub>4</sub>" (311.1 mm)

### Speeds:

With 1725 RPM Motor . . .3000 SF/M (914,400 Surf. MM/Min.)

### Table:

Size .....14 x 14" (355.6 x 355.6 mm)  
Groove .....<sup>3</sup>/<sub>8</sub>" (9.5 mm) Deep by <sup>3</sup>/<sub>4</sub>" (19.05 mm) Wide  
Tilt to Right.....45°; to Left .....10°  
Height From Floor .....42<sup>3</sup>/<sub>4</sub>" (1085.8 mm)

### Blade:

Width: Maximum .....<sup>3</sup>/<sub>4</sub>" (19.05 mm)  
Length: Maximum .....94" (2387.6 mm)  
Minimum .....91<sup>1</sup>/<sub>2</sub>" (2324.1 mm)  
Standard .....93<sup>1</sup>/<sub>2</sub>" (2374.9 mm)  
Length (With 28-984 Height Attachment):  
Maximum .....106" (2692.4 mm)  
Minimum .....103<sup>1</sup>/<sub>2</sub>" (2628.9 mm)  
Standard .....105" (2667 mm)

## STANDARD EQUIPMENT

**Basic Machine Without Stand:** includes wheel and blade guards, 6" arbor pulley, 49-173 V-belt, 41-033 motor pulley (<sup>5</sup>/<sub>8</sub>" bore), blade guides and No. 28-034 (old 1034) wood cutting blade.

## CATALOG LISTING

**No. 28-200 Basic Machine Without Stand:** 14" Wood Cutting Band Saw with wheel and blade guards, 6" arbor pulley, 49-173 V-belt, 49-033 motor pulley (with <sup>5</sup>/<sub>8</sub>" bore), blade guides and 28-034 (old 1034) wood cutting blade. Without stand, motor or switch. 144 lbs.

**No. 50-122 Enclosed Steel Stand.** Includes 50-139 basic stand, 50-136 motor plate and 50-135 belt guard. 54 lbs.

**NOTE: See Section J7 for Band Saw Accessories.**

## ENCLOSED STEEL STAND WITH BELT GUARD, MOTOR AND CONTROLS (Factory Mounted and Wired)

**NOTE:** Enclosed Steel Stands With Electricals Can Be Ordered Either With Or Without the Basic No. 28-200 14" Band Saw.

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER	CAT. NO. 200V
Single Phase, <sup>1</sup> / <sub>2</sub> Horsepower	Push Button Switch Only	TEFC	60-1725	115/230	80	49-963	
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230	81	49-964	
Three Phase, <sup>1</sup> / <sub>2</sub> Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	94	49-972	52-113

**NOTE:** Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only. Motors and Motor Controls for Rockwell Delta 14" Band Saws may

be ordered unmounted. For listing, see Sections P and Q. †No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to Three Phase Cat. No. 49-972, in order to obtain 14" Band Saw with "JIC" type electricals, factory mounted and wired.

## Special 14" Band Saw All-Inclusive Listing

**No. 28-230 14" Band Saw With Enclosed Steel Stand, Belt Guard, Motor and Switch (Mounted and Wired in Stand):** Includes 28-200 basic machine with 50-122 stand; wheel, blade and belt guards; 6" arbor pulley; 49-173 V-belt; 41-033 motor pulley (with <sup>5</sup>/<sub>8</sub>" bore); blade guides; 28-034 wood cutting blade; 62-010 <sup>1</sup>/<sub>2</sub> HP single phase motor and push button switch. 224 lbs.

# Rockwell 14" Metal Cutting Band Saw

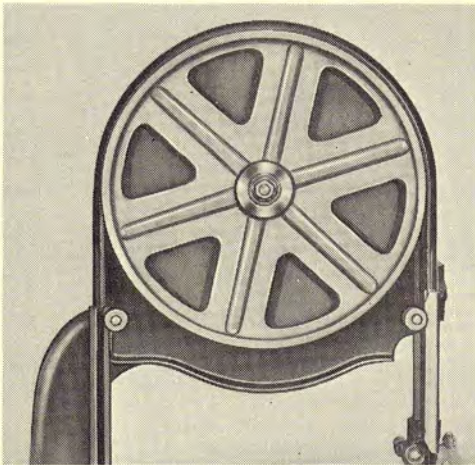
## ROCKWELL QUALITY FEATURES

- A. Modernly Constructed Wheels**—Light weight aluminum wheels are precision balanced with rims fully machined concentric with the shaft hole, for smooth running. Recess in rim eliminates use of messy cement—makes tire changing easy.
- B. Safe, Accurate Upper Blade Guides**—Upper guide has separate, safe, remote control micrometer adjustments for ball bearing blade support and blade guide blocks. Guides and blade supports adjust independently.

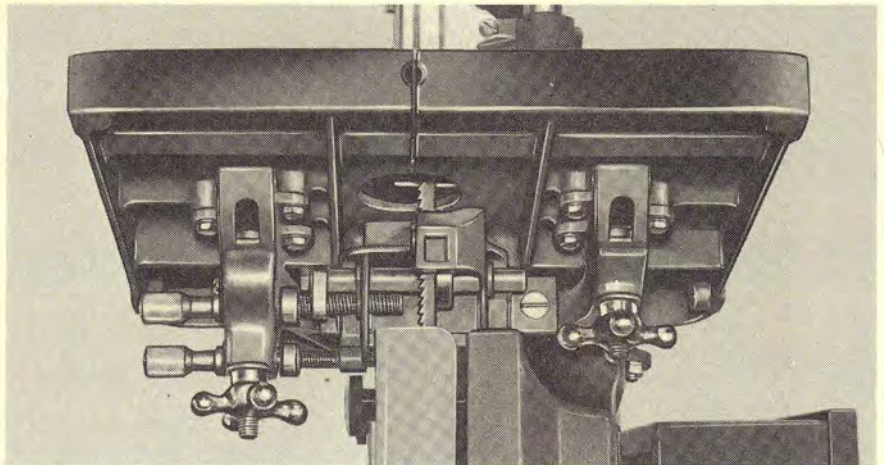
- C. Up-Front, Precision Lower Blade Guides**—Lower blade guides have safe, accurate, remote control micrometer adjustment. Lower guides support blade to within  $\frac{3}{4}$ " of table work surface—assure accurate cutting.
- D. Special Table Stop**—Adjustable sleeve provides positive stop for table at level position. Can be removed for a 10° left tilt. Table tilts full 45° to right.
- E. Superior Table Features**—Side take-out slot for blade permits use of solid front trunnion (not split for blade removal) located directly under work load. Rip fence guide rails need not be removed when changing blades.
- F. Exact Tension Blade Scale**—Direct reading scale on blade tension adjustment shows correct tension for different blade widths. Scale readings are not affected by variable blade lengths.
- G. Exclusive "Locked-In" Table Insert Cannot Rotate** because there is a slot in the insert which meshes with a pin in the table. Therefore, the insert won't get chewed up by the blade and the operator need not endanger his fingers to turn the insert to the correct position.

## ROCKWELL QUALITY EXTRAS

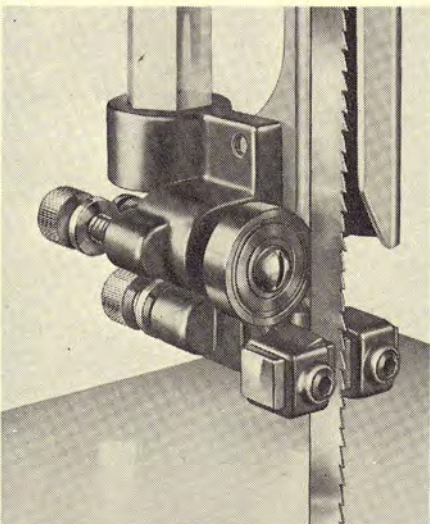
- Double-Sealed, Lubricated-For-Life Ball Bearings** for upper and lower wheels and blade supports and all shafts of back gear unit insure many years of trouble-free performance.
- Upper and Lower Wheels** completely guarded. All portions of blade enclosed and guarded except portion actually cutting material.
- Rugged 14x14" Table** has a  $\frac{3}{8} \times \frac{3}{4}$ " miter gage groove. Machined for rip fence. Widely spaced double trunnions and heavy ribbing provide rigid support for work.
- Guides** are finest type ever offered. Each adjusts independently of the other, also adjusts with micrometer accuracy. Guide pins can be set to blade teeth without disturbing the setting of the blade supports; blade supports can be set without altering adjustment of guide pins. Ball bearing blade supports are reversible and double-sealed.
- Aluminum Wheels** are carefully balanced for true running, also rimmed for proper mounting of tire.



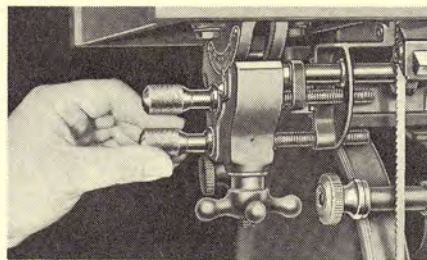
A.



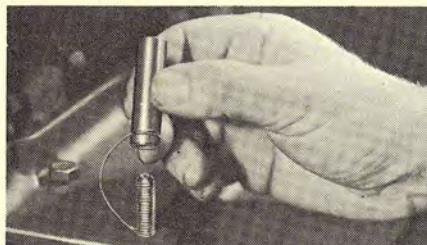
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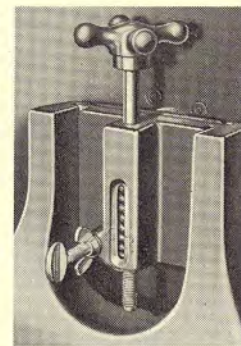
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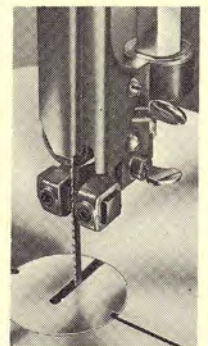
C.



D.

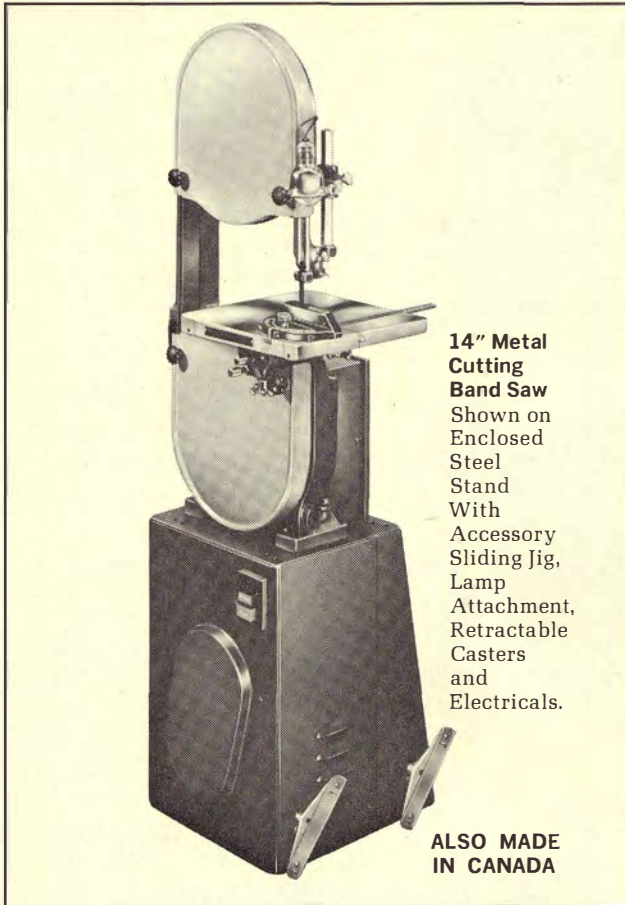


F.



G.

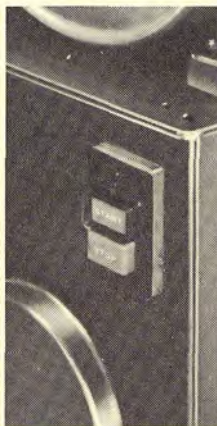
# ROCKWELL 14" METAL CUTTING BAND SAW



**14" Metal Cutting Band Saw**  
Shown on Enclosed Steel Stand With Accessory Sliding Jig, Lamp Attachment, Retractable Casters and Electricals.

**ALSO MADE IN CANADA**

**Exclusive Rockwell 24-Volt Safety Control System**—Only Rockwell 14" Metal Cutting Band Saws offer a low 24 volts at the push button control station for extra operator safety. Magnetic control system provides on-off control, low-voltage, no-voltage (when power is interrupted, machine can be started only by pressing start button), and motor overload protection. On three phase systems, overload protection is provided on all three legs. Shrouded green "start" button prevents accidental starts while protruding red "stop" button is extra large for quick, emergency stops. Switch cover and buttons are made of non-conductive material for added safety.



## STANDARD EQUIPMENT

**Basic Machine Without Stand:** includes wheel and blade guards, 7" arbor pulley for wood cutting, No. 41-724 4-step arbor pulley ( $\frac{3}{4}$ " bore) for metal cutting,  $\frac{3}{8}$ " to  $\frac{5}{8}$ " reducing bushing for  $\frac{3}{4}$ " bore 4-step motor pulley, 49-111 (set of 2) matched V-belts, 41-714 motor pulley ( $\frac{3}{4}$ " bore), blade guides and No. 28-062 metal cutting blade.

## ENCLOSED STEEL STAND WITH BELT GUARD, MOTOR AND CONTROLS (Factory Mounted and Wired)

**NOTE:** Enclosed Steel Stands With Electricals Can Be Ordered Either With Or Without the Basic No. 28-300 14" Band Saw.

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER	CAT. NO. 200V
Single Phase, ½ Horsepower	Push Button Switch Only	TEFC	60—1725	115/230	80	49-963	
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60—1725	115/230	81	49-964	
Three Phase, ½ Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60—1725	230/460	94	49-972	52-113

**NOTE:** Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only. Motors and Motor Controls for Rockwell Delta 14" Band Saws may

This Rockwell 14" Metal Cutting Band Saw gives you eight cutting speeds—40 to 3000 FPM—using a standard motor. This means that you get the lowest band saw speed in the industry—40 FPM. You get a choice of any of these eight speeds—40, 60, 85, 115, 160, 220 or 335 FPM for metal cutting and a high speed of 3000 FPM for wood cutting. You can cut stainless steel, armor plate, high speed steel, alloy steel, cast iron, transite and such other materials as woods and plastics.

This popular Rockwell Band Saw incorporates a modern drive with a clutch that permits instant changes from direct to gear drive (or vice versa) by the simple shift of a knob. V-belts are not disturbed.

You can use this low-cost unit to handle both wood and metal cutting jobs in school shops, tool rooms, foundries and all shops that have the problem of cutting a wide variety of materials.

## MACHINE DATA

### Overall Dimensions:

Height (On Stand)	65½" (1663.7 mm)
Width	25" (635 mm)
Front to Rear	17½" (444.5 mm)

### Capacities:

Blade to Frame	13¾" (349.2 mm)
Under Guide and Wheel	6¼" (158.7 mm)
Under Guide and Wheel (With 28-984 Height Attachment)	12¼" (311.1 mm)

### Speeds:

With 1725 RPM Motor	40, 60, 85, 115, 160, 220, 335, 3000
SF/M	(12,192; 18,288; 25,908; 35,052; 48,768; 67,056; 102,108; 914,400 Surf. MM/Min.)

### Table:

Size	14 x 14" (355.6 x 355.6 mm)
Groove	⅜" (9.5 mm) Deep by ¾" (19.05 mm) Wide
Tilt to Right	45°; to Left 10°
Height From Floor	42¾" (1085.8 mm)

### Blade:

Width: Maximum	¾" (19.05 mm)
Length: Maximum	.94" (2387.6 mm)
Minimum	.91½" (2324.1 mm)
Standard	.93½" (2374.9 mm)
Length (With 28-984 Height Attachment):	
Maximum	1.06" (2692.4 mm)
Minimum	1.03½" (2628.9 mm)
Standard	1.05" (2667 mm)

## CATALOG LISTING

**No. 28-300 Basic Machine Without Stand:** 14" Metal Cutting Band Saw with wheel and blade guards, 7" arbor pulley for wood cutting, 41-724 4-step arbor pulley, (with  $\frac{3}{4}$ " bore), for metal cutting,  $\frac{3}{8}$ " to  $\frac{5}{8}$ " reducing bushing for motor pulley, 49-111 (set of two) matched V-belts, 41-714 4-step motor pulley (with  $\frac{3}{4}$ " bore), blade guides and 28-062 metal cutting blade. Without stand, motor or switch. 168 lbs.

**No. 50-122 Enclosed Steel Stand.** Includes 50-139 basic stand, 50-136 motor plate and 50-135 belt guard. 54 lbs.

**NOTE:** See Section J7 for Band Saw Accessories.

be ordered unmounted. For listing, see Sections P and Q. **No. 49-000 "JIC" Type Control Kit.** Specify this Catalog Number, in addition to Three Phase Cat. No. 49-972, in order to obtain 14" Band Saw with "JIC" type electricals, factory mounted and wired.

# ROCKWELL BAND SAW ACCESSORIES

## ACCESSORIES FOR 14" WOOD CUTTING BAND SAW

No. 41-033 Motor Pulley, 2 $\frac{3}{4}$ " diameter,  $\frac{3}{8}$ " bore.  $\frac{1}{2}$  lb.

No. 49-173 V-Belt, 57 $\frac{1}{8}$ " O.C.

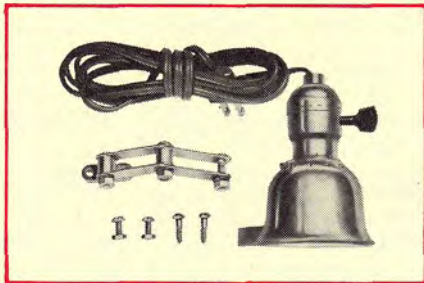
## ACCESSORIES FOR 14" METAL CUTTING BAND SAW

No. 41-713 Motor Pulley, 4-step,  $\frac{5}{8}$ " bore. 1 lb.

No. 49-111 V-Belts, matched set of two, 41" and 58 $\frac{5}{8}$ " O.C.

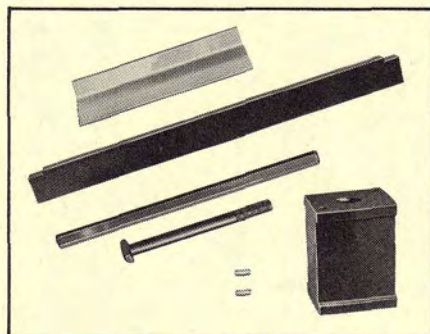
## ACCESSORIES FOR 14" BAND SAWS

No. 50-122 Enclosed Steel Stand. Includes 50-139 basic stand, 50-136 motor plate and 50-135 belt guard. 54 lbs.

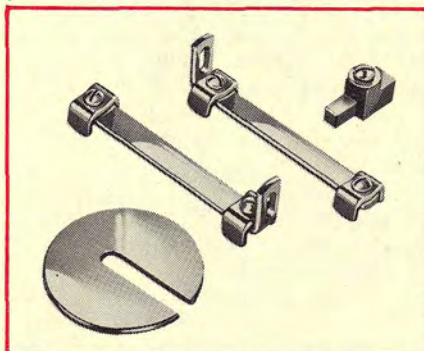


No. 40-882 (old 882) Lamp Attachment—Uses standard 15 or 25-watt bulb (not included). Includes mounting bracket, shade, socket and 115 V 8-foot cord with plug. 1 $\frac{1}{2}$  lbs.

Height Attachment—Increases capacity of 14" Band Saw from 6 $\frac{1}{4}$ " to 12 $\frac{1}{4}$ " under the guide. Add at any time. Needs 105" blades.



No. 28-984 (old 894) Height Attachment with cast block, dowels and bolt, extension front blade guard, wood back blade guard. 12 lbs.

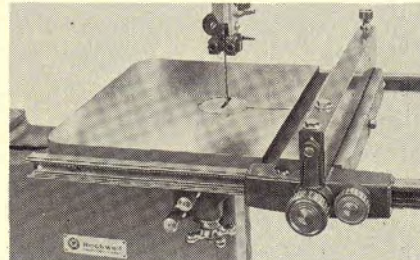


No. 28-810 Sanding Attachment—Includes flat and curved platens with guides and mounting brackets. 1 lb.



No. 28-836 Sanding Belt—Garnet type, five, No. 80 grit, fine,  $\frac{1}{2}$ " wide, 91" long. 1 lb.

No. 28-837 Sanding Belt—Garnet type, five, No. 40 grit, medium,  $\frac{1}{2}$ " wide, 91" long. 1 lb.



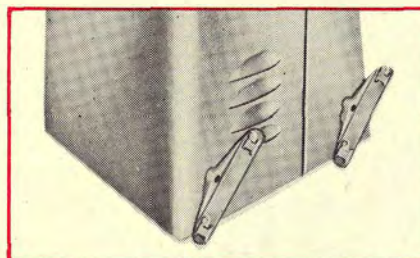
No. 28-843 Rip Fence—With 18" guide bars and mounting screws. 13 lbs.

No. 28-845 Rip Fence—With 32" guide bars and mounting screws. 10 lbs.

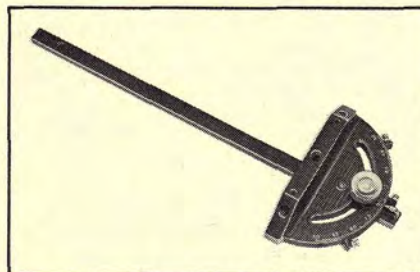
## RETRACTABLE CASTER SETS

Make your Rockwell Delta Band Saws mobile and increase their usefulness to your operation.

With Delta Retractable Casters on your machines, you can easily wheel them about your plant or shop—right to the job site. 13 lbs.



No. 50-111 Retractable Caster Set—For 50-122 enclosed steel stand. Has built-in leveling screws. 13 lbs.



No. 34-895 Miter Gage—For straight and angle operations. Has  $\frac{3}{8}$  x  $\frac{3}{4}$  x 18" guide bar and pivoting work support body with pointer and calibrations reading through 120° swing. Adjustable, positive stops at 90° and 45° positions. 4 lbs.

No. 34-568 (old 865) Clamp Attachment for Miter Gage—With clamp bar, two sliding clamp screws, and front and rear posts. 1 $\frac{1}{2}$ " lbs.

No. 34-873 (old 873) Extra Clamp Screw and Block—For Clamp Attachment.  $\frac{1}{2}$  lb.

## WOOD CUTTING BAND SAW BLADES

For 14" Band Saws: 93 $\frac{1}{2}$ " blades are standard; 105" blades used with 28-984 Height Attachment.  $\frac{1}{2}$  lb.

Number (93 $\frac{1}{2}$ " Long)	Number (105" Long)	Width	Min. Cut. Rad.	Teeth per In.
28-032 (old 1032)	28-045 (old 1045)	$\frac{1}{8}$ "	$\frac{1}{4}$ "	6
28-033 (old 1033)	28-046 (old 1046)	$\frac{3}{16}$ "	$\frac{5}{16}$ "	6
28-034 (old 1034)	28-047 (old 1047)	$\frac{1}{4}$ "	$\frac{3}{8}$ "	6
28-036 (old 1036)	28-048 (old 1048)	$\frac{3}{8}$ "	1 $\frac{7}{16}$ "	5
28-038 (old 1038)	28-050 (old 1050)	$\frac{1}{2}$ "	2 $\frac{1}{2}$ "	5
28-040 (old 1040)	28-052 (old 1052)	$\frac{3}{4}$ "	5 $\frac{7}{16}$ "	4

For 20" Band Saws: All blades are 150" long. 2 lbs.

Number	Width	Minimum Cut. Rad.	Teeth Per In.
28-725	$\frac{3}{16}$ "	$\frac{5}{16}$ "	5
28-726	$\frac{1}{4}$ "	$\frac{3}{8}$ "	5
28-727	$\frac{3}{8}$ "	1 $\frac{1}{16}$ "	5
28-728	$\frac{1}{2}$ "	2 $\frac{1}{2}$ "	4
28-729	$\frac{3}{4}$ "	5 $\frac{1}{16}$ "	4
28-731	1"	7 $\frac{1}{4}$ "	4
28-730	$\frac{3}{4}$ "	For resawing	3
28-732	1"	For resawing	2

The above blades can be file sharpened.

## SKIP TOOTH BAND SAW BLADES

For 14" Band Saws: For cutting aluminum, magnesium, plastics and all kinds of wood. All blades are 93 $\frac{1}{2}$ " long.  $\frac{1}{2}$  lb.

Number	Width	Minimum Cut. Rad.	Teeth Per In.
28-884	$\frac{1}{8}$ "	$\frac{5}{8}$ "	6
28-885	$\frac{3}{8}$ "	1 $\frac{7}{16}$ "	4
28-886	$\frac{1}{2}$ "	2 $\frac{1}{2}$ "	4
28-887	$\frac{3}{4}$ "	5 $\frac{7}{16}$ "	4

For 20" Band Saws: All blades are 150" long. 2 lbs.

Number	Width	Minimum Cut. Rad.	Teeth Per In.
28-750	$\frac{1}{4}$ "	$\frac{3}{8}$ "	4
28-751	$\frac{3}{8}$ "	1 $\frac{7}{16}$ "	4
28-752	$\frac{1}{2}$ "	2 $\frac{1}{2}$ "	4
28-753	$\frac{3}{4}$ "	5 $\frac{7}{16}$ "	3
28-754	1"	7 $\frac{1}{4}$ "	2

## METAL CUTTING BAND SAW BLADES

These are regular set, hard-edge, flexible-back standard blades for cutting all metals.

For 14" Metal Cutting Band Saw: All blades are 93 $\frac{1}{2}$ " long.  $\frac{1}{2}$  lb.

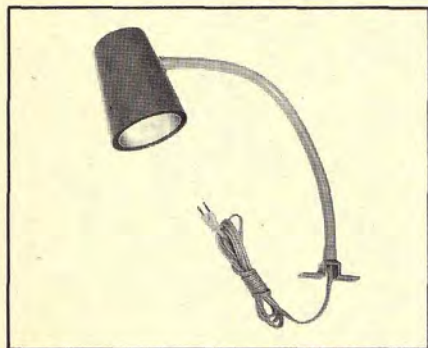
Number	Width	Minimum Cut. Rad.	Teeth Per In.
28-058 (old 1058)	$\frac{1}{2}$ "	2 $\frac{1}{2}$ "	10
28-060 (old 1060)	$\frac{1}{2}$ "	2 $\frac{1}{2}$ "	14
28-062 (old 1062)	$\frac{1}{2}$ "	2 $\frac{1}{2}$ "	18
28-064 (old 1064)	$\frac{1}{2}$ "	2 $\frac{1}{2}$ "	24

For 20" Metal Cutting Band Saw: All blades are 150" long. 2 lbs.

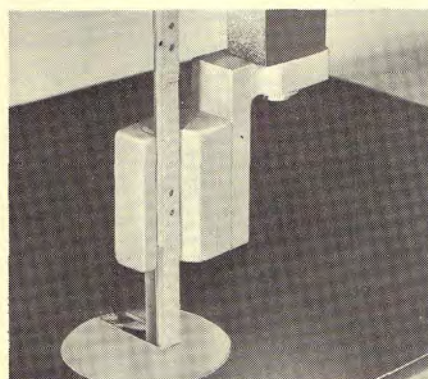
Number	Width	Minimum Cut. Rad.	Teeth Per In.
28-742	$\frac{1}{2}$ "	2 $\frac{1}{2}$ "	10
28-743	$\frac{1}{2}$ "	2 $\frac{1}{2}$ "	14
28-744	$\frac{1}{2}$ "	2 $\frac{1}{2}$ "	18
28-745	$\frac{1}{2}$ "	2 $\frac{1}{2}$ "	24
28-740	$\frac{3}{4}$ "	5 $\frac{7}{16}$ "	6
28-741	$\frac{3}{4}$ "	5 $\frac{7}{16}$ "	8

# ROCKWELL BAND SAW ACCESSORIES

## ACCESSORIES FOR NEW 20" BAND SAWS



**No. 25-857 Lamp Attachment**, for 115 V. Includes 18" flexible gooseneck, reflector and 8-foot cord with 2-prong plug. Uses standard bulb (not included) up to 75 watts.



**No. 28-700 File Band Guide Attachment.** Easily bolts to guide block. Includes mounting hardware. File band and guide block are not supplied by Rockwell.

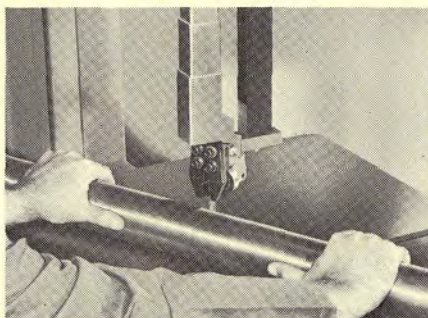
**No. 28-701 Blade Welder and Flash Grinder**, 115 V, 50/60 cycles, single phase, 3 KVA. Mounts flush into band saw column. Capacity  $\frac{1}{8}$ " to 1". Blade Shear not included; order separately.



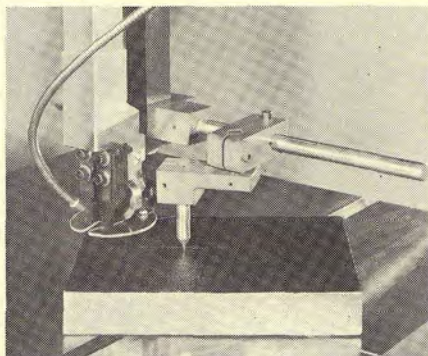
**No. 28-702 Blade Welder and Flash Grinder.** Same as 28-701 but for 230 V, Single phase.



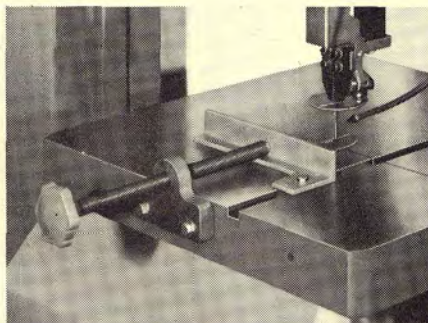
**No. 28-005 Blade Shear** for mounting on welder face. Capacity to 1".



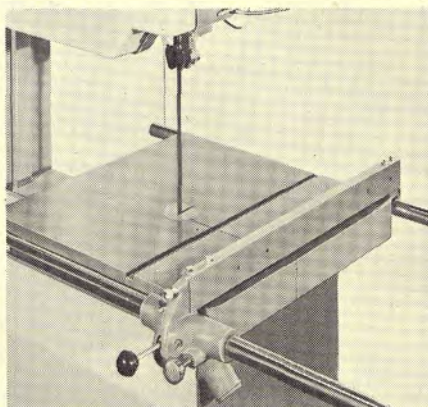
**No. 28-703 30° Angle Blade Guides.** Consist of blade fingers, back-up bearing and guide block.



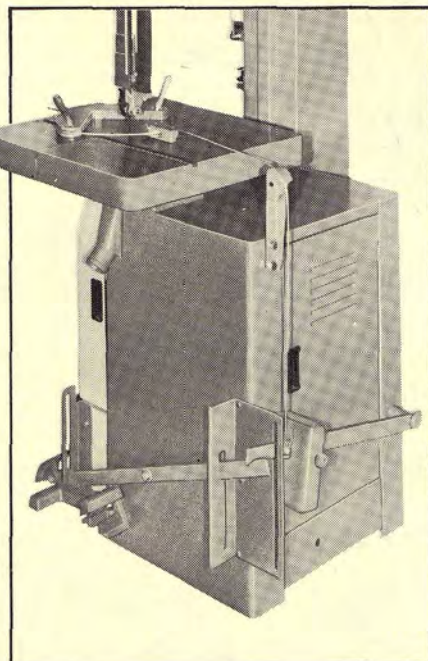
**No. 28-704 Circle Cutting Attachment.** Attaches quickly to guide arm, permitting radius cuts from  $1\frac{1}{2}$ " to 15" in diameter.



**No. 28-705 Screw Feed Attachment.** Consists of table mounting bracket, screw with handle, and angle feed block.



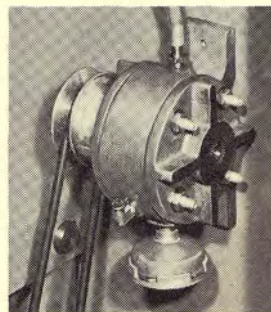
**No. 28-862 Fence Attachment** for ripping and re-sawing lumber. Includes  $2\frac{1}{2}$ " x 27" Micro-Set fence with front and rear locks, two 44" tubular guide rails, mounting screws. Fence may be set anywhere from  $15\frac{1}{8}$ " to left of blade to 25" to right with pointer and calibrations reading from zero to 25" to right.



**No. 28-708 Gravity Feed Attachment.** Used primarily to avoid operator fatigue. Provides a variable feed pressure of approximately 5 to 29 pounds with standard 30-pound weight provided. Enables operator to devote his entire attention to guiding the work, assuring more accurate cutting. (For additional feed pressure, order extra weights.) Fits all past or present Delta 20" Metal Cutting Band Saws.

**No. 28-826 Extra Weight.** For 28-825 Gravity Feed Attachment. With one extra weight, attachment provides approximately 10 to 41 pounds feed pressure, or with two extra weights, 15 to 50 pounds.

**No. 28-709 Chip Blower**, factory mounted. Consists of pump with pulley and "O" belt.



**No. 28-710 Chip Blower.** Same as 28-709 except field mounted.

**No. 28-711 Safety Lock-Out Switch**, factory mounted. For machines with magnetic controls only. Automatically shuts off power when lower wheel door is opened.

## ACCESSORIES FOR NEW 20" WOOD/NON-FERROUS CUTTING BAND SAW

**No. 41-707 Motor Pulley**,  $\frac{7}{8}$ " bore, for 143T and 145T frame motors.

**No. 41-708 Motor Pulley**,  $1\frac{1}{8}$ " bore, for 182T and 184T frame motors.

**No. 49-131 V-Belt**, 43" O.C., 11M section.

**No. 49-132 V-Belt**, 53 $\frac{1}{2}$ " O.C., 11M section.

## ACCESSORY FOR NEW 20" METAL CUTTING BAND SAW

**No. 49-159 Variable Speed Belt**, 55" O.C.

# Take Your Choice!

## A big capacity Rockwell 24", 18" or 13" Planer with many exclusive features...

Giant capacity with modern design features... that's what you get with Rockwell Delta Planers. For example:

### **New 24" x 9" Planer**

—unequaled in features and value, this machine will surface stock 24½" wide x 9<sup>3</sup>/<sub>32</sub>" thick. It's the only machine in its price range that has a power driven table raising and lowering mechanism.

### **18" x 6" Planer**

—an economically priced machine offering wedge bed construction... separate feed and cutterhead drive systems... positive worm gear drive in belt and direct drive models.

### **New 13" x 6" Planer**

—designed for the production woodworker, this modern design machine will handle 6 x 12" timbers or gang plane 2 x 6's on edge. Its infinitely variable feed is an exclusive on planers of this size, plus you get conveniently located, up-front controls and scales for easier, safer operation.

Go with the "Profit-Builders"... go with Rockwell Delta Planers!





**...or Select  
the Unique  
Rockwell  
UNIPLANE\***

**A Completely New  
Concept for Working  
Wood, Plastics and  
Compositions...  
Does More Jobs  
Safer Than  
Any Other Machine!**



Here's a machine that is the most forward step in woodworking machines in 50 years! Rockwell Delta's UNIPLANE offers a unique yet superior method of jointing or surfacing material up to 6" in width or thickness—or even as small as a matchstick—all with *complete* safety.

Typical operations include planing, jointing, beveling, chamfering, trimming, tapering and many more.

You can't appreciate the versatility of this great, new machine. You have to see it in action.

Call us today for a Free "Proof-by-Performance" demonstration!

\*Trademark

# Rockwell 24" x 9" Planer

**C. Fine, Depth Setting Control**—Fine table adjustments are made by using a conveniently located handwheel which is spring-loaded to prevent accidental changes in depth-of-cut setting.

**D. Massive Frame**—Weighing almost 1,000 pounds, the one-piece frame is made of solid cast iron for greater rigidity.

**E. Table Guides and Gibs**—Table guides are machined directly on frame, providing maximum table stability, even under heavy loads. Built-in gibs compensate for possible wear, either laterally or longitudinally. Large reinforcing ribs assure a true, flat surface.

**F. Exclusive Rockwell Safety Control Station**—Provides magnetic low-voltage and no-voltage protection with 115 V at the switch. Switch has green "start" and red "stop" buttons with cover and buttons made of non-conductive material for added safety.

**G. Motors and Switches**—Feed motor is completely independent so that it may be stopped, without stopping cutterhead motor. Built-in limit switches automatically prevent table overtravel. Positive table stops prevent table from striking cutterhead.

**H. Adjustable Bed Roll; Positive Table Lock**—Bed roll is furnished as standard equipment. Front control enables bed roll to be quickly raised or lowered, depending on the condition of the stock and the finish desired. Locking device rigidly holds table at desired setting.

**I. Sectional In-Feed Roller and Chip Breakers**—Chain driven in-feed roller consists of independent, spring-loaded sections that facilitate the processing of rough, uneven stock. Chip breaker also has totally independent, spring-loaded sections, 1 $\frac{1}{4}$ " wide, which individually adjust to variations in stock. Anti-kickback fingers prevent stock kickback. Note how pressure bar is positioned close to cutterhead to provide adequate pressure on stock as it is surfaced.

**J. Large Diameter Cutterhead; Precision Blade Adjustment**—4 $\frac{1}{16}$ " diameter cutterhead rotates on sealed, lubricated-for-life ball bearings. Four planer knives are spring-loaded for ease in adjusting knives to proper height using standard equipment knife setting gage.

**K. Positive, Chain Driven Feed Rolls**—Both in-feed and out-feed rolls are chain driven to assure high quality planer performance.

**L. Efficient Drive Systems**—Maximum planer efficiency results from the triple belt drive from motor to cutterhead . . . variable rate belt drive from motor to gear box and roller chain drive from variable speed gear box to feed rolls . . . belt drive to worm feed table raising mechanism.

**M. Convenient, Safe, Easy-to-Operate Controls**—All operational controls—cutterhead, feed, table and variable-rate feed—are conveniently grouped in one master control panel for safer, easier operation.

## ROCKWELL QUALITY FEATURES

**A. Wide Range Variable Speed Drive**—Powered by a 1 HP motor, drive is infinitely adjustable from 20 to 60 FPM—a slow feed for fine, smooth finishes and a fast feed for processing rough stock.

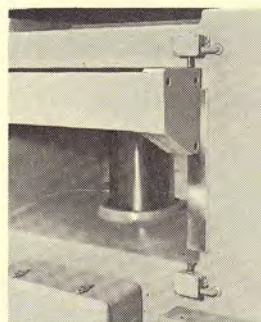
**B. Power Driven Table Raising and Lowering Mechanism**—The Rockwell Delta 24" Planer is the only one in its class that offers a motorized table—the  $\frac{1}{2}$  HP motor facilitates fast, easy changes in thickness setting to accommodate thick or thin stock.



