

DELTA[®]




ROCKWELL

Industrial

POWER TOOLS



Sold by

 HAVEN HARDWARE CO.
 30 ST. JOHN STREET
 SCHUYLKILL HAVEN, PA.

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DELTA

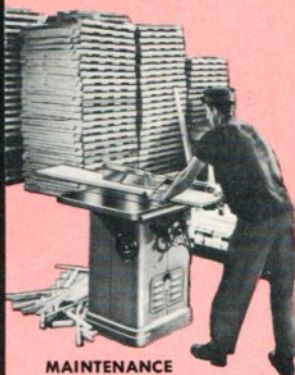
power tools
are used
everywhere

In Industry-Building Trades-
Schools-Custom Shops-
Home Workshops

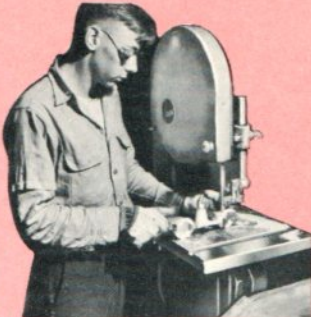


PRODUCTION SHOP

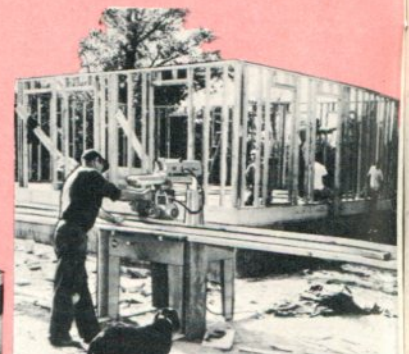
Whatever your particular operation may be—cutting . . . drilling . . . grinding . . . finishing—Delta produces a power tool suited to meet your most exacting need. Shown are just a few of the hundreds of such applications to which users put the world's most complete power tool line of 61 machines . . . 302 models . . . over 1400 accessories.



MAINTENANCE DEPARTMENT



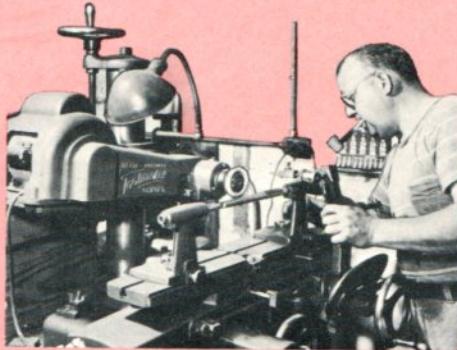
DIE CASTING PLANT



BUILDER



PATTERN SHOP



TOOL MAINTENANCE DEPARTMENT



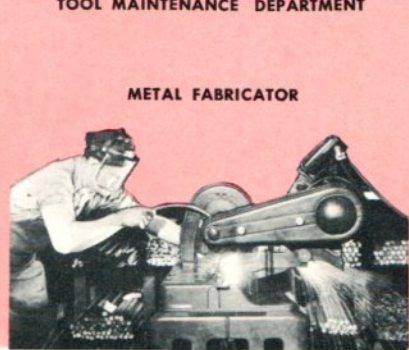
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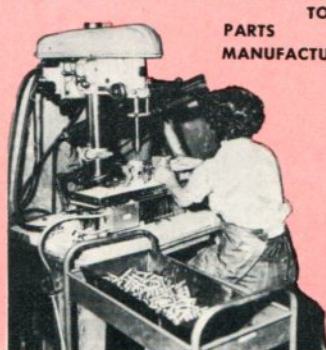
MILL WORK SHOP



SCHOOL SHOP



METAL FABRICATOR



PARTS MANUFACTURER



WOOD SPECIALTY SHOP



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28-890	74	33-206	66	33-641	63	34-723	57	35-202	61	37-826	47	46-850	89
28-891	74	33-212	60	33-642	63	34-724	57	35-204	61	40-205	78	46-905	89
28-892	74	33-223	60	33-646	63	34-725	57	35-206	61	40-211	78	46-916	89
28-894	74	33-224	60	33-648	63	34-726	57	35-208	61	40-213	78	46-934	89
28-896	74	33-227	60	33-700	63	34-727	57	35-209	61	40-305	78	46-948	88
31-105	41	33-228	30	33-701	63	34-728	57	35-211	61	40-311	78	46-950	89
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46-963	89	49-304	91	49-535	35	62-110	92	D-2	17	D-132	81	D-205S	81
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49-101	90	49-313	94	49-541	35	62-413	92	D-10	17	D-135	81	D-207	81
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49-103	90	49-317	95	49-566	60	62-653	92	D-12	17	D-137	81	D-208S	81
49-105	90	49-318	95	49-567	60	62-680	92	D-13	17	D-138	81	D-209	81
49-108	90	49-320	91	49-576	91	66-120	93	D-20	17	D-139	81	D-210	81
49-109	7	49-322	91	49-580	91	66-320	93	D-21	17	D-140	81	D-211	81
49-111	90	49-323	91	49-581	91	66-340	93	D-30	17	D-141	81	D-212	81
49-115	90	49-324	91	49-582	91	82-710	92	D-31	17	D-142	81	D-213	81
49-124	90	49-325	95	49-583	91	82-910	92	D-40	17	D-143	81	D-214	81
49-130	90	49-331	95	49-584	91	83-112	92	D-41	17	D-144	81	D-215	81
49-132	90	49-333	91	49-586	91	83-311	92	D-50	17	D-145	81	D-217	81
49-135	90	49-334	91	49-587	91	83-411	92	D-51	17	D-146	81	D-218	81
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49-141	90	49-358	90	49-589	91	83-560	92	D-61	17	D-148	81	D-228	81
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49-149	90	49-364	51	49-595	91	86-720	93	D-71	17	D-171	81	D-238	81
49-150	90	49-365	95	49-596	91	86-920	93	D-80	17	D-172	81	D-247	81
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49-157	90	49-379	90	49-618	18	87-210	93	D-105	81	D-178	81	D-253	81
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49-164	74	49-394	95	50-320	59	93-610	92	D-109	81	D-191	81	D-257	81
49-167	90	49-396	95	50-353	90	96-320	93	D-110	81	D-192	81	D-258	81
49-168	90	49-397	95	50-370	45	96-620	93	D-120	81	D-193	81	D-259	81
49-170	90	49-399	95	50-399	8	96-670	93	D-121	81	D-195	81		
49-172	90	49-500	95	50-400	8	96-720	93	D-123	81	D-196	81		
49-173	90	49-503	41	50-401	15	96-770	93	D-124	81	D-197	81		
49-177	90	49-520	35	50-432	41	97-320	93	D-125	81	D-198	81		
49-178	90	49-521	35	50-435	43	97-420	93	D-126	81	D-199	81		
49-179	90	49-529	35	50-506	8	98-111	92	D-127	81	D-201	81		
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49-196	90	49-532	35	50-716	78	98-321	93	D-129	81	D-203	81		

ROCKWELL-BUILT DELTA POWER TOOLS

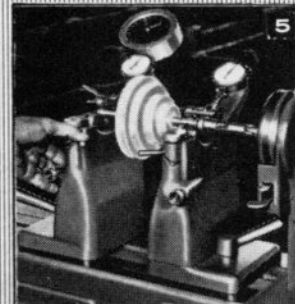
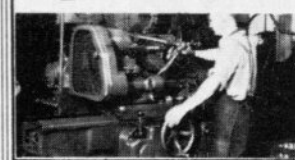
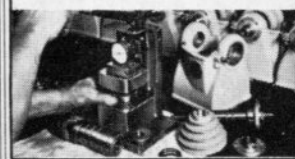
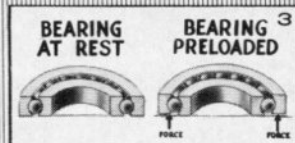
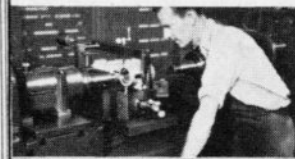
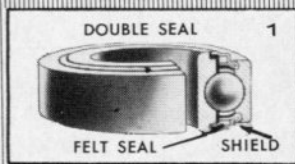
are known for their Famous Quality Features....

PROOF BASED ON PERFORMANCE

In factories — in school workshops — on the job with builders and in the best home workshops, users report that Rockwell-Built Delta Power Tools satisfy their most rigid requirements for accuracy, economy, versatility and complete year-in and year-out dependability. Install them in your operation and let them establish performance records for you.

NO OTHER POWER TOOLS OFFER SO MUCH

It's the famous Delta Quality built into each Delta Power Tool that makes the difference. Hidden features, such as lubricated-for-life ball bearings, precision bored bearing seats, precision ground spindles, and dynamically balanced pulleys, guarantee that when you buy Delta — you buy the best!



HERE ARE FIVE BIG REASONS *for* Delta Power Tool Superiority

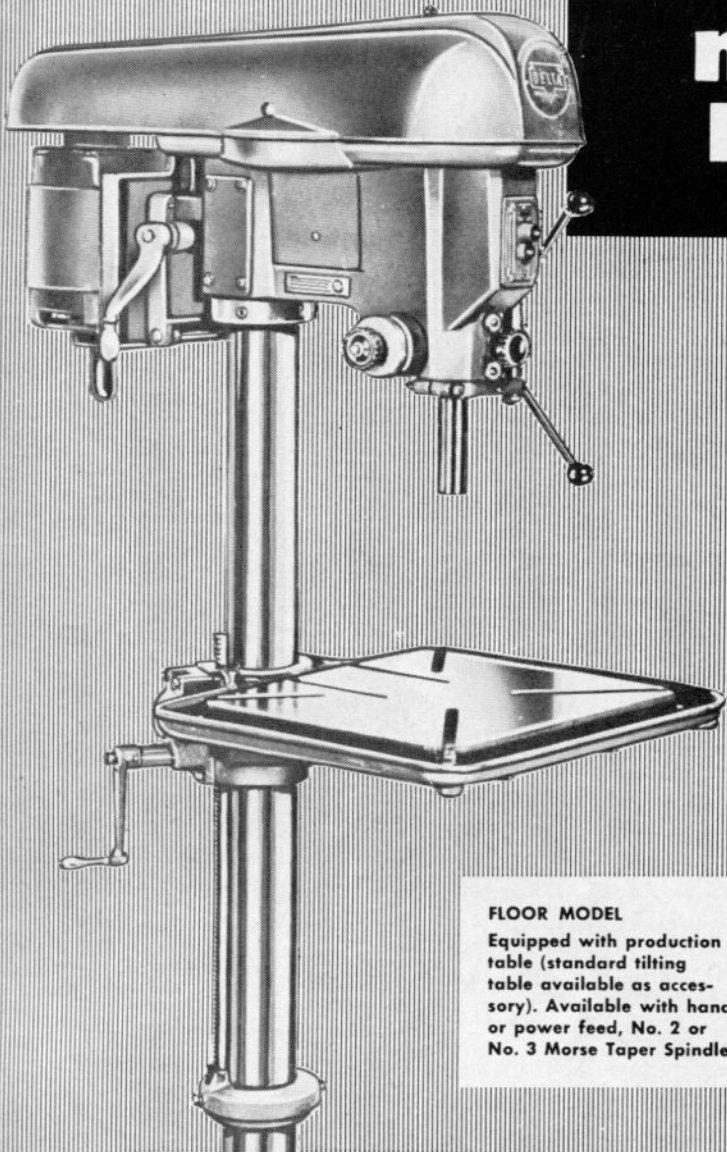
- 1 LUBRICATED-FOR-LIFE BALL BEARINGS** — The bearings in Delta Power Tools are lubricated-for-life and completely sealed to keep out harmful dust, dirt and grit. This greatly reduces maintenance costs and assures you of long, trouble-free service for your power tool.
- 2 PRECISION BORED BEARING SEATS** — Delta bearing seats are precision or "Diamond" bored. Result: the seat is absolutely smooth. The bearing fits closely, is tightly held and cannot loosen. With the seat perfectly round, true to size and in correct position, you get accurate, smooth and dependable bearing operation.
- 3 PRELOADED BEARINGS** — The preloading of bearings in Delta Power Tools (see sketch at left) removes inherent "end play." By so doing, the original accuracy of the machine is maintained over a longer period even when your usage puts excessive strain on bearing surfaces.
- 4 PRECISION GROUND SPINDLES, ARBORS AND COLLARS** — Delta precision grinds spindles, arbors and collars with an accurately controlled grinding wheel. Thus exact sizes of parts are maintained and extremely close tolerances are held between the arbor and inner bearing race — your assurance of full, even contact between arbor and bearing at all times.
- 5 DYNAMICALLY BALANCED PULLEYS** — A high-speed pulley not in perfect balance causes vibration which places a tremendous strain on the bearings. For this reason Delta high-speed pulleys are dynamically balanced on a sensitive balancing machine. A small amount of metal is removed where any unbalanced weight is indicated. This helps insure smooth, accurate performance of your Delta Power Tool.

DELTA POWER TOOL DIVISION

ROCKWELL MANUFACTURING CO. 400 N. LEXINGTON AVE.
PITTSBURGH 8, PA.

new DELTA 20" DRILL PRESSES

single and multiple spindle



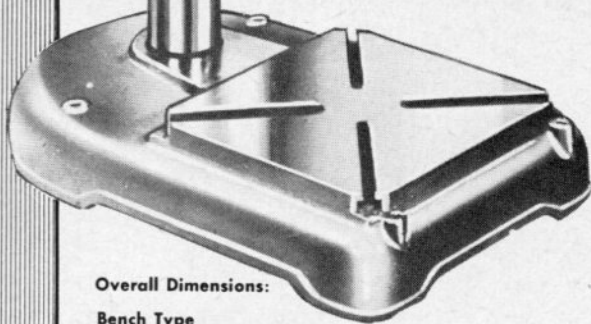
FLOOR MODEL
Equipped with production table (standard tilting table available as accessory). Available with hand or power feed, No. 2 or No. 3 Morse Taper Spindle.

This new Delta 20" Drill Press gives you machine tool capacity and ruggedness combined with power tool adaptability and versatility. It's designed to fill the need for flexible production tooling that can supplement, or often replace, heavier fixed machines costing four and five times as much.

Furthermore, the new Delta 20" Drill Press, especially when equipped with the *all-new Rockwell Power Feed*, is more suitable than a machine tool in many instances because it offers the user these important advantages: low original investment . . . low maintenance cost . . . flexibility—can easily be converted into a special-purpose machine . . . versatility—can do almost every type of operation performed by a special-purpose machine . . . portability—light in weight for quick placement in the production line to speed up production or relieve the load on heavier, more costly machines . . . immediate delivery—no lengthy lead time required for tooling.

In addition, Delta offers you components such as heads, columns and production tables for making up your own special-purpose machines.

specifications



Overall Dimensions:

Bench Type	
Height	54"
Width	23"
Front to Rear	40"
Floor Type	
Height	74"
Width	22"
Front to Rear	37"
Table Working Surface	
Production (supplied with single spindle floor models)	15 x 18"
Tilting Table (supplied with single spindle floor models)	16 x 18"
Base Working Surface	
Bench Model	18 x 24"
Floor Model	13½ x 14¾"

Quill

Stroke (Manual Feed)	0 to 6"
Stroke (Power Feed)	½ to 6"
Diameter	2¾"

Capacities

Dia. Hole in Cast Iron	1"
Dia. Hole in Steel	¾"

Spindle Speeds

With Std. Spindle Pulley—All Models

W/1725 rpm motor	500, 800, 1200, 1800, 2600 rpm
W/1140 rpm motor	330, 520, 800, 1200, 1700 rpm

With Geared Spindle Pulley—Hand Feed Models

W/1725 rpm motor	165, 265, 400, 500, 600, 800, 865, 1200, 1800, 2600 rpm
W/1140 rpm motor	110, 175, 265, 330, 395, 530, 575, 790, 1200, 1700 rpm

*With Geared Spindle Pulley—Power Feed Models

W/1725 rpm motor	165, 265, 400, 500, 600, 800, 1200, 1800 rpm
W/1140 rpm motor	110, 175, 265, 330, 395, 530, 790, 1200 rpm

Spindle Feeds

Power Feed Models	.004, .006, .009, .012 ipr
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Feed Pressure

Infinitely variable from 0 to maximum required

Column diameter

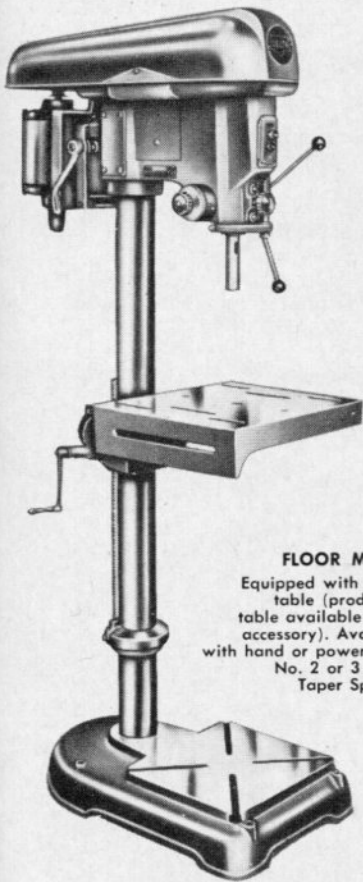
	3¾"
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Motor

Accommodates NEMA Frame Motors	182 and 184
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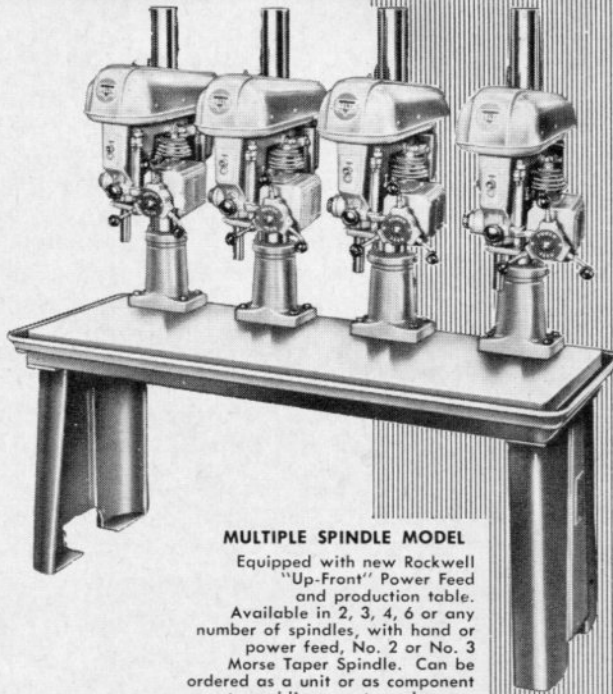
*Eight additional speeds may be obtained by using longer V-Belt No. 49-109 (order separately). Range with 1725 rpm motor is 240 to 2100 rpm, and with 1140 rpm motor, 160 to 1390 rpm.