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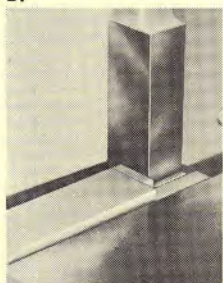
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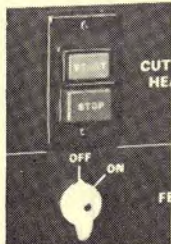
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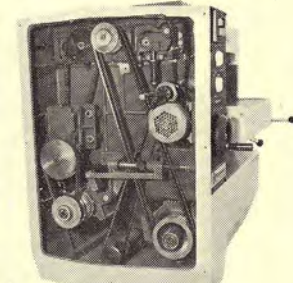
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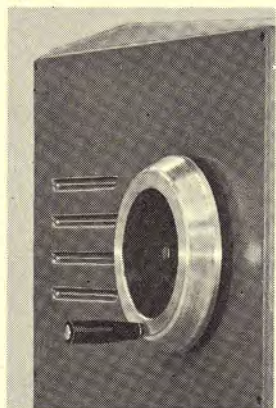
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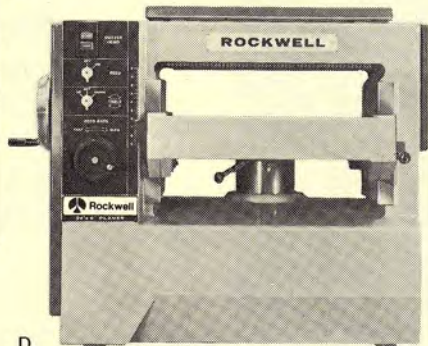
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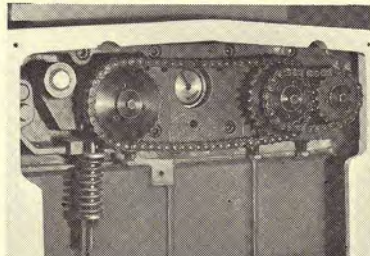
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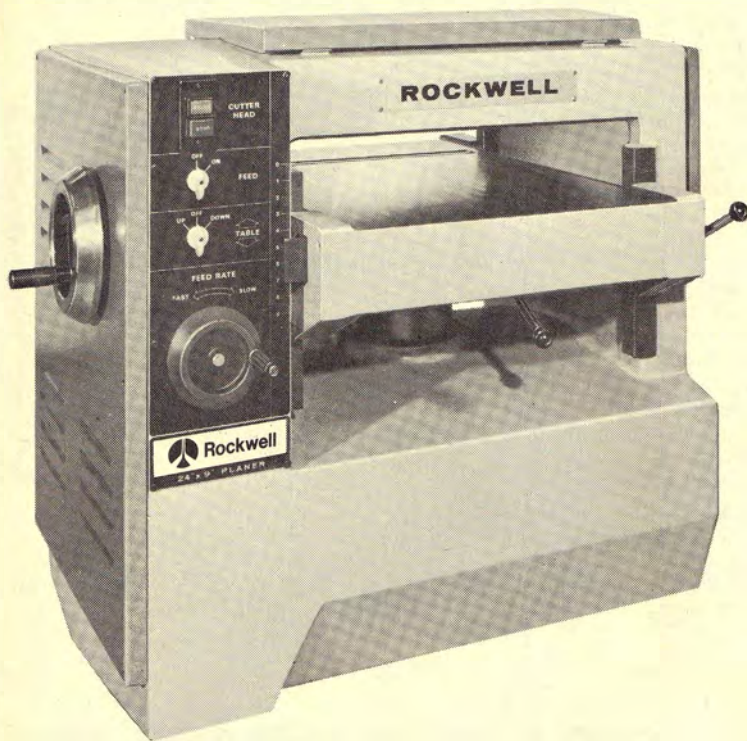


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## Great Production Tool!



Never before have so many fine features been offered at such an economical price. That's what makes the all new Rockwell Delta 24" x 9" Planer such an outstanding value. Built for production work, it is designed to satisfy the high quality performance standards required in lumber yards and mills, furniture factories, cabinet and pattern shops, vocational and trade schools.

This modern Rockwell Delta Planer provides 24½" x 9¾" capacity. It offers features not usually available in comparably priced machines:

- Variable rate feed from 20 to 60 FPM.
- Power driven table raising and lowering mechanism.
- Large diameter 4-knife cutterhead.
- Adjustable bed roller.
- Massive one-piece cast iron frame.
- Positive chain driven feed rolls.
- Sectional in-feed roller and chip breakers.
- Anti-kickback fingers for added safety.
- Convenient, safe, easy-to-operate controls.

Let us show you this outstanding value in action today!

## MACHINE DATA

### Motors, Three Phase, 230/460 V

(Other Voltages Not Available):

Cutterhead .....	.10 HP
Feed .....	.1 HP
Table Raising .....	.½ HP

### Capacity:

Width of Stock: Maximum .....	24½" (622.3 mm)
Thickness of Stock: Maximum .....	9¾" (253.2 mm)
Minimum .....	¼" (3.175 mm)
Depth of Cut: Maximum .....	¾" (9.5 mm)
Length of Unbutted Stock: Minimum .....	10" (254 mm)
Minimum Table Roll Opening .....	1⅞" (47.6 mm)

**Feed Rate**..... Infinitely Variable from 20 to 60 SF/M  
(6,096 to 18,288 Surf. MM/Min.)

### Cutterhead:

Number of Knives .....	4	
Diameter .....	4⅛" (119.1 mm)	
Diameter of Cutting Circle .....	4¾" (120.7 mm)	
Speed-RPM .....	5000; Cuts Per Minute .....	20,000

### Feed Rolls:

Sectional, In-Feed .....	3⅜" (85.7 mm) Dia. Chain Driven
Solid, Out-Feed .....	3⅜" (85.7 mm) Dia. Chain Driven

**Table Bed Roll**..... Adjustable

### Table Raising Mechanism:

Motorized .....	½ HP; Handwheel
	For Final Close Adjustment
Thickness Scale .....	0" to 9½" (0 to 241.3 mm)
	(By ⅛" (1.6 mm) Graduations)

### Overall Dimensions:

Width .....	52" (1320.8 mm)
Front to Back .....	40" (1016 mm)
Height .....	41¾" (1060.4 mm)

**Shipping Weight**..... 2400 Lbs. (1089 Kg.)

## CATALOG LISTING

**No. 22-503 24" x 9" Planer**, complete and ready to run. Includes 10 HP, three phase cutterhead motor with magnetic starter, 1 HP feed motor and a ½ HP table raising motor; set of four cutterhead knives; sectional in-feed roll and sectional chip breakers; adjustable bed roll; knife setting gage. 2400 lbs.



You get big capacity with the Rockwell 24" x 9" Planer—plane stock up to 24½" wide, varying in thickness from ¼" to 9¾".

# Rockwell 18" x 6" Planer

## ROCKWELL QUALITY FEATURES

**A. Wedge Bed Construction**—assures precision accuracy and ease of adjustment with greater work support than conventional raising screws. Inclined ways direct the even rise and fall of the bed, seldom require adjustment. Cutting loads are supported by a large area of solid metal which actually serves as a compression member. Up to now, wedge bed construction has usually been found only on larger, high production surfaces.

**B. Simplified, Separate Feed and Cutterhead Drive Systems**—this modern, preferred type of construction means that maximum horsepower is delivered to the feed rolls, without "robbing" power from the cutterhead. You get top efficiency, keep maintenance and downtime to a minimum.

**C. Completely Sealed Worm Gear Drive**—delivers tremendous horsepower to the feed rolls. This unique feed system operates in a sealed oil bath, totally shielded from dirt or foreign matter.

**D. Quick Setting, Positive Control Locks**—assure safe, accurate control at all times. Just a twist of the wrist is needed to lock the controls at the desired setting.

**E. Variable Speed Cutting Feed**—enables you to select any feed range between 15 and 36 feet per minute. You can adjust the feed of the machine to suit the type of stock you're planing and get maximum efficiency at all times.

**F. Safe Depth of Cut**—limited to  $\frac{1}{4}$ ", eliminates any possibility of overloading the machine when finishing hard, extra wide stock.

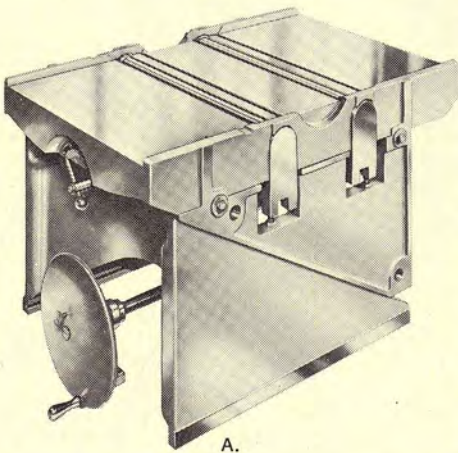
**G. Redi-Set, Fast Bed Roll Adjustment**—an accessory that allows you to raise or lower the bed rolls in an instant for rough or finish surfacing. Bothersome, time consuming adjustments under the bed are eliminated.

## ROCKWELL QUALITY EXTRAS

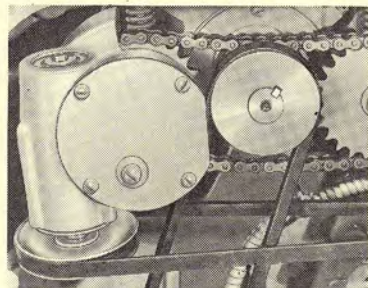
**Lubricated-For-Life Sealed Ball Bearing Construction Throughout**—even the bed rolls of the massive one piece bed are mounted on lubricated-for-life, sealed ball bearings that stand up longer under pressure and require no troublesome grease cups or fillings.

**Rugged Construction**—built to last . . . the 18" Planer will withstand the heaviest of cutting loads with no tension strain.

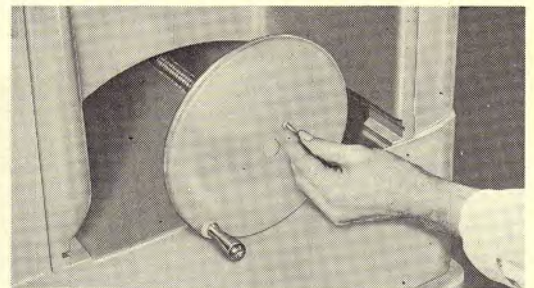
**Knife Grinding and Jointing Attachment**—an accessory extra that allows you to grind a completely new bevel on the knives *without* removing the cutterhead from the planer.



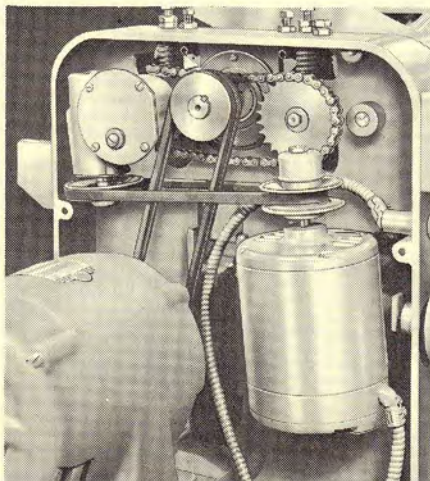
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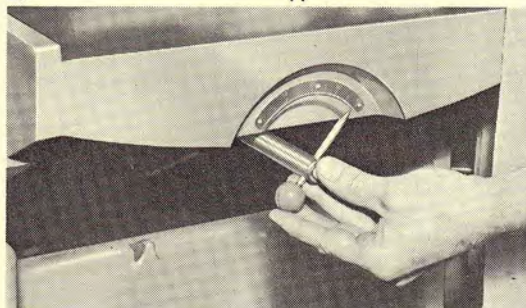
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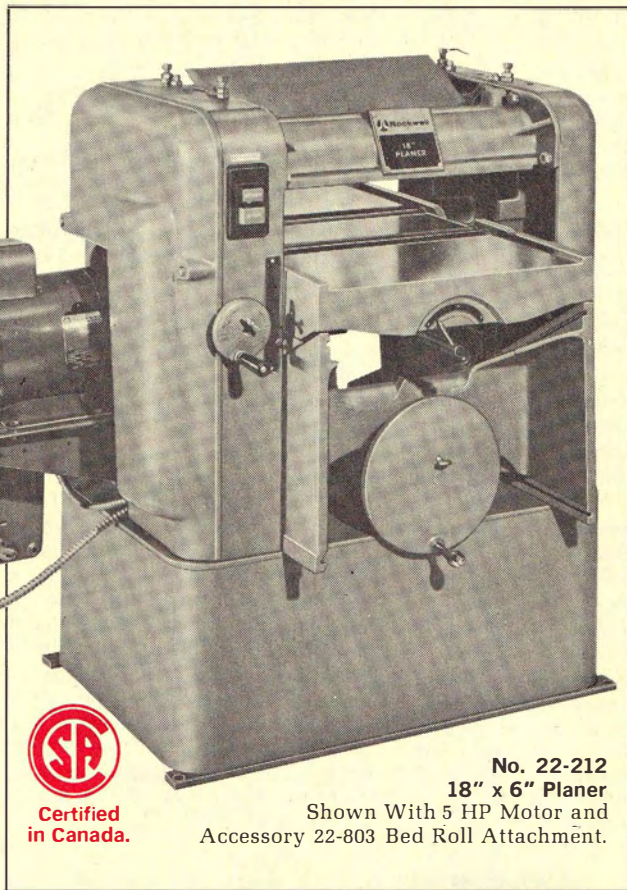


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# ROCKWELL 18" x 6" PLANER



**No. 22-212**  
**18" x 6" Planer**  
 Shown With 5 HP Motor and  
 Accessory 22-803 Bed Roll Attachment.

**A Big Capacity, Economically Priced Production Planer With Separate Feed And Cutterhead Drive Systems!**

**Exclusive Rockwell 24-Volt Safety Control System**—Only Rockwell 18" x 6" Planers offer a low 24 volts at the push button control station for extra operator safety. Magnetic control system provides on-off control, low-voltage, no-voltage (when power is interrupted, machine can be started only by pressing start button), and motor overload protection. On three phase systems, overload protection is provided on all three legs. Shrouded green "start" button prevents accidental starts while protruding red "stop" button is extra large for quick, emergency stops. Switch cover and buttons are made of non-conductive material for added safety.



## CATALOG LISTING

**COMPLETE 18" x 6" PLANER, with Motors and Controls Factory Mounted and Wired, Ready to Run**

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ & MOTOR RPM	MOTOR VOLTAGE	DRIVE MODEL	MACHINE CAT. NO.	MACHINE CAT. NO. 200V	MACHINE CAT. NO. 575 V
Single Phase, 5 Horsepower	24 V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60—3450	230	Belt	22-212		
Three Phase, 5 Horsepower	24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60—3450	230/460	Belt	22-227	22-250	22-221
Three Phase, 7½ Horsepower	24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60—3450	230/460	Belt	22-229	22-252	22-222

**NOTE:** Single phase electricals will be supplied wired for 230 V only. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug not supplied. Motors and Motor Controls

The many fine features of this heavy-duty production type planer make it especially suited for use in lumber yards and mills, furniture factories, also as an excellent training unit for vocational and trade schools.

Here's why! Separate motors drive the cutterhead and the feed, eliminating a troublesome clutch. A single "up-front" electrical control stops all moving parts almost instantly with the touch of a finger. Wedge-bed construction provides greater work support and increased accuracy. Redi-set easy bed roll adjustment (accessory) makes it convenient and easy to work with all grades of lumber. You get all these high-planer-cost features and many more with the husky Delta 18" Planer.

See it demonstrated and prove to yourself why it truly is the outstanding planer value in its class!

## MACHINE DATA

- Motors** ..... 5 and 7½ HP
- Capacity:**
  - Width of Stock: Maximum ..... 18" (457.2 mm)
  - Thickness of Stock: Maximum ..... 6" (152.4 mm)
  - Minimum ..... 1/8" (3.2 mm)
  - Depth of Cut: Maximum ..... 1/4" (6.4 mm)
  - Minimum Length ..... 8" (203.2 mm) Unbutted
- Rate of Feed:**
  - Linear Feet Per Minute ..... 15 to 36 Variable (4,572 to 10,972.8 Surf. MM/Min.)
  - Inches of Stock Cut Per Minute ..... Variable
  - Cuts Per Minute ..... 10,350
- Cutterhead:**
  - Type ..... 3 Knife
  - Diameter ..... 3 1/4" (82.6 mm)
  - Diameter of Cutting Circle ..... 3 1/2" (88.9 mm)
  - Knives: (3) High Speed Steel ..... 5 3/32" x 1 1/8" x 18 1/8" (4 x 28.6 x 460.4 mm)
  - Speed ..... 5000 RPM
- Feed Rollers:**
  - Drive ..... Separate 1/2" HP Feed Motor
  - In-Feed Rollers ..... 2 1/4" (57.2 mm) Diameter, Solid Serrated
  - Out-Feed Rollers ..... 2 1/4" (57.2 mm) Diameter, Smooth
  - Speed (RPM) ..... Variable
- Bed Rollers** ..... 2 1/4" (57.2 mm) Diameter, 8" (203.2 mm) C.C.
- Bed Dimensions** ..... 20 x 30" (508 x 762 mm)
- Table Raising Mechanism** ..... Wedge Bed
- Thickness Scale** ..... 0" to 6"
- Overall Dimensions:**
  - Depth ..... 32" (812.8 mm); Width ..... 31 1/2" (800.1 mm)
  - Height ..... 41" (1041.4 mm)
  - Floor Space ..... 21 1/4 x 31 1/2" (539.8 x 800.1 mm)
- Motor Plate:**
  - Accommodates NEMA Frame Motors 182T, 184T, 213T and 215T
- Approximate Shipping Weight With Motor** . . 1200 Lbs. (544 Kg.)

## STANDARD EQUIPMENT

**Basic Machine** includes No. 22-800 set of three cutterhead knives, separate feed motor, feed motor pulley and V-belt, drive motor, belts, cutterhead pulley, motor pulley, coupling and electrical controls.

For Rockwell Delta 18" x 6" Planers may be ordered unmounted. For listing, see Sections P and Q.



# Rockwell 13"x 6" Planer

## ROCKWELL QUALITY FEATURES

**A. Big Capacity**—Planes stock up to 13" wide, varying in thickness from  $\frac{1}{16}$ " to a full 6". Depth of cut is factory set for  $\frac{1}{8}$ " maximum; can be quickly adjusted to  $\frac{1}{4}$ " maximum.

**B. Exclusive Rockwell Safety Control Station**—Push buttons are color coded—green for "start" and red for "stop." Shrouded "start" button prevents accidental starts while "stop" button is extra large for quick, emergency stops. Switch cover and buttons are made of non-conductive material for added safety.

**C. Quick-Change, Snap-On Machine Panels**—Special spring-tension locking mechanism permits their instant removal for inspection of motor, cutterhead and variable feed drives, and for changing drive belts.

**D. Exclusive Variable Rate Feed**—Infinitely adjustable from 15 to 25 feet per

minute to suit the type of stock, finish and feed desired. Feed may be disengaged, *without* stopping the motor, simply by moving speed lever to the "stop" position.

**E. Depth-Of-Cut Control**—One turn of crank lever raises or lowers table exactly  $\frac{1}{16}$ " . . . instruction plate gives direction for either "thick" or "thin" cut. Up-front scale and pointer help operator obtain proper cutting depth.

**F. Superior Drive Design**—Full power is transmitted from the gear box to the out-feed and in-feed roll sprockets by means of two roller chains. Variable speed drive gear box is automatically lubricated during operation by a fully enclosed oil bath system.

**G. Table Alignment Controls**—Raising and lowering screws facilitate leveling the table parallel to the cutterhead for continued accurate planing. Built-in adjustable table gibs compensate for wear.

**H. Cartridge-Type Cutterhead**—Eliminates costly downtime when knives become dull. You simply remove the entire cutterhead and insert a new one. Replacement cutterhead assembly is available as an accessory.

**I. Precision Blade Adjustment**—Knife setting gage (furnished as standard equipment) and height adjusting screws permit quick, accurate, independent adjustment of planer knives. Uniform setting of knives assures greater cutting efficiency and longer life between sharpenings.

**J. Efficient Drive System**—A tough, non-slip Gates Polyflex® Belt transmits full power from the motor to the cutterhead. Maximum power from the heavy duty 3 or 5 HP motor is transmitted to the variable feed drive by a V-belt.

## ROCKWELL QUALITY EXTRAS

**Motor Overload Switch**—Delta planer motors are protected against "burnout" due to excessive overloading.

**Shielded, Sealed, Lubricated-For-Life Ball Bearings**—for smooth cutterhead operation, trouble-free service and longer machine life. Cutterhead knives are fully machined and balanced.

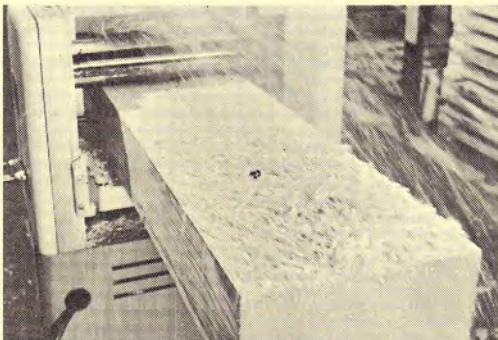
**High-Speed Cutterhead**—gives 13,500 cuts per minute, providing an exceptionally smooth finish on all stock.

**Convenient Controls**—all controls are located within easy reach of the operator. Depth scale can be conveniently read from any operating position. Table control is self-locking at any setting . . . positive stops make it impossible for table to strike cutterhead knives.

**Table Roll Adjustment Feature**—permits adjustment of table rolls to correct height for surfacing slightly rough material.

**Knife Grinding and Jointing Attachment**—an accessory extra that enables you to sharpen cutterhead knives without removing the cutterhead from the planer.

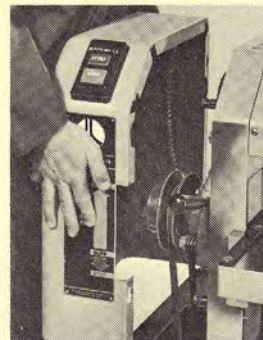
**Knife Jointing Attachment**—recommended accessory for honing a keen edge on cutterhead knives.



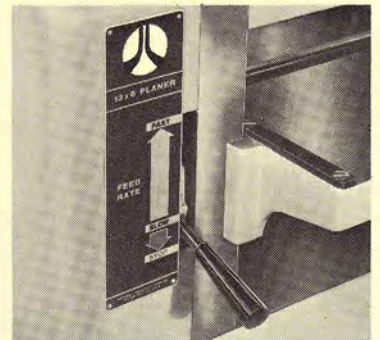
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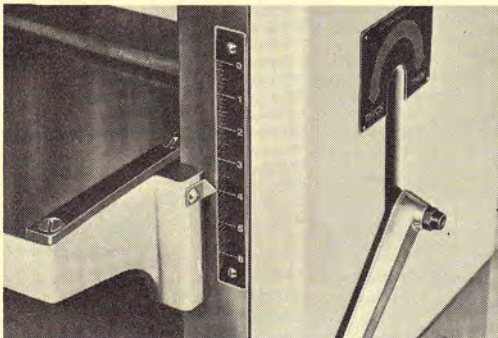
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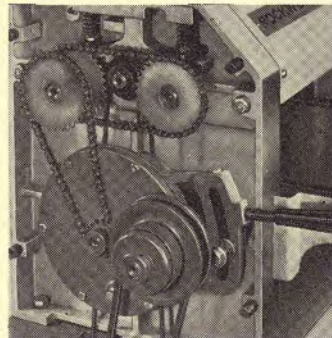
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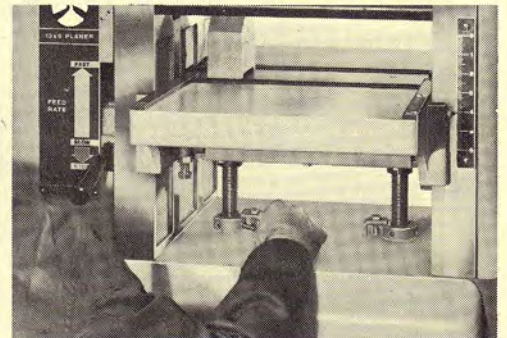
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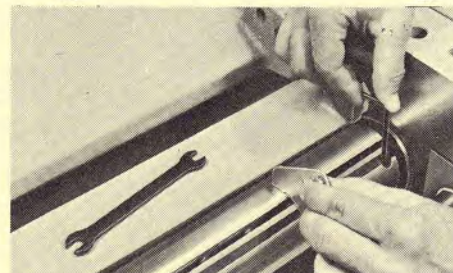
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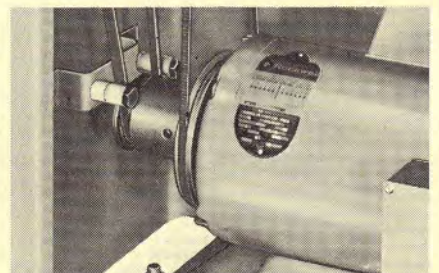
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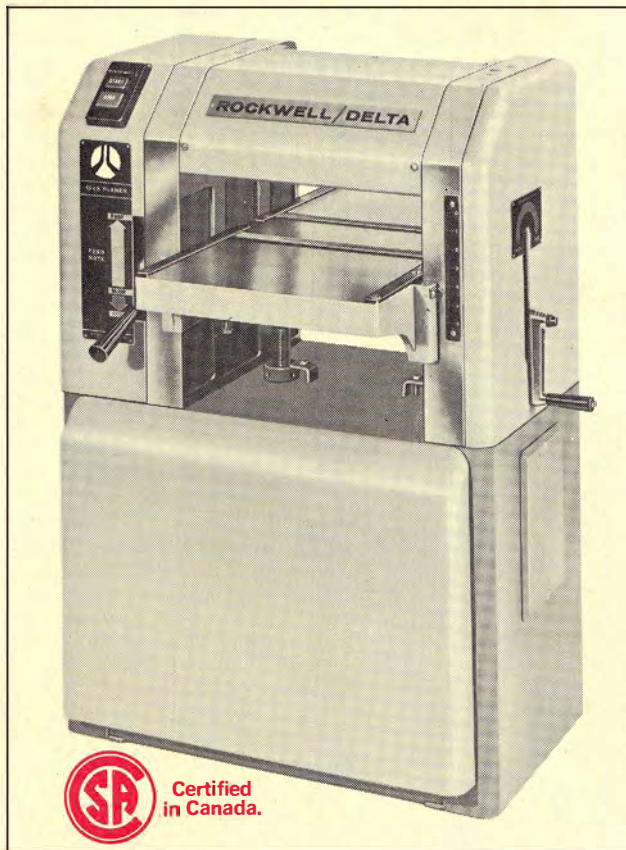


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# ROCKWELL 13" x 6" PLANER



## SAFE! ACCURATE! RUGGEDLY BUILT!

No matter how you compare it, the 13" x 6" Rockwell Planer offers greater value.

**It's Safe!** Variable feed may be immediately disengaged without stopping the motor. Chip breaker shield assures added operator safety. Conveniently located push button switch provides magnetic low-voltage protection (115 V at switch available). Positive table stops protect cutterhead and knives.

**It's Accurate!** This precision machine will dress wood to an exact parallel thickness. It will handle stock up to 13" wide, varying in depth from  $\frac{1}{16}$ " to 6". Short stock, only 6" in length, can be planed "unbutted." The high-speed cutterhead gives 13,500 cuts per minute, providing an exceptionally smooth finish.

**It's Built to Give Top Performance!** The superior drive mechanism . . . cartridge-type cutterhead with precision balanced knives . . . slow-to-fast variable feed . . . handy operating controls tell why it will deliver high quality work for every user.

These are only a few reasons why the Rockwell Planer is especially suited for use in cabinet and pattern shops, furniture factories, and vocational schools.

Let us give you a "proof-by-performance" demonstration today!

## MACHINE DATA

**Motors** . . . . . 3 and 5 HP  
Accommodates NEMA Frame Motors . . . . . 182T and 184T

**Capacity:**  
Width of Stock . . . . . 13" (330.2 mm) Maximum  
Thickness of Stock . . . . . 6" (152.4 mm) Maximum  
Depth of Cut . . . . .  $\frac{1}{16}$ " (1.6 mm) Minimum  
Maximum Depth Adjustable . . . . . 0" to  $\frac{1}{4}$ " (0 to 6.4 mm)  
(5 HP Recommended for  $\frac{1}{4}$ " (6.4 mm) Depth of Cut)  
Minimum Length . . . . . 6" (152.4 mm) Unbutted

**Rate of Feed:**  
Linear Feet Per Minute . . . . . Infinitely Variable, 15 to 25  
(4,572 to 7,620 Surf. MM/Min.)  
Inches of Stock Cut Per Minute . . . . . 180 to 300  
Number of Cuts Per Minute . . . . . 13,500

**Cutterhead:**  
Diameter . . . . .  $2\frac{3}{4}$ " (59.9 mm)  
Diameter of Cutting Circle . . . . .  $2\frac{1}{16}$ " (65.1 mm)  
Speed . . . . . 4500 RPM

**Feed Drive Mechanism:**  
Fully enclosed gear box in oil bath with heavy duty chain drive. Infinitely adjustable feed within range. Feed roll disengagement with feed control lever.

**Feed Rollers:**  
In-Feed . . . . .  $1\frac{3}{4}$ " (44.4 mm) Diameter-Serrated  
Out-Feed . . . . .  $1\frac{3}{4}$ " (44.4 mm) Diameter-Smooth  
Speed . . . . . 32 to 55 RPM Infinitely Variable

**Idle Table Rollers** . . . . . Centered  $5\frac{1}{2}$ " (143.7 mm) Apart,  
 $1\frac{3}{8}$ " (34.9 mm) Diameter

**Table Raising Mechanism:**  
Hand Crank Moves Table . . . . .  $\frac{1}{16}$ " (1.6 mm) Per Turn  
**Thickness Scale** . . . . . 0" to 6" in 16ths  
**Table Dimension** . . . . . 13" x 26" (330.2 x 660.4 mm)

**Overall Dimensions:**  
Width 31" (787.4 mm) . . . . . Front to Back 26" (660.4 mm)  
Height . . . . . 39" (990.6 mm)

**Floor Dimensions of Base:**  
Width 27" (685.8 mm) . . . . . Front to Rear 15" (381 mm) . . .  
 $4\frac{1}{2}$ " (114.3 mm) Mounting Holes,  $16\frac{1}{2}$ " (419.1 mm)  
Between Centers, 12" (304.8 mm) Front to Rear

**Shipping Weight Less Motor and Control** . . . . 480 Lbs. (218 Kg.)

## STANDARD EQUIPMENT

**Basic Machine** includes ball bearing cutterhead with set of three high-speed steel knives, cutterhead pulley, motor pulley and drive belts. Motor and electrical controls must be ordered separately.

## CATALOG LISTING

**No. 22-401 Basic Machine.** Includes 22-128 set of three high-speed steel knives, cutterhead pulley, 22-425 motor pulley ( $1\frac{1}{8}$ " bore), 49-169 feed and 22-424 cutterhead drive belts, knife-setting gage and wrenches. Also contains cover plate for covering recessed starter opening. Without motor and electrical controls.

## MOTORS AND MAGNETIC CONTROLS (Factory Mounted and Wired)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER	CAT. NO. 200V
Single Phase, 3 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	230	118	52-374	
Three Phase, 3 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	112	52-375	52-364
Three Phase, 5 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	120	52-376	52-367

**NOTE:** Single phase electricals will be supplied wired for 230 V only. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug not supplied. Motors and Motor Controls for Rockwell Delta 13" x 6" Planers may be ordered unmounted. For list-

ing, see Sections P and Q. †No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to Three Phase Cat. No. 52-375 or 52-376, in order to obtain 13" x 6" Planer with "JIC" type electricals, factory mounted and wired.

# Rockwell UNIPLANE

## ROCKWELL QUALITY FEATURES

**A. Unique, Safe Cutting Action**—Exposed portion of cutters revolves in a path only three-eighths of an inch wide. This feature was specially designed into the UNIPLANE to provide maximum operator safety.

Kickback of material is eliminated due to the rotary and shearing action of the cutters.

Cutterhead has two sets of cutters—four cutters that score and four that shear the material. Note in illustration that the cutter entering the material first makes a scoring cut, while the cutter which follows makes a shearing cut. This unique cutting action produces exceptionally fine cutting results!

**B. Micro-Set® Cut Control**—Equipped with a precision Acme thread feed screw (machine tool type) permitting exceptionally accurate depth-of-cut settings. Large, knurled dial facilitates effortless settings. Graduated collar is calibrated in 64ths of an inch. Markings are widely spaced to permit easy reading and assure accurate adjustment.

**C. Convenient Controls**—Depth of Cut Control, placed at front of machine, is readily accessible. Large, easy-to-read graduations are in full view of operator. Convenient handles at right and left ends of machine securely lock table in position. Adjustable, easy-to-read angle scale is calibrated from 0° to 45°. Safe push button switch, located within easy reach, is equipped with a shrouded start button to

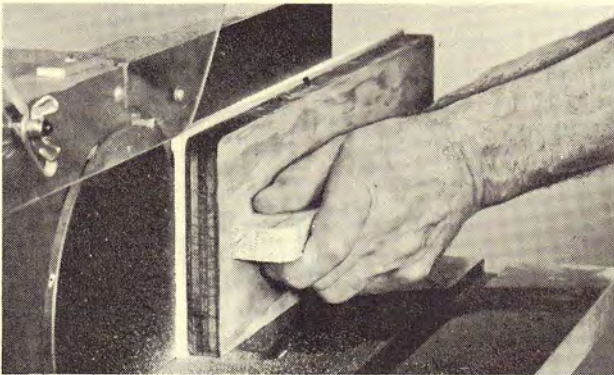
prevent accidental starts and a protruding stop button for quick, emergency stops.

**D. Preferred Dove-Tailed Ways**—In-feed fence rides on precision, dove-tailed ways. Easily adjustable gibs compensate for any wear.

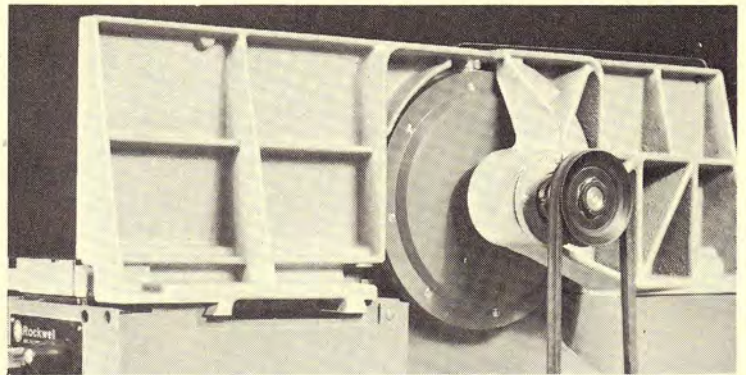
**E. Massive Construction**—Extra large bearing housing, which carries the arbor, bearings and cutterhead, is integrally cast with the out-feed fence to assure perfect cutting accuracy. Cast iron, scientifically ribbed fences are stress relieved to maintain accurate alignment.

**F. Specially Designed Cutterhead**—Dynamically balanced, cast iron cutterhead provides flywheel type action for smooth cutting. Cutterhead mounts on a tapered shaft, with key, for minimum runout and utmost accuracy. Cutters, which are securely locked in place by special screws, can be easily and quickly changed. Sealed, preloaded ball bearings are lubricated for life for maintenance-free operation.

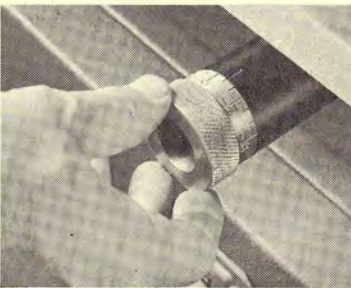
**G. Fully Adjustable, Heavily Ribbed Table**—Has positive stops at 0° and 45°. Large handles enable table to be locked securely at any angle in between. Cast iron, scientifically ribbed table is stress relieved to maintain flatness. Table tilts on two large, widely spaced trunnions for maximum support and rigidity. Built-in slot for miter gage assures perfect accuracy for trimming operations.



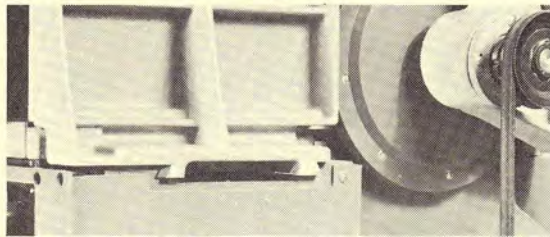
A.



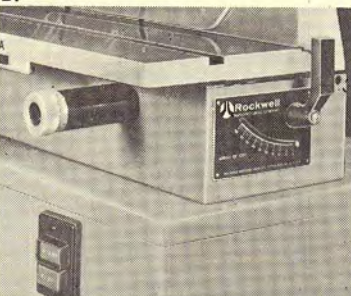
E.



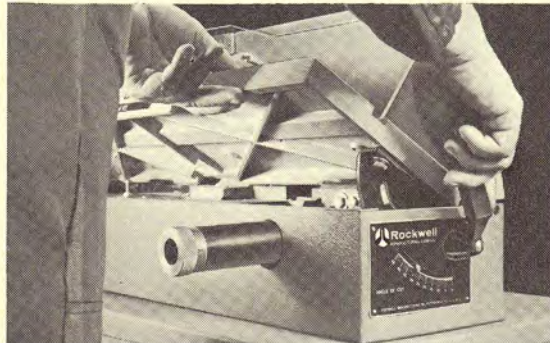
B.



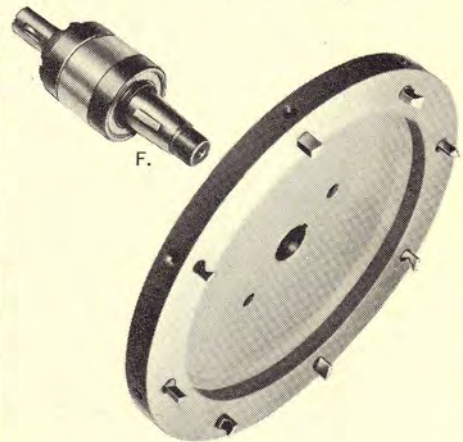
D.



C.



G.



F.

# ROCKWELL UNIPLANE



No. 22-300  
Basic  
Machine  
and all  
electrical  
kits are



Certified  
in Canada.

## A Completely New Concept for Working Wood, Plastics, Compositions

Here's a machine that offers a unique yet superior method for jointing or surfacing material up to 6" in width or thickness, or even as small as a matchstick, all with complete safety!

For example, the Rockwell Delta UNIPLANE will do all these operations safely and with unbelievable accu-

racy: Planing, jointing, beveling, chamfering, trimming, tapering, and many more.

Users everywhere—pattern makers, model makers, furniture manufacturers, antique repairmen, school shop instructors, plastic fabricators—agree that the Rockwell Delta UNIPLANE is the most advanced step taken in the machinery industry in more than 50 years!

## MACHINE DATA

### Cutting Capacity:

Width . . . . . 6" (152.4 mm); Depth . . . . . 1/8" (3.2mm)  
Cutting Circle . . . . . 8" (203.2 mm) Diameter

### Cutterhead:

Speed . . . . . 4000 RPM; 32,000 Cuts Per Minute  
Number of Cutters . . . . . 8  
Runs on Sealed, Lubricated-For-Life Ball Bearings

### Table:

Surface—  
Overall . . . . . 8" (203.2 mm) Wide x 26" (660.4 mm) Long  
Working Height on Stand . . . . . 36 1/2" (927.1 mm)  
Tilts . . . . . Upward to 45°  
Positive Stops . . . . . 0° and 45°  
Miter Gage Slot . . . . . 3/8" x 3/4" (9.5 x 19 mm)

### Fences:

Overall Size . . . . . 7" (177.8 mm) High x 26" (660.4 mm) Long  
Ways . . . . . Dove-Tailed  
Cut Control . . . . . Calibrated in 64ths of an Inch.

### Overall Dimensions:

Height on Stand . . . . . 44" (1117.6 mm)  
Width . . . . . 18" (457.2 mm); Length . . . . . 26" (660.4 mm)

Shipping Weight (On Stand) . . . . . 240 lbs. (109 Kg.)

## STANDARD EQUIPMENT

Basic Machine includes set of eight high speed steel cutters, cutterhead guard, cutterhead pulley and precision gage for setting cutters.

## CATALOG LISTING

**No. 22-300 Basic Machine Without Stand.** UNIPLANE with set of eight high speed steel cutters, "clear-view" cutterhead guard, cutterhead pulley and precision gage for setting cutters. Without stand, motor pulley, V-belt, motor and switch. 146 lbs.

**NOTE:** See Section K5 for Planer Accessories

## ENCLOSED STEEL STAND WITH MOTOR AND CONTROLS (Factory Mounted and Wired)

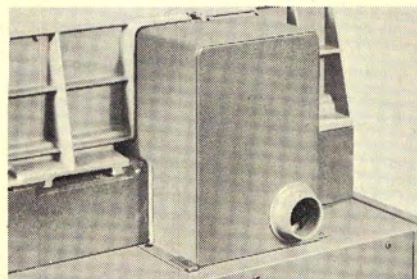
**NOTE:** Motor Pulley, V-belt, Belt and Pulley Guard Included.

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER	CAT. NO. 200V
Single Phase, 1/4 Horsepower	Push Button Switch Only	TEFC	60—3450	115/230	112	52-051	
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60—3450	115/230	122	52-052	
Three Phase, 1/4 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60—3450	230/460	123	†52-056	52-060

**NOTE:** Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only. Motors and Motor Controls for Rockwell Delta UNIPLANES may be ordered unmounted. For listing, see Sections P and Q. Only Rockwell

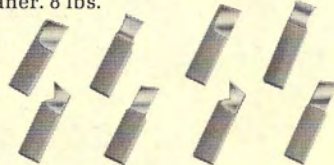
Delta Motors are recommended for the UNIPLANE due to their special starting characteristics. †No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to Three Phase Cat. No. 52-056, in order to obtain the UNIPLANE with "JIC" type electricals, factory mounted and wired.

## ROCKWELL QUALITY ACCESSORIES



No. 22-835 Belt and Pulley Guard. Com-

pletely encloses V-belt and motor pulley. Equipped with a 2 1/2" exhaust port for connecting to any Rockwell Vacuum Cleaner. 8 lbs.



No. 22-836 High-Speed Steel Cutters, set of eight, including four roughing and four finishing cutters, precision

ground and sharpened. Sold only in sets. 1/2 lb.

**No. 22-837 Solid Carbide Cutters,** set of eight, including four roughing and four finishing cutters. Sharpened. Sold only in sets. 1/2 lb.

**No. 25-857 Lamp Attachment.** For 115 V. Includes 18" flexible gooseneck, reflector and 8-foot cord with 2-prong plug. Uses std. bulb (not included) up to 75 watts. 2 1/2 lbs.