56 Models: A Drill Press for Every Production Tooling Job...



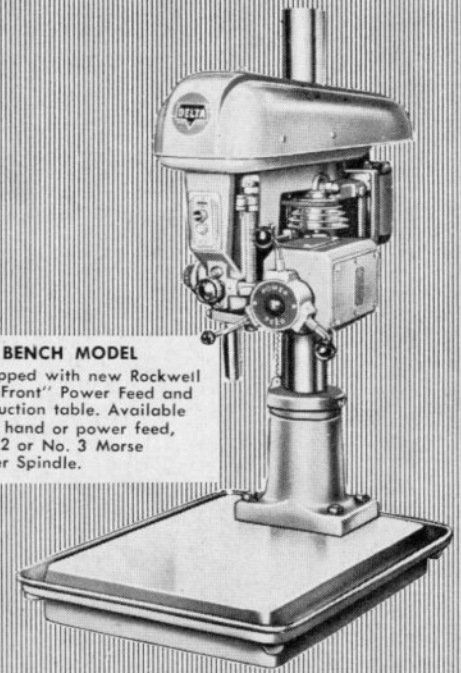
FLOOR MODEL

Equipped with tilting table (production table available as an accessory). Available with hand or power feed, No. 2 or 3 Morse Taper Spindle.



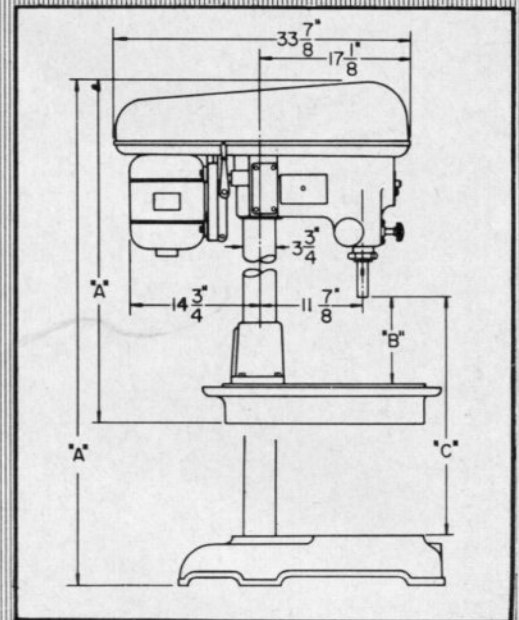
MULTIPLE SPINDLE MODEL

Equipped with new Rockwell "Up-Front" Power Feed and production table. Available in 2, 3, 4, 6 or any number of spindles, with hand or power feed, No. 2 or No. 3 Morse Taper Spindle. Can be ordered as a unit or as component parts enabling you to make your own set-up with drill presses "a block long" if you so desire.



BENCH MODEL

Equipped with new Rockwell "Up-Front" Power Feed and production table. Available with hand or power feed, No. 2 or No. 3 Morse Taper Spindle.

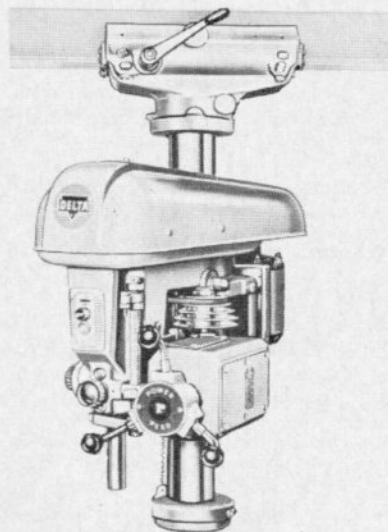


20" Drill Press Dimensional Data

20" Drill Press	#2 Morse Taper Models			#3 Morse Taper Models		
	"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.)
Bench Type W/Production Table	54"	26 1/2"	—	54"	26"	—
Floor Type W/Production Table	74"	36 1/4"	45 1/4"	74"	35 3/4"	44 3/4"
Floor Type W/Tilt Table	74"	35 3/8"	45 1/4"	74"	34 3/8"	44 3/4"

OVERHEAD DRILL PRESS

You can make up your own overhead drill press by ordering the No. 20-623 Ball Bearing Carriage with 33" Column, plus the No. 20-661 Raising Mechanism and the desired head, either No. 20-427, 20-437, 20-727 or 20-737. Dimensions for track (not supplied by us) are given in instructions with Cat. No. 20-623. This set-up is especially practical where large, heavy work must be handled. Carriage, which has eight ball bearing construction, can be mounted to a jib crane or similar type of track for large floor coverage. Head may be rotated through a complete circle, providing maximum flexibility of operation.



New **ROCKWELL** "Up-Front" Power Feed Provides Extra Versatility for **DELTA 20"** and **17"** **DRILL PRESSES**

Operated with **ONLY ONE HAND!**

Now! For the *first time* Rockwell offers a new concept in power Feeds—*up-front control combined with one-hand operation*—never before available on a standard drill press! This totally different concept of fitting the mechanical control movements to the natural, easy motion of the operator's hand, brings "flick-of-the-wrist" control with freedom from fatigue. It has to be tried to be appreciated. And it offers these important advantages:

SAVES ON LABOR COSTS—faster and easier to operate, its especially valuable on multiple spindle set-ups where the operator can do other jobs during the power feed cycle.

IMPROVES QUALITY—correctly engineered feeds and speeds are *maintained* to produce holes that are round, true to size and depth, with a high quality finish.

INCREASES PRODUCTION—mechanical feed maintains established production rate, is not subject to slow-downs due to operator fatigue.

Equipped with the all-new Rockwell Power Feed, Delta 20" Drill Presses not only are ideal for conventional drill press operations, but also are perfectly suited for both small hole drilling and for drilling large holes up to the maximum capacity of the machine.

SO VERSATILE THAT YOU CAN HAVE . . .

"JOB-TAILORED" DRILL POINT PRESSURE

Lathe type cone clutch enables operator to power feed on a production basis throughout a wide range of hole diameters. Delicately handles small holes down in the $\frac{1}{16}$ " diameter range (proof—17 jewel Bulova watch crystal did not break in actual test shown at left) but by a simple adjustment, delivers power and thrust for drilling holes up to the maximum capacity of the machine. Infinitely adjustable drill point pressure from 0 to maximum avoids drill breakage, protects all moving parts against overloading, yet, all the thrust you'll ever need is always available.

Every shop man with a DEEP HOLE DRILLING PROBLEM will immediately understand the advantage of the torque sensitive adjustability feature of the clutch. When trouble develops in the bottom of the hole from hard spots, clogged chips, lack of coolant, or for any other cause, the feed stops *before the drill breaks!*

A simple one-hand movement gives the user all these choices:

1. Accelerated manual rapid approach, then power feed by a simple wrist movement.
2. Skip drilling—rapid approach, feed, rapid approach, feed.
3. Straight power feed.
4. Straight manual feed.

FLEXIBILITY OF FEEDS

All of the above choices are immediately available to the operator *without* any adjustment of the mechanism.

Emergency release is obtained simply by "pulling" or "bumping" any of the 3 feed levers forward.

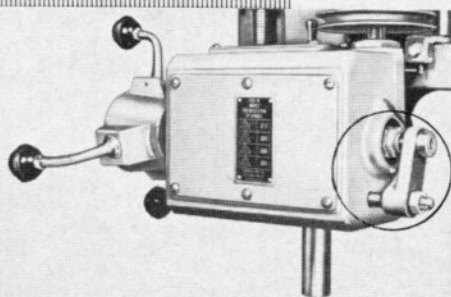
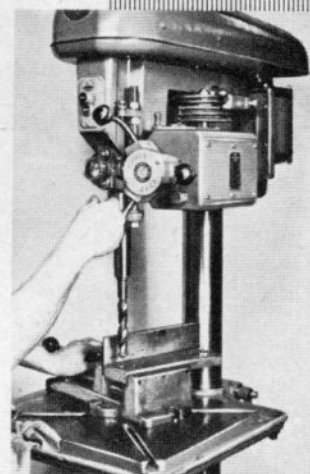
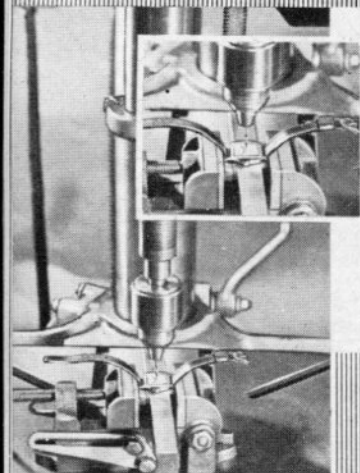
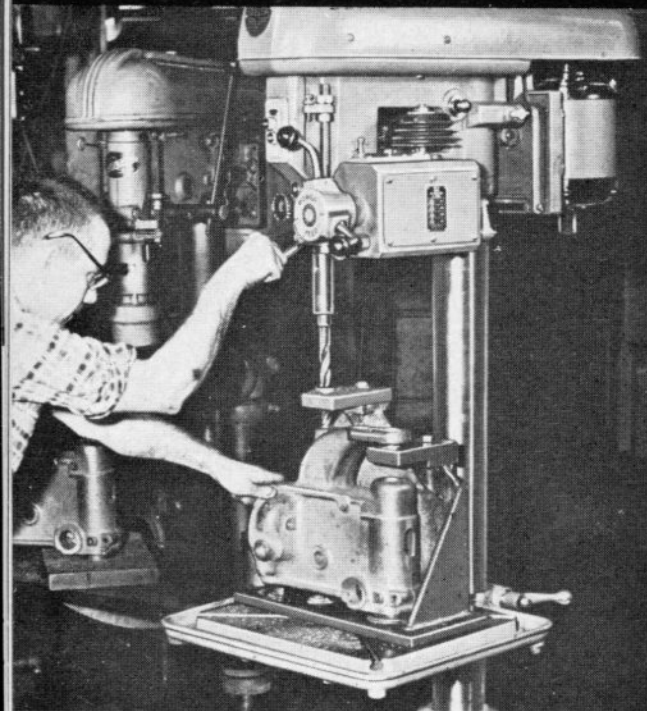
Normal release and quill return occur at any predetermined setting of the stop mechanism from $\frac{1}{2}$ to full 6" stroke.