**No. 49-104 (old 410) V-belt,** 42 1/8" OC, for 3450 RPM motors. 1/2 lb.



**No. 34-895 Auto-Set® Miter Gage.** For straight and angle finishing. Has  $\frac{3}{8} \times \frac{3}{4} \times 18''$  guide bar and pivoting work support body with pointer and calibrations reading through 120° swing. Adjustable, positive stops at 90° and 45° positions. Accommodates No. 34-568 Clamp Attachment. 3½ lbs.

**No. 41-052 Motor Pulley,** 3½" diameter, ½" bore. ½ lb.

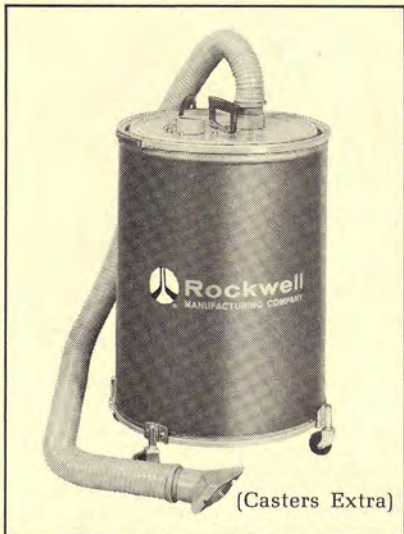
**No. 41-053 Motor Pulley,** 3½" diameter, ⅝" bore. ½ lb.

**No. 41-054 Motor Pulley,** 3½" diameter, ¾" bore. ½ lb.



**No. 49-230 90° Elbow,** 2½" diameter. Attaches to 22-835 belt and pulley guard. Deflects chips downward into any container. ¼ lb.

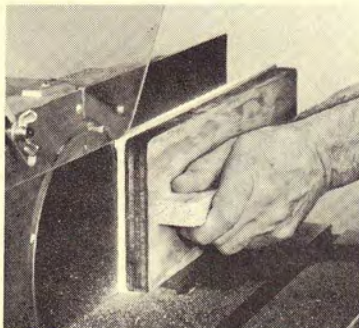
**No. 49-245 Four-Wheel Caster Set** for 28-Gallon Vacuum Cleaner. 3 lbs.



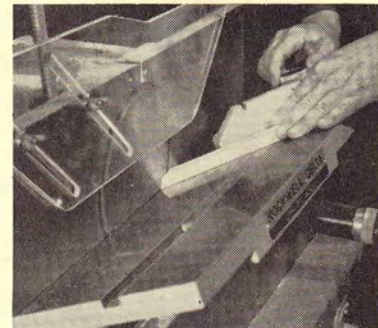
**No. 49-255 All-Purpose Vacuum Cleaner,** 28-gallon capacity, complete with 6 amp motor, switch and cord; filter bag, fiber collector drum; 2½" diameter x 6' hose and 3" x 6" rectangular nozzle. 24 lbs.

**No. 50-138 Steel Stand,** enclosed type, 16" wide x 26" long x 30½" high. Completely encloses motor and electrical controls. Equipped with floor mounting holes. 82 lbs.

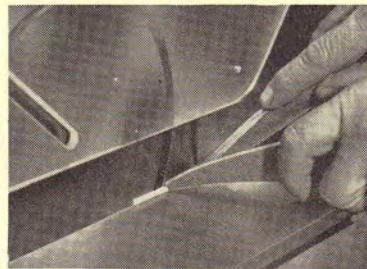
## The Rockwell UNIPLANE Does More Operations Safer Than Any Other Machine!



PLANES THIN MATERIAL SMOOTHLY



TRIMS COMPOUND MITERS ACCURATELY



SURFACES EXTRA SMALL PIECES SAFELY



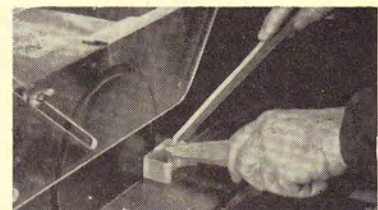
DRESSES HARD OR SOFT WOODS EASILY



CHAMFERS SMALL PIECES WITH COMPLETE SAFETY



TRIMS COMPOSITIONS EXACTLY



FINISHES PLASTICS WITH EASE



JOINTS PLYWOODS AND LAMINATES SMOOTHLY

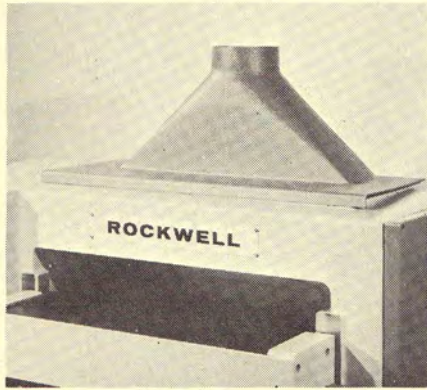


SQUARES ENDS PERFECTLY USING MITER GAGE

Note: Guard raised for photo clarity.

# ROCKWELL PLANER ACCESSORIES

## FOR 24" x 9" PLANER



**No. 22-501 Shaving Hood**, with 6" diameter opening. 20 lbs.

**No. 22-502 Knife Grinding Attachment.** Complete with Grinding wheel and fractional horsepower, high speed, universal type, 230 V, 25/60 hertz, single phase motor. Grinder may be permanently mounted on machine without removing shaving hood or standard cover. Unit is immediately available for grinding planer knives, eliminating costly set-up and tear-down time. 87 lbs.

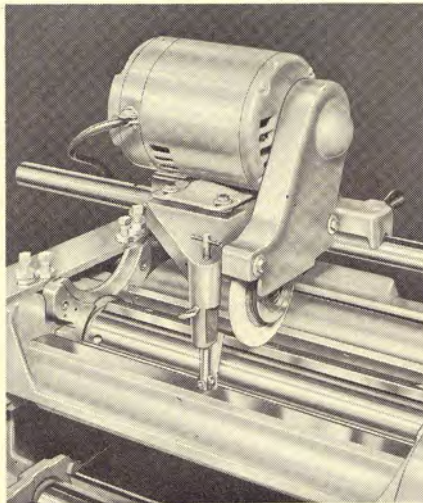
**No. 22-504 Cutterhead Knives**, extra set of four.

## FOR 18" x 6" PLANER

**No. 22-800 Set of 3 Knives.** 3 lbs.



**No. 22-801 Shaving Hood** with 6" diameter opening. 11 lbs.



**No. 22-802 Knife Grinding and Jointing Attachment.** Complete with  $\frac{1}{8}$  HP, 115/230 V, 60 hertz, single phase motor. Includes 115 V 8-foot cord with 3-prong grounding type plug. Allows you to grind new bevel edges on the planer knives without removing the cutterhead from the planer. 58 lbs.

**No. 22-803 Redi-Set Adjustable Bed Roll Attachment.** 13 lbs.

**No. 22-804 Redi-Set Adjustable Bed Roll Attachment**, same as 22-803 but price includes installation at factory when ordered as new equipment on new planers. 13 lbs.

**No. 22-810 Motor Coupling**,  $\frac{7}{8}$ " x  $1\frac{1}{8}$ " bore.  $1\frac{1}{2}$  lbs.

**No. 22-811 Motor Coupling**,  $1\frac{1}{8}$ " x  $1\frac{1}{8}$ " bore.  $1\frac{1}{2}$  lbs.

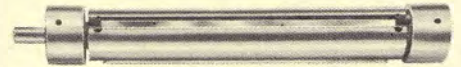
**No. 22-812 Variable Speed Pulley** for feed drive. 3 lbs.

**No. 41-517 Two-Groove Pulley** for motor or cutterhead,  $1\frac{1}{8}$ " bore. 3 lbs.

**No. 49-112 Set of Two V-Belts**,  $35\frac{1}{2}$ " O.C., for cutterhead drive.

**No. 49-149 V-Belt**, 33" O.C., for feed drive.  $\frac{1}{2}$  lb.

## FOR 13" x 6" PLANER



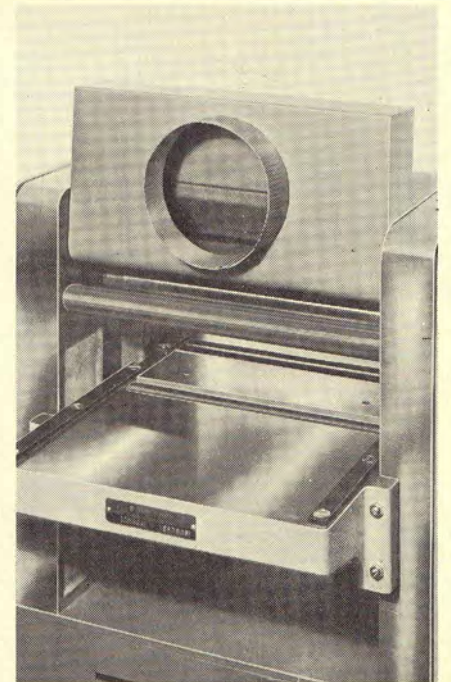
**No. 22-420 Ball Bearing, 3-Knife Cutterhead.** Includes 22-128 set of three H.S.S. knives, knife adjusting screws, bearings and bearing housings. 30 lbs.

**No. 22-128 High-Speed Steel Knives**, extra set of three. 3 lbs.

**No. 22-426 Knife Grinding and Jointing Attachment.** Complete with 22-813 grinding wheel; 115 V, 60 hertz, single phase motor and 115 V 8-foot cord with 3-prong grounding type plug. Allows you to grind new bevel edges on the planer knives without removing the cutterhead from the planer. 40 lbs.

**No. 22-813 Grinding Wheel.** Replacement for 22-426 Knife Grinding and Jointing Attachment. 2 lbs.

**No. 22-423 Jointing Stone.** Replacement for 22-426 and 22-421 Grinding and Jointing Attachments. 1 lb.



**No. 22-422 Shaving Hood.** For use only with dust vacuum system connecting to 6" diameter pipe. 7 lbs.

**No. 22-424 Cutterhead Drive Belt**, 7M Polyflex, 66.9" O.C. Included with basic machine. 2 lbs.

**No. 49-169 Variable Feed Drive V-Belt**, 50" O.C. Included with basic machine. 2 lbs.

**No. 22-425 Motor Pulley**, special type,  $1\frac{1}{8}$ " bore. Included with basic machine. 8 lbs.

# Rockwell Professional Power Tools

The industry's best portable power tools . . . and we have them!

Designed for rugged, continuous production operations, they have the many convenience and performance features that industrial users want. That's why they can outperform comparable tools!

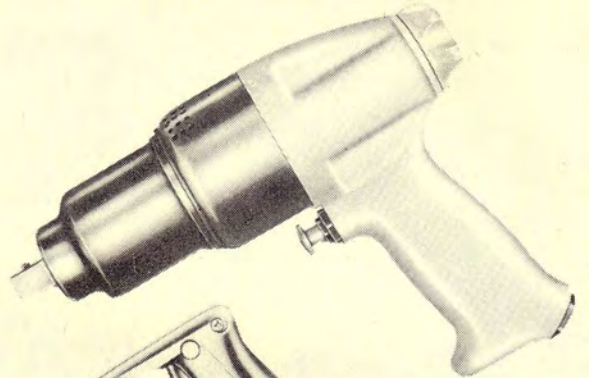
You name the job—sawing . . . drilling . . . cutting . . . fastening . . . sanding . . . grinding—there's a Rockwell Professional Power Tool to suit the application.

Make us prove that Rockwell Professional Power Tools really are superior in features and performance . . . ask for a free demonstration.

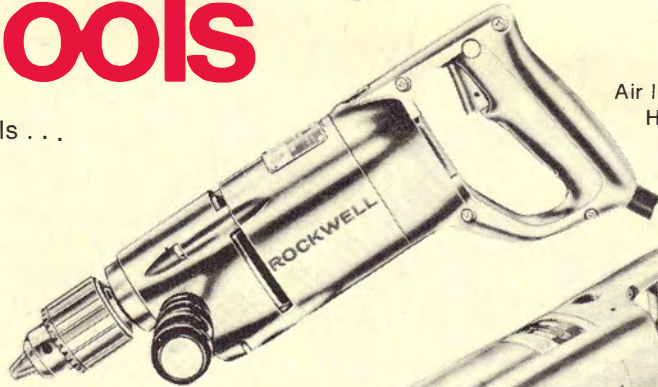


*Try a  
Rockwell GTO  
Power Tool  
on Your Job!*

*To arrange for  
a demonstration,  
simply call or  
come in to see us!*



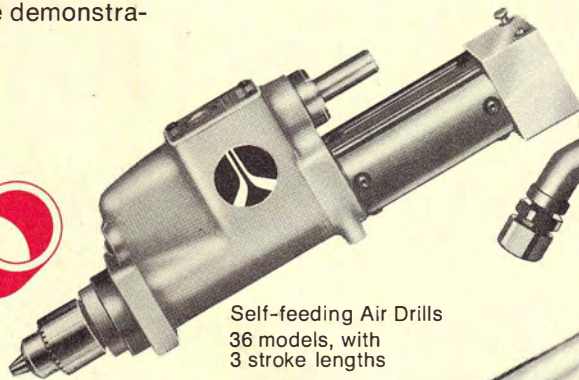
Air Impact Wrenches  
Highest power-to-weight ratio in the industry



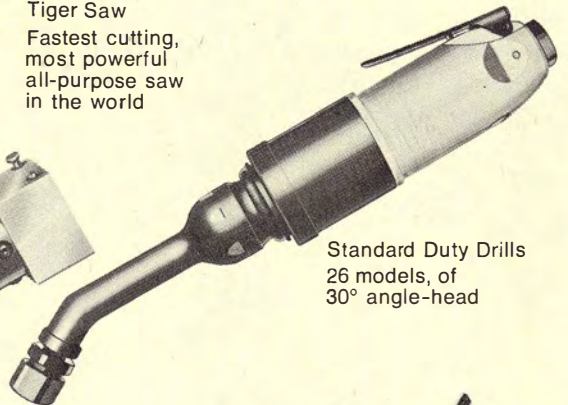
Drills  
19 models,  
three handle styles,  
500 to 5000 rpm



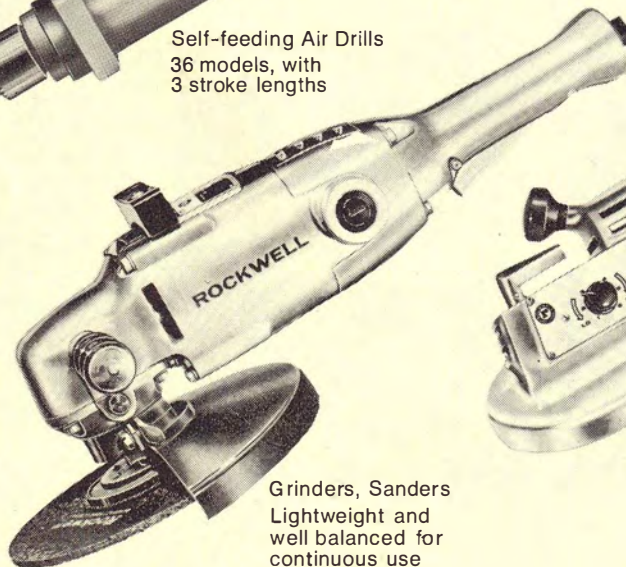
Tiger Saw  
Fastest cutting,  
most powerful  
all-purpose saw  
in the world



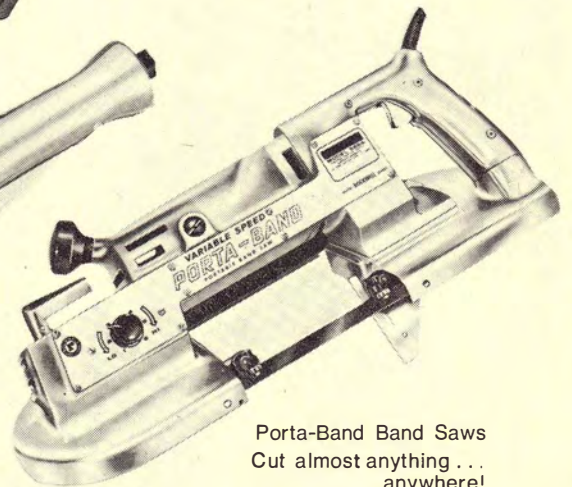
Self-feeding Air Drills  
36 models, with  
3 stroke lengths



Standard Duty Drills  
26 models, of  
30° angle-head



Grinders, Sanders  
Lightweight and  
well balanced for  
continuous use



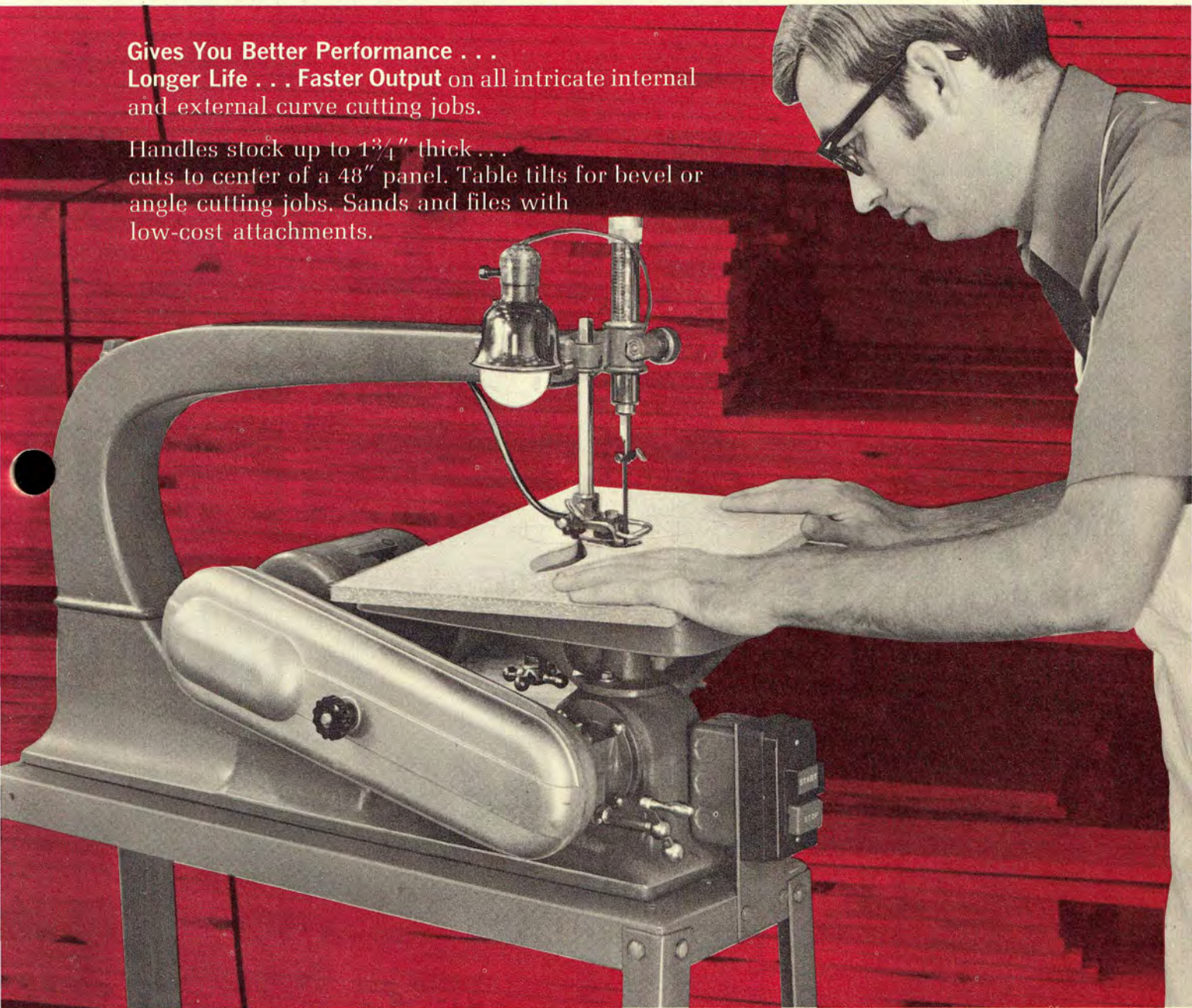
Porta-Band Band Saws  
Cut almost anything . . .  
anywhere!

# ROCKWELL 24" SCROLL SAW

*First Choice In Woodworking Shops Everywhere!*

Gives You Better Performance . . .  
Longer Life . . . Faster Output on all intricate internal  
and external curve cutting jobs.

Handles stock up to 1 $\frac{3}{4}$ " thick . . .  
cuts to center of a 48" panel. Table tilts for bevel or  
angle cutting jobs. Sands and files with  
low-cost attachments.

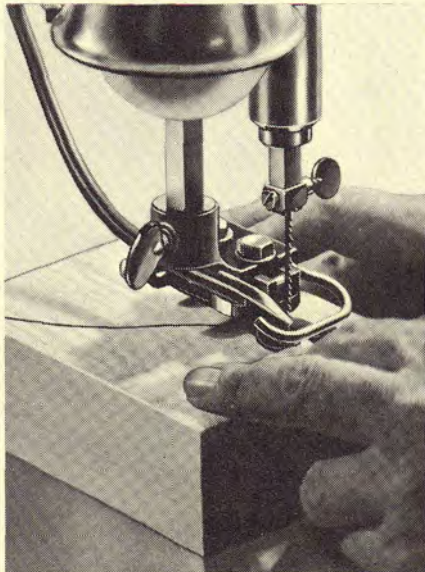


*Choice of Variable-Speed or Four-Speed Models!*

# Rockwell 24" Scroll Saw

## QUALITY FEATURES THAT ASSURE BETTER PERFORMANCE, LONGER LIFE, FASTER OUTPUT!

**A. Big Capacity**—Cuts stock up to 1¾" thick . . . offers full 24" arm-to-blade capacity for ripping. Converts to saber saw, with removal of overarm, for cutting materials of unlimited size.



A.

**B. Handy Blade Tensioning Control**—permits accurate adjustment of blade tension best suited for each type of blade or particular job. Assures longer blade life; minimizes blade breakage.

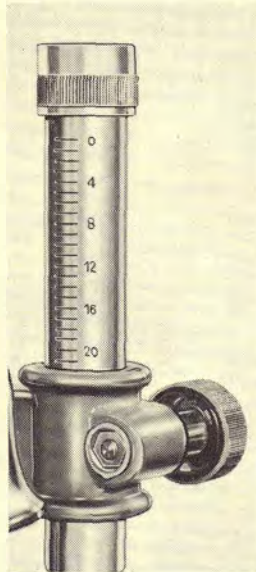
**C. Convenient Spring Hold-Down**—for added accuracy and ease of operation. Holds work firmly against the table, even on bevel cutting operations. Prevents material from lifting with up-stroke of blade.

**D. Positive Grip Chuck**—securely holds flat, blank-end saw blades, plus round shank accessories including sanding attachment and machine files. Chuck's 90° rotating feature permits an unlimited length of cut on extra long material.

**E. Extra Large Table**—measures a full 14" x 14"—provides ample support for large, bulky panels and other hard-to-handle materials. Table tilts 45° right and 15° left for standard bevel cutting; 45° front for beveling of extra long stock.

**F. Exclusive Rockwell Safety Control Station**—Extra operator safety is provided on Rockwell Delta 24" Scroll Saws with 24 volts at the push button station and magnetic control. On three phase systems overload protection is provided on all three legs. Shrouded green "start" button prevents accidental starts while protruding red "stop" button is extra large for quick, emergency stops. Switch cover and buttons are made of non-conductive material for added safety.

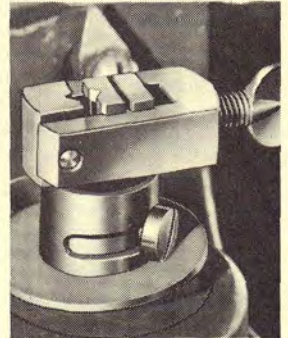
**G. Universal Blade Guide and Roller Support**—rigidly supports all types of blades, including saber blades, in true alignment



B.



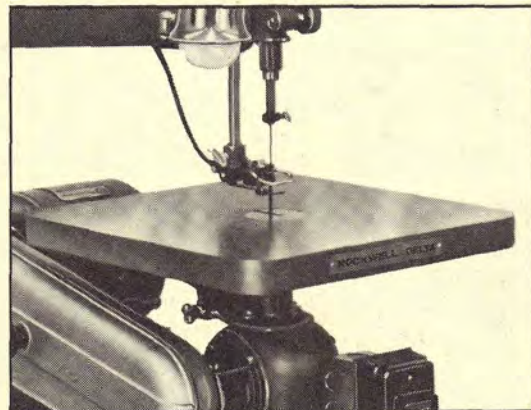
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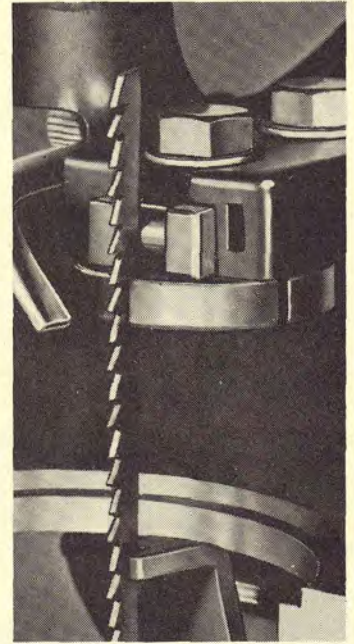
D.



F.



E.



G.

for smoother, more accurate cutting.

## ROCKWELL QUALITY EXTRAS

**Splash-System Lubrication**—automatic lubrication of the Timken bearing crankshaft assures smooth scroll saw performance. Oil level may be easily and quickly checked; re-filled as needed.

**Built-In Air Blower**—keeps cutting line free of nuisance dust. Operates off of shaft driven pump making air available even for saber blades.

**Wide Range of Speeds**—permits cutting of a variety of materials—soft and hard woods, ferrous and non-ferrous metals, plastics, etc. You simply turn the up-front variable speed control handle to set the speed you need for the best possible cutting results. Four speed model offers the four most popular cutting speeds within the preferred 610 to 1725 CSM speed range.

**Complete Line of Blades**—Rockwell makes available more than 24 different blades in a variety of widths and profiles. There's a blade for every type of sawing job, almost any material!

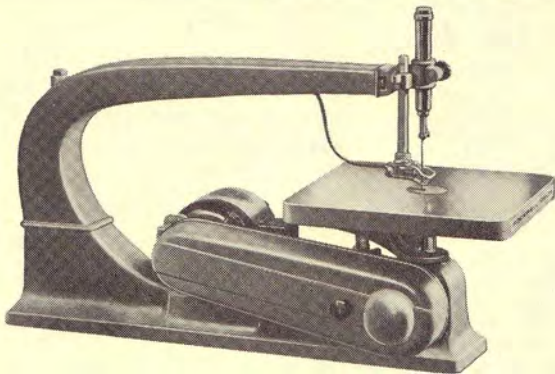
# ROCKWELL 24" SCROLL SAW



Certified  
in Canada.



**No. 40-306 24" Variable Speed Scroll Saw**  
Shown with Accessory No. 49-363 Retractable Casters and No. 40-882 (old 882) Lamp Attachment.



**No. 40-440 (old 1440) 24" Scroll Saw** Shown with No. 40-207 (old 1207) Four Speed Accessory Group, No. 40-203 (old 1203) Guard and Electricals.

Rockwell Delta 24" Scroll Saws are big capacity, rugged machines that handle everything from fine, intricate work to large, bulky panels. They are first choice in school shops, cabinet shops, display shops, pattern shops . . . wherever there exists the problem of doing internal or external precision cutting of irregular shapes.

Whether you select the Rockwell Delta Four-Speed Model with speeds of 610, 910, 1255 and 1725 C.S.M., or the Variable-Speed Model with speeds from 650 to 1700 C.S.M., your Delta Scroll Saw contains all these built-in, high quality features: Timken-bearing crankshaft, automatically lubricated from splash system in crankcase . . . shaft driven blower pump which makes air available even for saber blades . . . universal tilting table that tilts 45° right -15° left for normal bevel cutting and 45° front for bevel cutting of extra long stock and more.

## MACHINE DATA

### Capacities:

Arm to Blade . . . . . 24" (609.6 mm)  
Thickness of Cut . . . . . 1<sup>3</sup>/<sub>4</sub>" (44.45 mm) Maximum  
Chucks Can Be Rotated For Unlimited Length of Cut.  
Overarm Can Be Removed For Unlimited Cutting Capacity With Saber Blade.

### Table:

Size . . . . . 14" x 14" (355.6 x 355.6 mm)  
Tilt . . . . . 45° Right, 15° Left, 45° Front  
From Floor on Stand . . . . . 42<sup>1</sup>/<sub>4</sub>" (1073.1 mm)

### Speeds:

Variable Speed Model . . . . . 650 to 1700 C.S.M.\*  
Four-Speed Model . . . . . 610, 910, 1255, 1725 C.S.M.\*

### Overall Dimensions:

Length . . . . . 36" (914.4 mm); Width . . . . . 15" (381 mm)  
Height (on Stand) . . . . . 55" (1397 mm)

\*Cutting Strokes Per Minute

## STANDARD EQUIPMENT

**Basic Machine** includes one saber blade and three scroll saw blades. Motor and controls, pulleys, V-belt and belt guard must be ordered separately.

For complete range of accessories, see Page 4.



## CATALOG LISTING

**No. 40-440 (old 1440) Basic Machine:** 24" Scroll Saw with one saber blade and three scroll saw blades. Without motor, switch, pulleys, belt, belt guard and stand. 100 lbs.

**COMPLETE 24" SCROLL SAW, Ready to Run, with Unassembled Steel Stand.**

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HZ. AND MOTOR RPM	MOTOR VOLTAGE	SHIP. WT. LBS.	FOUR-SPEED MODEL		VARIABLE SPEED MODEL	
						MACHINE CAT. NO.	MACHINE CAT. NO. 200 V	MACHINE CAT. NO.	MACHINE CAT. NO. 200 V
Single Phase 1/2 Horsepower	24 V Push Button Magnetic Control System with Overload Protection (LVC)	GD	60-1725	115/230	176	40-216		40-306	
	Toggle Switch Only, On Motor	GD	60-1725	115/230	170	40-219		40-309	
Three Phase 1/2 Horsepower	24 V Push Button Magnetic Control System with 3-Leg Overload Protection (LVC)	GD	60-1725	230/460	176	40-217	40-218	40-307	40-308

**NOTE:** Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single

phase only. Motors and Motor Controls for Rockwell Delta 24" Scroll Saws may be ordered unmounted. For listing, see Sections P and Q.

# ROCKWELL 24" SCROLL SAW

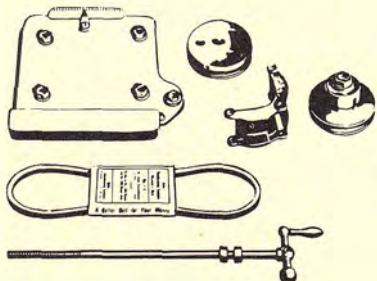
## QUALITY ACCESSORIES MAKE THE 24" SCROLL SAW MORE VALUABLE

**No. 50-718 Steel Stand**, 8 x 34 x 31½" high. 34 lbs.

**No. 49-363 Retractable Caster Set**. For 50-718 Steel Stand. 12 lbs.

**No. 40-207 (old 1207) Four-Speed Accessory Group**. Consists of 41-712 Motor Pulley (½" bore), 41-722 machine pulley and 49-340 (old 340) V-belt. 3 lbs.

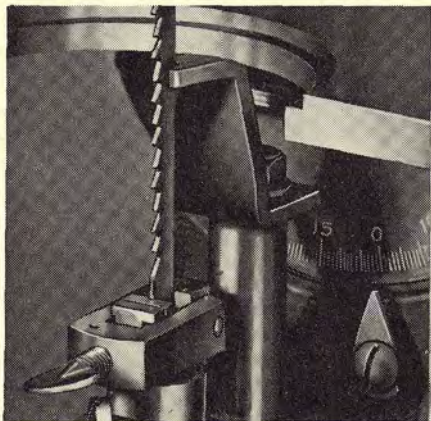
**No. 40-203 (old 1203) Belt and Pulley Guard**. For use with 40-207 (old 1207) Four-Speed Accessory Group. 6 lbs.



**No. 40-444 (old 1444) Variable Speed Accessory Group**. Converts the Four-Speed 24" Scroll Saw to a Variable Speed Model. This efficient drive, with a range of 650 to 1700 cutting strokes per minute, provides the proper cutting speed for any material—high speed for fast, fine work—slow speed for heavy work—and an infinite choice of speeds in between. A convenient speed control handle permits fine speed adjustment—even within 1 or 2 C.S.M.—while the machine is running.

Consists of 40-446 (old 1446) variable-speed motor pulley (½" bore), 40-447 (old 1447) motor base with bracket, screws and handle, 49-303 (old 331) special V-belt and 40-443 (old 1443) special drive pulley (½" bore). 11 lbs.

**No. 40-442 (old 1442) Belt and Pulley Guard**. For use with 40-444 (old 1444) Variable Speed Assembly. 11 lbs.



**No. 40-204 (old 1204) Lower Saber Saw Blade Guides**. Support saber blade directly below table. Enable you to do perfect straight-line saber cutting because the blade is supported below the table as well as above.

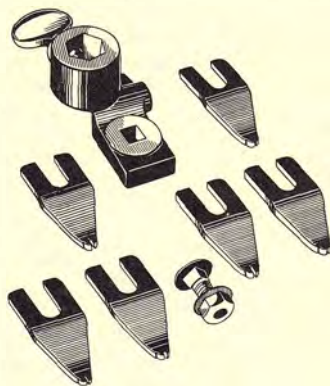
Consists of (2) lower guides with post, nut and thumb screw. Blade slots—.030" and .040". ⅝ lb.



**No. 40-711 (old 711) Sanding Attachment**. For sanding concave, convex or flat surfaces. Eliminates annoyance of makeshift devices. Knurled knob expands body of sanding attachment, tightens garnet sleeve securely, 1⅝" wide, ½" thick and 2½" long. ¼" dia. shank fits universal lower chuck of scroll saw. With one sleeve. ½ lb.

**Sanding Sleeves**. Package of 6. ¼ lb.

Number	Type	Grit and Finish
46-841 (old 841)	Garnet	No. 1 Medium
46-248 (old 842)	Garnet	No. 1/O Fine



**No. 40-202 (old 1202) Individual Blade Guides**. Supplement the regular guide and hold-down. Used where close following of a line or pattern is important. Ideal for puzzle and marquetry work.

Set of six different, hardened steel guides and bracket. 1 lb.



**No. 40-715 (old 715) Self-Centering Lower-Jaw Chuck**. Fits lower plunger of scroll saw. Valuable aid for fine marquetry and puzzle work. Fine blades are automatically guided to center of chuck, then locked with thumb screw. Includes special jaw for use with upper chuck. ⅝ lb.

**No. 40-882 (old 882) Lamp Attachment**. Eliminates shadows and brings light to your work where needed for accurate following of layouts, yet does not glare. Can be swung out of the way by a touch of the finger. Furnishes every machine with its own illumination, independent of the shop lighting system. Uses standard 15 or 25-watt bulb. Includes shade, socket, cord, four flat links, bolts, spacer and attachment bracket. 1½ lbs.

## SCROLL SAW BLADES

A proper blade for every job. All are 5" long with accurately spaced teeth. Heat treated for extra long life. Have ⅜" blank ends for fastening into chuck. ½ doz. to a package. ⅓ lb.

Cat. No.	Material Cut	Width In.	Teeth Per Inch	Blade Full Size
40-058 (Old 58)	Steel ■ Iron Lead ■ Copper Aluminum	.070	32	
40-159 (Old 59)	Pewter Asbestos Paper ■ Felt	.070	20	
40-160 (Old 60)	Steel ■ Iron Lead ■ Copper Brass	.070	15	
40-161 (Old 61)	Aluminum Pewter Asbestos	.085	15	
40-164 (Old 64)	Wood	.110	20	
40-165 (Old 65)	Asbestos ■ Brake Lining ■ Mica Steel ■ Iron Lead ■ Copper Brass Aluminum Pewter	.250	20	
40-184 (Old 84)	Wood Veneer Plus Plastics Celluloid Hard Rubber Bakelite Ivory Extremely Thin Materials	.035	20	
40-185 (Old 85)	Plastics Celluloid	.050	15	
40-187 (Old 87)	Bakelite	.070	7	
40-188 (Old 88)	Ivory ■ Wood	.110	7	
40-191 (Old 91)	Wall Board Pressed Wood Wood ■ Lead Bone ■ Felt Paper ■ Copper Ivory Aluminum	.110	15	
40-192 (Old 92)		.110	10	
40-193 (Old 93)	Hard and Soft Wood	.187	10	
40-194 (Old 94)		.250	7	
40-195 (Old 95)	Pearl ■ Pewter Mica	.054	30	
40-196 (Old 96)	Pressed Wood Sea Shells	.054	20	
40-198 (Old 98)	Hard Leather	.085	12	

*As a general rule, always select the narrowest blades recommended for intricate curve cutting and widest blades for straight and large curve cutting operations.*

## SABER BLADES FOR WOOD

Made of high-grade steel with teeth hardened and accurately set. Are 5" in length. ½ doz. to a package. ⅝ lb.

**No. 40-703 (old 703)** .025" thick, .187" wide, 9 teeth per inch.

**No. 40-704 (old 704)** .035" thick, .250" wide, 7 teeth per inch.

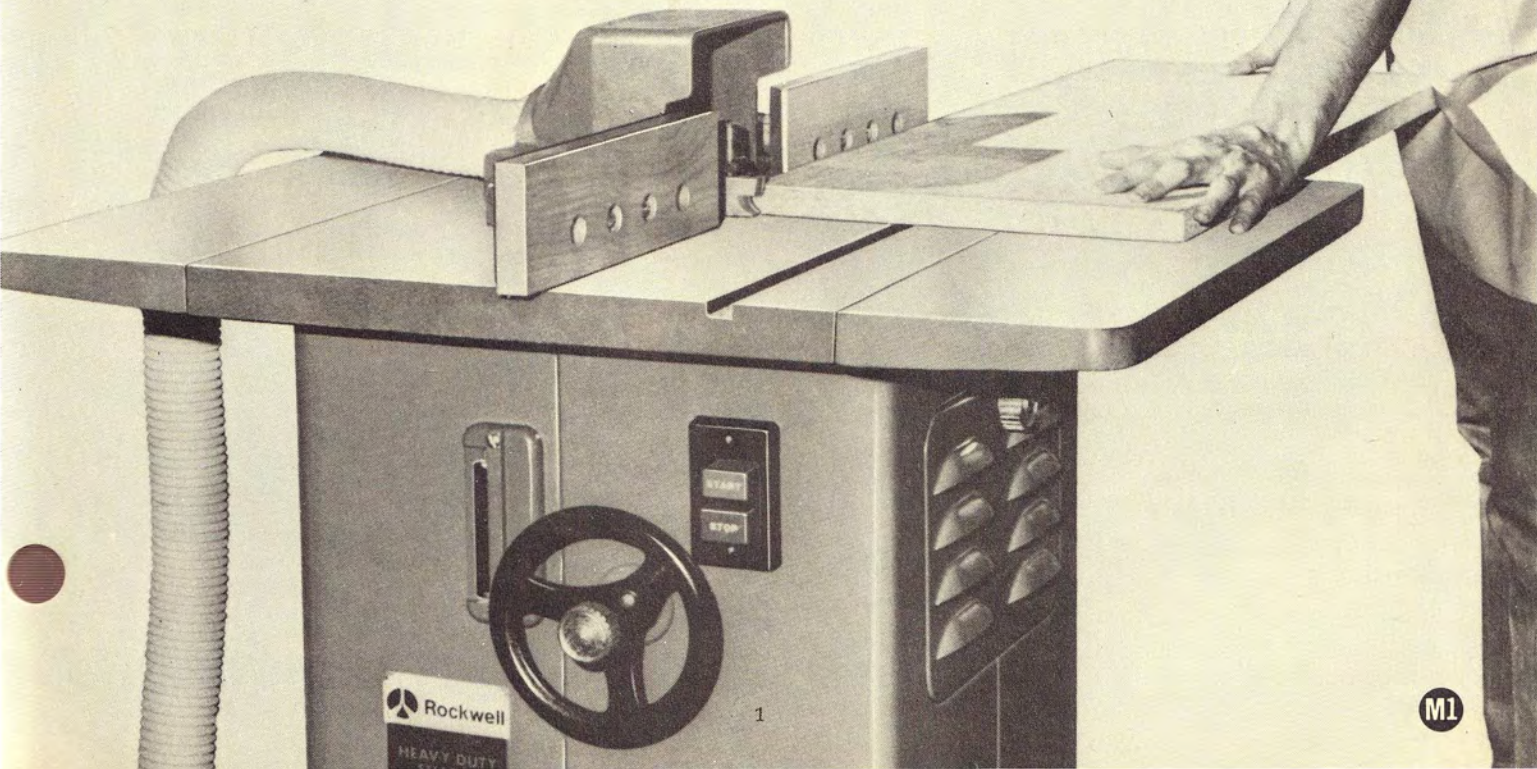
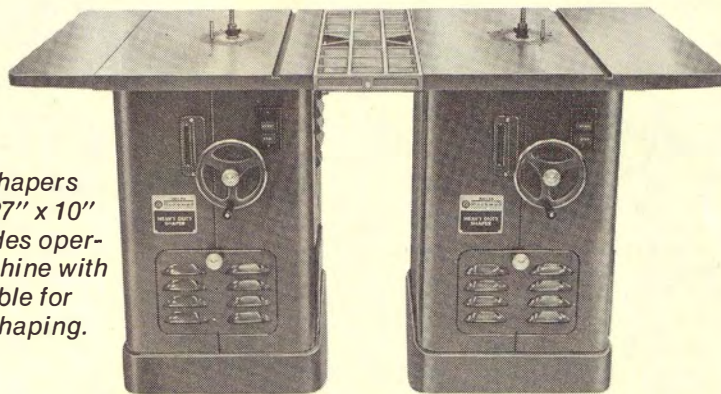
# ROCKWELL HEAVYDUTY WOOD SHAPER

A Heavy Duty, High Speed Production Shaper With  
An Interchangeable Spindle Feature For Unmatched Versatility!