AUTOMATION AND REMOTE CONTROL

Now! *for the first time*, a mechanical power feed with provision for remote control or interlocking with automation devices such as rotary tables, clamps and work feeds.

Photo shows actuating plunger (at rear) which can be connected with solenoids, electrical control switches, mechanical or hydraulic devices to interlock feed mechanism with automation accessories. The same plunger, an extension of the clutch shaft, permits remote control which completely frees the operator from any manual effort.

This plus advantage—*never before available on a mechanical power feed*—was previously attainable only by the use of costly air or hydraulic feed mechanisms.



**Modern Engineered Features
That Assure FASTER, EASIER,
MORE ECONOMICAL PRODUCTION!**

- Positive, 6-finger cam action for instantaneous engagement or release of power feed through "snap-of-the-wrist" pilot wheel control.
- Repeated drilling to same depth within tolerances measured in only a few thousandths of an inch.
- Automatic, adjustable, clock-spring quill return.
- Feed in inches per revolution always in direct relation to spindle speed.
- Handy feed chart that guides set-up man in selecting correct feed.
- Quick-release belt idler pulley for feed changing and automatic belt tensioning.
- "Free-turning" pilot wheel knobs for constant grip and easier operation.
- Simplified lubrication for long, trouble-free performance.

**RUGGED
POWER
FEED
CONSTRUCTION**

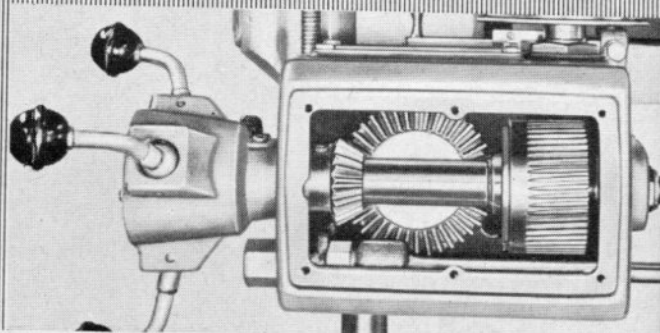


Photo illustrates the rugged, yet simple construction of the new Rockwell Power Feed. The double reduction mechanism, with two extra large bevel gears, permits the hand wheel to be ideally proportioned for quick, effortless operation.

Note the simplicity of design. There are very few moving parts to wear out, and all parts are over-sized and rugged. This "preferred" construction will assure years of maintenance-free operation.

A husky 1 1/8" tubular steel shaft supports the bevel gear, cone type clutch and front control hub assembly. A bronze, combination clutch-cup and worm wheel gear drives the cast iron clutch cone. The input shaft is supported on porous, oil-impregnated bronze bushings and is provided with a ball thrust bearing. Trip sear and pin are hardened.

Lubrication is easy. Three oilers permit direct lubrication of shaft bearings and cam, and a quickly removed side cover facilitates greasing the internal mechanism.

POWER FEED ATTACHMENT FOR CONVERTING ANY DELTA 20" HAND FEED DRILL PRESS OR HEAD TO POWER FEED. Consists of power feed mechanism, jack shaft assembly with pulleys, idler pulley assembly, "Micro-Stop" parts for stop rod, No. 49-101 and No. 49-102 V-belts. Include instructions for field mounting. 46 lbs. **CAT. NO. 20-642**

POWER FEED CONVERSION KIT FOR CONVERTING OLD STYLE 20" POWER FEED MECHANISM (DELTA SERIAL Nos. below 126-9500) TO PRESENT MECHANISM. Consists of power feed mechanism, pinion shaft and all parts not common to both old and present power feeds. Includes instructions for field mounting. 50 lbs. **CAT. NO. 20-643**

New DELTA 20" Geared Pulley Head DRILL PRESSES Provide Extra Slow Drilling Speeds

NOW! Delta 20" Drill Presses are available with planetary gear spindle pulleys that provide a 3 to 1 reduction ratio. By reducing the spindle speed and multiplying the torque, the capacity of the Delta 20" Hand or Power Feed Drill Press is increased. You can drill and tap larger holes and handle operations like reaming, spotfacing and counterboring.

Unlike standard drill presses equipped with geared motors or geared motor pulleys, there is *no extra strain* on the V-belt nor on the bearings of the motor and spindle when these machines are operated in either gear drive or direct drive. High belt speeds are maintained at all times. To change from direct belt drive to gear drive, you simply turn a key.

Spindle pulleys have three satellite gears mounted on hardened pins and needle bearings. Pulleys are light weight aluminum castings dynamically balanced.

Hand feed models have ten spindle speeds—five in direct drive and five in gear drive. With a 1725 rpm motor, the spindle speed range is from 165 to 2600 rpm, and with an 1140 rpm motor, from 110 to 1700 rpm.

Power feed models are equipped with a 4-step geared spindle pulley and conventional 5-step motor pulley. With the No. 49-108 V-belt which is standard equipment, eight spindle speeds (four in direct and four in gear drive), ranging from 165 rpm to 1800 rpm with a 1725 rpm motor, are obtained. With an 1140 rpm motor, the eight speeds range from 110 rpm to 1200 rpm.

Additional speeds can be obtained on power feed models by using the longer V-belt No. 49-109 (order separately if desired) and different steps on the motor pulley. This provides eight additional speeds, up to 2100 rpm in direct drive when using a 1725 rpm motor.

Note: For Catalog Listing of 20" Geared Pulley Head Drill Presses, see Page 9.

CONVERT YOUR PRESENT DELTA 20" HAND OR POWER FEED DRILL PRESSES FOR EXTRA SLOW DRILLING SPEEDS WITH THESE NEW PLANETARY GEAR SPINDLE PULLEYS

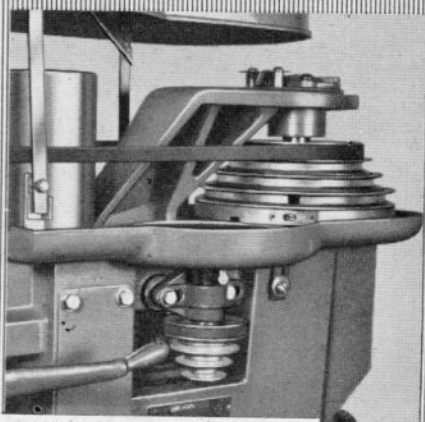
Five-step Planetary Gear Spindle Pulley for 20" Hand Feed Drill Presses. Used instead of the standard equipment spindle pulley, this accessory provides ten spindle speeds. 15 lbs. **CAT. NO. 20-635**

Four-step Planetary Gear Spindle Pulley for 20" Power Feed Drill Presses. Used instead of the standard equipment spindle pulley, this accessory provides eight spindle speeds with the original equipment V-belt, plus eight additional speeds with the longer V-belt No. 49-109 (order separately if desired). 15 lbs. **CAT. NO. 20-634**

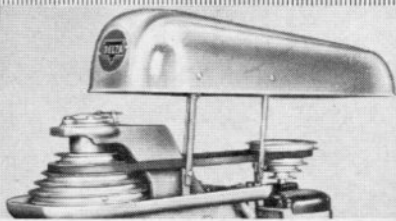
Spindle V-belt for use with No. 20-634 Spindle Pulley. Longer in length than Standard Belt No. 49-108, it is used to obtain higher spindle speeds. Steel reinforced type, 64 1/8" O.C. 3/4 lb. **CAT. NO. 49-109**



HAND FEED 20" HEAD SHOWN WITH FIVE-STEP GEARED SPINDLE PULLEY

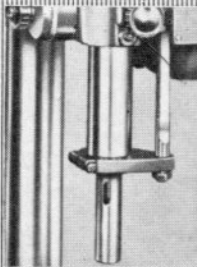


POWER FEED 20" HEAD SHOWN WITH FOUR-STEP GEARED SPINDLE PULLEY



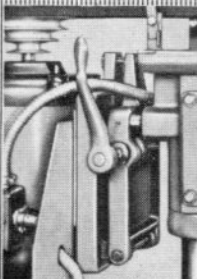
NEW TYPE BELT GUARD

Stronger-than-steel, this fiber glass reinforced belt guard "swings back" for easy belt and speed changing—won't crack like cast iron, dent like steel, rattle, corrode or rust. Built-in latch locks automatically when guard is closed.



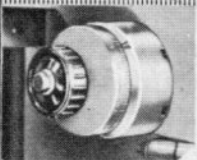
BIG SPINDLE TRAVEL

Spindle travel is a full 6" — ample capacity for such operations as drilling, counter boring and reaming of large work. Note exceptionally large 2 3/8" diameter quill.



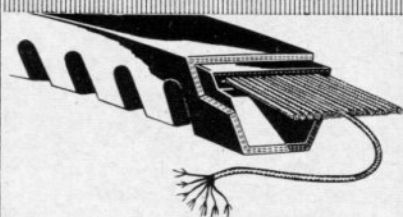
QUICK-RELEASE MOTOR MOUNT

A cam-actuated motor mounting device permits easy belt changing with no possibility of damage to the belt. The cam action also assures proper belt tension at all times for longer belt life.



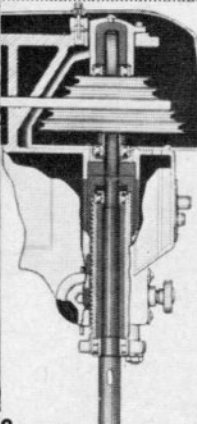
EASY-READ DEPTH GAGE

Large depth gage with magnified calibrations facilitates correct setting and easy reading. Has zero start feature.



SPECIALLY CONSTRUCTED V-BELT

Steel reinforced, notched V-belt, recommended for the toughest drives in industry, is standard equipment on all Delta 20" Drill Presses at no extra cost.



HEAVY-DUTY SPINDLE CONSTRUCTION

Ten-spline, manganese steel spindle is 3 1/32" in diameter. Four-bearing spindle construction with double-row, pre-loaded, heavy-duty ball bearing close to the work load eliminates spindle play and guarantees continuous accuracy.