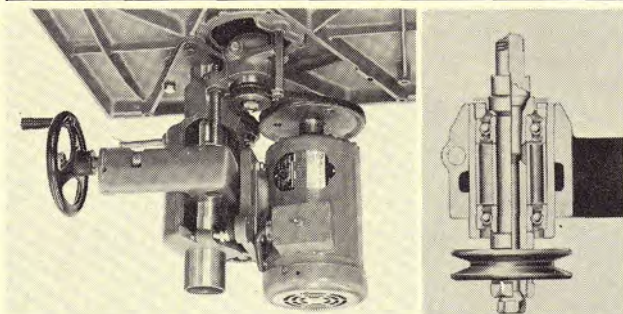
Six Spindles— $5/16''$ ,  $1/2''$ ,  $3/4''$  and  $1''$  standard,  
also  $1/2''$  stub and  $3/4''$  extra long—can be readily interchanged  
to permit use of a wide variety of cutters to produce an almost  
unlimited variety of moulded edges and wood joints.

## **Dual Shaper Set-Up Steps Up Production!**

Shown are two 43-350 Wood Shapers  
joined together with a 34-862 27" x 10"  
Table Extension. Set-up provides oper-  
ator with a double spindle machine with  
a 27" x 78" table surface, suitable for  
immediate right- or left-hand shaping.

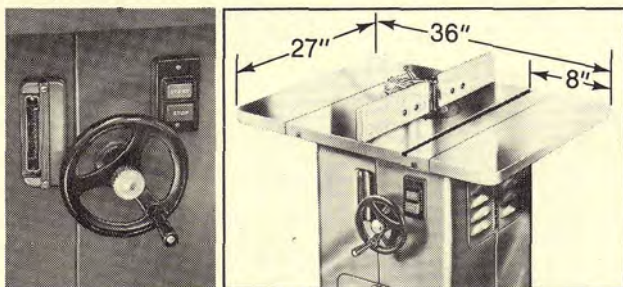


## QUALITY FEATURES THAT MAKE THE HEAVY DUTY SHAPER THE BIGGEST VALUE IN ITS CLASS!



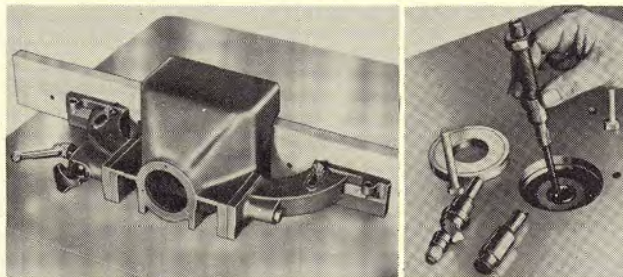
(Left) **Unitized Drive Mechanism**—The spindle, housing, motor, raising and lowering mechanism are a single self-contained unit, securely assembled to the under side of the table for absolute 90° spindle-to-table alignment.

(Right) **Rugged Spindle Assembly**—Short, rigid drive spindle and closely set lubricated-for-life ball bearings—pre-loaded to prevent distortion at high speeds—assure accurate, chatter-free shaping.



(Left) **Conveniently Grouped Controls**—The spindle adjusting hand wheel, spindle lock, height adjustment scale and starting switch all are grouped at the front of the machine within easy reach of the operator from his normal working position.

(Right) **Massive Table**—Measures a full 20" x 27". Can be increased to 36" x 27" by adding two extension wings. Furnishes ample support for shaping large work. Has precision ground face, ribbed under-table construction to prevent warping and springing. Milled  $\frac{3}{8}$ " x  $\frac{3}{4}$ " groove permits use of a variety of accessory work-holding devices, such as miter gage, tenoner and sliding shaper jig.



(Left) **Fully Adjustable Fence**—Both fence halves are independently adjustable for precise depth-of-cut settings using the same convenient control knob and locking lever. Fence halves measure a full  $3\frac{3}{4}$ " x  $12\frac{3}{8}$ " and adjust end-wise so that fence opening can be varied in direct relation to the cutter size for safer operation. Entire fence assembly can be easily removed for free-hand shaping of curved or irregular work.

(Right) **Interchangeable Spindles**— $\frac{5}{16}$ ",  $\frac{1}{2}$ ",  $\frac{3}{4}$ " and 1" standard spindles; a  $\frac{1}{2}$ " stub spindle for cope cutters and an extra-long  $\frac{3}{4}$ " spindle with  $4\frac{3}{8}$ " capacity under the nut, are readily interchangeable to permit use of a wide variety of shaper cutters. Table opening size can be varied, as needed, by removing special table insert rings.

### No. 43-350 Heavy Duty Wood Shaper

Shown With Accessory 43-349 Table Extension, Cutterhead and Electricals.



Nos. 43-350 and 43-351 and all electrical kits are



Certified in Canada.

This Rockwell Delta Shaper is engineered to accept six interchangeable spindles! It will handle  $\frac{5}{16}$ ",  $\frac{1}{2}$ ",  $\frac{3}{4}$ " and 1" standard spindles, a  $\frac{1}{2}$ " stub spindle, plus an extra long  $\frac{3}{4}$ " spindle with  $4\frac{3}{8}$ " capacity under the nut. There's practically no limit to the variety of cuts the Delta Shaper will produce because of the wide range of shaper cutter sizes it will accommodate. Because of its unmatched shaping versatility, it's a favorite in cabinet shops, furniture factories, specialty shops, school shops, sash and door companies and similar installations.

## MACHINE DATA

### Spindle:

Diameters Furnished . . .  $\frac{1}{2}$ " (12.7 mm) and  $\frac{3}{4}$ " (19.05 mm)  
Diameters (Accessory Equipment) . . .  $\frac{5}{16}$ " (7.9 mm) and 1" (25.4 mm);  $\frac{3}{4}$ " (19.05 mm) Extra Long and  $\frac{1}{2}$ " (12.7 mm) Stub

### Capacity (Under Nut):

1" (25.4 mm) Spindle . . . . . 4" (101.6 mm)  
 $\frac{3}{4}$ " (19.05 mm) Spindle . . . . .  $3\frac{1}{4}$ " (82.5 mm)  
 $\frac{3}{4}$ " (19.05 mm) Spindle (Extra Long) . . . . .  $4\frac{3}{8}$ " (111.1 mm)  
 $\frac{1}{2}$ " (12.7 mm) Spindle . . . . .  $2\frac{1}{2}$ " (63.5 mm)  
 $\frac{5}{16}$ " (7.9 mm) Spindle . . . . .  $1\frac{1}{2}$ " (38.1 mm)  
Travel . . . . . 3" (76.2 mm)

Speed . . . . . 10,000 RPM

### Table:

Size . . . . . 20" x 27" (508 x 685.8 mm)  
Size (With Extra Extension) . . . . . 28" x 27" (711.2 x 685.8 mm)  
Size (With Two Extra Extensions) . . . . . 36" x 27" (914.4 x 685.8 mm)  
Height . . . . . 34" (863.6 mm)  
Insert Opening Diameters . . . . .  $6\frac{3}{4}$ " (171.4 mm)  
 $3\frac{1}{2}$ " (88.9 mm); 3" (76.2 mm) and  $1\frac{3}{8}$ " (34.9 mm)

Fence Size (Each Side) . . . . .  $3\frac{3}{4}$ " x  $12\frac{3}{8}$ " x  $1\frac{5}{16}$ " (95.2 x 314.3 x 23.8 mm)

### Overall Dimensions:

Width . . . . . 20" (508 mm)  
Width (With Two Extra Extensions) . . . . . 36" (914.4 mm)  
Depth . . . . . 27" (685.8 mm); Height . . . . .  $37\frac{3}{4}$ " (958.8 mm)

### Motor:

Accommodates NEMA Frame Motors 56 and 145T

## STANDARD EQUIPMENT

**Basic Machine** includes fence guard assembly,  $\frac{3}{4}$ " and  $\frac{1}{2}$ " spindles, one table extension, table inserts, starting pin, spindle pulley and wrenches.

# ROCKWELL HEAVY DUTY WOOD SHAPER

## CATALOG LISTING

**No. 43-350 Wood Shaper** with one 43-349 8" x 27" Table Extension, 43-830 Deluxe Fence Guard Assembly, 43-937 3/4" Spindle, 43-347 1/2" Spindle, Table Inserts, Starting Pin, Spindle Pulley, and Wrenches. Without Motor, Controls, Motor Pulley, V-Belt or Cutters. 322 lbs.

**No. 43-351 Wood Shaper.** Same as 43-350, except with 43-828 1" Spindle Cartridge Assembly in Place of Standard Spindle Cartridge Assembly. 325 lbs.

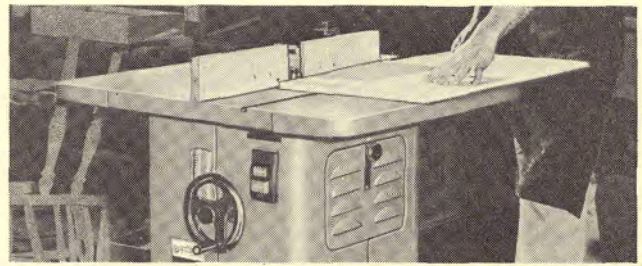
**No. 43-349 Table Extension,** solid type, 27" x 8". Increases 28" x 27" table with one extension to 36" x 27" when second extension is added. 25 lbs.

**MOTORS AND CONTROLS (Factory Mounted and Wired) NOTE:** Motor Pulley and V-Belt Included

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT., LBS	CATALOG NUMBER	CAT. NO. 200V
Single Phase, 1 Horsepower	Push Button Switch Only	TEFC	60-3450	115/230	65	52-328	
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-3450	115/230	85	52-330	
Single Phase, 2 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-3450	115/230	95	52-333	
Three Phase, 2 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-3450	230/460	75	52-345	52-342
Three Phase 3 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-3450	230/460	80	52-403	52-404

\*All Motors Supplied with Integral Reversing Switch.

**NOTE:** Single phase, 1 HP electricals will be supplied wired for 115 V, unless 230 V is specified. Single phase 2 HP electricals will be supplied wired for 230 V only. Three phase electricals will be supplied wired for



Heavy Duty Wood Shaper shown with No. 43-354 Fence.

230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only. Motors and Motor Controls for Rockwell Delta Heavy Duty Shapers may be ordered unmounted. For listing, see Sections P and Q.

## ROCKWELL QUALITY ACCESSORIES FOR INCREASED JOB PERFORMANCE

**No. 43-347 (old 1347) 1/2" Spindle.** Included with basic machine. For 3-lip shaper cutters with 1/2" hole. 1 lb.

**No. 43-345 (old 1345) 1/2" Stub Spindle.** For cope cutters with 1/2" hole. 1 lb.

**No. 43-937 3/4" Spindle.** Included with basic machine. For use with cutterheads with 3/4" hole. 3/4 lb.

**No. 43-826 Extra Long 3/4" Spindle Cartridge Assembly** for clockwise or counter-clockwise rotation. Provides 4 3/8" capacity under nut. For use with wide cutters for fluting and reeding. 2 lbs.

**No. 43-828 1" Spindle Cartridge Assembly** for use with 1" hole cutters. For clockwise or counter-clockwise rotation. 6 lbs.

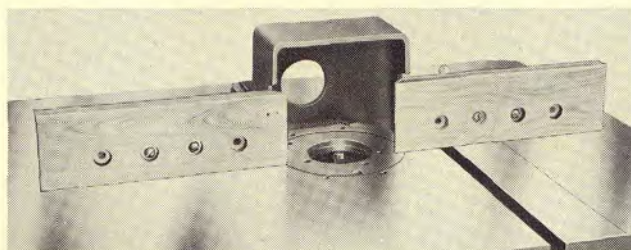
**No. 41-134 Motor Pulley,** 7 1/2" diameter, 3/4" bore. 3 lbs.

**No. 41-136 Motor Pulley,** 7 1/2" diameter, 5/8" bore. 3 lbs.

**No. 41-140 Motor Pulley,** 7 1/2" diameter, 3/8" bore. 3 lbs.

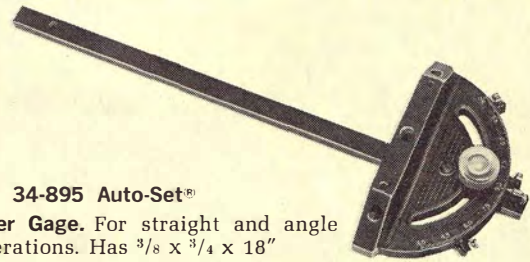
**No. 49-101 V-belt,** 29 1/8" O.C. 1/2 lb.

**No. 43-354 Shaper Fence.** Especially suited for use with small cutters. With two 3 3/4" x 12 3/8" fence halves that adjust independently for precise depth-of-cut settings, also adjust end-wise so that fence opening can be varied in direct relation to cutter size. 12 lbs.



**No. 43-830 Fence Guard Assembly.** For large diameter cutters. Fence halves adjust independently. Accommodates cutters up to 6" in diameter when used with 43-828 1" diameter Spindle Cartridge Assembly. Standard equipment with unit.

**No. 34-862 Table Extension,** open grid type, 27" x 10". 7 lbs.

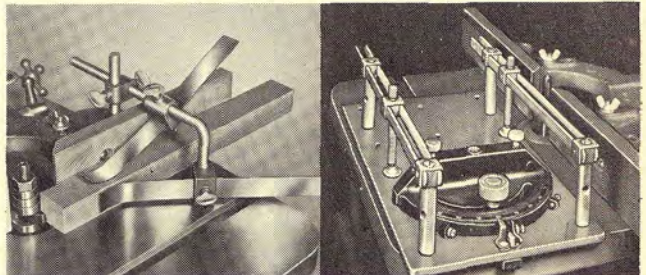


**No. 34-895 Auto-Set®**

**Miter Gage.** For straight and angle operations. Has 3/8 x 3/4 x 18" guide bar and pivoting work support body with pointer and calibrations reading through 120° swing. Adjustable, positive stops at 90° and 45° positions. Accommodates No. 34-568 (old 865) Clamp Attachment. 3 1/2 lbs.

**No. 34-568 (old 865) Clamp Attachment** for miter gage. Holds work evenly and safely when edge shaping with miter gage. Includes clamp bar, two sliding clamp screws, front and rear posts. 1 1/2 lbs.

**No. 34-873 (old 873) Extra Clamp Screw and Bracket** for clamp attachment. 2 lbs.



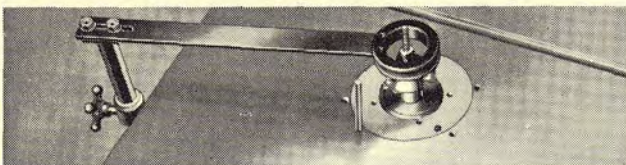
(Left) **No. 43-983 (old 983) Spring Hold Downs.** Used with shaper fence on straight shaping operations. Holds work firmly against fence and table. Accommodates work up to 3 1/2" thick, any length. 3 lbs.

(Right) **No. 43-186 (old 1186) Sliding Shaper Jig.** For horizontal shaping operations such as tenon and groove cutting. Securely holds short and narrow work, prevents slipping. 15 lbs.

**No. 43-170 (old 1170) Tenoner.** Used with 1186 Shaper Jig Base. Simplifies vertical shaping operations as in-face shaping and drawer construction. 19 lbs.

Continued on next page

## ACCESSORIES—Continued

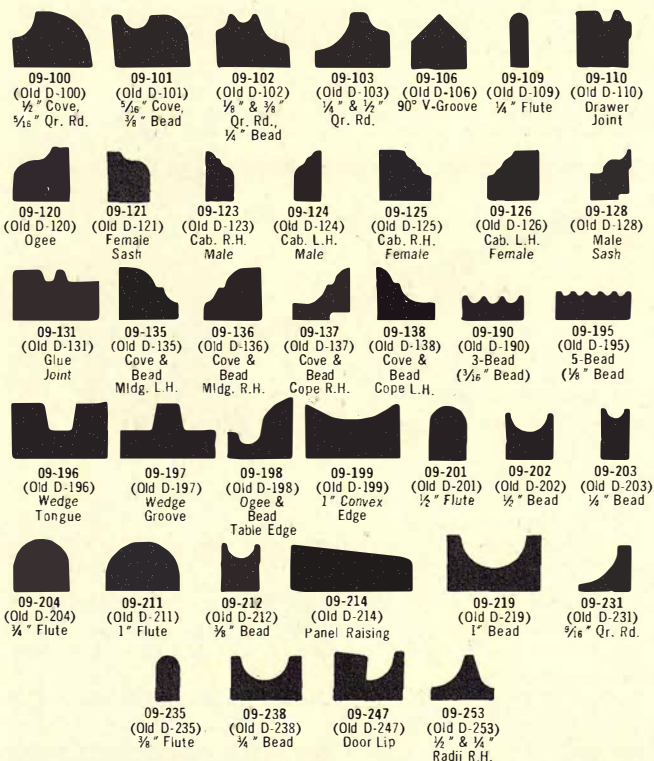


**No. 43-348 (old 1348) Safety Ring Guard.** For added safety and convenience on curved and circular edge shaping operations. Complete with mounting bracket. 9 lbs.

## 3-LIP SHAPER CUTTERS



All have  $\frac{1}{2}$ " spindle hole. Involute relief design permits honing of the face without changing the shape. Cutters 09-128 and 09-137 are counterbored to fit Stub Spindle No. 43-345 (old 1345). Cutters are shown  $\frac{3}{8}$  size.  $\frac{1}{2}$  lb. each.



## Straight Cutters— $\frac{1}{2}$ " Hole

Number	Thickness	Dia.	Number	Thickness	Dia.
09-107 (Old D-107)	$\frac{1}{2}$ "	1 $\frac{7}{8}$ "	09-108 (Old D-108)	$\frac{3}{4}$ "	1 $\frac{13}{16}$ "
09-130 (Old D-130)	$\frac{3}{4}$ "		09-127 (Old D-127)	$\frac{3}{8}$ "	2 $\frac{7}{16}$ "
09-104 (Old D-104)	1"	09-139 (Old D-139)	$\frac{1}{4}$ " & $\frac{1}{2}$ "	2 $\frac{7}{16}$ "	
09-105 (Old D-105)	1 $\frac{1}{2}$ "	09-129 (Old D-129)	$\frac{3}{8}$ "		

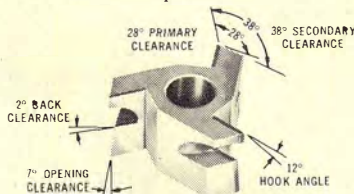
## Spacing Collars— $\frac{1}{2}$ " Hole

Number	Dia.	Thickness	Number	Dia.	Thickness
09-133 (Old D-133)	$\frac{1}{16}$ "	$\frac{1}{8}$ "	09-144 (Old D-144)	1"	$\frac{3}{8}$ "
09-150 (Old D-150)	$\frac{1}{16}$ "	$\frac{3}{16}$ "	09-173 (Old D-173)	1 $\frac{1}{16}$ "	
09-155 (Old D-155)	$\frac{3}{4}$ "	$\frac{1}{4}$ "	09-145 (Old D-145)	1 $\frac{1}{8}$ "	
09-217 (Old D-217)	1 $\frac{3}{16}$ "		09-132 (Old D-132)	1 $\frac{3}{16}$ "	
09-134 (Old D-134)	1 $\frac{3}{16}$ "		09-141 (Old D-141)	1 $\frac{3}{16}$ "	
09-140 (Old D-140)	1 $\frac{3}{16}$ "		09-146 (Old D-146)	1 $\frac{3}{16}$ "	
09-215 (Old D-215)	1 $\frac{3}{16}$ "		09-174 (Old D-174)	1 $\frac{3}{16}$ "	
09-151 (Old D-151)	1 $\frac{3}{16}$ "		09-175 (Old D-175)	1 $\frac{3}{16}$ "	
09-142 (Old D-142)	$\frac{3}{4}$ "		09-176 (Old D-176)	1 $\frac{3}{16}$ "	
09-171 (Old D-171)	$\frac{3}{4}$ "		09-147 (Old D-147)	1 $\frac{3}{16}$ "	
09-143 (Old D-143)	$\frac{3}{4}$ "		09-148 (Old D-148)	1 $\frac{3}{16}$ "	
09-172 (Old D-172)	$\frac{3}{4}$ "		09-177 (Old D-177)	1 $\frac{3}{16}$ "	
		09-178 (Old D-178)	1 $\frac{3}{16}$ "		
		09-179 (Old D-179)	1 $\frac{3}{16}$ "		
		09-180 (Old D-180)	1 $\frac{3}{16}$ "		
		09-149 (Old D-149)	1 $\frac{3}{16}$ "		

## CARBIDE-TIPPED DOOR LIP SHAPER CUTTERS

The special design of the cutters assures a sharp edge on the tool lip, resulting in these user benefits: Cutter runs cool and will not overload the machine. Cutter lasts longer because a heavy cutting corner can be maintained. The cutter won't burn the work. Cutter stays sharp longer and will not heel. Finally, the pattern can be ground many times.

**No. 43-900 Door Lip Cutter.** For clockwise rotation. Cuts with rabbet down, feed left to right. 2 $\frac{3}{16}$ " diam. with bushing for use on  $\frac{1}{2}$ " and  $\frac{3}{4}$ " spindles. 10 oz.



**No. 43-901 Door Lip Cutter.** For counter-clockwise rotation. Same as 43-900 except right to left feed. 10 oz.

## COLLAR SETS— $\frac{1}{2}$ " HOLE

**No. 43-210 (old 1210) Set of 7 Collars.**  $\frac{3}{4}$ " to 1 $\frac{1}{4}$ " diameter. 09-142, 09-143, 09-144, 09-145, 09-171, 09-172, 09-173.  $\frac{1}{2}$  lb.

**No. 43-211 (old 1211) Set of 6 Collars.** 1 $\frac{3}{16}$ " to 1 $\frac{1}{2}$ " diameter. 09-141, 09-146, 09-147, 09-148, 09-174, 09-175. 1 lb.

**No. 43-212 (old 1212) Set of 6 Collars.** 1 $\frac{1}{16}$ " to 1 $\frac{1}{4}$ " diameter. 09-149, 09-176, 09-177, 09-178, 09-179, 09-180. 1 $\frac{1}{2}$  lbs.

**No. 43-191 (old 1191) Set of 4 Collars for Sash Cutters.** 09-140, 09-141, 09-150 and 09-151.  $\frac{1}{2}$  lb.

**No. 43-198 (old 1198) Set of Table Inserts With Guide Shoulders.** For templet shaping operations where collars are not used. Set of two—2 $\frac{3}{8}$ " and 1 $\frac{3}{8}$ " diameter. 1 $\frac{1}{2}$  lbs.

## CUTTER AND COLLAR SETS— $\frac{1}{2}$ " HOLE

**No. 43-182 (old 1182) Standard Cutter Set.** Consists of Cutters 09-100 to 09-109 inclusive and Collars 09-142 to 09-149 inclusive. Packed in wood box. 3 $\frac{1}{2}$  lbs.

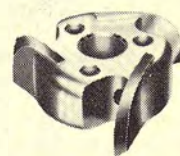
**No. 43-213 (old 1213) Cove and Bead Cutter Set.** Consists of Cutters 09-129, 09-135 to 09-139 inclusive and Collars 09-132 and 09-134. Packed with 43-345 Stub Spindle Assembly and SP-10 Wrench. 2 lbs.

**No. 43-214 (old 1214) Sash and Cabinet Cutter Set.** Consists of Cutters 09-108, 09-120, 09-121, 09-123 to 09-128 inclusive and Collars 09-140, 09-141, 09-150 and 09-151. Packed with 43-345 Stub Spindle Assembly and SP-10 Wrench. 3 lbs.

## 3-KNIFE SAFETY CUTTERHEAD

Enables circular saw moulding cutter knives to be used on the wood shaper.

**No. 43-343 (old 1343) Cutterhead.** Includes wrench and bushing for use with  $\frac{1}{2}$ " and  $\frac{3}{4}$ " shaper spindles. Furnished without knives. 1 lb. For actual size and shape of cutters, see Section "G6."



## SAFETY CUTTERHEAD AND BLANK KNIVES

For special mouldings that cannot be made with standard shaper cutters. Knives are self-hardening and sand-blasted so that desired cutter shape may be drawn directly on them and ground to shape.

**No. 43-342 (old 1342) Cutterhead.** For use with  $\frac{3}{4}$ " spindle. 2 $\frac{37}{64}$ " high, with tightening block; less knives. 1 $\frac{1}{2}$  lbs.

**No. 43-192 (old 1192) Cutterhead.** For use with  $\frac{1}{2}$ " spindle. 2 $\frac{37}{64}$ " high, with tightening block; less knives. 1 $\frac{1}{2}$  lbs.

**Blank Knives—Set of Two.** For use with 43-342 (old 1342) and 43-192 (old 1192) cutterheads. All  $\frac{1}{8}$ " thick with 30° clamping angle.  $\frac{1}{2}$  lb.



**NO. 43-342 Shown With Blank Knives**



Number	43-193 (old 1192)	43-194 (old 1194)	43-195 (old 1195)	43-196 (old 1196)
Size	$\frac{1}{2}$ x 2 $\frac{1}{2}$	$\frac{3}{4}$ x 2 $\frac{1}{2}$	1" x 2 $\frac{1}{2}$	1 $\frac{1}{2}$ x 2 $\frac{1}{2}$

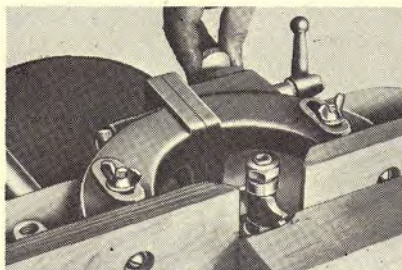
# ROCKWELL Light Duty **WOOD SHAPER**

*Ruggedly Built... Low In Cost!*

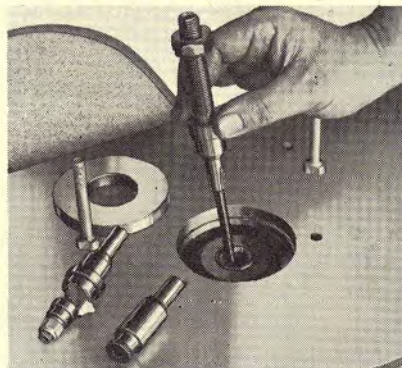


- Offers unlimited possibilities for making mouldings on straight, internal and external, curved and irregular surfaces.
- Three interchangeable spindles available— $5/16$ " and  $1/2$ " standard,  $1/2$ " stub.
- Quick positioning, cam type spindle raising and lowering mechanism for easy operation.
- Large, independently adjustable fence halves for maximum safety and top quality performance.
- Rugged spindle assembly—short, rigid drive spindle and closely spaced bearings—assures accurate, chatter-free shaping.
- See this **BIG VALUE** in action today!

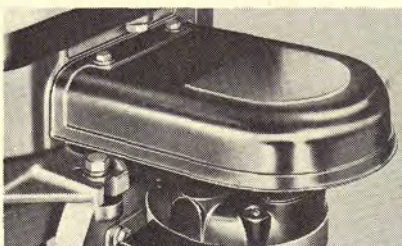
## ROCKWELL QUALITY FEATURES



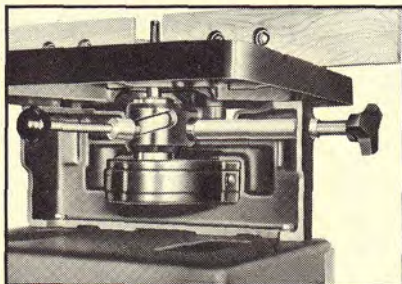
**Single Knob Control** insures accurate fence adjustments—both halves are independently adjustable for greater safety and convenience.



**Interchangeable Spindles**, including a stub spindle for cope cuts on windows and doors permit use of a wide variety of cutters.

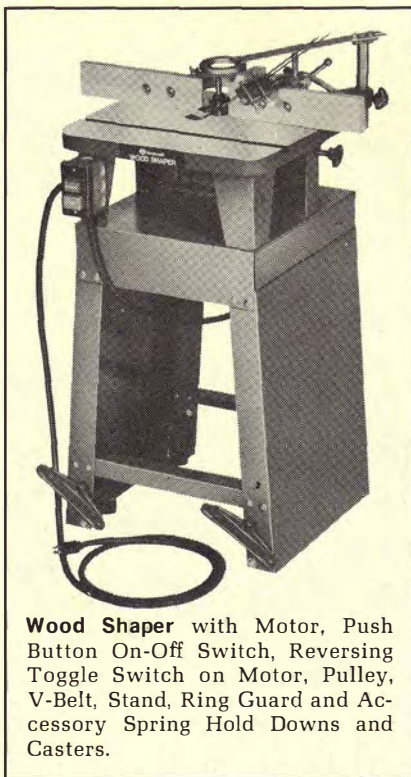


**Guard Completely Covers Motor**, belt and pulley for greater operator safety. Spring holddown, ring guard and other safety items available as accessories.



**Convenient Spindle Control Lever** under front of table facilitates height settings—special lock handle securely holds desired setting.

**Short, Rigid Spindle** (not shown) with closely spaced bearings, eliminates whip, assures smooth, clean work. Requires no lubrication for life of bearings.



**Wood Shaper with Motor, Push Button On-Off Switch, Reversing Toggle Switch on Motor, Pulley, V-Belt, Stand, Ring Guard and Accessory Spring Hold Downs and Casters.**

The Rockwell Wood Shaper offers unlimited possibilities for making mouldings on straight, internal and external, curved and irregular surfaces. Shaper cutters with  $\frac{1}{2}$ " hole can be used, also cope cutters using the  $\frac{1}{2}$ " stub spindle. This extreme versatility together with such quality features as precision ground  $15\frac{1}{2}$ " x 18" table . . . lubricated-for-life ball bearing spindle . . . fully adjustable fence . . . and more make the Rockwell Shaper an unequalled value.

## MACHINE DATA

### Overall Dimensions:

Width . . . . .  $25\frac{1}{2}$ " (647.7 mm)

Depth . . . . .  $25\frac{1}{2}$ " (647.7 mm)

Height:

Bench Model . . . . .  $10\frac{1}{2}$ " (266.7 mm)

On Stand . . . . . 37" (939.8 mm)

### Table:

Size . . . . .  $15\frac{1}{2}$  x 18" (393.7 x 457.2 mm)

Table Slot . . . . .  $\frac{3}{8}$  x  $\frac{3}{4}$ " (9.5 x 19.05 mm)

Insert Openings:

Diameter . . . . . 3" (76.2 mm) and  $1\frac{3}{8}$ " (34.9 mm)

### Fence Size:

Each Side  $.2\frac{3}{4}$  x  $11\frac{3}{8}$ " (69.8 x 288.9 mm)

### Working Height

On Stand . . . . . 34" (863.6 mm)

### Capacity:

$\frac{1}{2}$ " (12.7 mm) Spindle

(Under Nut) . . . . .  $.2\frac{3}{8}$ " (60.3 mm)

### Spindle:

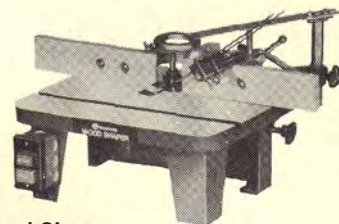
Travel . . . . .  $\frac{7}{8}$ " (22.2 mm)

Speed:

With 3450 RPM Motor . . . . . 9000 RPM

### Motor:

Accommodates NEMA Frame Motor 56



**Wood Shaper (Bench Model) with Accessory Spring Hold Downs.**

## CATALOG LISTING

**No. 43-120 Wood Shaper with Stand.** Includes Basic Machine, 50-513 Stand, Fence,  $\frac{1}{2}$ " Spindle, Table Insert, Starting Pin, Spindle Pulley, 43-805 Motor Pulley ( $\frac{5}{8}$ " Bore), 49-105 V-Belt, Belt and Pulley Guard, Ring Guard and Wrenches. 122 lbs.

## CONVENIENT ONE-NUMBER ORDERING

**No. 43-122 Wood Shaper with Stand and 1 HP Motor.** Includes 43-120 Shaper With Stand Plus 62-003 1 HP Single Phase Motor with Integral Reversing Switch, 52-346 Manual Control Push Button Switch, 49-513 115 V Power Cords and Plug Set. Not Assembled. 163 lbs.

## ACCESSORY EQUIPMENT

**No. 34-895 Auto-Set® Miter Gage.**  $3\frac{1}{2}$  lbs.

**No. 43-805 Motor Pulley,**  $\frac{5}{8}$ " bore. 2 lbs.

**No. 49-105 V-belt,**  $30\frac{1}{8}$ " O.C.  $\frac{1}{2}$  lb.

**No. 50-513 Steel Stand.**  $26\frac{1}{4}$ " high. 35 lbs.

**No. 50-118 Retractable Casters.** 12 lbs.

**No. 43-354 Shaper Fence.** Included with basic machine. 12 lbs.

**No. 43-190 (old 1190) Stub Spindle.** For counterbored  $\frac{1}{2}$ " hole 3-lip shaper cutters: 09-128 (old D-128) and 09-137 (old D-137). 1 lb.

**No. 43-935  $\frac{1}{2}$ " Spindle.** Included with basic machine. For  $\frac{1}{2}$ " hole 3-lip shaper cutters. 1 lb.

**No. 43-198 (old 1198) Table Insert.** With Guide Shoulders. For shaping with template without the use of collars. 3" O.D. and  $1\frac{3}{8}$ " I.D.

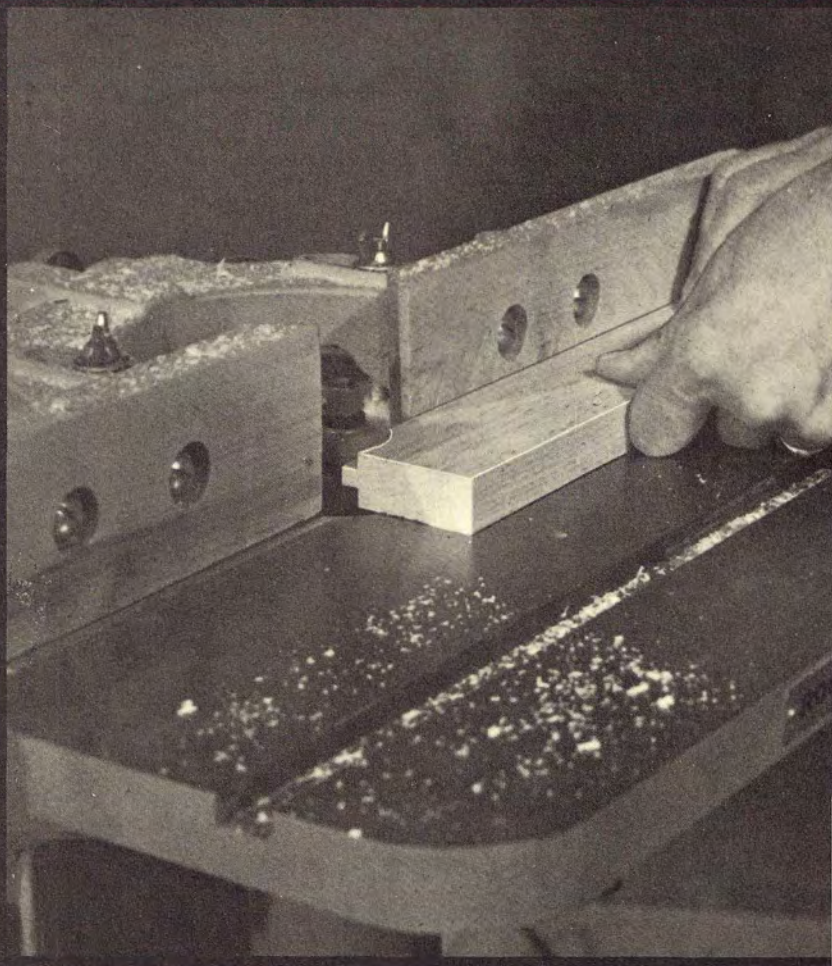
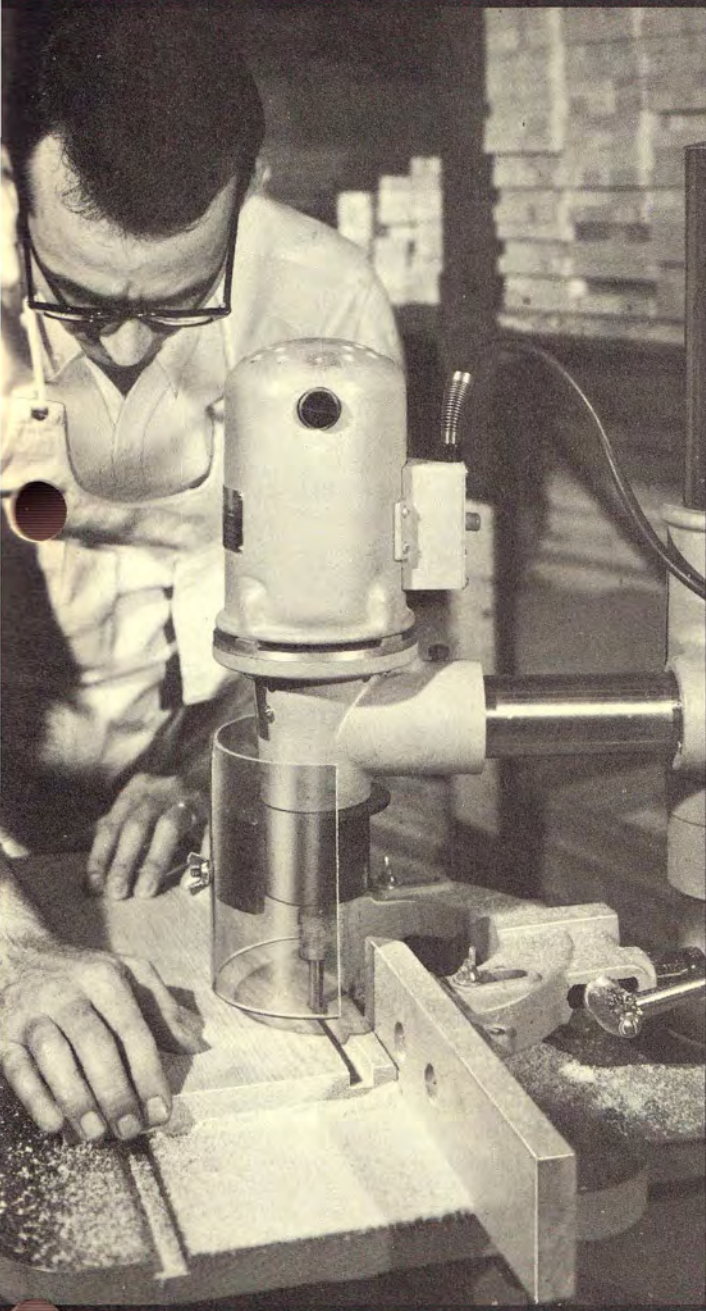
**No. 43-817 Ring Guard.** Included with basic machine. Adds safety and convenience on curved and circular edge shaping operations. Complete with mounting bracket.  $6\frac{1}{2}$  lbs.

## ROCKWELL INDUSTRIAL DISTRIBUTORS

Your local Industrial Distributor, who makes Rockwell Delta Industrial Machines and Accessories conveniently available to you, also can assist you with expert application engineering. He is as close to you as your phone. He is always willing to help you by making prompt, emergency deliveries of hundreds of items which could prevent costly shutdowns and delays. Depend on him for all of your industrial requirements, just as Rockwell does at all of its plant locations.

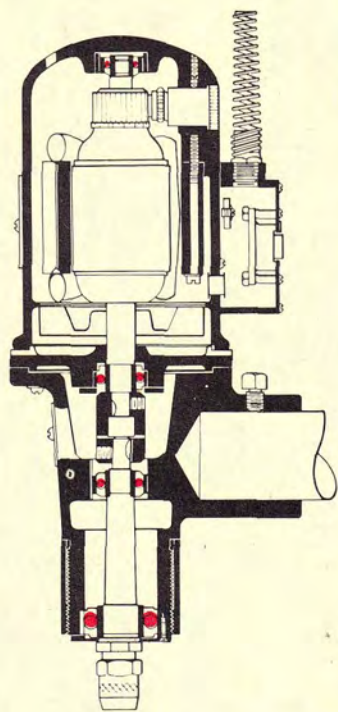
# ROCKWELL OVERARM ROUTER SHAPER

A HIGHLY VERSATILE PRODUCTION UNIT PERFECTLY SUITED FOR DOZENS  
OF ROUTING AND SHAPING OPERATIONS!

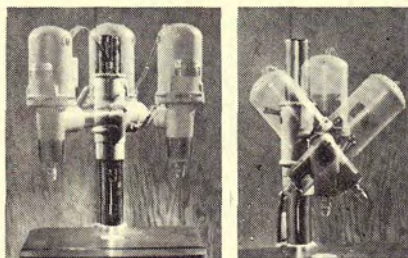


The jobs that you can do on this versatile Delta machine are practically unlimited. Use of the  $\frac{1}{4}$ " collet enables you to do a wide variety of jobs—routing, rabbeting, mortising, moulding and many more. Then, by switching the motor from the overarm to the under-the-table position and using the  $\frac{1}{2}$ " shaper spindle, you can make hundreds of mouldings and shapes. See this "double duty" profit builder in action today!

**THESE ROCKWELL  
QUALITY FEATURES  
GUARANTEE  
CLEAN, FAST CUTS!**

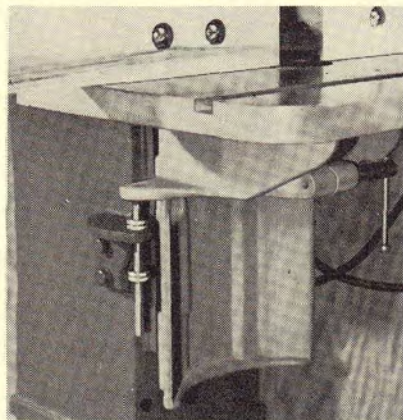


**4-Bearing Spindle Support**—Four precision ball bearings, two in the motor and two in the direct drive spindle, rigidly support the spindle for accurate, chatter-free operation. Lubricated-for-life, heavy duty motor operates at 20,000 RPM and develops a full 2 HP.

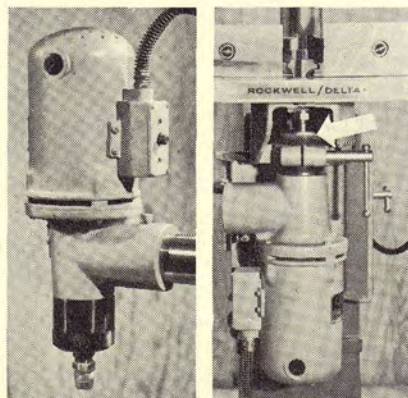


**(Left) Head Easily Raised; Swivels 360°**—Turning the elevating handle quickly raises or lowers the overarm and head to the exact job height required. Head can be rotated a full 360° around the column and positioned anywhere, either on or off the table.

**(Right) Head Tilts to Any Angle**—Mounted on a round column, the head can be moved in or out as desired. It also can be rotated 360° so that the head can be tilted to any angle for such jobs as shaping patterns and core prints and for carving.

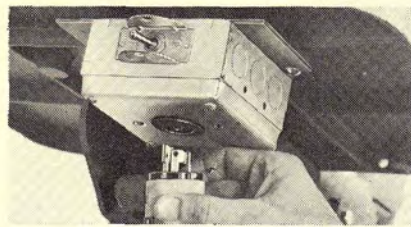


**Fully Adjustable Table Stops**—Maximum and minimum travel of the table is controlled by a long, threaded rod with two sets of stop nuts. These nuts can be set and locked to limit and positively stop the table at the upper and lower travel positions when the foot lever is used.

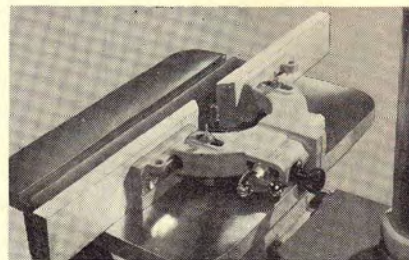


**(Left) Built-in Overload Protection**—Located on the back of the motor is a manual reset thermal overload. This device protects the motor against excessive overloading conditions.

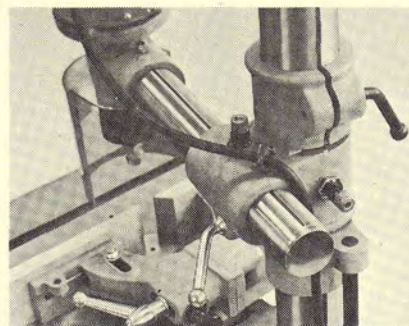
**(Right) Shaping Set-up Has Fine Thread Feature**—Removal of motor from overarm to under-the-table position is quickly and easily accomplished. The massive casting assembly and clamping lever firmly lock spindle in place for conventional shaping operations. Note fine thread adjustment feature for setting spindle at exact height desired.



**Convenient On-Off Switch**—Remote, double-pole toggle switch and disconnect is conveniently located under the front, right corner of the table for safe machine operation. Twist-lock type motor to switch cord may be disconnected for tooling changes or when changing motor to under-the-table position for shaping.



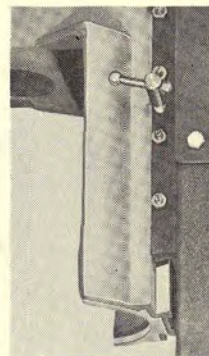
**Fully Adjustable Fence**—Both fence halves are independently adjustable for precise depth-of-cut settings using the same control knob and locking lever. Fence halves adjust end-wise so that fence opening can be varied according to the cutter size for safety.



**Positive Indexing Stops**—Used when head is positioned above table for routing. When plunger is inserted in milled slot on horizontal column, spindle is in perfect vertical position. When second plunger is located in milled slot on vertical column, spindle can be easily positioned directly over guide pin on table insert for guide pin routing.

### Gibbed, Dove-Tailed Table Ways

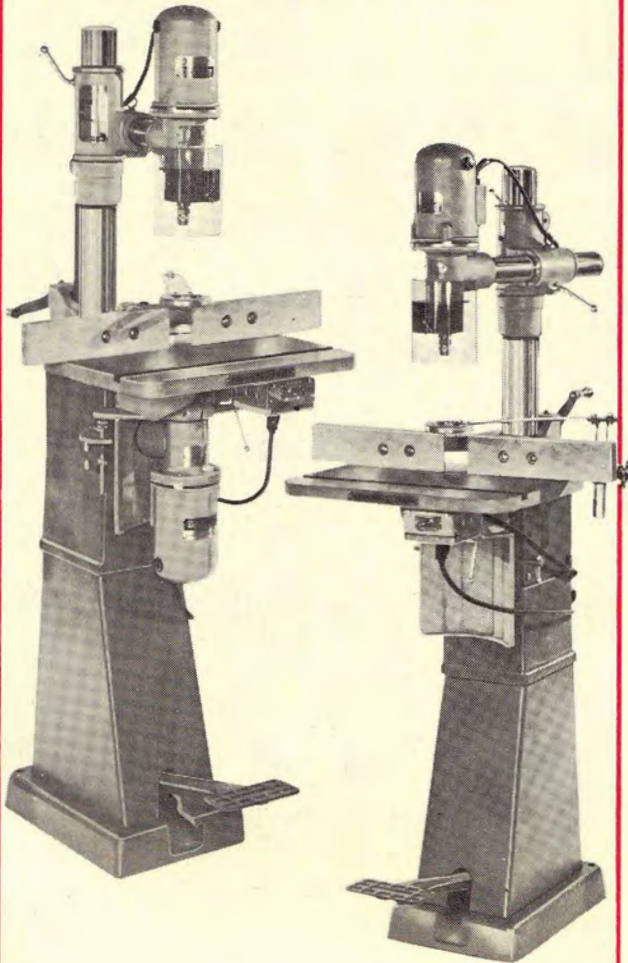
Wide, long, dove-tailed ways are machined on the front of the base casting so that the big 14" x 18" table rides up and down on matching dove-tails with adjustable gibs. Built-in lock holds table at any position.



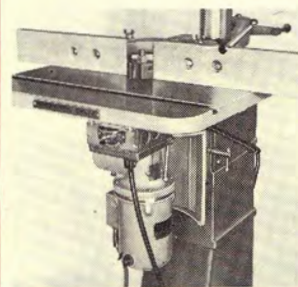
### ROCKWELL QUALITY EXTRAS

- **Precision Chuck** is integrally ground with the spindle for greater accuracy.
- **Motor Cord** has a strain relief protector.
- **Machine Wound Armature** assures identical electrical and physical characteristics of the nylon-clad and insulated coils.
- **Self-Adjusting Brushes** are spring-loaded, cartridge type for better commutation and peak performance.
- **Table** has a 3/4" x 3/8" Miter Gage Groove.
- **Foot operated, double spring type, Self Locking Table Raiser** moves table 1 3/8" .

**"Double Duty" Model.** Machine is set up for routing and, with Accessory Work Head in under-the-table position, shaping is immediately possible. No. 43-817 Accessory Ring Guard also shown.



Machine set up for routing. Shown with No. 43-817 Accessory Ring Guard.



Machine with motor in under-the-table position for shaping.

This extra versatile machine is the only one of its type in the world! Why? Because it's the only machine in its price range that's designed for high speed production routing. Then, when desired, it can be easily converted for shaping. The high speed, 20,000 RPM motor develops up to 2 HP, making it well suited for working wood, plastic and non-ferrous metals. Furthermore, you get clean, fast cuts when routing, moulding, making dovetails, grooving, mortising, tenoning and rabbeting. This unmatched versatility, together with Delta's quality construction, makes the Overarm Router/Shaper excellent for furniture manufacturers, cabinet and pattern shops, display houses, novelty and specialty shops, school shops, and plastic and metal fabricators.

## MACHINE DATA

**Motor** (Choice of 115V, 10 Amps or 230V, 5 Amps):

Universal Type, 25-60 Hertz, AC.  
Horsepower (Developed) .....2.0  
Overload Protection ..... Manual Reset  
Bearings ..... Precision Ball

**Spindle:**

Speed (No Load) ..... 20,000 RPM  
Bearings (Four, Including Motor) ..... Precision Ball  
Chuck (Integral, Precision Ground) ..... 1/2" (12.7 mm)  
Collet (With Adapter) ..... 1/4" (6.3 mm)

**Shaper Spindle:**

Capacity Under Nut  
With 1/2" (12.7 mm) Spindle ..... 1 3/4" (44.4 mm)

**Range:**

Center of Table Hole to Column ..... 10" (254 mm)  
Spindle Nose to Table, Maximum ..... 11 3/4" (298.4 mm)  
Spindle Center Line to Column:  
Maximum ... 13" (330.2 mm) Minimum ... 5" (127 mm)  
Table Travel, Vertical,  
One Stroke of Treadle ..... 1 3/8" (34.9 mm)  
Head Travel, Vertical ..... 10" (254 mm)  
Head Swivels (Horizontal and Vertical Planes) ..... 360°

**Table** (Has Dovetail Ways With

Adjustable Gib and Lock Features):

Size ..... 14" x 18" (355.6 x 457.2 mm)  
Center Hole, Diameter ..... 2 1/2" (63.5 mm)  
Slot for Gage ..... 3/8" x 3/4" (9.5 x 19.05 mm)  
Height From Floor (Lowest Position) ..... 35" (889 mm)

**Fence:**

Adjustment Each Half (by Single Knob) ... 3/4" (19.05 mm)  
Size (Each Faceplate) ..... 2 3/4" x 11 3/8" (69.8 x 288.9 mm)  
Length: Maximum ..... 25 1/2" (647.7 mm)  
Minimum ..... 23 1/2" (566.9 mm)

**Overall Dimensions:**

Height ... 61 3/4" (1568.5 mm) Width ... 25 1/2" (647.7 mm)  
Front to Rear ... 30 1/2" (774.7 mm)

**Floor Dimensions of Base:**

Width ... 11" (279.4 mm) Front to Rear ... 15 5/8" (396.8 mm)  
Floor Mounting Holes ..... 4  
Between Centers ..... 9" (228.6 mm) and 13 5/8" (346 mm)

## STANDARD EQUIPMENT

Motor with manual reset thermal overload protection; 5' cord with plug and external strain-relief protector; junction box with two-pole toggle switch and outlet; 8' cord with grounding type plug; 1/4" collet; table with adjustable stop; foot operated, double spring type, table raiser; shaper fence; 1/2" shaper spindle; spindle nose guard; six guide pins for routing (3/8", 3/16", 1/4", 5/16", 3/8", and 1/2") with two 1/4-28 lock nuts; starting pin for shaping and wrenches.

## CATALOG LISTING

**No. 43-502 Router/Shaper** complete, with motor and switch for 115V, 25-60 hertz, AC. Includes Standard Equipment as listed. 300 lbs.

**No. 43-503 Router/Shaper** complete, with motor and switch for 230V single phase, 25-60 hertz, AC. Includes Standard Equipment as listed. 300 lbs.

### ADDITIONAL WORK HEADS AVAILABLE

Mounting of an extra Work Head, as listed below, in the underneath table position saves set-up time (no changeover of Work Head required from routing to shaping position or vice versa) and gives user an extra Work Head for special-purpose operations. There is an unlimited number of uses for an extra Motor and Spindle Assembly.

**No. 43-510 115 V Motor and Spindle Assembly**, complete with 1/2" chuck. Same as used on 43-502 machine. Includes overload protection and 5-foot cord with grounding type plug. Without thread protector for spindle nose. 23 lbs.

**No. 43-511 230 V Single Phase Motor and Spindle Assembly**. Same as 43-510, except for voltage. 23 lbs.



**No. 34-895 Auto-Set® Miter Gage.** For straight and angle finishing. Has  $\frac{3}{8} \times \frac{3}{4} \times 18$ " guide bar and pivoting work supporting body with pointer and calibrations reading through  $120^\circ$  swing. Adjustable, positive stops at  $90^\circ$  and  $45^\circ$  positions. Accommodates No. 34-568 Clamp Attachment.  $3\frac{1}{2}$  lbs.



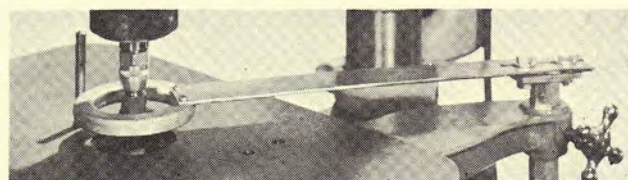
(Left) **No. 43-983 (old 983) Spring Hold Downs.** Used with shaper fence on straight shaping operations. Holds work firmly against fence and table. Accommodates work up to  $3\frac{1}{2}$ " thick, any length. 2 lbs.

(Right) **No. 34-568 (old 865) Clamp Attachment** for miter gage. Holds work evenly and safely when edge shaping with miter gage. Includes clamp bar, two sliding clamp screws, front and rear posts.  $1\frac{1}{2}$  lbs.

**No. 34-873 (old 873) Extra Clamp Screw and Bracket** for clamp attachment.  $\frac{1}{2}$  lb.



**No. 43-517 Transparent Spindle Nose Guard with Bracket** (included as standard equipment). Used with motor in above table position only.  $1\frac{1}{2}$  lbs.



**No. 43-817 Ring Guard.** Provides added safety and convenience on curved and circular work. Complete with mounting bracket.  $6\frac{1}{2}$  lbs.

### COLLAR SETS

**No. 43-210 (old 1210) Set of 7 Collars.**  $\frac{3}{4}$ " to  $1\frac{1}{8}$ " diameter. 09-142, 09-143, 09-144, 09-145, 09-171, 09-172, 09-173.  $\frac{1}{2}$  lb.

**No. 43-211 (old 1211) Set of 6 Collars.**  $1\frac{3}{16}$ " to  $1\frac{1}{2}$ " diameter. 09-141, 09-146, 09-147, 09-148, 09-174, 09-175. 1 lb.

**No. 43-212 (old 1212) Set of 6 Collars.**  $1\frac{1}{16}$ " to  $1\frac{7}{8}$ " diameter. 09-149, 09-176, 09-177, 09-178, 09-179, 09-180.  $1\frac{1}{2}$  lbs.

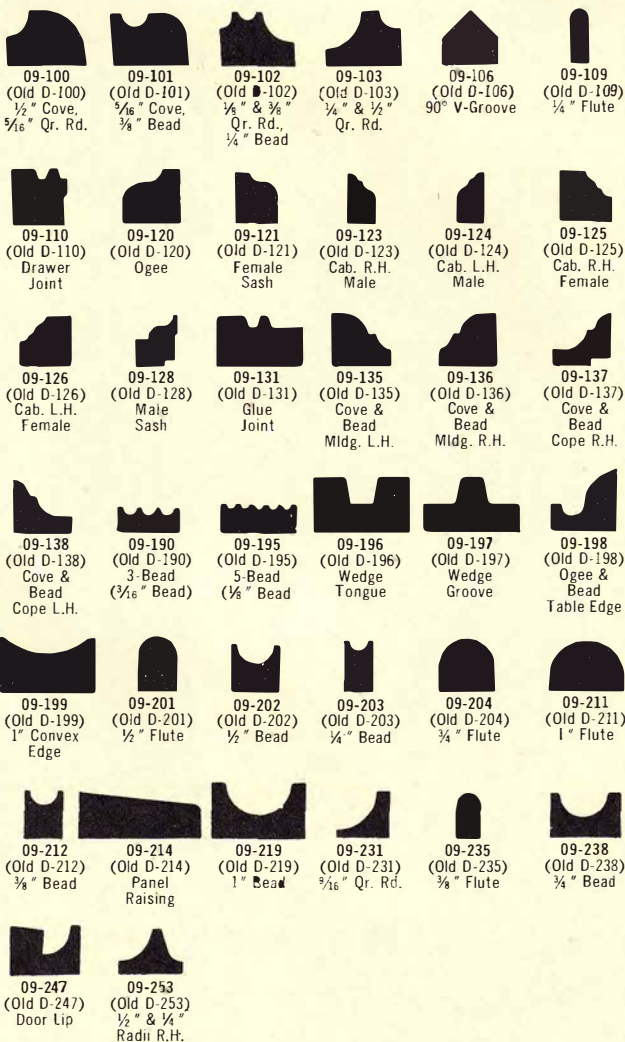
### CUTTER AND COLLAR SET

**No. 43-182 (old 1182) Standard Cutter Set.** Consists of Cutters 09-100 to 09-109 inclusive and Collars 09-142 to 09-149 inclusive. Packed in wood box.  $3\frac{1}{2}$  lbs.

### 3-LIP SHAPER CUTTERS



All have  $\frac{1}{2}$ " spindle hole. Involute relief design permits honing of the face without changing the shape. Cutters are shown  $\frac{3}{8}$ " size.  $\frac{1}{2}$  lb. each.



### Straight Cutters— $\frac{1}{2}$ " Hole

Number	Thickness	Dia.	Number	Thickness	Dia.
09-107 (Old D-107)	$\frac{1}{2}$ "	$1\frac{7}{8}$ "	09-108 (Old D-108)	$\frac{1}{4}$ "	$1\frac{1}{16}$ "
09-130 (Old D-130)	$\frac{3}{4}$ "		09-127 (Old D-127)	$\frac{3}{8}$ "	
09-104 (Old D-104)	1"		09-139 (Old D-139)	$\frac{1}{4}$ "	$2\frac{1}{2}$ "
09-105 (Old D-105)	$1\frac{1}{2}$ "		09-129 (Old D-129)	$\frac{3}{8}$ "	

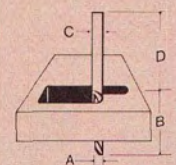
### Spacing Collars— $\frac{1}{2}$ " Hole

Number	Dia.	Thickness	Number	Dia.	Thickness
09-133 (Old D-133)	$1\frac{3}{16}$ "	$\frac{1}{8}$ "	09-144 (Old D-144)	1"	$\frac{3}{8}$ "
09-150 (Old D-150)	$1\frac{3}{8}$ "	$\frac{3}{16}$ "	09-173 (Old D-173)	$1\frac{1}{16}$ "	
09-155 (Old D-155)	$\frac{3}{4}$ "	$\frac{1}{4}$ "	09-145 (Old D-145)	$1\frac{1}{8}$ "	
09-217 (Old D-217)	$1\frac{3}{32}$ "		09-132 (Old D-132)	$1\frac{1}{32}$ "	
09-134 (Old D-134)	$1\frac{1}{32}$ "		09-141 (Old D-141)	$1\frac{1}{16}$ "	
09-140 (Old D-140)	$1\frac{1}{16}$ "		09-146 (Old D-146)	$1\frac{1}{4}$ "	
09-215 (Old D-215)	$1\frac{15}{32}$ "		09-174 (Old D-174)	$1\frac{5}{8}$ "	
09-151 (Old D-151)	$1\frac{7}{8}$ "		09-175 (Old D-175)	$1\frac{1}{8}$ "	
09-142 (Old D-142)	$\frac{3}{4}$ "		09-176 (Old D-176)	$1\frac{3}{8}$ "	
09-171 (Old D-171)	$1\frac{1}{16}$ "		09-147 (Old D-147)	$1\frac{3}{8}$ "	
09-143 (Old D-143)	$\frac{7}{8}$ "		09-148 (Old D-148)	$1\frac{1}{2}$ "	
09-172 (Old D-172)	$1\frac{3}{16}$ "		09-177 (Old D-177)	$1\frac{5}{8}$ "	
		09-178 (Old D-178)	$1\frac{1}{16}$ "		
		09-179 (Old D-179)	$1\frac{3}{16}$ "		
		09-180 (Old D-180)	$1\frac{7}{8}$ "		
		09-149 (Old D-149)	$1\frac{1}{16}$ "		

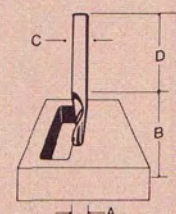
## ROUTER BITS

**One-piece.** Conventional bits complete with shank and cutting head. All are 2-spur bits, except smaller diameter straight bits (1/8" or less). A = cutting edge diameter; B = cutting edge length; C = shank diameter; D = shank length.

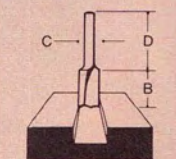
**Screw Type.** 3 flute bits for use with separate arbor. All with 1/4"-28 threaded hole.



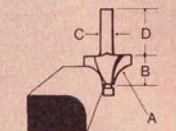
**STRAIGHT SPIRAL (Down)**



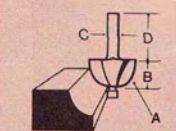
**STRAIGHT SPIRAL (Up)**



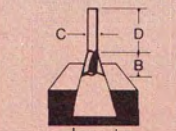
**STRAIGHT**



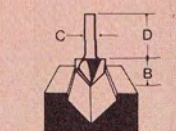
**CORNER ROUND**



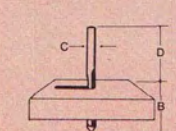
**COVE**



**DOVETAIL**



**V-GROOVE**



**PANEL PILOT**

### STRAIGHT SPIRAL (Down), ONE PIECE

Number	A	B	C	D
43601	1/4"	3/4"	1/4"	1 1/4"
43602	3/16"	3/4"	1/2"	2"

### STRAIGHT SPIRAL (Up), ONE PIECE

43603	1/4"	3/8"	1/4"	7/8"
43604	1/4"	3/4"	1/4"	1 1/4"
43605	3/16"	3/4"	3/8"	1 1/4"
43606	3/8"	1"	3/8"	2"

### STRAIGHT, ONE PIECE

Number	A	B	C	D
43607*	1/8"	5/16"	1/4"	1 1/4"
43608	3/16"	3/2"	1/4"	1 1/4"
43609	1/4"	3/2"	1/4"	1 3/8"
43610	1/4"	3/2"	1/4"	1 1/4"
43611	1/4"	1 3/16"	1/4"	1 1/4"
43612	1/4"	1"	1/4"	1 1/4"
43613	3/8"	1 1/2"	1/2"	1 3/16"
43614	1/2"	1 1/2"	1/2"	1 3/16"
43615	1/2"	2"	1/2"	1 9/16"
43616	3/4"	1"	1/2"	1 3/8"
43617	3/4"	1"	1/2"	1 3/8"
43618	1"	1"	1/2"	1 3/8"

\*Single Flute

### STRAIGHT, CARBIDE-TIPPED, ONE PIECE

Number	A	B	C	D
43716*	3/16"	3/8"	1/4"	1"
43717	1/4"	3/4"	1/4"	1 3/16"
43718	1/4"	7/8"	1/4"	1 3/8"
43719	3/8"	1"	1/2"	1 1/2"
43720	1/2"	1 1/2"	1/2"	1 1/2"
43721	1/2"	2"	1/2"	1 1/8"
43722	3/4"	1"	1/2"	1 3/8"

\*Single Flute

### STRAIGHT, SCREW TYPE

Number	A	B	C	D
43619	1/2"	19/32"		
43620	5/8"	19/32"		
43621	1 1/16"	19/32"		
43622	3/4"	19/32"		
43623	13/16"	19/32"		
43624	7/8"	19/32"		
43625	1 1/16"	19/32"		
43626	1"	19/32"		
43627	1 1/16"	19/32"		
43628	1 1/8"	19/32"		
43629	1 3/16"	19/32"		
43630	1 3/8"	19/32"		
43631	1 7/8"	19/32"		

All with  
1/4"-28  
Threaded Hole

### STRAIGHT CARBIDE-TIPPED, SCREW TYPE

43701	1/2"	19/32"	1/4"-28	Threaded Hole
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### CORNER ROUND, SCREW TYPE

Number	A	B	C	D
43635	1/4" R	5/8"		All with
43636	3/8" R	5/8"		Threaded
43637	1/2" R	1 1/16"		1/4"-28 Hole

### COVE, SCREW TYPE

43656	1/4" R	19/32"	1/4"-28	
43657	3/8" R	19/32"	Threaded Hole	

### DOVETAIL, ONE PIECE

43639	1/4"	7/16"	1/4"	1 1/4"
43640	1/2"	7/16"	1/4"	1 1/4"

### DOVETAIL, CARBIDE-TIPPED, ONE PIECE

43705	1/2"	7/16"	1/4"	1 3/8"
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### V-GROOVE, ONE PIECE

43641	5/8"	5/8"	1/4"	1"
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### V-GROOVE, CARBIDE-TIPPED, ONE PIECE

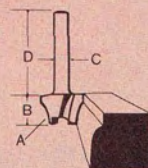
43725	1/2"	5/8"	1/4"	1"
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### PANEL PILOT, ONE PIECE

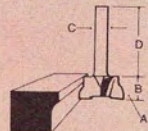
Number	A	B	C	D	Cutting Edge
43642	1/4"	1 3/8"	1/4"	1 1/4"	3/4"
43643	3/8"	1 1/16"	1/2"	1 1/16"	7/8"

### PANEL PILOT, CARBIDE-TIPPED, ONE PIECE

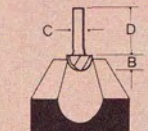
Number	A	B	C	D	Cutting Edge
43708	1/4"	1 1/8"	1/4"	1 1/2"	13/16"
43709	3/8"	1 3/16"	3/8"	1 3/16"	1 1/16"
43710	3/8"	1 3/16"	1/2"	1 3/16"	7/8"



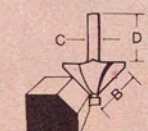
**SASH BEAD**



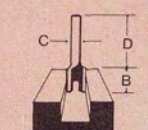
**SASH COPE**



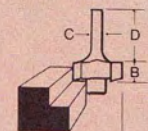
**CORE BOX**



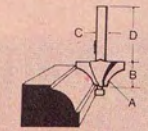
**45° BEVEL CHAMFER**



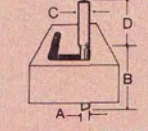
**MORTISE**



**RABBETING**



**BEAD**



**STAGGER TOOTH**



**WEATHER STRIP AND SLOTTING CUTTERS**



**FLUSH TRIMMING BITS**



**25° BEVEL TRIMMER KIT**

### SASH BEAD, ONE PIECE

Number	A	B	C	D
43644	3/16" R	7/16"	1/4"	1 1/4"

### SASH COPE, ONE PIECE

43645	3/16" R	7/16"	1/4"	1 1/4"
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### CORE BOX, ONE PIECE

43647	1/4"	9/16"	1/4"	1 1/8"
43648	3/8"	1/4"		1 1/4"
43649	1/2"	5/16"	1/4"	1 1/4"
43650	3/8"	3/8"	1/4"	1 1/8"
43651	3/4"	7/16"	1/4"	1 1/8"

### CORE BOX, SCREW TYPE

43652	3/4"	17/32"		
43653	7/8"	5/8"		All with
43654	1"	1 1/16"		1/4"-28
43655	1 1/4"	7/8"		Threaded Hole

### CORE BOX, SOLID CARBIDE, ONE PIECE

43711	1/4"	1/4"	1/4"	1"
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### 45° BEVEL CHAMFER, SCREW TYPE

43-658	3/4"		1/4"-28	Threaded Hole
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### MORTISE, CARBIDE-TIPPED, SCREW TYPE

43701	1/2"	1/2"		All with
43702	3/8"	1/2"		1/4"-28
43703	3/4"	1/2"		Threaded Hole
43704	1"	1/2"		

### RABBETING, SCREW TYPE

43638	1 3/32"	1/2"	1/4"-28	Threaded Hole
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### RABBETING, CARBIDE-TIPPED, ONE PIECE

43706	1 3/32"	3/8"	1/4"	1 5/16"
43707*	1 3/32"	3/8"	1/4"	1 5/16"

\*10° Bevel

### BEAD, SCREW TYPE

43632	1/8" R	19/32"		All with
43633	1/4" R	19/32"		1/4"-28
43634	3/8" R	19/32"		Threaded Hole

### BEAD, CARBIDE-TIPPED, ONE PIECE

43712	1/4" R	19/32"	1/4"	1 1/4"
43713	3/8" R	5/8"	1/4"	1 1/4"
43714	1/2" R	1 1/16"	1/4"	1 1/4"

### STAGGER TOOTH, CARB-TIPPED, ONE PIECE

43723	3/8"	1 1/4"	1/2"	1 3/4"
43724	1/2"	2 1/8"	1/2"	2"

## SHAPER CUTTERS

### WEATHER STRIP CUTTER (3/16" Hole)

Number	A	B
43659	1 7/8"	5/64"
43660	1 7/8"	3/32"
43661	1 7/8"	1/4"
43662	1 7/8"	5/64"
43663	1 7/8"	5/32"
43664	1 7/8"	3/16"
43665	1 7/8"	1/32"
43666	1 7/8"	1/4"
43667	1 7/8"	17/64"
43668	1 7/8"	9/32"

### SLOTTING CUTTER, CARBIDE-TIPPED (3/16" Hole)

43726	1 7/8"	1/16"
43727	1 7/8"	5/64"
43728	1 7/8"	3/32"
43729	1 7/8"	1/4"

## BITS AND CUTTERS FOR TRIMMING PLASTIC LAMINATES

### CARBIDE-TIPPED BALL BEARING FLUSH TRIMMING BITS

(Use with No. 43-739 Bearing Guide)

Number	Cutting Dia.	Cutting Edge Length	Shank Dia.
43730	1/2"	1"	1/2"
43731	1/2"	7/8"	1/4"

### CARBIDE-TIPPED TRIMMING CUTTERS (With 3/16" Diameter Hole)

Number	Type	Used With
43732	Flush Cut	No. 43-738 Arbor
43733	10° Bevel	(1/4" shank) and Router Bits
43734	25° Bevel	43-740 Bearing Guide

### CARBIDE-TIPPED 25° BEVEL TRIMMER KIT

Number	Includes
43735	25° Bevel Cutter, No. 43-738 Arbor (1/2" shank) No. 43-740 Bearin gGuide

Number	Dia.	Mount.	Lgth.	Used With
43736	1/4"	1/4"-28 Thrd.	1 13/16"	All Screw Type
43737	1/2"	1/4"-28 Thrd.	1 15/16"	Router Bits
43738	1/2"	1/2"-24 Thrd.	2 1/16"	43-733 and 43-734 Cutters

## BEARING GUIDES

Number	Used With
43739	Nos. 43-730 and 43-731 Trimmers
43740	and No. 43-738 Arbor

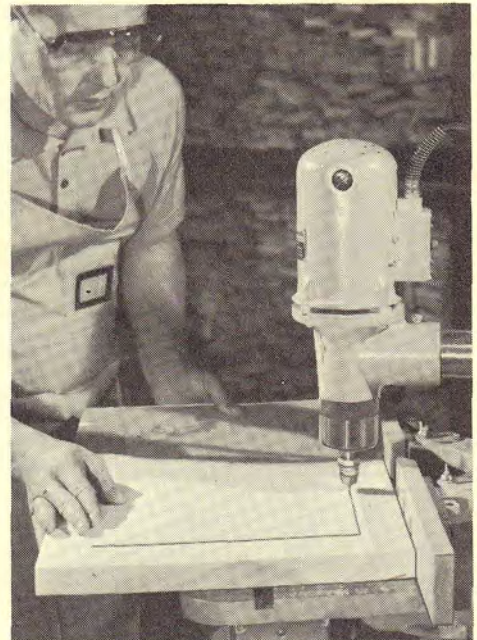
NOTE: See your Rockwell Industrial Distributor for many additional adapters, spindles, bits and cutters.

For prices on above accessories, refer to Rockwell Professional Portable Power Tools Price List.

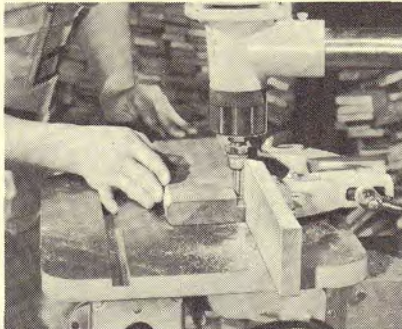
# ROCKWELL OVERARM ROUTER SHAPER

DOES ALL THESE OPERATIONS *and More!*

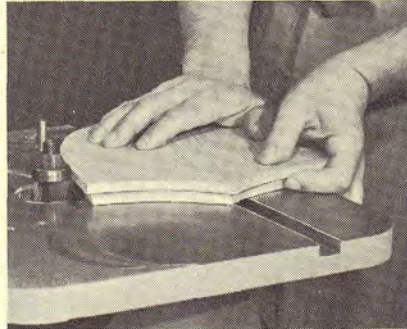
*Accessory guards removed to aid in photo clarity.*



Placing a decorative bead on a door panel.



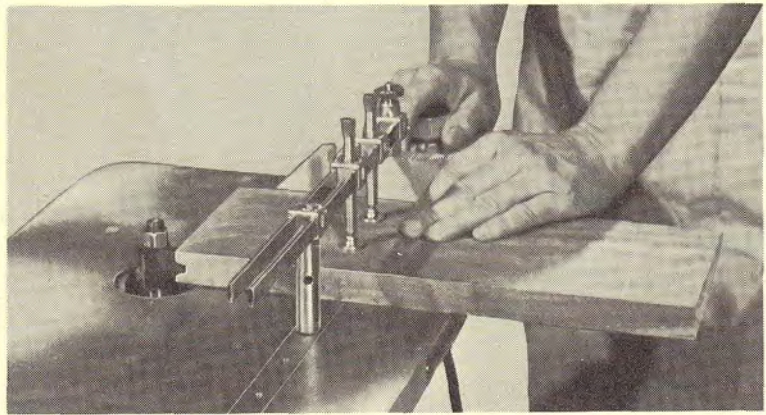
Rabbeting with aid of shaper fence.



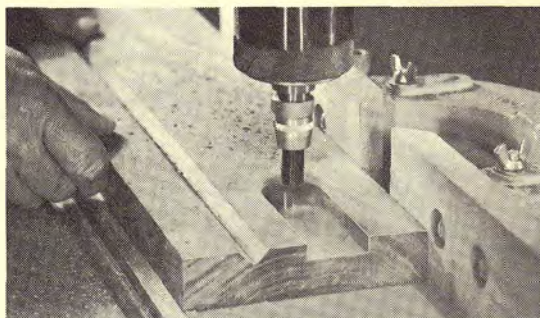
Free-hand shaping irregular stock using a starting pin.



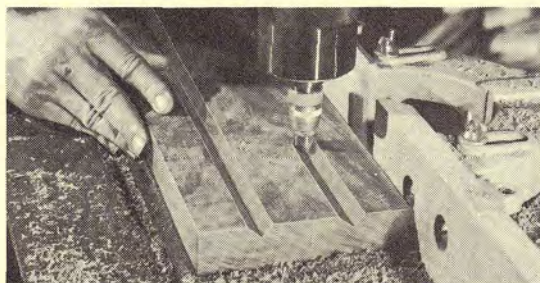
Routing using a guide pin and template.



Cutting groove for tongue and groove joint.



Performing a wide, deep plowing operation.



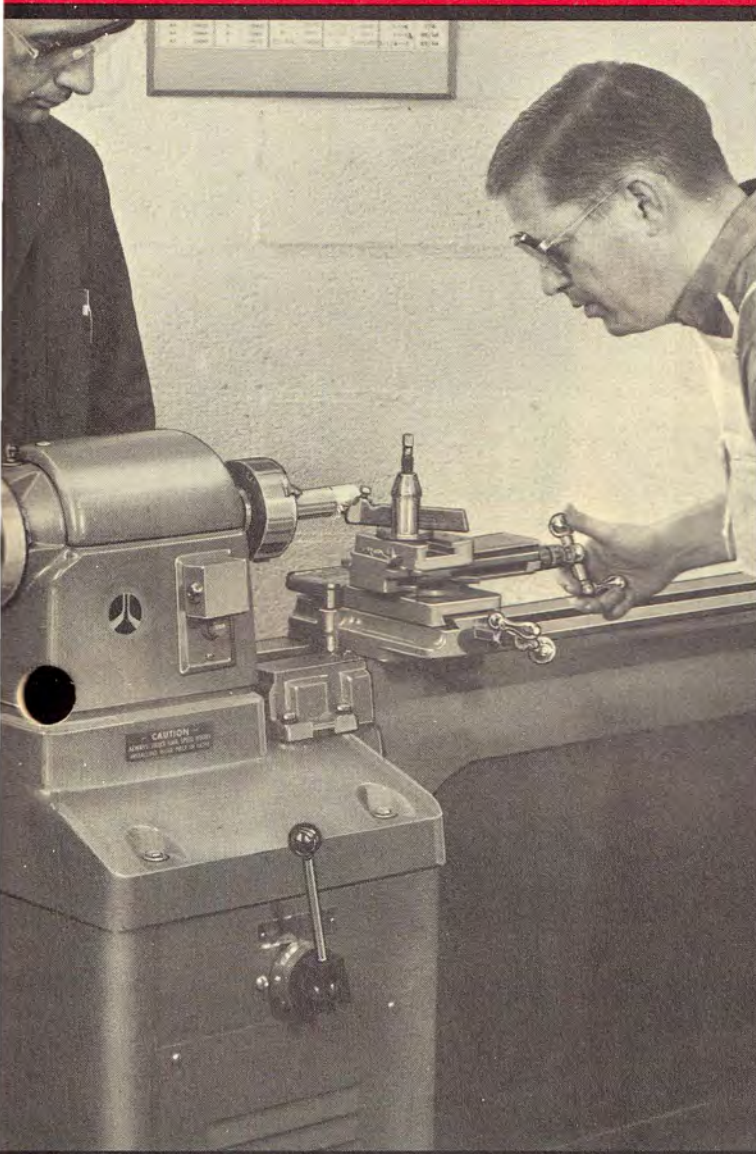
Cutting a V-groove by using the shaper fence as a guide.



Shown are typical operations that may be performed on wood, plastic and aluminum on the Rockwell Delta Overarm Router/Shaper.

# ROCKWELL 12" Heavy Duty WOOD LATHE

*Variable Speed With Gap Bed*



This rugged, heavy duty wood lathe will provide the day-in, day-out top-flight performance you expect on every job. Here's why:

- It offers **Extra Big Capacity!**
- It contains **A Powerful Variable Speed Drive!**
- It incorporates **A Safety Engineered Design Throughout!**
- It provides **Unequaled Versatility!**

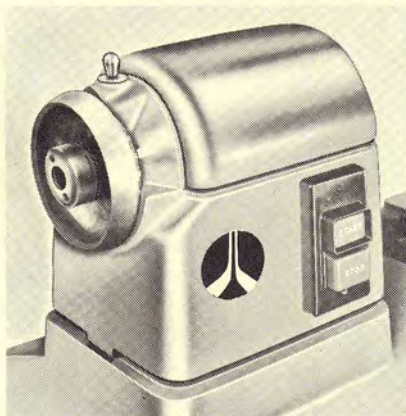
These are just a few of many reasons why the Rockwell Delta 12" Heavy Duty Wood Lathe is a favorite in industry, commercial and school shops everywhere. Let us prove its value to you today!