These Precision Engineered Features Make the New DELTA 20" Drill Press Especially Suited for Production Tooling

- Massive, one-piece head and precision ground, seamless steel column, with 7/16" thick wall, insure rigidity and accuracy during continuous operation.
- Large, 2 3/8" diameter quill is supported by three precision bored lands in the head. Two adjusting screws may be taken up to compensate for wear after long use.
- Elevating mechanism furnished as standard equipment on all models.
- Pulley and spindle bearings as well as all moving parts of the quill and feed mechanism are lubricated from a single oil hole conveniently located above the spindle.
- Long columns provide extra big capacity for large work—26" from spindle nose to table on bench model—36" on floor model. Spindle nose to base on floor model—45".
- Floor model has ground work surface on base as well as table.

SPECIAL-PURPOSE MACHINES CAN BE MADE WITH THESE DELTA DRILL PRESS COMPONENTS (SEE PAGE 9 FOR HEADS)

- Column, 3 3/4" x 33", steel. CAT. NO. 20-625
- Column, 3 3/4" x 42", steel. CAT. NO. 20-626
- Column, 3 3/4" x 66", steel. CAT. NO. 20-627
- Column, 3 3/4" x 78", steel. CAT. NO. 20-628
- Flange, with screws, for mounting column on table (not for single spindle floor models). CAT. NO. 20-624
- Ball Bearing Carriage with 33" column for Over-head Drill Press. CAT. NO. 20-623
- Raising Mechanism for head or table of 20" Drill Press. Includes ball bearing thrust collar, rack, gear assembly and crank. CAT. NO. 20-661
- Tilting Table, ground work surface 16" front to back by 18" left to right, slotted, with column bracket and tilt angle scale. Tilts 90° left and right and has index pin for level position. Left side has 4x16" ground, vertical work clamping surface. Without No. 20-661 Raising Mechanism. For single spindle floor model drill presses. CAT. NO. 20-660
- Production Table, 15" x 18" ground work surface, with 4 diagonal and 2 parallel blind T slots for 1/2" bolts. Without No. 20-661 Raising Mechanism. For single spindle floor model drill presses. CAT. NO. 20-650
- Production Table, ground work surface 24" front to back by 18" wide, for single spindle bench model. Does not fit No. 50-399 Legs. CAT. NO. 20-651
- Production Table, one-piece, for two spindle set-up. Drilled and tapped for column mounting flanges on 17 1/2" centers. Ground work surface 24 1/2" x 35 1/2". Fits No. 50-399 Legs. CAT. NO. 20-652
- Production Table, one-piece, for three spindle set-up. Drilled and tapped for column mounting flanges on 26 1/4" centers. Machined work surface 24 1/2" x 70 1/2". Fits No. 50-399 Legs. CAT. NO. 20-653
- Production Table, one-piece for four spindle set-up. Drilled and tapped for column mounting flanges on 17 1/2" centers. Machined work surface 24 1/2" x 70 1/2". Fits No. 50-399 Legs. CAT. NO. 20-654
- Production Table, two-piece, for six spindle set-up. Drilled and tapped for column mounting flanges on 17 1/2" centers. Machined work surface 24 1/2" x 105 1/2". Fits No. 50-399 and No. 50-506 Legs. CAT. NO. 20-656
- Production Table, right end section, drilled and tapped for two columns on 17 1/2" centers, 25" x 35 1/4" ground work surface. CAT. NO. 20-657
- Production Table, left end section, drilled and tapped for two columns on 17 1/2" centers, 25" x 35 1/4" ground work surface. CAT. NO. 20-658
- Production Table, center section, drilled and tapped for two columns on 17 1/2" centers, 25" x 35" ground work surface. CAT. NO. 20-659
- Legs, steel, one pair 27 1/2" high (see page 23 for illustration). For mounting production tables Nos. 20-652, 20-653, 20-654 and 20-656. CAT. NO. 50-399
- Leg, steel, 27 1/2" high. For mounting production tables. Cannot be used with table No. 20-651. CAT. NO. 50-506
- Riser Blocks, cast iron, one pair, 2" high with studs, nuts and lock washers for mounting under Legs 50-399 and 50-506 (see page 23 for illustration) One pair required for each single leg to raise machine 2". Two blocks can be stacked to raise machine 4". CAT. NO. 50-400

Note: Minimum center to center distances for columns are: Hand Feed Models — 13"; Power Feed Models — 16".

Data sheets with dimensions are available to aid in special machine design.

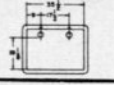

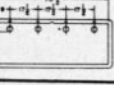

DELTA 20" DRILL PRESS

catalog listing

SINGLE SPINDLE MODELS AND HEADS

Spindle and Feed	Bench Model (With Production Table)		Floor Model (With Production Table)		Floor Model (With Tilting Table)		Head Only	
	Standard Spindle Pulley	Gearred Spindle Pulley	Standard Spindle Pulley	Gearred Spindle Pulley	Standard Spindle Pulley	Gearred Spindle Pulley	Standard Spindle Pulley	Gearred Spindle Pulley
No. 2 M.T. Hand	20-428 425 lbs.	20-448 427 lbs.	20-421 465 lbs.	20-441 467 lbs.	20-425 467 lbs.	20-445 469 lbs.	20-427 169 lbs.	20-447 171 lbs.
No. 3 M.T. Hand	20-438 425 lbs.	20-458 427 lbs.	20-431 465 lbs.	20-451 467 lbs.	20-435 467 lbs.	20-455 469 lbs.	20-437 171 lbs.	20-457 173 lbs.
No. 2 M.T. Power	20-728 450 lbs.	20-748 452 lbs.	20-721 500 lbs.	20-741 502 lbs.	20-725 502 lbs.	20-745 504 lbs.	20-727 232 lbs.	20-747 234 lbs.
No. 3 M.T. Power	20-738 450 lbs.	20-758 452 lbs.	20-731 500 lbs.	20-751 502 lbs.	20-735 502 lbs.	20-755 504 lbs.	20-737 222 lbs.	20-757 224 lbs.

MULTIPLE SPINDLE MODELS

No. of Spindles	Hand Feed				Power Feed			
	No. 2 Morse Taper		No. 3 Morse Taper		No. 2 Morse Taper		No. 3 Morse Taper	
	Standard Spindle Pulley	Gearred Spindle Pulley	Standard Spindle Pulley	Gearred Spindle Pulley	Standard Spindle Pulley	Gearred Spindle Pulley	Standard Spindle Pulley	Gearred Spindle Pulley
 <p>2 Spindle One-Piece Table One 1/2" Pipe Tap at each rear corner</p>	20-422 1230 lbs.	20-442 1232 lbs.	20-432 1230 lbs.	20-452 1232 lbs.	20-722 1280 lbs.	20-742 1282 lbs.	20-732 1280 lbs.	20-752 1282 lbs.
 <p>3 Spindle One-Piece Table One 1/2" Pipe Tap at each rear corner</p>	20-423 1230 lbs.	20-443 1232 lbs.	20-443 1930 lbs.	20-453 1932 lbs.	20-723 2005 lbs.	20-743 2007 lbs.	20-733 2005 lbs.	20-753 2007 lbs.
 <p>4 Spindle One-Piece Table One 1/2" Pipe Tap at each of 4 corners</p>	20-424 2080 lbs.	20-444 2082 lbs.	20-434 2080 lbs.	20-454 2082 lbs.	20-724 2180 lbs.	20-744 2182 lbs.	20-734 2180 lbs.	20-754 2182 lbs.
 <p>6 Spindle Two-Piece Table One 1/2" Pipe Tap at each of 4 corners</p>	20-426 3075 lbs.	20-446 3077 lbs.	20-436 3075 lbs.	20-456 3077 lbs.	20-726 3225 lbs.	20-746 3227 lbs.	20-736 3225 lbs.	20-756 3227 lbs.

The 2, 3 and 4 spindle drill presses have one-piece tables. The 6 spindle drill press has a two-piece table. Tables on multiple spindle units have 17/8" coolant trough. Table working surface is 32 1/8" from the floor. Six spindle

units have three legs—all other multiple spindle units have two legs. Maximum distance spindle nose to table with No. 3 M.T.—26", with No. 2 M.T.—26 1/2".

STANDARD EQUIPMENT ON SINGLE AND MULTIPLE SPINDLE MODELS

Hand Feed Models: No. 49-108 V-belt, No. 49-235 motor pulley (3/4" bore), No. 20-661 raising mechanism and belt guard. Motor and motor controls not included with machine.

Power Feed Models: No. 49-108 V-belt, No. 49-101 V-belt, No. 49-102 V-belt, No. 49-235 motor pulley (3/4" bore), No. 20-661 raising mechanism and belt guard. Motors and motor controls not included with machine.