# ROCKWELL 12" HEAVY DUTY WOOD LATHE

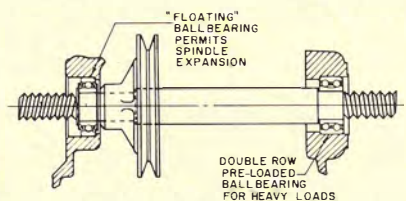
**QUALITY FEATURES  
THAT MAKE THE 12"  
HEAVY DUTY WOOD LATHE  
UNMATCHED  
IN ITS CLASS!**



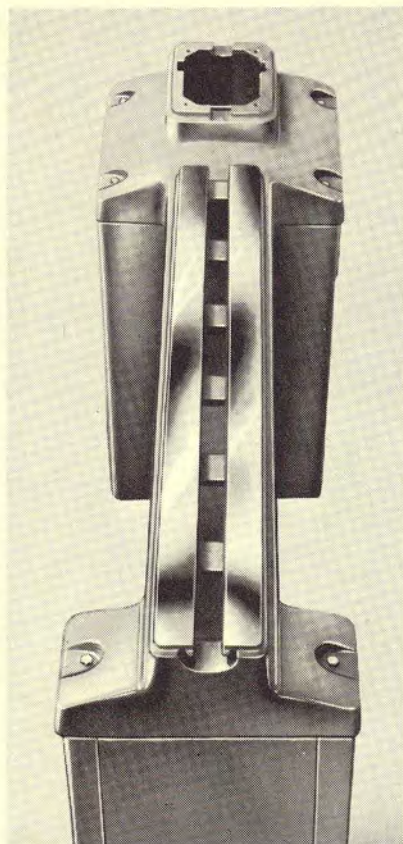
**Designed For Big Capacity Jobs**—You can turn stock up to 12" in diameter over the bed . . . up to 16½" diameter by 3½" thick over the bed gap . . . extra large work on the outboard spindle.



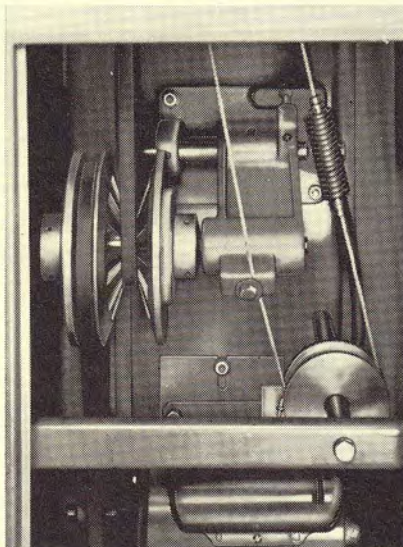
**Rugged Head Stock Construction**—It's engineered to give extra rigidity for heavy, rough turning. Cover completely encloses belt and pulleys for added safety and is easy to remove for changing belt.



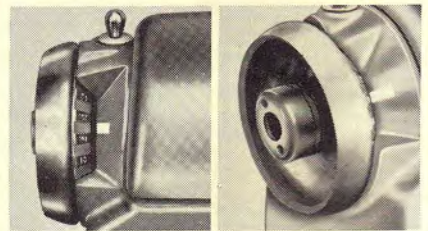
**Maximum Thrust Head Stock Spindle**—A double row, preloaded, sealed-for-life ball bearing at the work end permits maximum thrust for heavy turning and metal spinning. "Floating" ball bearing construction on the outboard end allows for expansion as spindle warms up.



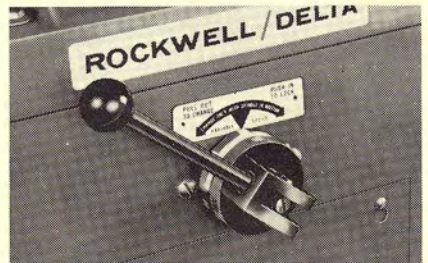
**Massive Bed**—It is scientifically ribbed and ruggedly constructed to minimize vibration. Bed and head stock mounting are precision ground simultaneously for absolute alignment, guaranteeing top quality lathe performance.



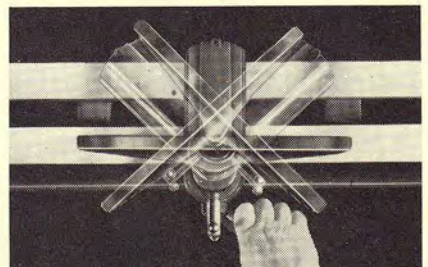
**Modern, Efficient Variable Speed Drive**—Gives you all the advantages of a variable speed drive, with an infinite choice of speeds from 340 to 3200 RPM. Its simple construction, with few operating parts, makes it function very smoothly. During speed changes, the variable speed pulley moves up or down at the correct angle to maintain perfect belt alignment at all speeds. This assures higher power transmission efficiency.



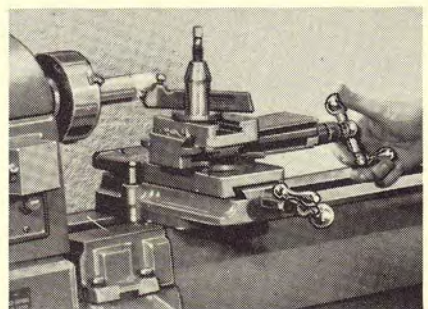
**Scientifically Designed Hand Wheel**—Large and easy to grip, the indexing and tailstock hand wheels are engineered to conform to the contours of the hand. Indexing of spindle to any of 48 index stops can be done quickly. Extra smooth finish assures maximum operator safety.



**Quick Operating Speed Control**—Convenient placement of variable speed control lever permits quick selection of any speed from 340 to 3200 RPM. When "pushed in," lever locks at desired speed, even under heavy loads.



**Universal Tool Support**—It is exceptionally handy and fast in action. Heavy and substantial, it locks to the bed at any desired position by means of the convenient lever at the front where it does not interfere with the work.



**Gap Filler Block Increases Lathe Versatility**—Filler block extends the bed ways into the gap to provide rigid tool support for light metal turning, metal spinning, face plate turning and any work that must be done right at the headstock. Filler block also can be mounted on a bench beyond the tailstock for extra long turnings.

# ROCKWELL 12" HEAVY DUTY WOOD LATHE



**No. 46-450**  
**12" Heavy Duty Wood Lathe**  
 With Accessory 46-800 Safety  
 Shield and Electricals.

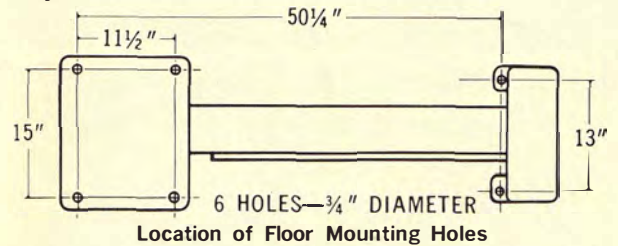
**A Variable-Speed,  
 Gap-Bed Lathe for  
 Wood Turning, Metal Spinning  
 and Light Metal Turning**

This massive lathe is designed for industry, commercial shops and schools—wherever there is a demand for continued accuracy and long life through years of safe, heavy duty operation.

**Extra BIG Capacity**—You can turn stock up to 12" in diameter over the bed . . . up to 16½" diameter by 3½" thick over the large bed gap . . . extra large work on the out-board spindle. And with Delta's Gap Filler Block, which actually extends the bed ways into the gap, you get the rigid tool support you need for metal spinning, thin face plate turnings, any work that must be done right at the headstock.

**Powerful Variable Speed Drive**—The perfected Delta variable speed drive offers an extremely low speed of 340 rpm for turning of metals or rough woods plus an infinite choice of speeds up to 3200 rpm, a safe speed for sanding and polishing. This drive, which also includes speeds of 900 to 1400 rpm for metal spinning, guarantees smooth, even transmission of power to the spindle under all work loads.

**Engineered for Safety**—Completely covered drive mechanism fully protects operator from moving parts. Convenient hand wheels and quick operating speed control reduce operator fatigue. Push button switch plus the optional Slow-Start feature provide user with added safety.



## MACHINE DATA

### Capacities:

- Swing Over Bed . . . . . 12" (304.8 mm)
- Swing Over Bed Gap . . . . . 16½" (419.1 mm) Diameter  
 For 3½" (965.2 mm) Stock
- Distance Between Centers . . . . . 38" (967.2 mm)

### Speeds:

- With 1725 RPM Motor . . . . . Variable from 340 to 3200 RPM
- With 1140 RPM Motor . . . . . Variable from 230 to 2135 RPM

### Spindle:

- Nose—Inboard . . . . . 1"—8 RH Thread
- Nose—Outboard . . . . . 1"—8 LH Thread  
 Hole (Completely Through Spindle) . . . . . 5/8" (15.8 mm)

**Headstock and Tailstock Tapers** . . . . . No. 2 M.T.

**Ram Travel** . . . . . 2¼" (57.1 mm)

**Height—Centerline of Spindle to Floor** . . . . . 42¾" (1085.8 mm)

### Overall Dimensions:

- Height . . . . . 46½" (1181.1 mm); Width . . . . . 22" (558.8 mm)
- Length . . . . . 63" (1600.2 mm)

**Approximate Shipping Weight** . . . . . 490 Lbs. (222.2 Kg.)

## STANDARD EQUIPMENT

**Basic Wood Lathe** includes deluxe cabinet, 12" tool support, 6" tool support, tool support base, off-set tool support base, drive center, cup center, 3" face plate, 6" face plate, motor pulley and two V-belts.

## CATALOG LISTING

**No. 46-450 Basic Machine With Deluxe Cabinet.** Includes 46-692 (old 692) 12" Tool Support, 46-805 6" Tool Support, 46-171 (old 1461) Tool Support Base, 46-430 Off-set Tool Support Base, 46-933 (old 933) Drive Center, 46-439 (old 934) Cup Center, 46-936 (old 936) 3" Face Plate, 46-937 (old 937) 6" Face Plate, 49-146 V-belt (65½" OC), 49-195 V-belt (37¾" OC) and 3" OD Motor Pulley (¾" bore). Without motor and switch. 504 lbs.

**No. 41-042 Motor Pulley, 3" diameter, ½" bore.** 1 lb.

**No. 41-043 Motor Pulley, 3" diameter, 5/8" bore.** 1 lb.

**No. 41-044 Motor Pulley, 3" diameter, ¾" bore.** 1 lb.

*Continued on next page*

## MOTORS AND CONTROLS (Factory Mounted and Wired)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER*	CAT. NO.* 200V	CATALOG NUMBER**	CAT. NO.** 200V
Single Phase, 1 Horsepower	Push Button Switch Only	TEFC	60-1725	115/230	47	49-828		52-318	
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230	54	49-829		52-319	
Three Phase, 1 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	44	49-837	52-161	52-321	52-358

**NOTE:** Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three-phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only. Motors and Motor Controls for Rockwell Delta 12" Heavy Duty

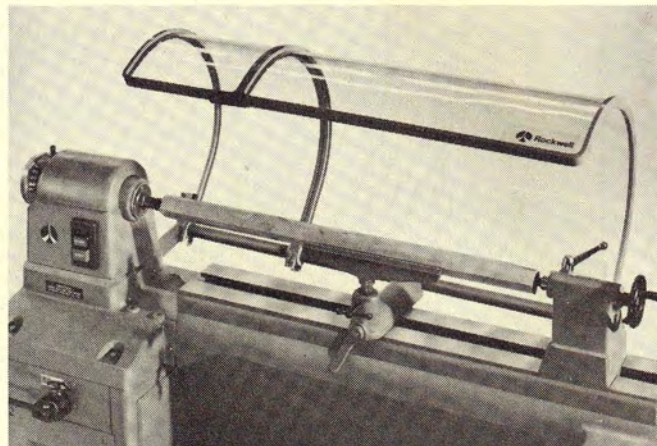
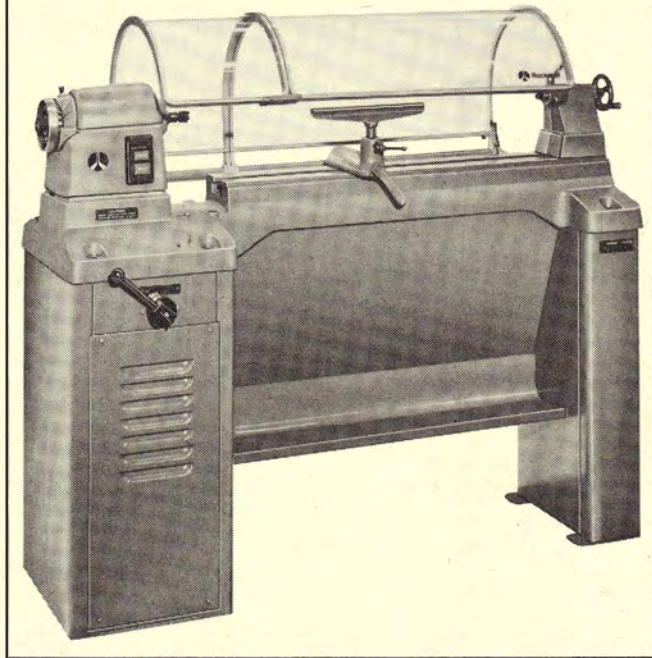
Wood Lathes may be ordered unmounted. For listing, see Sections P and Q. **No. 49-000 "JIC" Type Control Kit.** Specify this Catalog Number, in addition to Three Phase Cat. No. 49-837, in order to obtain 12" Heavy Duty Wood Lathe with "JIC" type electricals, factory mounted and wired.

\*Catalog Number includes motor and control without Slow-Start Feature.

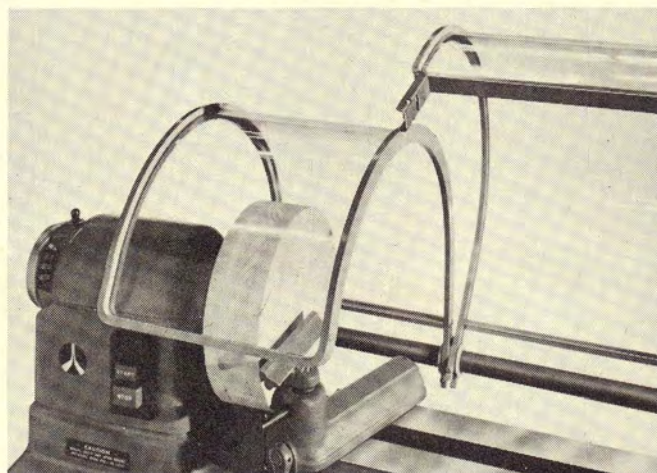
\*\*Catalog Number includes motor, control and Slow-Start Feature (See N2, page 4 for description).

# ROCKWELL WOOD LATHE SAFETY SHIELD

**NOW!**  
**A Safer Way**  
**to Turn Stock**  
**in Industry, Commercial**  
**and School Shops.**



**Loading the Lathe**—illustration shows the Safety Shield in the "up" position, making the lathe completely accessible for work loading.



**Headstock Operations**—photo shows how only the left-hand section of the Safety Shield can be used for face plate turning. Both edge and internal turning are easily accomplished, yet operator is protected.

Sections 1910.213-0-2 and 1910.213-0-4, OSHA Regulations, require the use of a guard on wood lathes. You can meet this requirement with Rockwell's New Wood Lathe Safety Shield. Unit mounts on New Rockwell 12" Heavy Duty and Standard Duty Wood Lathes or easily can be added to Rockwell lathes in the field. The universal mounting brackets on the Rockwell Wood Lathe Safety Shield enable it to be mounted on most other models of 12" Wood Lathes.

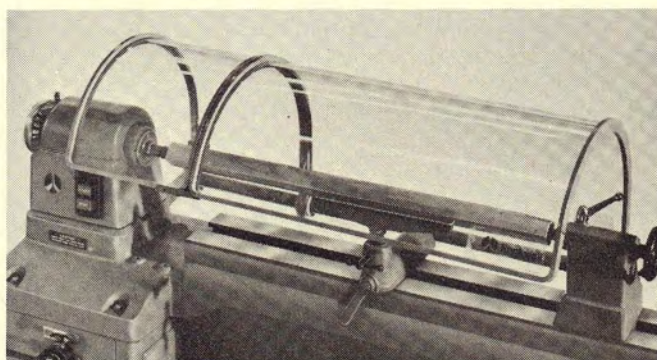
## IMPORTANT CONSTRUCTION FEATURES

Rigidly constructed Safety Shield has two fully adjustable sections with Uvex® high impact plastic windows in alert orange aluminum framing. Contoured windows provide all-around visibility of lathe working area while affording adequate operator protection. Snap lock secures both sections for long turnings . . . may be quickly unlocked when only one guard is used, as for face plate work. Adjustable stops permit shield to be set at proper height for best working position and maximum operator freedom of movement.

Turn the *safer way!* Put a Rockwell Safety Shield on every wood lathe in your shop . . . today!

## SIMPLIFIED MOUNTING

To mount the Rockwell Safety Shield, drill and tap four holes in back of the lathe bed. Use  $\frac{5}{16}$ "—18 x  $\frac{3}{4}$ " hex head cap screws (supplied) for attaching the shield. Uvex® is a Registered Trademark of the Eastman Kodak Company.



**Operations Between Centers**—here, both sections of the Safety Shield are in the "down" position for spindle turning. Full working area coverage provides adequate operator protection with easy accessibility to the work.

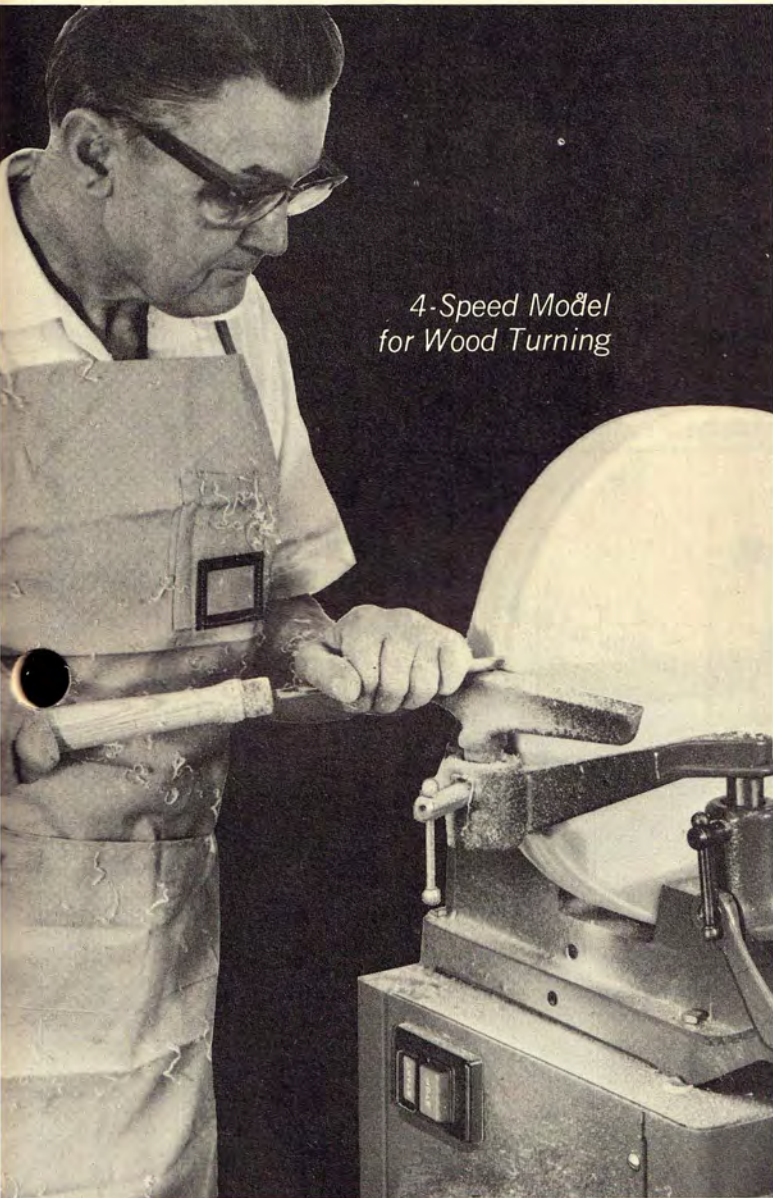
## CATALOG LISTING

**No. 46-800 Wood Lathe Safety Shield.** Includes two adjustable sections with Uvex® high impact plastic windows in alert orange aluminum framing, two adjustable stops, mounting brackets and screws. Overall dimensions—45" wide x 23" deep x 11½" high. Plastic windows are 12⅞" and 30" wide x 20⅞" deep x 11½" high. Mounting instructions are supplied. 35 lbs.

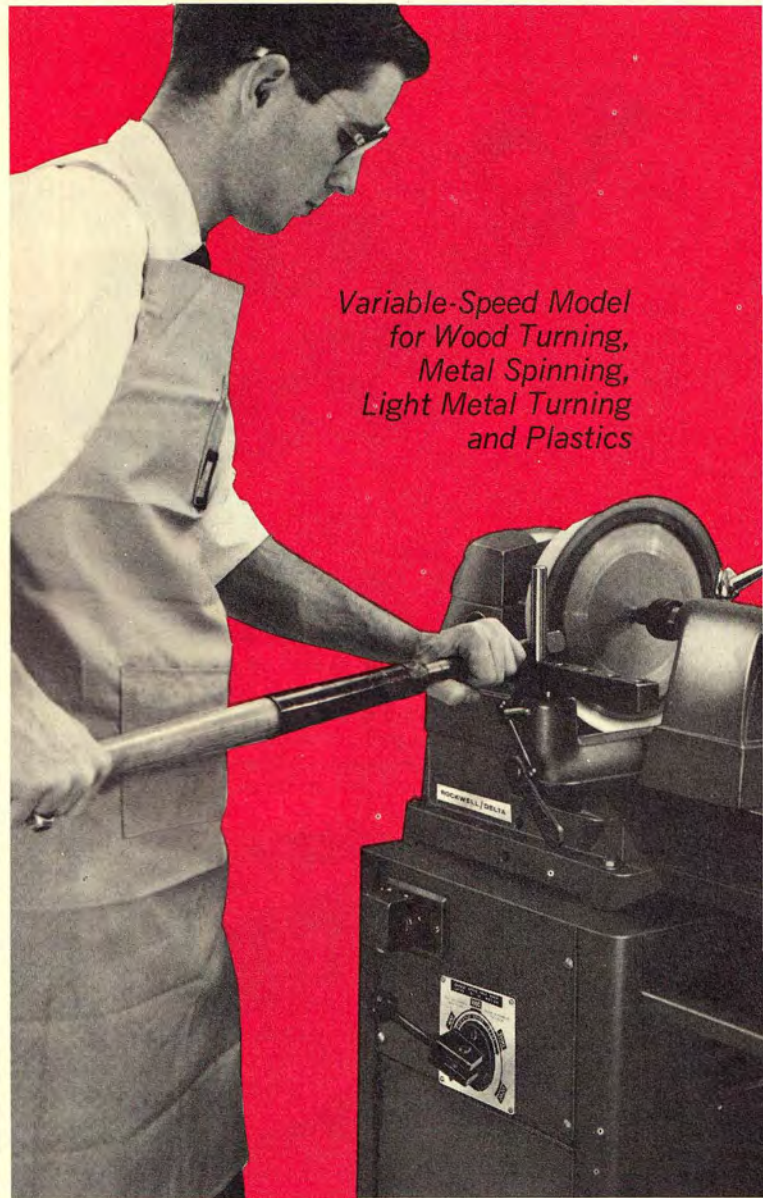
# ROCKWELL

## 12" Standard Duty WOOD LATHE

Select From Two Gap Bed Models — 4 Speed or Variable Speed



4-Speed Model  
for Wood Turning

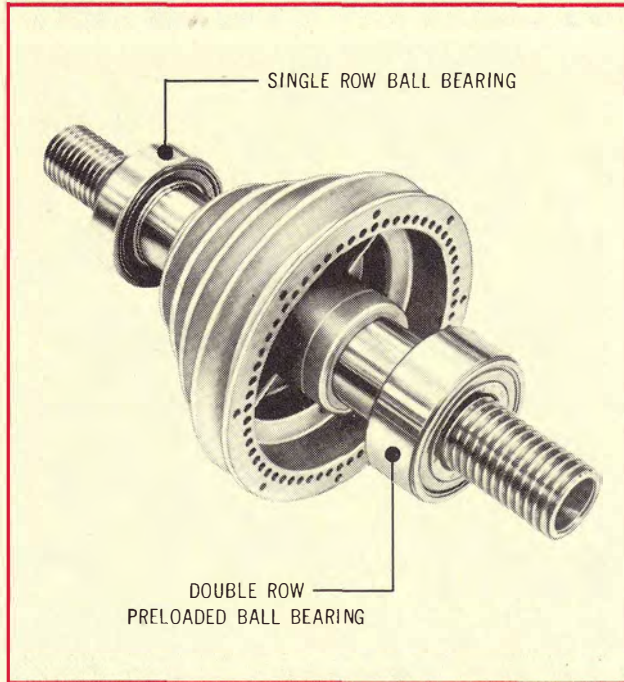


Variable-Speed Model  
for Wood Turning,  
Metal Spinning,  
Light Metal Turning  
and Plastics

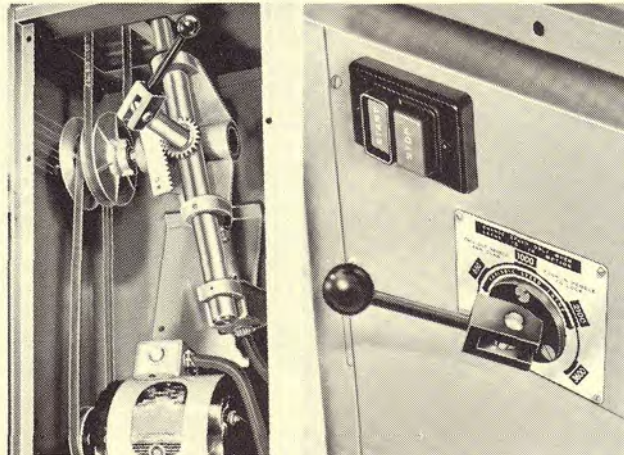
No matter which model you select, you get top quality performance with big capacity . . . 12" over bed . . . 16" over gap . . . extra large using outboard spindle . . . plus 39" between centers ■ Famous Delta Quality Construction: Smooth operating variable speed drive . . . large, double row, preloaded head-stock bearing . . . convenient controls . . . massive bed . . . universal tool support . . . and many more.

# ROCKWELL 12" STANDARD DUTY WOOD LATHE

**ROCKWELL QUALITY FEATURES  
THAT ADD UP TO MORE  
VALUE FOR EVERY USER!**

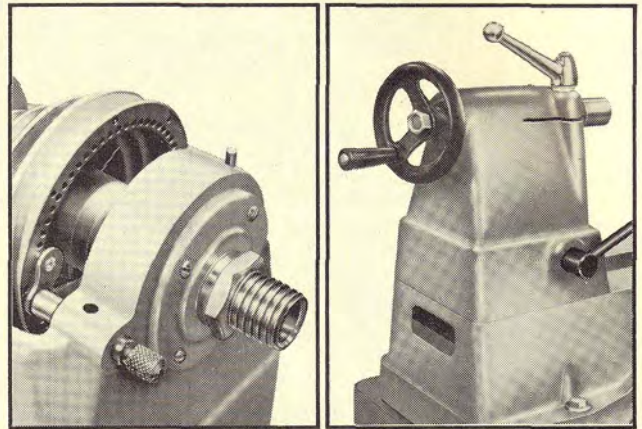


**Rugged Headstock Construction**—Spindle drive is placed between inboard and outboard bearings, reducing spindle whip to a minimum. A double row, preloaded, sealed-for-life ball bearing at the inboard end permits maximum thrust for heavy turning and metal spinning . . . "floating" ball bearing construction on outboard end allows for expansion as spindle warms up.



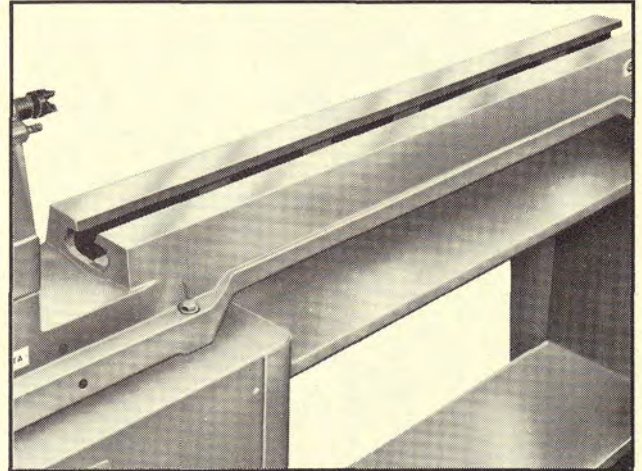
**(Left) Smooth Operating Variable Speed Drive**—Simply constructed, dual belt drive has few operating parts. Ball bearing Jack shaft, that raises and lowers quickly by means of a rack and pinion, always keeps belts in perfect alignment. This assures higher power transmission efficiency than with "old-fashioned," spring-loaded drives.

**(Right) Convenient Controls**—Variable speed control lever is conveniently placed for quick selection of any speed from 340 to 3600 RPM. When "pushed in," lever locks at desired speed. Adjacent push button switch has a shrouded start button to prevent accidental starts and a protruding stop button for fast emergency stops.

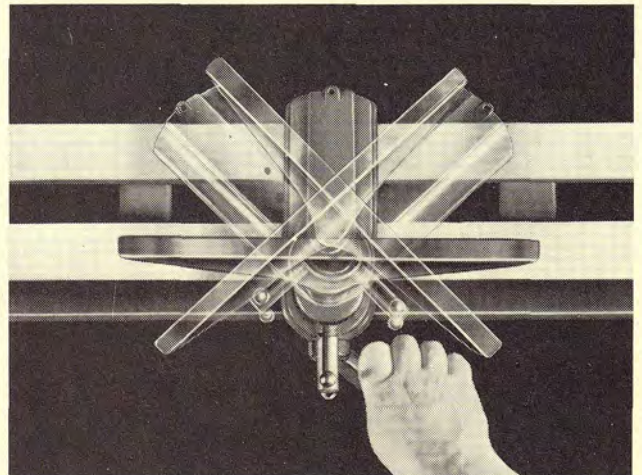


**(Left) Famous Indexing Mechanism**—Two rows of holes in headstock pulley—8 and 60—can be engaged quickly by the unique indexing pin. Now, you can obtain the maximum number of index divisions for reeding and fluting.

**(Right) Modern Tailstock Controls**—Fast operating cam clamp quickly locks massive tailstock to bed. Positive, 360° wrap-around clamp firmly holds ram in position selected. Non-jamming No. 2 M.T. ram automatically ejects centers when retracted. Ram travels a full 2 1/4" and is graduated in 1/16ths.



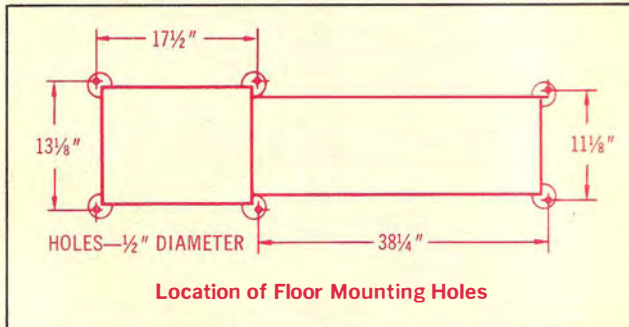
**Massive Bed**—Made of fine grained cast iron, bed is scientifically ribbed and ruggedly constructed to minimize vibration. Bed and headstock are precision ground for perfect alignment, assuring high quality lathe performance.



**Universal Tool Support**—Exceptionally handy and fast in action. Heavy and substantial, it locks to the bed at any desired position by means of the convenient lever at the front where it does not interfere with the work.



**No. 46-525**  
**12" Variable Speed Wood Lathe**  
 With Accessory Safety Shield  
 and Electricals.



**Location of Floor Mounting Holes**



**No. 46-201**  
**12" 4-Speed Wood Lathe**  
 With Accessory Safety Shield  
 and Electricals.

ALSO MADE IN CANADA

## STANDARD EQUIPMENT

Basic Wood Lathes include a spur center, cup center, tool support base, 12" tool support, 6" tool support, 3" face plate, motor pulley and V-belt. Variable-Speed Model also includes a cabinet and two V-belts.

## A Quality Built, Big Capacity Lathe at an Exceptionally Low Price!

Its many fine features is only one of the reasons why the Rockwell 12" Standard Duty Wood Lathe meets the needs of industry, commercial shops and schools so well.

To appreciate its true value, investigate its BIG CAPACITY . . . rugged construction . . . safety of design . . . and its great versatility (more than 50 Rockwell lathe accessories are available). Then, you will agree that it is the BIGGEST VALUE in its class.

Whatever your needs—Variable Speed or 4-Speed—let us "performance-prove" this fine Rockwell Quality Lathe for you today.

### MACHINE DATA

#### Capacities:

Swing Over Bed	12" (304.8 mm)
Swing Over Bed Gap	16" (406.4 mm) Diameter
	For 2 1/2" (63.5 mm) Stock
Distance Between Centers	39" (990.6 mm)

#### Speeds:

Variable Speed Model	340 to 3600 RPM
Four Speed Model	915, 1380, 2150, 3260 RPM

#### Spindle:

Nose-Inboard	1"—8 RH Thread
Nose-Outboard	1"—8 LH Thread
Hole (Completely Through Spindle)	3/8" (15.8 mm)

#### Headstock and Tailstock Tapers

	No. 2 M.T.
--	------------

#### Ram Travel

	2 1/4" (57.1 mm)
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#### Height—Centerline of Spindle to Floor

	41 3/4" (1060.4 mm)
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#### Overall Dimensions:

Height	45 1/4" (1149.3 mm);	Width	16 1/2" (419.1 mm)
Length	60" (1524 mm)		

#### Approximate

Shipping Weight (Floor Models)	345 Lbs. (156.5 Kg.)
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### CATALOG LISTING

#### 4-SPEED MODEL WITH CABINET

**No. 46-201 Basic Machine With Cabinet.** Includes 46-200 Lathe with 50-150 Cabinet, 46-933 Drive Center, 46-439 Cup Center, 46-171 Tool Support Base, 46-692 12" Tool Support, 46-805 6" Tool Support, 46-936 3" Face Plate, 4-step motor pulley (5/8" Bore) and 49-094 V-Belt (81" O.C.). Without motor and switch. 245 lbs.

#### VARIABLE-SPEED MODEL WITH CABINET

**No. 46-525 Basic Machine With Cabinet.** Includes 46-933 Drive Center, 46-439 Cup Center, 46-171 Tool Support Base, 46-692 12" Tool Support, 46-805 6" Tool Support, 46-936 3" Face Plate, 2 3/4" O.D. motor pulley (5/8" bore), 49-354 Upper V-belt (47 5/8" O.C.) and 51-008 Lower V-belt (47 1/8" O.C.). Without motor and switch. 350 lbs.

**NOTE:** Variable-speed model cannot be furnished without cabinet.

**No. 41-032 Motor Pulley,** 2 3/4" diameter, 1 1/2" bore. 1/2 lb.

**No. 41-033 Motor Pulley,** 2 3/4" diameter, 5/8" bore. 1/2 lb.

**No. 41-034 Motor Pulley,** 2 3/4" diameter, 3/4" bore. 1/2 lb.

#### 4-SPEED MODEL WITHOUT CABINET

**No. 46-200 Basic Machine Without Cabinet.** Includes 46-933 Drive Center, 46-439 Cup Center, 46-171 Tool Support Base, 46-692 12" Tool Support, 46-805 6" Tool Support, 46-936 3" Face Plate, 4-step motor pulley (5/8" bore) and 49-094 V-belt (81" O.C.). Without motor and switch. 152 lbs.

**NOTE:** The above lathe cannot be used with the Variable Speed Cabinet.

**No. 50-150 Cabinet,** steel, sturdily constructed, totally encloses motor and drive, has hinged motor plate for easy speed changes, and two shelves. 110 lbs.

**No. 41-732 Motor Pulley,** 4-step, 1 1/2" bore. 2 lbs.

**No. 41-733 Motor Pulley,** 4-step, 5/8" bore. 2 lbs.

**No. 41-734 Motor Pulley,** 4-step, 3/4" bore. 2 lbs.

Continued on next page.

# ROCKWELL 12" STANDARD DUTY WOOD LATHE

CATALOG LISTING—Continued

MOTORS AND CONTROLS (Factory Mounted and Wired—Available Only On No. 46-201 and 46-525 Machines.)

MOTOR	MOTOR CONTROL	MOTOR ENCLOSURE	HERTZ AND MOTOR RPM	MOTOR VOLTAGE	SHIPPING WT., LBS.	CATALOG NUMBER*	CAT. NO.* 200V	CATALOG NUMBER**	CAT. NO.** 200V
Single Phase, ¼ Horsepower	Push Button Switch Only	TEFC	60—1725	115/230	30	49-855		52-316	
	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60—1725	115/230	37	49-856		52-317	
Three Phase, ¼ Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60—1725	230/460	42	49-864	52-169	52-320	52-357

**NOTE:** Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only. Motors and Motor Controls for Rockwell Delta 12" Standard Duty Wood Lathes may be ordered unmounted. For listing, see Sections

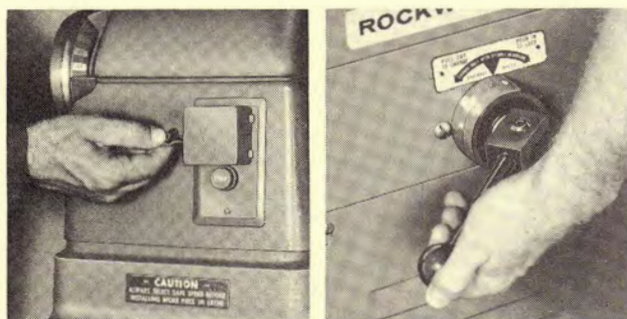
\*Catalog Number includes motor and control without Slow-Start Feature.  
\*\*Catalog Number includes motor, control and Slow-Start Feature.

P and Q. (No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to Three Phase Cat. No. 49-864 in order to obtain 12" Standard Duty Wood Lathe with "JIC" type electricals, factory mounted and wired.

## MAKE LATHE OPERATIONS SAFER WITH ROCKWELL'S SLOW-START FEATURE!

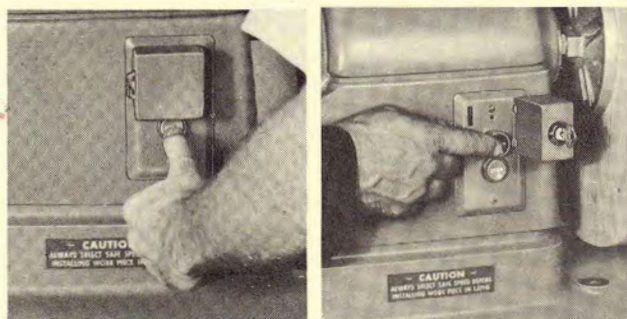
Now! You can order your Rockwell 12" Standard Duty Wood Lathe with a motor and slow-start manual or magnetic control system, mounted and wired, ready to run. See above for motor and control options available.

Here is How the Slow-Start Feature Operates...



(Left) This accessory provides maximum safety for novice lathe operators in schools, training institutions, etc. With it the lathe can be started only at the slowest speed. Above, the shop instructor locks hood after pressing switch button to "on" position, ready for student's use.

(Right) Now, student starts lathe by merely pulling variable speed control lever to right. When desired speed is obtained, he pushes lever in, locking it in position. Then, he proceeds to operate the lathe.



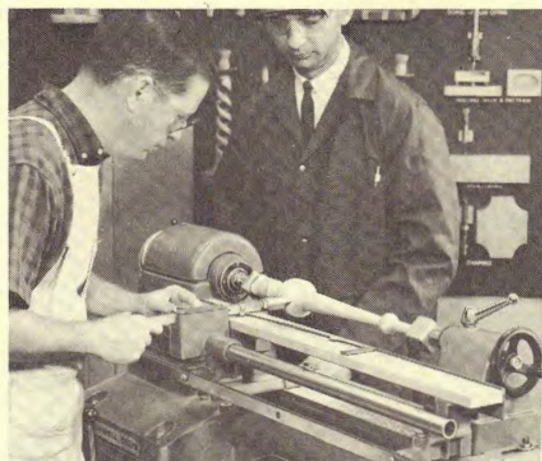
(Left) Should a danger signal suddenly appear, the operator's first reaction would be to stop the lathe. This he does by pressing the "stop" button. Now, the lathe cannot be started again by actuating the variable speed control lever since the current is off. The locked hood also makes the "start" button inaccessible.

(Right) Next, the difficulty is determined, either by the student or the instructor, and corrected. Then, the instructor must unlock the hood, press the "start" button and lock the hood again before the student can proceed.

**NOTE:** See Section N4 for complete range of wood lathe accessories.

## ROCKWELL WOOD TURNING DUPLICATOR

For Safe, Accurate Duplication of Complex Wood Turnings



- Used on Rockwell and Other Wood Lathes
- Takes Only a Few Minutes to Install

Now! You can teach your students how to reproduce one or any number of intricate wood turnings exactly on your 11" or 12" wood lathes. With the Rockwell Wood Turning Duplicator, you get all these benefits:

**Maximum Accuracy With Exact Duplication . . .** you can reproduce complicated turnings perfectly—patterns, balusters, lamps, table and chair legs—up to 4" in diameter.

**Complete Safety . . .** firmly held on the lathe, the Duplicator has minimum tool overhang for safe, smooth operation.

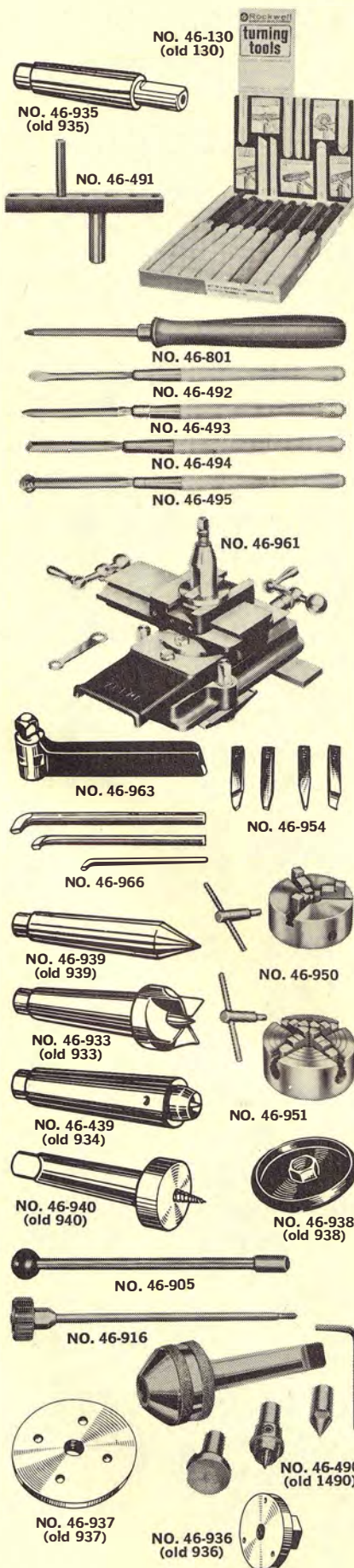
**Increases Student Participation . . .** with the Rockwell Wood Turning Duplicator, there's less time spent per student on the lathe, more opportunity to learn.

**Minimum Stock Spoilage . . .** the Duplicator eliminates costly mistakes, thus, there are no more discarded turnings.

### SPECIFICATIONS

Maximum Diameter . . . . . 4"  
Maximum Length . . . . . 28½"  
Cutting Tool Bit (Standard)  
Ground to Shape . . . . . ¼" x ¼"  
Shipping Weight . . . . . 24 lbs.

**No. 46-840 Wood Turning Duplicator complete.**



## WOOD TURNING TOOLS

Complete set of eight basic tools. Made of a special, high-grade alloy steel with precision ground cutting edges. Handles are extra long and of choice hardwoods. Heavy gauge metal ferrules and steel tongs to give long tool life. Blades are 6" long—overall length, 17". 1 lb.

- NO. 46-121 (old 121) 1" Skew.
- NO. 46-124 (old 124) ½" Skew.
- NO. 46-122 (old 122) ¾" Gouge.
- NO. 46-126 (old 126) ½" Gouge.
- NO. 46-123 (old 123) ¼" Gouge.
- NO. 46-125 (old 125) ⅛" Parting Tool.
- NO. 46-127 (old 127) ½" Spear Point.
- NO. 46-128 (old 128) ½" Round Nose.
- NO. 46-130 (old 130) Set of above eight chisels. 5½ lbs.

## TUNGSTEN ALLOY TIPPED TURNING CHISELS

For cutting metals such as brass, bronze, aluminum, and mild steel free-hand as easily as wood and plastic. Two styles—square nose and round nose. Two sizes—⅝" for fine work and 1⅞" for large, heavy work. Have an extremely long life with little or no sharpening required. 1 lbs.

- NO. 46-801 Square Nose, ⅝".
- NO. 46-802 Round Nose, ⅝".
- NO. 46-803 Square Nose, 1⅞".
- NO. 46-804 Round Nose, 1⅞".

## METAL SPINNING TOOLS

Made of exceptionally high grade hardened steel to assure long spinning edge life. Blades have specially designed tangs wedge firmly into the handles. Overall length, approximately 30".

- NO. 46-492 Flat Tool. 2½ lbs.
- NO. 46-493 Pointed Tool. 2½ lbs.
- NO. 46-494 Cut-Off Tool. 2½ lbs.
- NO. 46-495 Beading Tool. 2½ lbs.
- NO. 46-496 Set of above four tools. 9 lbs.

NO. 46-491 Tool Rest. For use with metal spinning tools. Has multiple openings for positioning of fulcrum pin. 3½ lbs.

## METAL TURNING ACCESSORIES

When equipped with metalworking accessories, your lathe can turn non-ferrous metals, do drilling and boring operations, etc.

NO. 46-961 Compound Slide Rest. Accurately built with dovetail ways and graduated compound base that rotates 360°. Feed screws are covered to protect them from dirt and chips—fitted with micrometer sleeves, accurately graduated. With tool post, rocker, washer and wrench. 31 lbs.

## HOLDER, BORING BARS, TOOL BITS

For use with the No. 46-961 Slide Rest. Holder is extremely useful and many uses can be found for it. Holds both boring bars and ¼" square bits. Holder has two holes to facilitate holding tool. Made of case hardened tool steel.

NO. 46-963 Holder for Boring Bar and Tool Bits. 1 lb.

NO. 46-966 Boring Bars, set of three, ⅝", ⅞" and 1¼". ½ lb.

NO. 46-954 Tool Bits, set of four, high-speed steel, ¼" x ¼" x 1⅞", includes roughing, finishing, right corner and left corner. ½ lb.

NO. 46-939 (old 939) 60° Plain Center for metal turning, hardened and ground. ⅝ lb.

## CHUCKS

NO. 46-950 4", 3-Jaw Universal Type Threaded 1"—8 R. H. Has three internal and three external jaws. 5 lbs.

NO. 46-951 4", 4-Jaw Independent Type Threaded 1"—8 R. H. Has one set of jaws, reversible for internal or external work. 3½ lbs.

## CENTERS

All with No. 2 M.T. shank.

NO. 46-933 (old 933) Spur, Drive. For headstock. Has replaceable center pin, hardened and polished. ⅝ lb.

NO. 46-439 (old 934) Cup, Dead. For tailstock. Has replaceable center pin, hardened and polished. ⅝ lb.

NO. 46-940 (old 940) Screw Center. Excellent for turning small, delicate work. With 1⅞" long replaceable screw. Has 1½" diameter face. ½ lb.

NO. 46-968 (old 968) Geared Chuck with key. For drilling on the lathe. 0 to ½" capacity. 2 lbs.

NO. 46-935 (old 935) Adapter. With ½" x 1⅞" plain shank. Permits use of all attachments with ½" bore. ⅝ lb.

NO. 46-490 (old 1490) Ball Bearing Center with three replaceable centers and wrench. Husky and true running with no chatter. Has double-row, sealed, lubricated-for-life bearings to take exceptionally heavy radial and thrust loads. 1 lb.

## KNOCKOUT BAR

NO. 46-905 Knockout Bar, 10⅞" from end of tip to ball. For removing centers and other attachments. 1 lb.

## DRAW BOLTS

For holding No. 2 M.T. attachments, including sanding drums and screw centers. With ¼"—20 thread. 1 lb.

NO. 46-916 Draw Bolt with ¼"—20 thread for hollow spindles which are 13½" long. For 12" Heavy Duty Wood Lathe. 1 lb.

NO. 46-850 Draw Bolt with ¼"—20 thread for hollow spindles which are 9¾" long. For 12" Standard Duty Wood Lathe.

## FACE PLATES AND HAND WHEEL

With 1"—8 thread.

NO. 46-936 (old 936) Face Plate. 3" diameter with R.H. thread. For small and medium face plate work. ½ lb.

NO. 46-937 (old 937) Face Plate. 6" diameter with R.H. and L.H. thread to fit spindles with 1"—8 thread. For large face plate work. 2 lbs.

NO. 46-938 (old 938) Hand Wheel. 5" diameter. Fits L.H. end of lathe spindle with 1"—8 thread. For quick positioning of work or rapid stopping of lathe. 2 lbs.

## SANDING DRUMS

**No. 46-163 (old 163) Abrasive Drum, 3" x 3", with No. 2 M.T. shank. 2 lbs.**

**No. 46-164 (old 164) Abrasive Drum, 1 3/4" x 2", with No. 2 M.T. shank. 1 lb.**

## SANDING SLEEVES

**3" diameter x 3" Sleeves.** Package of 6. For use with 46-163 Sanding Drum.

**No. 46-138 (old 831) Coarse Garnet.** No. 1 1/2 grit. 1/2 lb.

**No. 46-832 (old 832) Medium Garnet.** No. 1/2-60 grit. 1/2 lb.

**No. 46-338 (old 833) Aluminum Oxide (for metal).** No. 1-50 grit. 1/2 lb.

**1 3/4" Diameter x 2" Sleeves.** Package of 6. For use with 46-164 Sanding Drum.

**No. 46-638 (old 836) Coarse Garnet.** No. 1 1/2-40 grit. 1/4 lb.

**No. 46-837 (old 837) Medium Garnet.** No. 1/2-60 grit. 1/4 lb.

**No. 46-838 (old 838) Aluminum Oxide (for metal).** No. 1-50 grit. 1/2 lb.

## TOOL RESTS AND BASES

Heavy and strong with 1" diameter shank.

**No. 46-690 (old 690) Tool Rest.** 4" wide. 1 lb.

**No. 46-805 Tool Rest.** 6" wide. 2 lbs.

**No. 46-692 (old 692) Tool Rest.** 12" wide. 2 lbs.

**No. 46-431 Calibrated Tool Rest.** 12" wide. Has a calibrated, hardened steel insert for making accurate measurements and divisions on work. 4 lbs.

**No. 46-694 (old 694) Tool Rest.** 24" wide. For extra long turnings. Has two 1" diameter shanks. Requires an extra 46-171 Tool Support Base for use on lathe. 4 1/2 lbs.

**No. 46-695 (old 695) Right Angle Tool Rest.** Especially useful for face plate work. 2 lbs.

**No. 46-171 (old 1461) Tool Rest Base.** Has V-shaped hole for 1/2" to 1" diameter shank tool rests. With universal locking mechanism. 9 lbs.

**No. 46-430 Off-Set Tool Rest Base.** With V-shaped hole for 1/2" to 1" diameter shank tool rests. For face plate turning on extra large stock over the gap. 4 lbs.

**No. 46-468 (old 1468) Steady Rest.** Capacity up to 2 1/4" diameter. Prevents spring and vibration when working long, thin stock. Has heavy cast iron base with sliding arms of steel. 7 lbs.

## FLOOR STAND

**No. 46-697 (old 697) Floor Stand.** Heavy and rigid. For face plate work on the outboard end of the spindle. Has V-hole to accommodate tool support with 1/2" to 1" shank. 42 lbs.

## MACHINE SPUR BITS

Made of selected steel. Have brad point and two cutting spur lips. All with 1/2" diameter shank. 1/2 lb.

**No. 15-524 (old 804) 1/4".**

**No. 15-525 (old 805) 5/16".**

**No. 15-526 (old 806) 3/8".**

**No. 15-527 (old 807) 7/16".**

**No. 15-528 (old 808) 1/2".**

**No. 15-529 (old 809) 9/16".**

**No. 15-530 (old 810) 5/8".**

**No. 15-532 (old 812) 3/4".**

**No. 15-538 (old 818) Complete set of eight machine spur bits.** 2 lbs.

## GRINDING AND BUFFING ACCESSORIES

With 1/2" hole. Use with No. 46-144 (old 144) and 46-145 (old 145) Arbors. 2 lbs.

**No. 23-001 (old 3101) Grinding Wheel,** 1/2" x 6" diameter, 46 grit, coarse, aluminum oxide. 1 3/4 lbs.

**No. 23-002 (old 3102) Grinding Wheel,** 1/2" x 6" diameter, 60 grit, fine, aluminum oxide. 1 3/4 lbs.

**No. 23-620 Grinding Wheel,** 5/8" x 6" diameter, 36 grit, coarse, aluminum oxide. 2 lbs.

**No. 23-621 Grinding Wheel,** 5/8" x 6" diameter, 60 grit, fine, aluminum oxide. 2 lbs.

**No. 23-113 (old 3113) Wire Brush,** 6" diameter, coarse, set of two. 1 lb.

**No. 23-114 (old 3114) Wire Brush,** 6" diameter, fine, set of two. 1 lb.

**No. 23-511 (old 3115) Fiber Brush,** 6" diameter, Tampico fiber, set of two. 1 lb.

**No. 23-005 (old 4005) Buffing Wheel,** 1/2" x 6" diameter, circular stitching. 1 lb.

## SCREW-ON ARBORS FOR 1/2" HOLE ACCESSORIES

**No. 46-144 (old 144) Screw-On Arbor,** with 1"-8 R.H. thread. For mounting grinding wheels, buffing wheels, wire brushes, etc. 1 lb.

**No. 46-145 (old 145) Screw-On Arbor.** Same as No. 46-144 (old 144) except with 1"-8 L.H. thread. 1 lb.

## BUFFING COMPOUNDS

Giant one pound bars of the most common compounds used for buffing, polishing and cleaning all types of materials.

No.	Description	Use
23-007 (old 4007)	Rouge (Red)	For gold, silver and other precious metals
23-008 (old 4008)	Rouge (White)	For nickel, chromium, iron, stainless steel, cast brass and aluminum
23-009 (old 4009)	Emery (Black)	For removing rust, scale and tarnish
23-010 (old 4010)	Tripoli (Brown)	For aluminum, brass, copper, pewter, wood, plastic

**No. 23-004 (4004) Buffing Compound Kit.** Consisting of 1/4 lb. bars of compounds: Rouge Red, Rouge White, Emery Black and Tripoli Brown. 1 lb.

## DISC SANDING ACCESSORIES

**No. 46-934 Sanding Disc** with one garnet disc. 8 1/2" diameter. With 1"-8 R.H. thread. 3 lbs.

## ABRASIVE PAPER DISCS

Garnet, package of 12, 8 1/2" diameter, fine and coarse, for use with 46-934 Sanding Disc. 1 lb.

**No. 46-815 Garnet Paper Disc,** 40 grit, coarse.

**No. 46-817 Garnet Paper Disc,** 80 grit, fine.

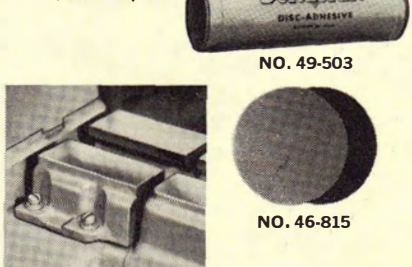
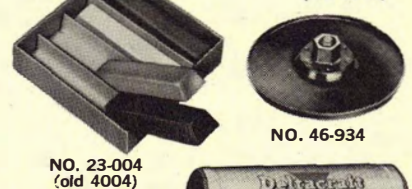
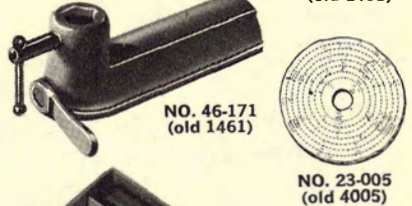
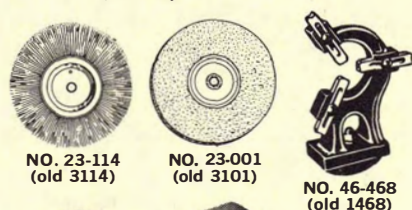
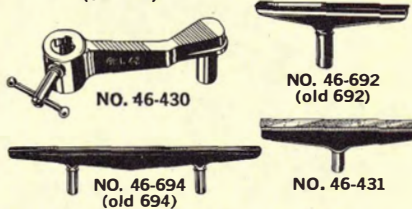
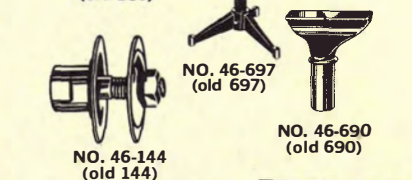
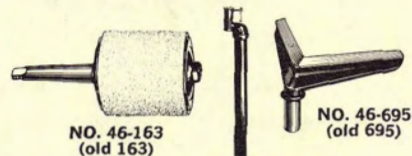
**No. 49-503 Disc Adhesive.** Special quick drying type for changing from one abrasive disc to another in a few minutes. 1 lb.

**No. 34-226 Miter Gage.** With stop rods and clamp. 1 1/2 lbs.

## GAP FILLER BLOCK

Provides rigid tool support for metal spinning, thin face plate turnings, any work that must be done right at the headstock. Can be mounted on a bench beyond tailstock end of lathe bed for extra long turnings. The No. 46-697 (old 697) Floor Stand is recommended for this operation.

**No. 46-440 Filler Block** for mounting in gap or beyond bed of 12" Heavy Duty Wood Lathes bearing Serial No. 124-9001 and higher. 6 lbs.

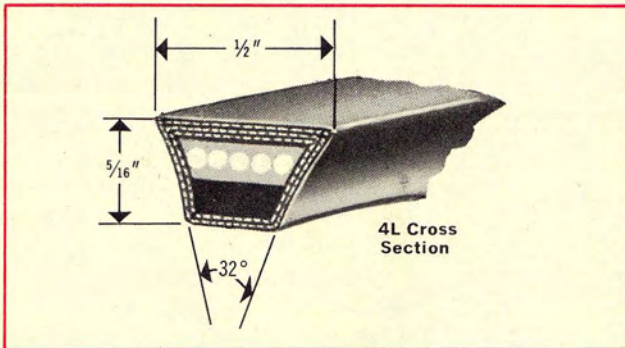


NO. 46-440

# ROCKWELL ACCESSORIES AND ATTACHMENTS FOR ALL SHOPS

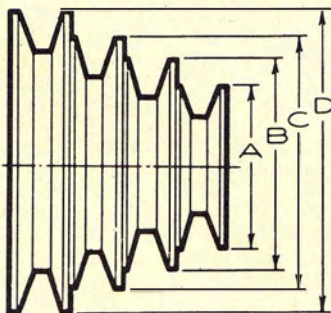
## V-BELTS (4L Type)

Designed to make perfect contact with side of V-groove, these V-belts transmit maximum power with minimum slip.



CAT. NO.	OUT. CIR.	CAT. NO.	OUT. CIR.
49-162	24 1/8"	*49-289 (old 289)	46 1/8"
49-271 (old 271)	25 1/8"	51-007	46 1/8"
*49-124	26 1/16"	VF51-008	47 7/8"
49-178	26 3/8"	49-354 (old 453)	47 7/8"
49-177	27 1/8"	51-009	48 1/8"
51-004	28"	49-169	50"
49-272 (old 272)	28 1/8"	*49-294 (old 294)	51 1/8"
49-150	28 1/4"	49-142	51 1/8"
*49-291 (old 291)	29 1/8"	49-051 (old 501)	52"
49-101	29 3/8"	49-510 (old 510)	53 1/4"
49-105	30"	49-025 (old 520)	54 1/8"
49-121	30 1/8"	49-035 (old 530)	55 3/8"
49-287 (old 287)	31 1/8"	49-144	56 1/8"
49-284 (old 284)	31 3/8"	49-173	57 1/8"
49-273 (old 273)	32 1/8"	49-130	58 1/8"
49-149	33 3/8"	49-560 (old 560)	58 2 3/32"
49-153	34 1/4"	49-172	58"
49-303 (old 331)	35"	49-140	59"
49-152	36"	49-141	60 1/8"
49-340 (old 340)	36 1/2"	49-148	62 1/8"
49-195	37"	49-146	65"
49-115	39"	49-644 (old 644)	66 3/8"
49-154	40 1/8"	VF51-010	67"
49-387 (old 387)	40 1/2"	49-096	68 5/8"
49-168	41 1/8"	49-094	81 1/16"
49-196	41 1/2"	49-179	94 3/16"
49-104 (old 410)	42 1/8"		
49-034 (old 430)	44 1/8"		
VF49-167	45 1/8"		
SC49-145	46"		

VF—Vibration free. †Matched set of two.  
 \*Matched set of three. ††Matched set of four.  
 SC—Specially constructed.



## STEP PULLEYS FOR 4L CROSS SECTION BELTS (5/8" and 3/4" Bore Contain 3/16" Keyways)

OLD CAT. NO.	CAT. NO. (1/2" BORE)	CAT. NO. (5/8" BORE)	CAT. NO. (3/4" BORE)
718	41-712	41-713	41-714
720	41-722	41-723	41-724
932	41-732	41-733	41-734
985	41-702	41-703	41-704

## SINGLE GROOVE PULLEYS FOR 4L CROSS SECTION BELTS (5/8", 3/4" and 7/8" Bore Contain 3/16" Keyways)

SINGLE GROOVE PULLEY O.D.	CAT. NO. (1/2" BORE)	CAT. NO. (5/8" BORE)	CAT. NO. (3/4" BORE)	CAT. NO. (7/8" BORE)
2"	41-002	41-003	41-004	
2 1/4"	41-012	41-013	41-014	
2 1/2"	41-022	41-023	41-024	
2 3/4"	41-032	41-033	41-034	
3"	41-042	41-043	41-044	
3 1/2"	41-052	41-053	41-054	
4"	41-062	41-063	41-064	
4 1/2"	41-072	41-073	41-074	
5"	41-082	41-083	41-084	
5 1/2"	41-092	41-093	41-094	
6"	41-102	41-103	41-104	
6 1/2"	41-112	41-113	41-114	
7"	41-122	41-123	41-124	
*7 1/2"	.....	41-136	41-134	41-140
8"	41-142	41-143	41-144	
10"	41-152	41-153	41-154	

\*A special balanced cast iron pulley for the No. 43-340 Heavy Duty Wood Shaper.

## SPECIAL HEAVY DUTY SINGLE AND MULTIPLE GROOVE PULLEYS

O.D.	GROOVES	CAT. NO. (5/8" BORE)	CAT. NO. (3/4" BORE)	CAT. NO. (7/8" BORE)	CAT. NO. (1" BORE)	CAT. NO. (1 1/8" BORE)	CAT. NO. (1 3/8" BORE)	KEYWAY	BELT CROSS SECTION
3"	1	41-203						3/16"	"4L"
3"	3					41-637		1/4"	"4L"
3"	3		41-644					3/16"	"4L"
3 3/4"	4				41-746	41-747	*41-748	1/4"	"4L"
3 3/8"	2			41-515				1/4"	"3V"
3 1/2"	2		41-504	41-505				3/16"	"4L"
3 3/8"	2					41-517		1/4"	"3V"
6"	3					41-627		1/4"	"4L"
3 3/8"	3					41-607	*41-610	1/4"	"3V"
7"	1		41-174	41-175	41-006	41-177		1/4"	"A"
8 1/2"	1		41-194	41-195	41-016	41-197		1/4"	"A"

\*1 3/8" Bore Pulleys supplied with 5/16" keyway.

## FOUR-STEP PULLEYS

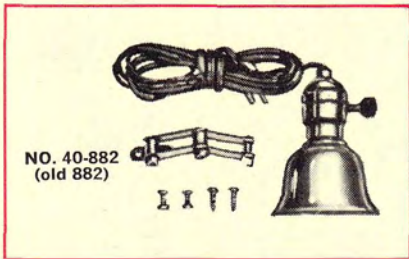
Made for same size V-belts as single groove pulleys. May be used in pairs as listed in table below and will provide speeds listed when used with 1725 rpm motor. All available with 1/2", 3/8" and 3/4" bores. 5/8" and 3/4" bores have a 3/16" keyway.

NUMBER OF PULLEY	PULLEY (Outside) DIMENSIONS—INCHES			
	A	B	C	D
41-712 41-713 41-714	1 3/4	2 1/4	2 3/4	3 3/8
41-722 41-723 41-724	3 1/8	3 5/8	4	4 1/2
41-732 41-733 41-734	2 1/2	3 3/8	3 7/8	4 1/2
41-702 41-703 41-704	2 1/8	3 1/8	4 1/4	5 1/4

DRIVER	DRIVEN	SPEEDS			
41-712 41-713 41-714	41-712 41-713 41-714	905	1410	2100	3340
41-722 41-723 41-724	41-722 41-723 41-724	1180	1520	2000	2530
41-712 41-713 41-714	41-722 41-723 41-724	610	910	1255	1725
41-722 41-723 41-724	41-712 41-713 41-714	1725	2370	3290	4900
41-732 41-733 41-734	41-732 41-733 41-734	915	1380	2150	3260
41-702 41-703 41-704	41-702 41-703 41-704	656	1240	2400	4500

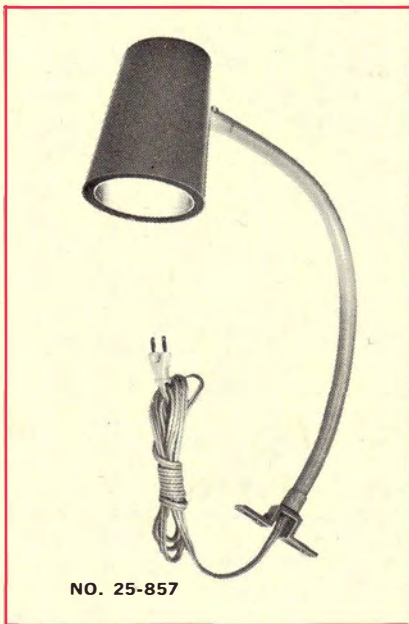
# ROCKWELL ACCESSORIES AND ATTACHMENTS FOR ALL SHOPS

## LAMP ATTACHMENTS



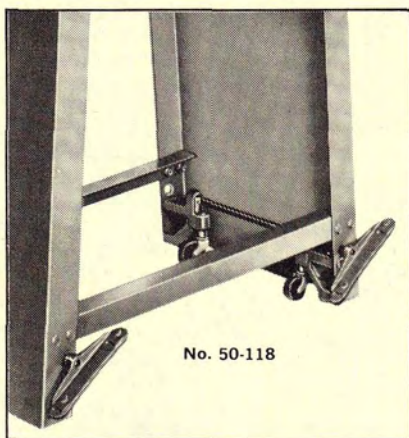
NO. 40-882  
(old 882)

**No. 40-882 (old 882)** For use with the drill press, band saw, scroll saw and other machines. Furnishes every machine with its own illumination, independent of the shop lighting system. Uses std. 15 or 25-watt bulb. 1½" lbs.



NO. 25-857

**No. 25-857 Deluxe Flexible Type** for 115 V. For use on 20" Band Saws, 6" Tool Grinder, TOOLMAKER Grinder, drill presses, metal lathes and in other shop locations. With 18" flexible gooseneck, reflector and 8-foot cord with 2-prong plug. Uses standard bulb (not included) up to 75 watts. 2½ lbs.



No. 50-118

## RETRACTABLE CASTER SETS

Make your Rockwell Industrial Machines mobile and increase their useful-

ness to your operation. With Retractable Casters on your Rockwell Machines, you can easily wheel them about your plant or shop, right to the job site. 13 lbs.

### No. 49-362 Retractable Caster Set

Fits Steel Stands As Follows:

Stands Used On	Machines Used On
50-106	1" Sander/Grinder

### No. 49-363 Retractable Caster Set

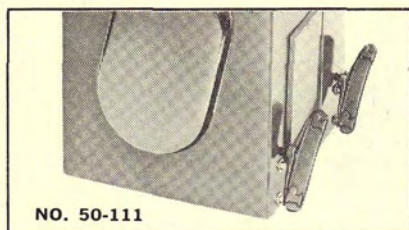
Fits Steel Stands As Follows:

Stands Used On	Machines Used On
50-718	24" Scroll Saw
50-723	4" Deluxe Jointer

### No. 49-364 Retractable Caster Set

Fits Steel Stands As Follows:

Stands Used On	Machines Used On
50-315	10" Bench Saw



NO. 50-111

### No. 50-111 Retractable Caster Set

Furnished with built-in levelling screws that assure a level base at all times. Fits Totally Enclosed Steel Stands as follows:

Stands Used On	Machines Used On
50-121	6" Deluxe Jointer
50-122	14" Band Saws
50-125	6" Belt Sander
50-126	12" Disc Sander
50-139	Deluxe 9" Builders' Saw

### No. 50-118 Retractable Caster Set

Fits Steel Stands As Follows:

Stands Used On	Machines Used On
50-507	10" Contractors' Saw
50-508	Motorized Miter Box
50-509	9" Saw-4" Jointer Combination
50-513	Lt. Duty Wood Shaper



GRAY  
MACHINE  
ENAMEL

NO. 49-324

A high quality gray enamel that is color blended to match the production finish of Rockwell-built Delta Industrial Ma-

chines. Ideal for covering scratches, nicks, chips, etc., to make machine surfaces look like new. Prevents bare surfaces from rusting.

**No. 49-333 Quart** size. 2½ lbs.

**No. 49-334 Gallon** size. 9½ lbs.

**No. 49-323 Push Button Self-Spray Can** (12 av. ozs.) for easy retouching of Delta Industrial Machines. (Dealers note: Single cans are not shipped from the factory. Order No. 49-324.) 1 lb.

**No. 49-324 Carton** of 12 each of No. 49-323. 12 lbs.

## RUST REMOVER

**No. 49-320 Half pint** bottle. 1 lb. (Dealers note: Single bottles are not shipped from the factory. Order No. 49-304.)

**No. 49-304 Carton** of 10 each of No. 49-320. 7 lbs.

## VALUE ADDED BY YOUR INDUSTRIAL DISTRIBUTOR

*He will provide you with...*

- **Assistance in Your Production Planning.** His years of experience and technical know-how have equipped him to give you expert advice on your production problems.
- **Fast Delivery From Local Stocks.** Because of his knowledge of local markets, he stocks the products you need — delivers your orders quickly and keeps your working capital free.
- **Prompt Information on New and Old Products.** He is in constant touch with manufacturers who supply him with information on new products and developments.
- **One Source For Many Types of Products.** One source ordering simplifies your purchasing procedure and reduces your accounting costs.

# ROCKWELL **Wet/Dry** **VACUUM CLEANERS**

POWERFUL! EFFICIENT! HIGH IN PERFORMANCE! EASY TO OPERATE!



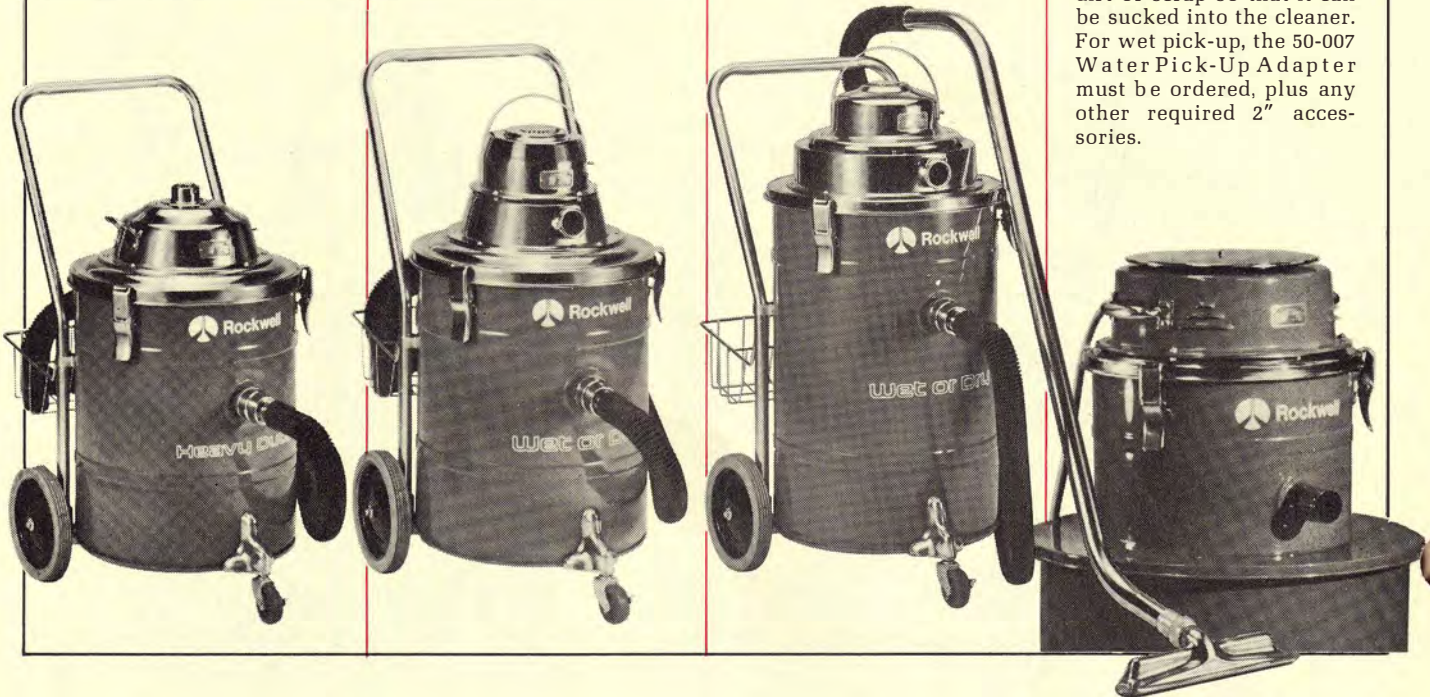
# ROCKWELL WET/DRY VACUUM CLEANERS

**No. 50-001**—Most useful and popular vacuum cleaner ever designed for picking up normal traffic dirt, dust and grime. For dry and damp pick-up.

**No. 50-002** — A Maximum Value Wet/Dry Vac with bypass motor permitting intermittent wet pick-up as in floor scrubbing.

**No. 50-003** Shown With Accessory 50-013 Wand and 50-015 Master Floor Tool. For Wet or Dry Pick-Up. Equipped with a double-powered motor that picks up dirt faster than any other standard vacuum. Its superior efficiency reduces cleaning time.

**No. 50-004**—3-Motor Heavy Duty Head designed for industrial plant and machine shop applications. Power Head includes an adapter to convert any drum into an extra high powered, large capacity vacuum cleaner. Has triple the motor power of most regular industrial vacuum cleaners, creating a turbulence at the pick-up nozzle that loosens heavy dirt or scrap so that it can be sucked into the cleaner. For wet pick-up, the 50-007 Water Pick-Up Adapter must be ordered, plus any other required 2" accessories.



NO-STOOP, COMFORTABLE HEIGHT HANDLE.

HEAVY DUTY, ADJUSTABLE CLAMPS.

CONVENIENT CARRY-ALL TOOL BASKET (STANDARD EQUIPMENT).

CONVERTS TO POWER BLOWER IN SECONDS.

PATENTED, DOUBLE HEAVY-DUTY MOLESKIN AND EXCLUSIVE NEVER-CLOG® FILTER SHEDS DIRT LIKE A DUCK SHEDS WATER. SHAKE AND IT'S CLEAN. KEEPS MAXIMUM VACUUM.

NON-MARKING LARGE WHEELS WILL ROLL OVER CORD, LEDGES, UP AND DOWN STAIRS.

FRONT CASTER EQUIPPED WITH LOCKING BRAKE.

## ROCKWELL HIGH PERFORMANCE VACUUM CLEANER FEATURES

HEAVY STEEL CONTAINER, BAKED ENAMEL FINISH, CORROSION RESISTANT.

MOBILE - PORTABLE - MANEUVERABLE.

QUICK, POSITIVE, AUTOMATIC HOSE COUPLING—SNAPS ON—SNAPS OFF (STANDARD EQUIPMENT).

EXCLUSIVE ACCORDION® HOSE STRETCHES TO 16 FEET (STANDARD EQUIPMENT).

All Models Are



APPROVED

# ROCKWELL WET/DRY VACUUM CLEANERS

- **POWERFUL!** • **EASY TO OPERATE!**
- **EFFICIENT!** • **HIGH IN PERFORMANCE!**

Rockwell Vacs, the STANDARD of Commercial Vacuum Cleaners, are designed for general purpose cleaning in factories, terminals, hotels, stores, restaurants, churches, schools and similar installations. Designed for heavy duty performance, these efficient vacuum cleaners keep work areas clean . . . quickly remove scrap and fluids . . . recover valuable materials . . . and improve quality control.

Ask for a free demonstration today!

## STANDARD EQUIPMENT

(All Models Except Heads) Include Basic Unit, Wheel Set and Handle, Accordion Hose and Quick Disconnect Adapter, Tool Basket, Two-Stage Filter.

## CATALOG LISTING

**No. 50-001 Vacuum Cleaner For Dry and Damp Pick-Up**, with 7.3 amp, 115 V, 60 hertz, AC, air cooled motor. Includes 16-gallon container with 9½-gallon recovery, wheel set and handle, accordion hose and quick-disconnect hose adapter, air filter assembly plus Never-Clog® filter, tool basket, 25-foot 115 V 3-wire grounded type cord set and built-in socket for 115 V lamp. 42 lbs.

**No. 50-002 Vacuum Cleaner For Dry and Wet Pick-Up**, with 8 amp, 115 V, 60 hertz, AC, by-pass motor. Includes 16-gallon container with 9½-gallon recovery, wheel set and handle, accordion hose and quick-disconnect hose adapter, air filter assembly plus Never-Clog® filter, tool basket, 25-foot 115 V 3-wire grounded type cord set and built-in socket for 115 V lamp. 43 lbs.

**No. 50-003 Vacuum Cleaner For Dry and Wet Pick-Up**, with 11.1 amp, 115 V, 60 hertz, AC, by-pass motor. Includes 20-gallon container with 13-gallon recovery, wheel set and handle, accordion hose and quick-disconnect hose adapter, air filter assembly plus Never-Clog® filter, tool basket, 25-foot 115 V 3-wire grounded type cord set and built-in socket for 115 V lamp. 53 lbs.

**No. 50-004 Multi-Motor Head For Dry and Wet Pick-Up**, with three 6.3 amp, 115 V, 60 hertz, AC, by-pass motors with sealed-in lubrication. Includes 25-foot 115 V 3-wire grounded type cord set with 12/3 gage wire. 2" diameter intake. RPM—17,500. CFM—85. Will fit any can from 17" GI to 23" or any 55 or 65-gallon drum. 45½ lbs.

**No. 50-091 Replacement Motor and Head Assembly** for 50-001 Vacuum Cleaner. 10 lbs.

**No. 50-092 Replacement Motor and Head Assembly** for 50-002 Vacuum Cleaner. 11 lbs.

**No. 50-093 Replacement Motor and Head Assembly** for 50-003 Vacuum Cleaner. 16 lbs.

**No. 50-094 Replacement Motor and Head Assembly** for 50-004 Multi-Motor Power Unit. 21 lbs.

## MACHINE DATA

SPECIFICATIONS	VACUUM CLEANER MODELS			3—MOTOR HEAD
	NO. 50-001	NO. 50-002	NO. 50-003	NO. 50-004
MOTOR	7.3 Amps, Elect. Input 1 HP, 115 V, 60 Hz. Air Cooled	8 Amps, Elect. Input 1 HP, 115 V, 60 Hz. By-Pass	11.1 Amps, Elect. Input 2 HP, 115 V, 60 Hz. By-Pass	19 Amps, (6.3 Amps Each Motor) Elect. Input 3 HP, 115 V, 60 Hz. By-Pass
WATERLIFT	84" Maximum	78" Maximum	102" Maximum	78" Maximum
MOTOR GUARANTEE	1 Year	2 Years	2 Years	2 Years
HOSE TYPE	Accordion Stretch 1½" I.D.	Accordion Stretch 1½" I.D.	Accordion Stretch 1½" I.D.	Not Supplied 2" Diameter Intake
CONTAINER SIZE	16-Gallon	16-Gallon	20-Gallon	Will Fit Any Can From 17" GI to 23" or Any 55 or 65-Gallon Drum. Raises Filter Above Drum Permitting Full Utilization of Drum's Capacity.
RECOVERABLE CAPACITY	9½-Gallon WET 1 Bu. DRY	9½-Gallon 1 Bu.	13-Gallon 1½ Bu.	
WEIGHT	42 Lbs.	43 Lbs.	53 Lbs.	45½ Lbs.
HEIGHT	34"	34"	34"	17¼"
DIAMETER	16"	16"	16"	24"
CORD SET	25-foot, 115 V, 3-Wire Grounded Type, Heavy Duty.			25-Foot, 115 V, 3-Wire Grounded Type, Heavy Duty. Use on 20 Amp or Higher Circuits.