MOTORS AND MOTOR CONTROLS*

FOR SINGLE PHASE OPERATION

Motor, 1 HP, capacitor start, 115/230 V, 60 cy, AC, 1140 rpm. Includes on-and-off switch, 115V 8-foot grounding cord, 3-prong plug and adapter. 70 lbs. **CAT. NO. 83-112**

Motor, 1 HP, capacitor start, 115/230 V, 60 cy, AC, 1725 rpm. Includes on-and-off switch, 115V 8-foot grounding cord, 3-prong plug and adapter. 70 lbs. **CAT. NO. 83-510**

*Push Button Switch. Includes 4-wire flexible conduit assembly, wiring diagram and everything needed for use with No. 83-112 or No. 83-510 motor. For DC use also. 3 lbs. **CAT. NO. 20-611**

FOR THREE PHASE OPERATION

Motor, 1 HP, 208-220/440V, 50/60 cy, AC, 1425/1725 rpm. Without switch or power cord. 56 lbs. **CAT. NO. 86-920**

Motor, 1 HP, 208-220/440V, 60 cy, AC, 1140 rpm. Without switch or power cord. 55 lbs. **CAT. NO. 86-922**

Motor, 1 1/2 HP, 208-220/440V, 50/60 cy, AC, 1425/1725 rpm. Without switch or power cord. 52 lbs. **CAT. NO. 87-120**

Switch, Overload. Used with No. 20-613 switch. Easy to mount with No. 20-614 mounting bracket. Specify motor number and voltage when ordering. 3 lbs. **CAT. NO. 49-365**

Starter, Magnetic. For 60 cy, 208-220V only. Provides low-voltage, no-voltage and overload protection. Used with No. 20-612 switch. Easy to mount with No. 20-614 mounting bracket. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-396**

Starter, Magnetic. For 60 cy, 440 V only. Provides low-voltage, no-voltage and overload protection. Used with No. 20-612 switch. Easy to mount with No. 20-614 mounting bracket. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-397**

*Push Button Magnetic Control Switch. Includes 3-wire flexible conduit assembly, wiring diagram and everything needed for use with motor No. 86-920, No. 86-922 or No. 87-120 and magnetic starters Nos. 49-396 or 49-397. 2 1/2 lbs. **CAT. NO. 20-612**

*Push Button Manual Control Switch. Includes 6-wire flexible conduit assembly, wiring diagram and everything needed for use with motor No. 86-920, No. 86-922 or No. 87-120 and No. 49-365 overload switch. 3 lbs. **CAT. NO. 20-613**

Mounting Bracket. Includes screws for mounting motor controls to motor mounting plate of drill press. Used with Nos. 1320, 49-365, 49-393, 49-394, 49-396 and 49-397. 3 lbs. **CAT. NO. 20-614**

WHAT CONTROLS TO ORDER

For 83-112 or 83-510 motor, single phase

1. (115 or 230V) No. *20-611 only

For 86-920, 86-922 or 87-120 motor, three phase

A. Manual
1. (208-220/440V) Nos. 49-365, *20-613, 20-614

B. Magnetic
1. (208-220V) Nos. 49-396, *20-612, 20-614 or
2. (440V) Nos. 49-397, *20-612, 20-614

*For maximum safety, convenience, and good appearance we recommend the push button switch type of control—Nos. 20-611, 20-612, or 20-613.

For Three Phase Motor No. 86-920, No. 86-922 or No. 87-120, the Manual Starter No. 1320 or Magnetic Starters Nos. 49-393 or 49-394 may be used.

new DELTA 17" DRILL PRESSES in single or multiple spindle models



DELTA 17" DRILL PRESS

floor model shown with motor
and production table
Also available with standard table

Twenty-three years ago Delta introduced a new 17" Drill Press Line. Almost from that day forward, Delta 17's became the *accepted standard* for literally hundreds of thousands of drill press users in industry, building trades, commercial shops and schools.

Now! . . . Delta introduces an *even greater* 17" Drill Press Line.

The All-New Delta 17" Drill Press is even MORE MASSIVE . . . MORE RUGGED . . . MORE ACCURATE than before. And unmatched, specially engineered features—such as the "New Concept Depth Stop"—make it the *finest in its class!*

If you require a drill press that will do many of the production jobs ordinarily done by heavy, fixed, expensive machines . . . that can be moved in and out of the line to relieve production bottlenecks . . . that offers the job versatility required in commercial and school shops, then the New Delta 17" Drill Press deserves a place in your operation.

specifications

Overall Dimensions:

Bench Type:

Height 49³/₈" ; Width 23¹/₂" ;
Front to Rear 35¹/₃₂"

Floor Type: (Prod. Table)

Height 69¹/₄" ; Width 18¹/₄" ;
Front to Rear 32¹/₃₂"

Table Working Surface:

Std. 11x12" ; Prod. 12¹/₂x17"

Base Working Surface:

Bench 16x18" ; Floor 10¹/₄x13³/₄"

Quill

Stroke (Manual Feed) 0 to 5"
Stroke (Power Feed) 1/2 to 5"
Diameter 2¹/₄"

Capacities

Key Chuck 0-1/2"
Dia. Hole in Cast Iron 3/4"
Dia. Hole in Steel 5/8"

Spindle Speeds (with 1725 rpm motor)

High Speed Models—700, 1150, 1750, 2750 and
4250 rpm
Slow Speed Models—385, 600, 935, 1450 and
2240 rpm

Power Feed Models

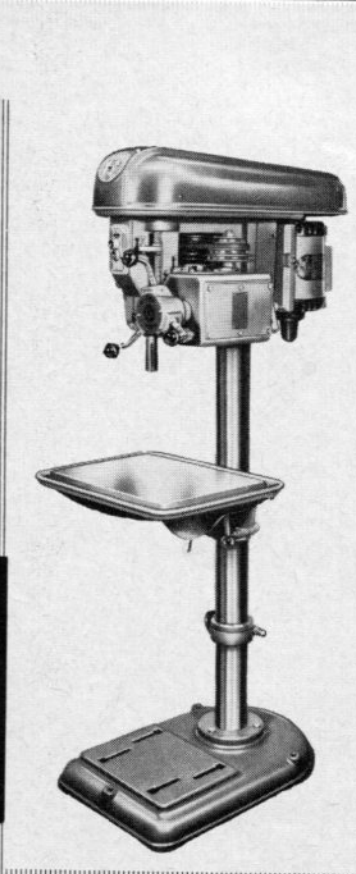
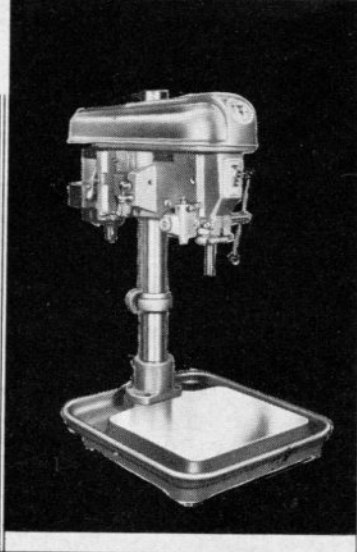
Feeds004, .006, .009, .012 ipr
Feed Pressure
Infinitely variable from 0 to maximum required

Motor Plate

accommodates NEMA Frame Motors 182 and 184

BENCH MODELS

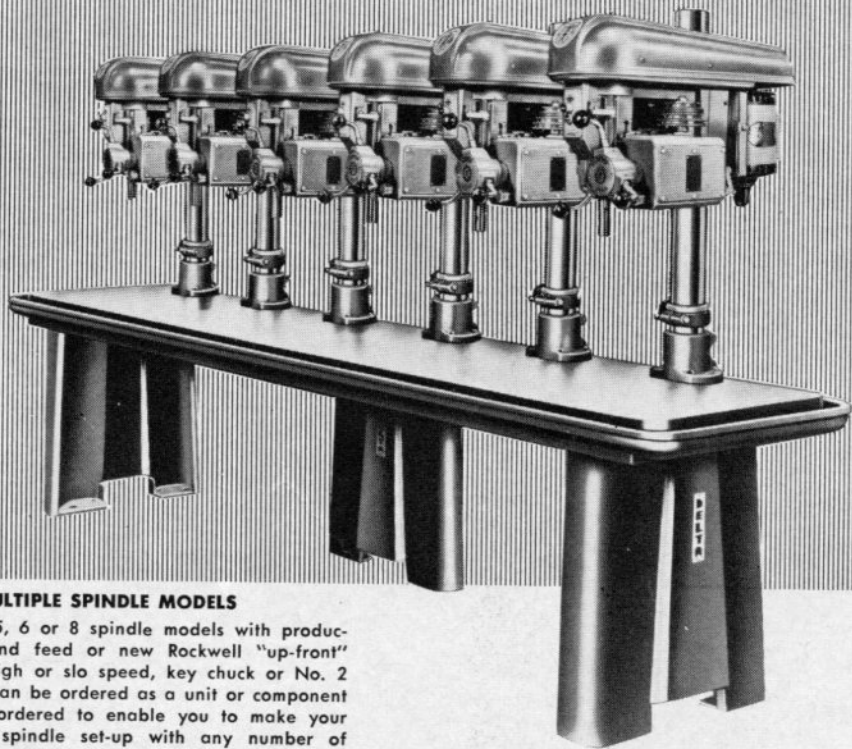
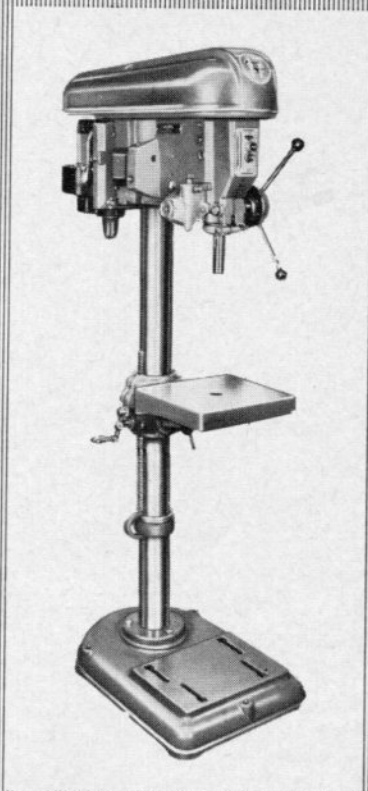
... with production table, hand feed or new Rockwell "up-front" power feed, high or slo speed, key chuck or No. 2 M.T. spindle.



*the world's most complete line
of 17" drill presses available ... choose
from 76 models and get the
machine best suited for your job*

FLOOR MODELS

... with standard or production table, hand feed or new Rockwell "up-front" power feed, high or slo speed, key chuck or No. 2 M.T. spindle.



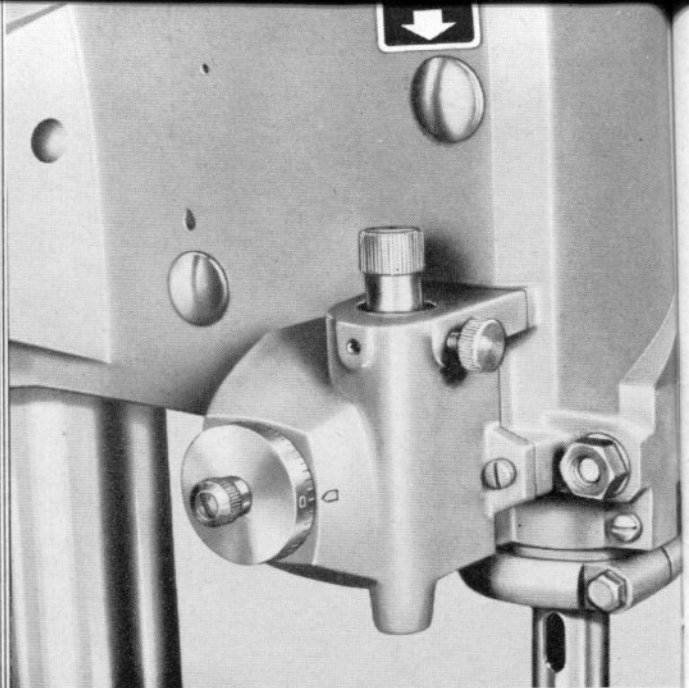
MULTIPLE SPINDLE MODELS

... 2, 3, 4, 5, 6 or 8 spindle models with production table, hand feed or new Rockwell "up-front" power feed, high or slo speed, key chuck or No. 2 M.T. spindle. Can be ordered as a unit or component parts can be ordered to enable you to make your own multiple spindle set-up with any number of spindles.

NEW CONCEPT DEPTH STOP

Eliminates quill deflection. Adjusts with one hand in seconds. Repeats to same depth. Stays locked. This new concept in depth stops is an internal mechanism that completely eliminates the conventional, external stop rod which is clamped to the quill and which utilizes hard-to-adjust stop nuts. Delta's New Internal Depth Stop Mechanism stops the pinion shaft, but does not limit the pinion to only one revolution. It permits the spindle to travel a full 5". Furthermore, it avoids all the aggravating problems (such as quill deflection at the bottom of the stroke) encountered with many old-fashioned stops.

NEW, QUICK-SET DEPTH GAGE Can be set to read from zero, giving a direct reading as drill penetrates work. Scale is calibrated down to $\frac{1}{16}$ " and magnified twice for easy reading.



these DELTA 17" DRILL PRESS features

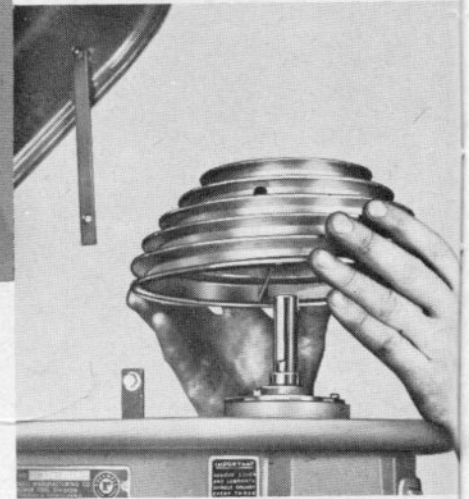
*are your guarantee
of long service life, consistent
precision performance and
maximum operating economy*

ADDITIONAL DELTA QUALITY FEATURES

- Unique Double Spindle. Upper spindle takes belt pull and only torque is transmitted through 16-splined, free-floating drive to lower spindle. Both spindles mounted on 2 ball bearings. Short lower spindle design eliminates whipping and insures accuracy.
- Quill is rigidly supported by 3 precision-bored lands in the head, providing extra smooth travel.
- Worm screw adjustment makes it easy to set correct tension on the spindle return spring.
- 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 Power Feed, Foot Feed or Rack and Pinion Type Raising Mechanism.

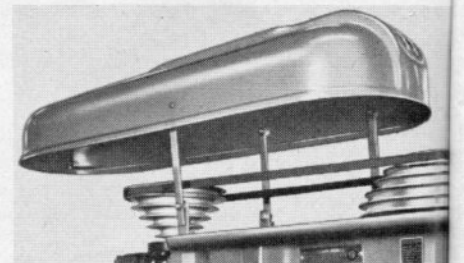
QUICK CONVERSION PULLEYS

Dynamically balanced pulleys may be changed quickly — by simply loosening one set-screw—for converting from high to slow speed model or vice versa. Note how belt guard tilts back, out of the way, making pulley changes an easy operation.



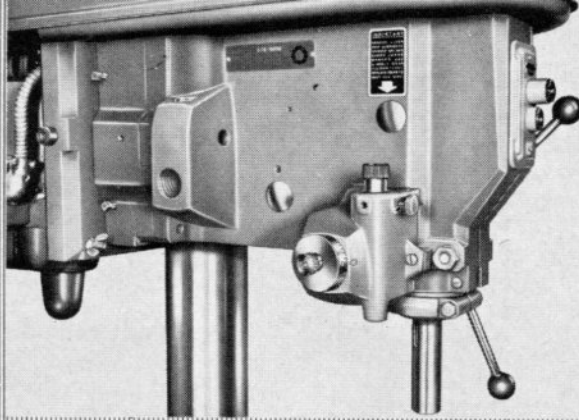
INTERFERENCE-FREE GUARD

All steel guard swings up high and back, providing ample room for quick belt and speed changes. Three specially designed supports and a stop hold guard in the proper "up position" practically eliminating all interference to operator. Two built-in clips automatically lock guard in place when closed.



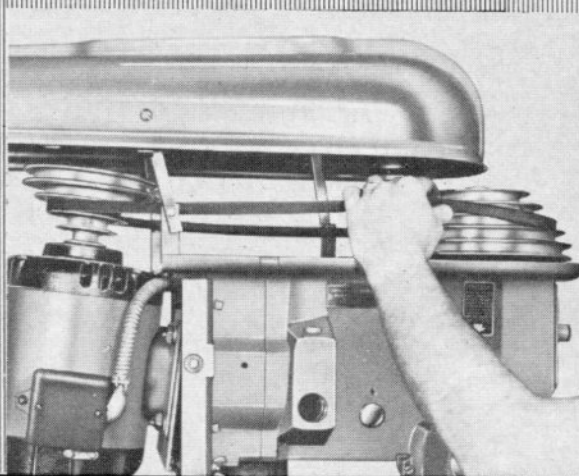
CONVENIENT PUSH BUTTON SWITCH

Mounted in the front of the head, this easily accessible switch can be operated by either the right or left hand. It's designed for maximum operator safety. The shrouded start button prevents accidental starts and the protruding stop button provides for safest control for quick, emergency stops.



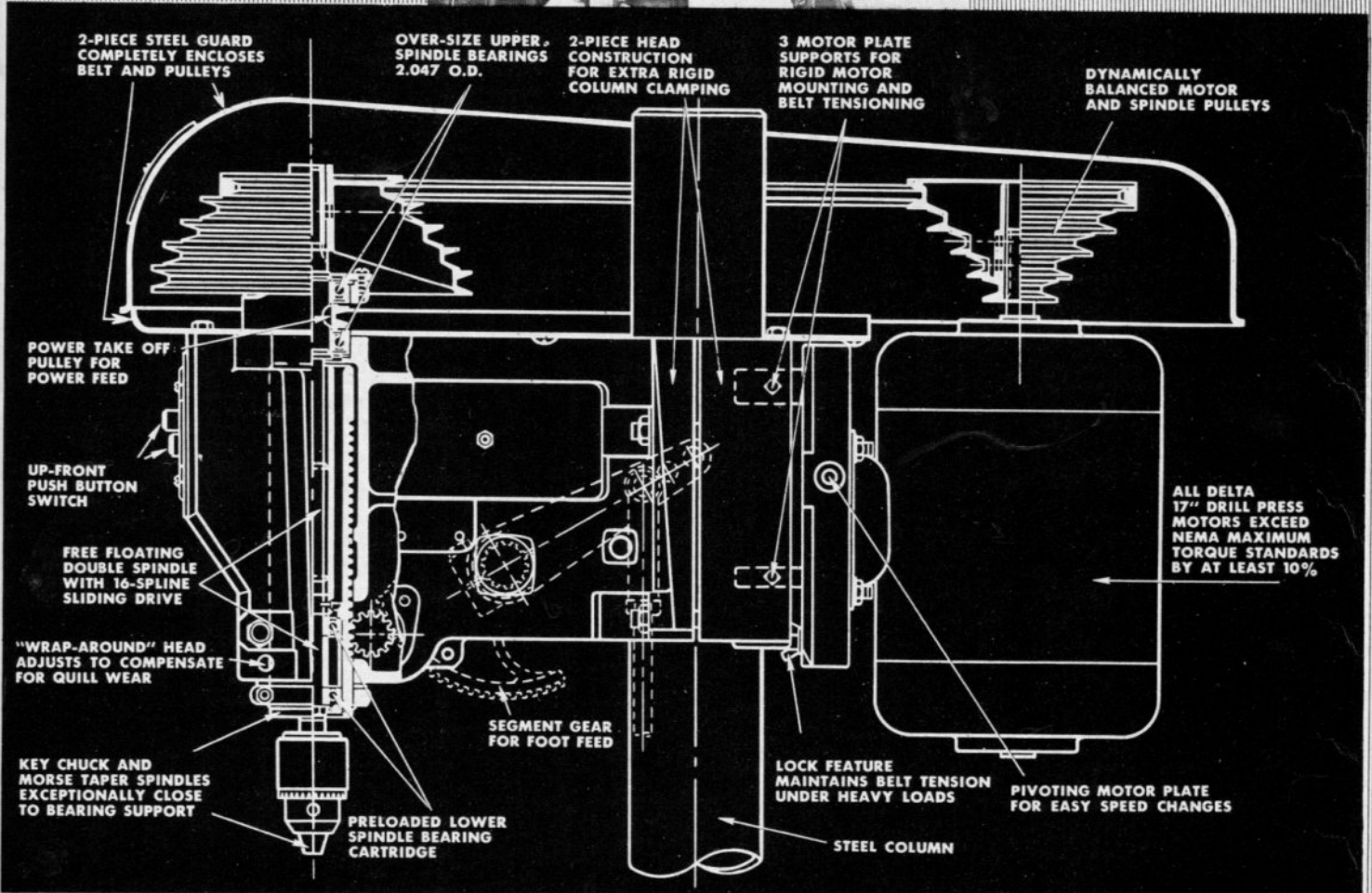
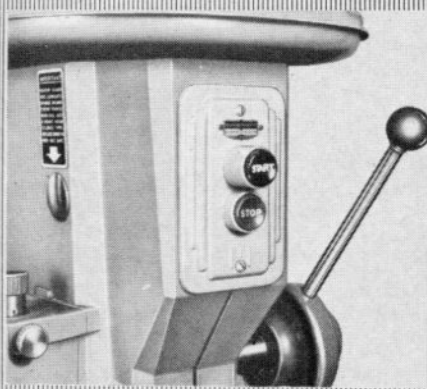
MASSIVE HEAD CONSTRUCTION