## ROCKWELL ACCESSORIES

### DRY AND WET ACCESSORY KITS FOR 50-001, 50-002, 50-003 VACUUM CLEANERS

**No. 50-005 Dry Accessory Kit** consisting of 5" nozzle, 12" floor tool, 12" brush, 5" brush and 5' wand. 20 lbs.

**No. 50-006 Wet Accessory Kit** consisting of shut-off valve and squeegee. 5 lbs.

### HOSE



**No. 50-010 Accordion Hose.** Stretches from 6' to 16'. Has standard 1½" I.D. ends. Included as Standard Equipment.

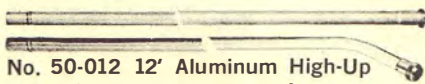
### WANDS, EXTENSIONS, CONNECTORS



**No. 15-090 Quick Change Coupler.** Connects hose to vacuum cleaner. Replacement for 50-001, 50-002, and 50-003 Vacs.



**No. 50-011 Hose Connector Tube, 1½" O.D..** to connect series of hoses.



**No. 50-012 12' Aluminum High-Up Extension**, in two parts with tool coupling.



**No. 50-013 Floor Cleaning Extension Wand With Tool Coupling**, double bend.



**No. 50-014 4' Straight Extension** with tool coupling. Tubular steel chrome plated.



**No. 50-015 Master Floor Tool.** Interchangeable slide-on floor care attachments (Nos. 50-017, 50-108 and 50-019) fit the Master Tool's die-cast housing.



**No. 50-017 Slide-On Squeegee Adapter.** Instant water pick-up. Precision balanced rubber squeegee blade permits 100% vacuum power concentration in direction of cleaning stroke, either direction.

**No. 50-018 Replacement Squeegee Blades** for 50-017 Adapter. Pack of three blades.



**No. 50-019 Slide-On Horsehair Brush Adapter.** For general vacuum sweeping.

### SPECIAL "BIG JOB" NOZZLES



**No. 50-050 "Big Job" Special 22" Wide Squeegee Floor Tool.**

**No. 50-051 Set of Replacement Blades** for 50-050 22" Squeegee Floor Tool.



**No. 50-052 22" Brush Floor Tool.**

**No. 50-053 22" Brush Floor Tool Set** of Replacement Brushes.



**No. 50-054 22" Carpet Floor Tool.**



**No. 50-055 Bumper** only for 50-052 and 50-054 Floor Tools.

# ROCKWELL WET/DRY VACUUM CLEANERS

## METAL DUSTING AND CREVICE TOOLS

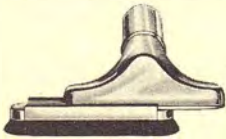


**No. 50-024 2" Round Dusting Brush** for woodwork ledges and mouldings.

**No. 50-025 Replacement Brush** for 50-024 Brush.

**No. 50-026 Replacement Body** for 50-024 Brush.

**No. 50-027 Aluminum Adapter** for 50-024 Brush but fits into wand coupling and/or hose.

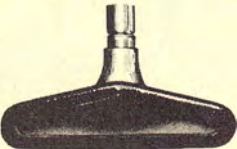


**No. 50-021 Upholstery Nozzle.** 5" handi-tool. For cleaning ledges, bins, etc., as well as for non-abrasive upholstery vacuuming.

**No. 50-022 Brush Adapter.** Slide-on fits 50-021 Upholstery Nozzle. Loosens deep-down dirt from fabrics.



**No. 50-023 18" Extension** for 50-021 handi-tool (upholstery tool extension).

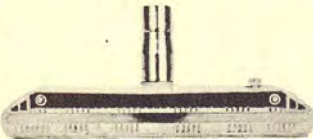


**No. 50-028 9" Ceiling, Wall and Overhead Brush.**

**No. 50-029 Brush Replacement** for 50-028 Brush.



**No. 50-030 19" Crevice and Blower Tool,** cut on 45° angle. steel. For 50-010 Accordion Hose.



**No. 50-031 Special 14" Metal Rug/Carpet Tool.** With floating brush. Hugs all carpet surfaces and draws out deeply embedded dirt.

**No. 50-032 Replacement Brush** for 50-031 Carpet Tool.

## FILTERS, ASSEMBLIES, WET PICK-UP ADAPTERS



**No. 50-007 Water Pick-Up Adapter.** Adapts vacuum cleaner for frequent and/or large area water or suds pick-up. Replaces air filter bag assembly with which cleaner is factory equipped.



**No. 50-008 Air Filter Assembly.** Consists of primary filter bag, frame and gasket assembly. Effectively traps dust; prevents leakage.



**No. 50-009 Never-Clog® Bag.** Secondary filter. Dacron®. Provides double filtration. Sheds dirt; protects primary filter. For use with 50-008 Air Filter Assembly.

## SPECIALTIES AND DEVICES



**No. 50-020 Blower Nozzle,** tapered, rubber.

## BANANA TOOLS FOR OVERHEAD PIPE CLEANING



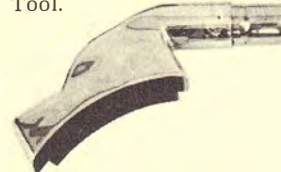
**No. 50-033 Overhead Pipe Tool** for 1"-3" pipes.

**No. 50-034 Brush Refill** for 50-033 Pipe Tool.



**No. 50-035 Overhead Pipe Tool** for 4"-6" pipes.

**No. 50-036 Brush Refill** for 50-035 Pipe Tool.



**No. 50-037 Overhead Pipe Tool** for over 6" pipes.

**No. 50-038 Brush Refill** for 50-037 Pipe Tool.



**No. 50-056 Drum Dolly.** Inside diameter, 24 $\frac{3}{8}$ ". Diameter of inside hole, 16 $\frac{1}{4}$ ". Handle height from floor, 35 $\frac{1}{4}$ ". Equipped with four jumbo, hard-rubber caster wheels. For use with 55-gallon drum.

## 2" TOOLS AND ACCESSORIES



**No. 50-070 10' Crushproof Hose,** 2" I.D., with moulded ends.



**No. 50-071 Hose Connector Tube.**



**No. 50-072 Crevice and Blower Tool,** steel.

**No. 50-073 19" x 2" Crevice Tool,** cut on 45° angle.



**No. 50-074 5' Anodized Wand** with metal tool coupling.



**No. 50-075 "Big Job" Special 22" Wide Squeegee Floor Tool.**

**No. 50-076 Set of Replacement Blades.**



**No. 50-077 22" Brush Floor Tool.**

**No. 50-078 Replacement Brushes.**



**No. 50-079 22" Felt Floor Tool.**

**No. 50-080 Set of Replacement Felts.**



**No. 50-081 22" Carpet Floor Tool.**

**No. 50-082 Set of Replacement Surfaces.**



**No. 50-083 Floor Gulper Nozzle.**

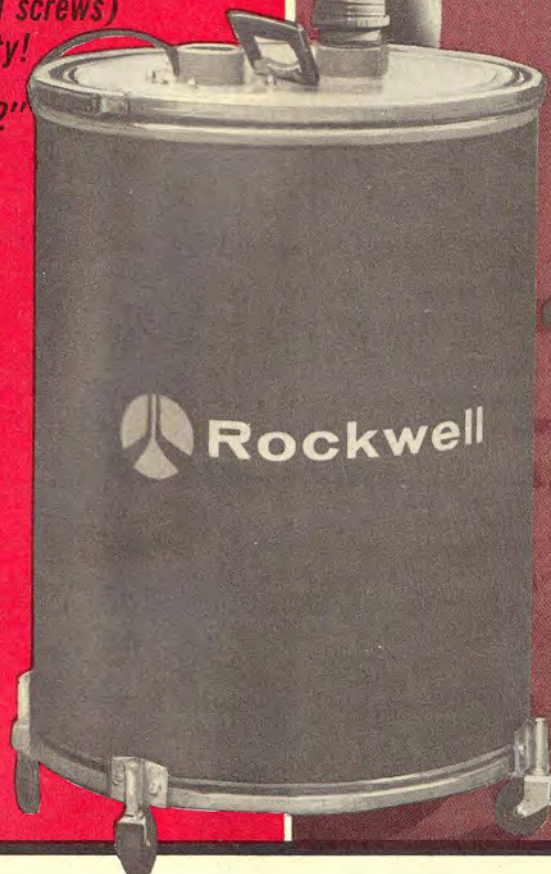


**No. 50-084 Hand Gulper Nozzle.**



# ROCKWELL All-Purpose **VACUUM CLEANER**

- **VERSATILE VACUUM CLEANER**  
*for hundreds of commercial,  
school shop and home applications!*
- **FEATURES A POWERFUL MOTOR—**  
*picks up almost anything  
(including nails and screws)  
with complete safety!*
- **EXTRA LARGE 2-1/2" DIAMETER HOSE**  
*handles large chips  
and bulky debris  
without clogging!*
- **COMPLETE LINE OF ACCESSORIES**  
*available to make  
this cleaner  
a real time  
and money saver!*



**DO ALL THESE JOBS  
WITH THE ROCKWELL  
VACUUM CLEANER**



For use with woodworking power tools to collect dust and chips at the source.



For general purpose shop cleaning, picking up saw dust, shavings, filings, and other shop debris.

## MACHINE DATA

### Motor:

6 Amps, 115 V, AC-DC, Develops 1 HP

### Hose:

2½" (63.5 mm) Diameter x 6' (18,288 mm) Long

### Drum Capacity:

28 Gallon (105.98 l.)

### Overall Dimensions:

25¾" (139.05 mm) High x 19" (482.6 mm) Diameter

### Weight:

24 lbs. (10.86 kg.)

### FOR DRY PICKUP ONLY



Certified  
in Canada.



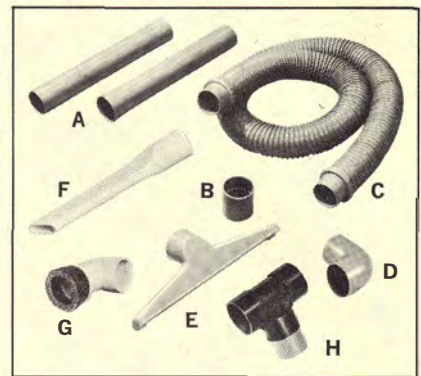
**Model 49-255**  
28-gallon capacity  
vacuum cleaner  
(casters extra).

The Rockwell Vacuum Cleaner is ideal for "big job" cleaning chores too bulky or messy for a standard cleaner to handle. Extra powerful, it will handle a wide variety of waste—sawdust, wood chips and shavings, paint and rust chippings, grit and filings—in quantities that would clog an ordinary type cleaner. You can't hurt the motor with anything you pick up because all debris is drawn directly into the collector drum, by-passing the motor. Easy roll casters (optional) increase the mobility of the Rockwell Cleaner.

## CATALOG LISTING

**No. 49-255 All-Purpose Vacuum Cleaner**, 28-gallon capacity, complete with 6 amp motor, switch and cord; filter bag, fiber collector drum; 2½" diameter x 6' hose and 3" x 6" rectangular nozzle. 24 lbs.

## ACCESSORY EQUIPMENT



### ACCESSORIES

- A. No. 49-226 Set of Extension Tubes** for floor cleaning, 2½" diameter x 40" overall. 2 lbs.
- B. No. 49-228 Hose Coupling.** For connecting two 6-foot lengths of 49-229 2½" diameter hose. ½ lb.
- C. No. 49-229 Hose**, 2½" dia. x 6'. Replacement for standard hose or for use as extension with No. 49-228 Coupling. 3 lbs.
- D. No. 49-230 Elbow**, 90°, 2½" dia. ½ lb.
- E. No. 49-231 Floor Brush**, 14" wide. 2 lbs.
- F. No. 49-247 Crevice Tool**, 2½" diameter. ½ lb.
- G. No. 49-250 Round Elbow Brush**, 2½" diameter. 1 lb.
- H. No. 49-225 "T" Connector.** For connecting two 49-229 Hoses to vacuum cleaner. 2 lbs.

### OTHER ACCESSORIES (Not Shown)

- No. 49-233 Flange**, 2½" diameter. For making your own attachments for your power tools. ½ lb.
- No. 49-243 Replaceable Filter Bags**, package of five. ½ lb.
- No. 49-245 Four-Wheel Caster Set** for 28-Gal. Vacuum Cleaner. 3 lbs.

### ATTACHMENT PARTS (Include Necessary Connection Fittings and Hoses)

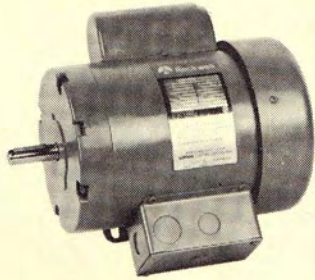
- No. 49-589 Attachment Parts** for 6" Abrasive Belt Finishing Machine and for Belt Unit of Combination Belt and Disc Finishing Machine. Includes 49-233 Flange for connecting to 2½" hose. 1½" lbs.
- No. 49-590 Attachment Parts** for No. 31-122 12" Abrasive Disc Finishing Machine on Open Stand 31-124. For connecting to 2½" hose. 5 lbs.
- No. 50-140 Attachment Parts** for Ready-to-Run 12" Abrasive Disc Finishing Machine and for Disc Unit of Combination Belt and Disc Finishing Machine. Includes cast iron funnel and flange for connecting to 2½" hose. 8¼ lbs.

For other accessories, see product pages.

# ROCKWELL MOTORS



Approved in Canada



## Designed Specifically for Rockwell Products

Dependable Rockwell Heavy Duty Motors are comparatively low in cost—but they are NOT built down to a price. Quality has been maintained throughout. They are the finest motors available at anywhere near their price. Dependable Rockwell Standard Duty Motors give you all the performance you require, on the products for which they are recommended, at the lowest possible cost! Check the specially engineered features on all Rockwell Motors.

**All Ball Bearings** are lubricated for life. Bearing designs permit Rockwell Motors to be mounted either vertically or horizontally.

**All Rockwell Motors** comply with or exceed the motor manufacturing power standards (breakdown torque) as established by the National Electrical Manufacturers Association (NEMA).

**Accurately Balanced Rotors** insure smoothness of operation and prevent destructive vibration.

**Well Designed Ventilating Systems** assure cool operating motors, thus providing adequate overload capacity and longer motor life.

## SPECIFICATIONS FOR ROCKWELL SINGLE PHASE MOTORS

(All motors supplied with cord sets are grounded and wired for 115V unless otherwise noted)

Catalog Number	H.P.	R.P.M.	Volts	Hertz	Shaft	Frame Size	Switch	Cord and Plug	Enclosure	Duty	Wt. Lbs.
§*52-493	1	3450	115	60	5/8" Single	NEMA 56	SPST	Yes	GD	Standard	32
60-054	1	1725	115/230	60	7/8" Single	NEMA 143T	None	None	TEFC	Heavy	55
60-055	2	1725	115/230	60	7/8" Single	NEMA 145T	None	None	TEFC	Heavy	75
†62-003	1	3450	115/230	60	5/8" Single	NEMA 56	None	None	TEFC	Heavy	46
62-010	1/2	1725	115/230	60	5/8" Single	No. 6	None	None	TEFC	Standard	25
62-011	3/4	1725	115/230	60	5/8" Single	No. 6	None	None	TEFC	Standard	30
62-012	1	1725	115/230	60	5/8" Single	No. 6	None	None	TEFC	Standard	47
62-020	3/4	3450	115/230	60	5/8" Single	No. 6	None	None	TEFC	Standard	30
§*62-042	1 1/2	3450	115/230	60	5/8" Single	NEMA 56	DPST	Yes	TEFC	Heavy	42
62-110	1/2	1725	115/230	60	1/2" Double	No. 6	DPST	Yes	GD	Heavy	24
62-129	1 1/2	3450	115/230	60	5/8" Single	NEMA 56	None	None	TEFC	Heavy	37
§*62-144	1/2	3450	115	60	5/8" Single	NEMA 56	SPST	Yes	GD	Standard	28
§*62-146	1	3450	115	60	5/8" Double	NEMA 56	SPST	Yes	GD	Standard	34
62-680	1/2	1725	115/230	60	5/8" Single	No. 6	DPST	Yes	GD	Heavy	24
**62-683	1/2	1140	115/230	60	5/8" Single	No. 6	DPST	Yes	GD	Heavy	39
†82-000	2	3450	115/230	60	7/8" Single	NEMA 145T	None	None	TEFC	Heavy	53
82-040	1 1/2	1725	115/230	60	5/8" Single	NEMA 145T	None	None	TEFC	Heavy	60
82-041	1	1725	115/230	60	7/8" Single	NEMA 143T	None	None	TEFC	Heavy	55
83-000	3	3450	115/230	60	1 1/8" Single	NEMA 184T	None	None	TEFC	Heavy	80
83-001	5	3450	230	60	1 1/8" Single	NEMA 184T	None	None	TEFC	Heavy	100
83-041	3	1725	115/230	60	1 1/8" Single	NEMA 184T	None	None	TEFC	Heavy	91
83-070	1	1140	115/230	60	7/8" Single	NEMA 182	None	None	TEFC	Heavy	95
83-560	1	1725	115/230	60	3/4" Double	No. 8 1/2	None	None	GD	Heavy	61
83-611	1 1/2	3450	115/230	60	3/4" Single	Special	None	None	TENV	Heavy	81
•83-621	1 1/2	3450	115/230	60	3/4" Single	Special	None	None	TEFC	Heavy	58
•83-631	2	3450	115/230	60	3/4" Single	Special	None	None	TEFC	Heavy	67
•83-651	3	3450	115/230	60	3/4" Single	Special	None	None	TEFC	Heavy	80

## SPECIFICATIONS FOR ROCKWELL 3 PHASE MOTORS

Catalog Number	H.P.	R.P.M.	Volts	Hertz	Shaft	Frame Size	Switch	Cord and Plug	Enclosure	Duty	Wt. Lbs.	iCat. No. 575V Version	iCat. No. 200V Version
60-056	2	1725	230/460	60	7/8" Single	NEMA 145T	Not Supplied	TEFC	Heavy	50	60-057	60-058	
66-019	1/2	1725	230/460	60	5/8" Single	No. 6	Not Supplied	TEFC	Standard	27	66-016	66-022	
66-020	3/4	3450	230/460	60	5/8" Single	No. 6	Not Supplied	TEFC	Standard	25	66-026	66-025	
66-029	3/4	1725	230/460	60	5/8" Single	No. 6	Not Supplied	TEFC	Standard	30	66-017	66-023	
66-039	1	1725	230/460	60	5/8" Single	No. 6	Not Supplied	TEFC	Standard	32	66-018	66-024	
66-041	1 1/2	3450	230/460	60	5/8" Single	NEMA 56	Not Supplied	TEFC	Heavy	44	66-045	66-044	
66-369	1/2	1725	230/460	60	5/8" Single	No. 6	Not Supplied	GD	Heavy	27	66-341	66-359	
66-379	1/2	1140	230/460	60	5/8" Single	No. 6	Not Supplied	GD	Heavy	31	66-347	66-383	
†86-000	2	3450	230/460	60	7/8" Single	NEMA 145T	Not Supplied	TEFC	Heavy	50	86-002	86-001	
86-040	1 1/2	1725	230/460	60	7/8" Single	NEMA 145T	Not Supplied	TEFC	Heavy	45	86-048	86-047	
86-044	1	1725	230/460	60	7/8" Single	NEMA 143T	Not Supplied	TEFC	Heavy	40	86-046	86-045	
86-070	1	1140	230/460	60	7/8" Single	NEMA 145T	Not Supplied	TEFC	Heavy	55	86-072	86-071	
86-909	1	1725	230/460	60	3/4" Double	No. 8 1/2	Not Supplied	GD	Heavy	44	86-930	86-935	
86-969	1	1140	230/460	60	3/4" Single	No. 8 1/2	Not Supplied	GD	Heavy	51	86-932	86-937	
87-000	3	3450	230/460	60	1 1/8" Single	NEMA 182T	Not Supplied	TEFC	Heavy	65	87-008	87-009	
87-001	5	3450	230/460	60	1 1/8" Single	NEMA 184T	Not Supplied	TEFC	Heavy	87	87-004	87-003	
87-002	7 1/2	3450	230/460	60	1 1/8" Single	NEMA 184T	Not Supplied	TEFC	Heavy	87	87-006	87-005	
87-040	3	1725	230/460	60	1 1/8" Single	NEMA 182T	Not Supplied	TEFC	Heavy	65	87-044	87-043	
87-041	5	1725	230/460	60	1 1/8" Single	NEMA 184T	Not Supplied	TEFC	Heavy	80	87-048	87-047	
87-042	3	1725	230/460	60	1 1/8" Single	NEMA 182T	Not Supplied	TEFC	Heavy	65	87-046	87-045	
87-149	1 1/2	1725	230/460	60	3/4" Double	No. 8 1/2	Not Supplied	GD	Heavy	50	87-130	87-135	
•87-359	3	3450	230/460	60	3/4" Single	Special	Not Supplied	TEFC	Heavy	67	87-352	87-353	

\*Supplied with integral, manual reset and thermal overload protection.

\*\*Capacitor start—capacitor run motor.

§Supplied with a remote, mounted toggle switch and 8' grounding cord set mounted and wired. All tools are provided with a switch locking plate and

mounting provisions.

†Supplied with integral reversing switch.

•Due to larger physical dimensions, motor will not fit UNISAW cabinets with oval-shaped opening on right side. Motor 83-611 fits both cabinets.

‡200 and 575V motors can be used on same ma-

chines as 230/460V motors. See Section P2, Pg1.

DPST—Double pole, single throw.

SPST—Single pole, single throw.

TENV—Totally enclosed, non-ventilated.

TEFC—Totally enclosed, fan cooled.

GD—Guarded drip-proof.

## Machines On Which ROCKWELL Motors May Be Used

Motor Cat. No.	Band Saw 9" x 16"; Finishing Machine; 12" Abrasive Disc	Band Saw, 20"	Band Saw, 14"	Circular Saw, 12" - 14"; Planer, 18" x 6" - 14";	Circular Saw, 10" Unisaw	Circular Saw, 10" Bench; Jointer, 8"	Circular Saw, 10" Contractors	Circular Saw, 9" Builders	Cut-Off Machine	Drill Press, 20", Hor. Mill	Drill Press, 17"	Drill Press, 15"	Fin. Mach., 6" Ab. Belt; Metal Lathe, 10"; Wood Lathe, 12"; Hvy Dy	Jointer, 6" Deluxe; Wood Lathe, 12" Std Dy	Jointer, 4" Deluxe; Sander/Grinder, 1"	Planer, 13" x 6"	Planer, Uniplane	Scroll Saw, 24"	Shaper, Hvy Dy	Shaper, Lt Dy	Saw-Jointer Comb., 5" Saw-4" Jtr.	Metal Lathe, 11"	Metal Lathe, 14"
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### SINGLE PHASE MOTORS

52-493							X																
60-054	X																						
60-055	X																						
62-003																			X	X			
62-010			X							X				X									
62-011													X										
62-012													X										
62-020																X							
62-042						X																	
62-110																	X						
62-129					X																		
62-144														X									
62-146																						X	
62-680										X													
62-683																			X				
82-000																							
82-040								X															
82-041	X								X													X	
83-000								X															
83-001				X																			
83-041																							
83-070															X								X
83-560	.	.			.				.	.													
83-611				.																			
83-621				X																			
83-631				X																			
83-651				X																			

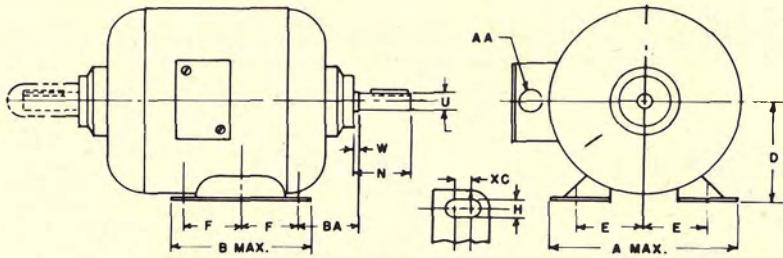
### THREE PHASE MOTORS

60-056	X																						
66-019		X																					
66-020			X																				
66-029										X													
66-039												X											
66-041					X																		
66-369										X													
66-379											X												
86-000																							
86-040											X												.
86-044	X																						
86-070																							
86-909	.	.			.	None	None				.	.			None						None	None	
86-969											.	.											
87-000										X													
87-001				X						X													
87-002				X																			
87-040																							
87-041															X								
87-042														X									X
87-149	.										.	.											.
87-359				X																			.

• Used on Old Style: No. 28-350 20" Wood Cutting and No. 28-364 20" Metal Cutting Band Saws; No. 22-101 13" x 5" Planer; No. 31-426 (old 1426) 12" Abrasive Disc Finishing Machine; 11" and 14" Metal Lathes; Horizontal Mill; 17" and 20" Drill Presses; 8" Jointers; Old and New Style UNISAWS.

# ROCKWELL MOTORS AND CONTROLS

## DIMENSIONAL DATA ON ROCKWELL MOTORS



\*Some Rockwell motors are supplied with a junction box in one of the motor end bells instead of on the side of the motor frame. Motors with end bell junction boxes do not have knockouts, only 2 slots which allow passage of motor cables, and holes which allow mounting of control switch or cable clamp.

†Supplied with key.

Motor Frame	A Max	AA Min	B Max	BA	D	E	F	H	N-W	U	XC
Delta No. 6	6 <sup>5</sup> / <sub>16</sub>	1/2*	4 <sup>3</sup> / <sub>4</sub>	2	3 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>	1 <sup>15</sup> / <sub>16</sub>	3/8	1 <sup>7</sup> / <sub>8</sub>	5/8†	1 <sup>7</sup> / <sub>32</sub>
Delta No. 8 <sup>1</sup> / <sub>2</sub>	8 <sup>3</sup> / <sub>8</sub>	1/2	5	3 <sup>17</sup> / <sub>32</sub>	4 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>8</sub>	7/16	2 <sup>1</sup> / <sub>4</sub>	3/4†	3/8
NEMA 56	—	5/8*	—	2 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	2 <sup>7</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>32</sub>	1 <sup>7</sup> / <sub>8</sub>	5/8†	1 <sup>1</sup> / <sub>32</sub>
NEMA 143T	7	3/4	6	2 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>4</sub>	2	1 <sup>1</sup> / <sub>32</sub>	2 <sup>1</sup> / <sub>4</sub>	7/8†	—
NEMA 145T	7	3/4	6	2 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>32</sub>	2 <sup>1</sup> / <sub>4</sub>	7/8†	—
NEMA 182	9	3/4	6 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>32</sub>	2 <sup>1</sup> / <sub>4</sub>	7/8†	—
NEMA 182T	9	3/4	6 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>32</sub>	2 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub> †	—
NEMA 184T	9	3/4	7 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>32</sub>	2 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub> †	—

### Machines On Which ROCKWELL Controls And Wiring Kits May Be Used

Control Cat. No.	34-891	34-893	49-000	49-312	49-313	49-330	49-331	49-357	49-417	49-513	49-514	49-517	49-530	49-633	49-638	49-670	49-671	49-672	49-846	49-847	49-848	49-849	51-115	51-330	51-331	51-333	51-334	52-346	52-347	52-348		
Band Saw, 9" x 16"								X	X	X	X	X										X										
Band Saw, 7V								X	X	X	X	X																				
Band Saw, 20"		X								X	X	X				X	X	X										X	X	X		
Band Saw, 14"		X								X	X	X				X	X	X										X	X	X		
Cir. Saw, 12"-14"		X								X	X	X																				
Cir. Saw, 10" Unisaw		X								X	X	X				X	X	X		X								X	X	X		
Cir. Saw, 10" Bench	X	X								X	X	X				X	X	X	X									X	X	X		
Cir. Saw, 10" Contractor's										X	X	X																X	X	X		
Cir. Saw, 9" Builder's								X	X	X	X																	X	X	X		
Coolant Pump			X	X				X	X	X	X	X											X									
Cut-Off Machine, 12"		X								X	X	X																				X
Drill Press, 20"		X								X	X	X				X	X	X					X					X	X	X		
Drill Press, 17"		X								X	X	X	X			X	X	X					X					X	X	X		
Drill Press, 15"		X								X	X	X	X			X	X	X		X			X					X	X	X		
Drill Press, 14" Super-Hi								X	X	X	X	X										X		X				X	X	X		
Drill Press, Ram Radial								X	X	X	X	X		X		X	X	X				X						X	X	X		
Fin. Mach., 6" Abr. Belt		X				X	X	X	X	X	X	X				X	X	X	X				X			X		X	X	X		
Fin. Mach., 12" Disc		X								X	X	X				X	X	X					X					X	X	X		
Fin. Mach., 6" Belt & 12" Disc		X								X	X	X				X	X	X					X					X	X	X		
Grinder, Sdr/Gdr 1"								X	X	X	X							X				X	X									X
Grinder, Toolmaker								X	X	X	X	X																				X
Grinder, 10"					X			X	X	X	X	X																				X
Grinder, 10" Gdr/Fshr					X			X	X	X	X	X																				X
Grinder, Twin-Belt Fshr					X			X	X	X	X	X																				X
Grinder, 7"					X			X	X	X	X	X																				X
Grinder, 7" Gdr/Fshr					X			X	X	X	X	X																				X
Grinder, 6" Tool					X			X	X	X	X	X																				X
Grinder, Lg. Shaft Buffer					X			X	X	X	X	X																				X
Jointer, 8"		X						X	X	X	X	X											X									X
Jointer, 6" Deluxe		X						X	X	X	X	X											X									X
Jointer, 4" Deluxe						X	X	X	X	X	X	X												X								X
Planer, 18" x 6"											X	X																				X
Planer, 13" x 6"											X	X																				X
Planer, Uniplane		X				X	X	X	X	X	X	X																				X
Radial Saw, 18"		X									X	X																				X
Radial Saw, 16" & 14"		X									X	X																				X
Saw-Jointer Comb.						X	X	X	X	X	X	X												X								X
Scroll Saw, 24"								X	X	X	X	X											X									X
Wood Lathe, 12" Hvy. Dy.		X						X	X	X	X	X											X									X
Wood Lathe, 12" Std. Dy.		X						X	X	X	X	X											X									X
Wood Shaper, Hvy. Dy.								X	X	X	X	X											X									X
Wood Shaper, Lt. Dy.								X	X	X	X	X																				X
Wood Shaper, Overarm								X	X																							

# ROCKWELL CONTROLS AND WIRING KITS

For application of controls and wiring kits, refer to controls and wiring kits listed on product pages.

- Write to factory for information on available motor controls and wiring kits not listed. Such items, when ordered special, are not subject to cancellation.

## MANUAL SINGLE PHASE CONTROLS AND WIRING

Catalog Number	Product Usage	Description	Maximum HP Rating of Switches				Weight Lbs.
			115V AC	230V AC	115V DC	230V DC	
<b>MANUAL CONTROL SWITCH WITH WIRING</b>							
49-312	Coolant Pump	On-Off Toggle Switch, 2-Pole with 8', #16-3 Wire Cable, SJ/3 Prong 115 V Grounding Plug, Mounting and Connecting Hardware.	1½	1½	1½	1½	2
49-313	Coolant Pump	On-Off Toggle Switch, 2-Pole with 8', #16-3 Wire Cable, SJ/3 Prong 230 V Grounding Plug, Mounting and Connecting Hardware.	1½	1½	1½	1½	1
34-891	10" Tilting Arbor Bench Saw	Start-Stop Push Button Switch, 2-Pole, 5-Wire Cable Assembly, 115-Volt Cord Set, Mounting and Connecting Hardware.	1	1½	1	1½	3

### MANUAL CONTROL SWITCH

Catalog Number	Product Usage	Description	Maximum HP Rating of Switches				Weight Lbs.
			115V AC	230V AC	115V DC	230V DC	
51-115 (old 1115)	General See Description	On-Off Toggle Switch, 2-Pole, Three Hole Flush Mounting with Hole in Toggle. For Replacement Use on No. 62-110, 62-680, 62-683, 82-710, 82-910, 82-912, 83-112 and 83-510 Motors. For Use with No. 49-385 Kit.	1½	1½	1½	1½	1
49-330	10" Grinder	On-Off Toggle Switch, 2-Pole, Single Hole Mounting with Solid Toggle. For Replacement Use.	1½	1½	1½	1½	2
49-331	General See Description	On-Off Toggle Switch, Single Pole, Single Hole Mounting with Hole in Toggle. For Replacement Use on No. 60-020, 60-220, 62-253, 62-273, 62-653 and 62-413 Motors and 49-311 Switch Kit.	1	1	—	—	1
49-670	General	Start-Stop Push Button Switch, 2-Pole. Recommended for Replacement Use.	1	1½	1	1½	2
52-346	General	Start-Stop Push Button Switch, 2-Pole. Includes Box, Cover, Gasket and Mounting Hardware. Recommended for Use on Open Steel Stands and for Replacement Use.	2	2	—	—	2



51-115



52-346

Catalog Number	Product Usage	Description	Amp Rating		Weight Lbs.
			115V AC	230V AC	
<b>WIRING</b>					
49-357	General	Consists of 8', #16-3 Wire Cable, SJ/3 Prong 115 V Grounding Plug.	13	—	3
49-513	General	Consists of 8', #14-3 Wire Cable, S/3 Prong 115 V Grounding Plug.	15	—	3
49-417	General	Consists of 8', #16-3 Wire Cable, SJ/3 Prong 230 V Grounding Plug.	—	13	2
49-514	General	Consists of 8', #14-3 Wire Cable, S/3 Prong 230 V Grounding Plug.	—	15	3



49-357

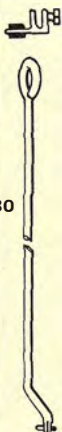
Catalog Number	Product Usage	Description	Amp Rating		Weight Lbs.
			115V AC	230V AC	

### MANUAL CONTROL SWITCH RODS

Provide Very Low-Cost, Finger-Tip Control of Single Phase Motors Which Have Built-In Toggle Switches. Made of 7/32" Steel Rod with a Loop Handle at One End and Cotter Pin Hole at Opposite End.

51-330 (old 1330)	General See Description	Switch Rod, 17¾" Long. Includes Cotter Pin, Screw Eye for Wood and Bracket for Mounting on Steel Stand. For Use on Sander/Grinder with No. 50-106 Open Steel Stand.	—	—	2
51-331 (old 1331)	General See Description	Switch Rod, 15½" Long. Includes Cotter Pin and Bent Wire Guide with Grommet. For Use on "6 Plus 6", "VS6" and 15" Utility Drill Presses, UNIDRILL and Super-Hi 14" Drill Press.	—	—	1
51-333 (old 1333)	General See Description	Switch Rod, 17¼" Long. Includes Cotter Pin and Bracket with Grommet for Mounting on Steel Stand. For Use on 6" Deluxe Jointer on No. 50-656 Open Steel Stand and 4" Precision Jointer on No. 50-304 Open Steel Stand.	—	—	2
51-334 (old 1334)	General See Description	Switch Rod, 18¾" Long. Includes Cotter Pin, Screw Eye for Wood and Bracket for Mounting on Steel Stands. For Use on 6" Abrasive Belt Finishing Machine on No. 50-406 Open Steel Stand, and 14" Metal Cutting and Wood Cutting Band Saws on No. 50-891 Open Steel Stand.	—	—	2

51-330



## MANUAL THREE PHASE CONTROLS AND WIRING

Catalog Number	Product Usage	Description	Maximum HP Rating of Switches		Weight Lbs.
			200-230V AC	460-575V AC	
<b>MANUAL CONTROL SWITCH AND WIRING</b>					
34-893	10" Tilting Arbor Bench Saw	Start and Stop Push Button Switch, 3-Pole, 4-Wire Cable, Mounting and Connecting Hardware.	3	3	4

# ROCKWELL CONTROLS AND WIRING KITS

## MANUAL THREE PHASE CONTROLS AND WIRING —Continued

Catalog Number	Product Usage	Description	Maximum HP Rating of Switches		Weight Lbs.
			200-230V AC	460-575V AC	
<b>MANUAL CONTROL SWITCH</b>					
49-671	General	Start and Stop Push Button Switch, 3-Pole. Recommended for Replacement Use.	2	2	2
52-347	General	Start and Stop Push Button Switch, 3-Pole. Includes Box, Cover, Gasket and Mounting Hardware. Recommended for Use on Open Steel Stands and for Replacement Use.	2	2	2



52-347

## MAGNETIC SINGLE AND THREE PHASE CONTROLS AND WIRING

Catalog Number	Product Usage	Description	Voltage Rating	Weight Lbs.	
					<b>MAGNETIC CONTROL SWITCH</b>
49-672	General	Start and Stop Push Button Magnetic Starter Control Switch. Recommended for Remote Control of Magnetic Starters and for Replacement Use.	600 Volts Max.	2	
52-348	General	Start and Stop Push Button Magnetic Starter Control Switch. Includes Box, Cover, Gasket and Mounting Hardware. Recommended for Remote Control of Magnetic Starters and for Replacement Use.	600 Volts Max.	2	
Catalog Number	Product Usage	Description	Maximum HP Rating of Switches		Weight Lbs.
			1 Phase		
			115V AC	230V AC	



52-348

### CONTROL TRANSFORMERS

These Transformers Provide 115 Volt Control When Used with Magnetic Starters. They have a Secondary Voltage of 115 Volts; are Rated 50 VA, 60 Cy. They are Supplied with Integral Pipe Nipple for Mounting in Starter Box Knockout.

49-517	General	Control Transformer.	575	2
49-530	General	Control Transformer.	200-230-460	2

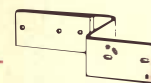


49-530

Catalog Number	Product Usage	Description
<b>"JIC" TYPE THREE PHASE CONTROL KIT</b>		
49-000	See Product Page	Consists of Allen-Bradley combination non-reversing, size 1 starter with 60 amp fused disconnect and control transformer in a NEMA type 12 enclosure. Unit is mounted and wired with oil tight conduit and fittings to an oil tight, surface mounted Allen-Bradley start-stop control station and totally enclosed motor. This kit must be ordered in addition to a three phase push button control and magnetic starter (with 115 V transformer) ordered with the machine.

## MOUNTING BRACKETS AND COVER FOR CONTROLS

Catalog Number	Product Usage	Description
49-633	See Description	Mounting Bracket for Controls Listed on All 15" or 17" Drill Presses Except on 15" Multiple Spindle Drill Presses where the Center to Center Distance Between Columns is Less Than 13 inches. Used to Mount No. 49-026, 49-027, 49-028 or 49-029 Manual Starter; No. 49-664, 49-665, 49-674 or 49-698 Magnetic Starter or No. 49-669 Overload Switch.
49-638	Ram Type Radial Drill Press	Mounting Bracket for No. 49-664, 49-665, 49-674 or 49-698 Magnetic Starter or No. 49-669 Overload Switch.
49-846	Open Steel Stands	Mounting Bracket for No. 49-026, 49-027, 49-028 or 49-029 Manual Starter; No. 49-664, 49-665, 49-666, 49-674, 49-698, 49-699 or 49-844 Magnetic Starter; No. 49-669 Overload Switch; No. 49-670 or 49-671 Push Button Control Switch.
49-847	See Description	Mounting Bracket for Controls Listed on 15", 8-Spindle Drill Presses, or any 15" Multiple Spindle Drill Press Where the Center to Center Distance Between Columns is Less than 13". Used to Mount No. 49-664, 49-665, 49-674 or 49-698 Magnetic Starter or No. 49-669 Overload Switch.
49-848	10" Unisaw	Mounting Bracket for No. 49-026, 49-027, 49-028 or 49-029 Manual Starter; No. 49-664, 49-665, 49-666, 49-674, 49-698, 49-699 or 49-844 Magnetic Starter, or No. 49-669 Overload Switch.
49-849	Heavy Duty Wood Shaper	Mounting Bracket for No. 49-026, 49-027, 49-028 or 49-029 Manual Starter; No. 49-664, 49-665, 49-666, 49-674, 49-698, 49-699 or 49-844 Magnetic Starter, or No. 49-669 Overload Switch.



49-847



49-848

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Rockwell Industrial Machines are manufactured and sold under the following patents either owned by Delta or under which Delta is licensed. Other U. S. and foreign patents are pending:

D-185,061; D-185,922; D-195,735; D-184,835; D-180,929;  
D-195,735; 2,567,982; 2,585,025; 2,604,126; 2,630,845;  
2,695,637; 2,754,898; 2,758,617; 2,773,395; 2,773,524;  
2,792,036; 2,804,107; 2,827,088; 2,830,628; 2,842,171;  
2,861,536; 2,866,348; 2,873,776; 2,876,669; 2,885,897;  
2,887,924; 2,888,707; 2,944,376; 2,947,197; 2,955,007;  
2,956,595; 2,970,495; 2,995,961; 3,021,879; 3,055,236;  
3,064,487; 3,067,788; 3,068,723; 3,095,673; 3,106,116;  
3,109,319; 3,118,325; 3,128,661; 3,146,628; 3,156,127;  
3,177,977; 3,206,860. Canada: 790,451; 544,356; 585,901;  
460,144; 619,716; 644,675. Argentina: 93,534. Australia:  
163,736. Belgium: 524,127; 545,635. France: 1,090,823;  
1,148,823. Great Britain: 749,613; 789,045; 692,317;  
723,519; 705,405. Germany: 1,806,970. Holland: 89,901.  
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