Rockwell engineers designed the head of the New Delta 17" Drill Press to meet the most demanding requirements of industry. The extra heavy casting wall, combined with the rugged design throughout, assures exceptional rigidity for smooth drill press operation. These are the requisites that guarantee precision performance year after year.



PERFECTED MOTOR MOUNT

Specially designed, pivot-type motor mount assures longer belt life because belt tension is fully released before changing from one pulley speed to another. Proper running tension on belt is maintained at all times, preventing undue wear on bearings.



UNMATCHED HEAD AND QUILL DESIGN

This cut-away view of the head and quill assembly shows the excellent design and rugged construction that enable Delta 17" Drill Presses to provide new machine accuracy through years of heavy-duty service. And with Delta's 5 Famous

Quality Features—lubricated-for-life ball bearings . . . precision bored bearings seats . . . preloaded bearings . . . precision bored spindles . . . dynamically balanced pulleys—maintenance costs are held to the absolute minimum.

DELTA 17" DRILL PRESS

catalog listing

SINGLE SPINDLE MODELS

(For MULTIPLE SPINDLE MODELS, SEE NEXT PAGE)

	Standard Table Floor Models Shipping Wt. 310 lbs.	Production Table Floor Models Shipping Wt. 340 lbs. Add 46 lbs. for power feed	Production Table Bench Models Shipping Wt. 310 lbs. Add 46 lbs. for power feed
#2 MT Spindle Slo Speed	17-605	17-610 (with Standard Feed) 17-624 (with Power Feed)	17-630 (with Standard Feed) 17-634 (with Power Feed)
#2 MT Spindle High Speed	17-606	17-611 (with Standard Feed) 17-625 (with Power Feed)	17-631 (with Standard Feed) 17-635 (with Power Feed)
1/2" Key Chuck Slo Speed	17-607	17-612 (with Standard Feed) 17-626 (with Power Feed)	17-632 (with Standard Feed) 17-636 (with Power Feed)
1/2" Key Chuck High Speed	17-608	17-613 (with Standard Feed) 17-627 (with Power Feed)	17-633 (with Standard Feed) 17-637 (with Power Feed)

Table working surface—Standard 11 x 12", Production (floor model) 12 1/2 x 17" with one 3/4" pipe tap at rear, Production (bench model) 16 x 18" with two 3/4" pipe taps at rear. Standard table tilts 90° left and right. Production table for floor models tilts 17° left and right.

STANDARD EQUIPMENT ON ALL SINGLE AND MULTIPLE SPINDLE MODELS

Table raising mechanism on single spindle floor models
Head raising mechanism on multiple spindle and bench models
Built-in depth stop
Depth gage
Streamlined belt guard

High Speed models include #501 V-belt and #1312 motor pulley—3/4" bore
Slo Speed models include #520 V-belt and #1311 motor pulley—3/4" bore
Power Feed models include #49-126 and #49-127 V-belts.
Motors and switches not included with machine. See below for ordering information.

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

*Motor, 1/2 HP, capacitor start, 115/230 V, 60 cy, AC, 1725 rpm. Includes on-and-off switch, 115 V 8-foot cord, 3-prong grounding type plug and adapter. 52 lbs. **CAT. NO. 82-710**

Motor, 3/4 HP, capacitor start, 115/230 V, 60 cy, AC, 1725 rpm. Includes on-and-off switch, 115 V 8-foot cord, 3-prong grounding type plug and adapter. 50 lbs. **CAT. NO. 82-910**

Motor, 1 HP, capacitor start, 115/230 V, 60 cy, AC, 1725 rpm. Includes on-and-off switch, 115 V 8-foot cord, 3-prong grounding type plug and adapter. 70 lbs. **CAT. NO. 83-510**

Push Button Switch. Includes 4-wire flexible conduit assembly, wiring diagram and everything needed for use with Motor No. 82-710, 82-910 or 83-510. For DC use also. 3 lbs. **CAT. NO. 20-611**

FOR THREE PHASE OPERATION

*Motor, 1/2 HP, 208-220/440 V, 50/60 cy, AC, 1425/1725 rpm. Without switch or power cord. 44 lbs. **CAT. NO. 86-520**

Motor, 3/4 HP, 208-220/440 V, 50/60 cy, AC, 1425/1725 rpm. Without switch or power cord. 42 lbs. **CAT. NO. 86-720**

Motor, 1 HP, 208-220/440 V, 50/60 cy, AC, 1425/1725 rpm. Without switch or power cord. 56 lbs. **CAT. NO. 86-920**

Switch, Overload. Used with No. 20-613 switch. Easy to mount with No. 20-614 mounting bracket. Specify motor number and voltage when ordering. 3 lbs. **CAT. NO. 49-365**

Starter, Magnetic. For 60 cy, 208-220 V only. Provides low-voltage, no-voltage and overload protection. Used with No. 20-612 switch. Easy to mount with No. 20-614 mounting bracket. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-396**

* Not recommended for power feed models.

Starter, Magnetic. For 60 cy, 440 V only. Provides low-voltage, no-voltage and overload protection. Used with No. 20-612 switch. Easy to mount with No. 20-614 mounting bracket. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-397**

Push Button Magnetic Control Switch. Includes 3-wire flexible conduit assembly, wiring diagram and everything needed for use with Motor No. 86-520, No. 86-720 or No. 86-920 and Magnetic Starters No. 49-396 or No. 49-397. 2 1/2 lbs. **CAT. NO. 20-612**

Push Button Manual Control Switch. Includes 6-wire flexible conduit assembly, wiring diagram and everything needed for use with Motor No. 86-520, No. 86-720 or No. 86-920 and No. 49-365 Overload Switch. 3 lbs. **CAT. NO. 20-613**

Bracket for mounting manual or magnetic starters on 17" Single and Multiple Spindle Drill Presses, Hand and Power Feed Models. 3 lbs. (Cannot be used with old style 17" Power Feed Heads on Multiple Spindle Drill Presses. Heads lacking front opening for push button switch are old style.) **CAT. NO. 20-614**

WHAT CONTROLS TO ORDER

For 82-710, 82-910 or 83-510 single phase motor.



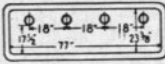

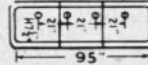
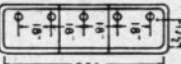

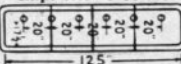
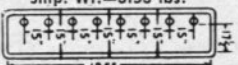
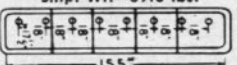
1. (115 or 230 V)
No. 20-611 only

For 86-520, 86-720 or 86-920 three phase motor.

- A. Manual
 1. (208-220/440 V) Nos. 49-365, 20-613, 20-614
- B. Magnetic
 1. (208-220 V) Nos. 49-396, 20-612, 20-614 or
 2. (440 V) Nos. 49-397, 20-612, 20-614

For Three Phase Motor No. 86-520, No. 86-720, or No. 86-920, the Manual Starter No. 1320 or Magnetic Starters No. 49-393 or No. 49-394 may be used.

MULTIPLE SPINDLE MODELS

Type	#2 M. T. Spindle Slo Speed	#2 M. T. Spindle High Speed	1/2" Key Chuck Slo Speed	1/2" Key Chuck High Speed
2 Spindle One Piece Table One 3/4" Pipe Tap or rear Ship. Wt.—Std. Feed 687 lbs. Ship. Wt.—Power Feed 807 lbs. 	17-640 (with Std. Feed) 17-644 (with Power Feed)	17-641 (with Std. Feed) 17-645 (with Power Feed)	17-642 (with Std. Feed) 17-646 (with Power Feed)	17-643 (with Std. Feed) 17-647 (with Power Feed)
3 Spindle Sectional Table 3/4" Pipe Tap at each end Ship. Wt.—Std. Feed 1503 lbs. Ship. Wt.—Power Feed 1653 lbs. 	17-650 (with Std. Feed) 17-654 (with Power Feed)	17-651 (with Std. Feed) 17-655 (with Power Feed)	17-652 (with Std. Feed) 17-656 (with Power Feed)	17-653 (with Std. Feed) 17-657 (with Power Feed)
4 Spindle One Piece Table Two 3/4" Pipe Tap at rear Ship. Wt.—Std. Feed 1572 lbs. Ship. Wt.—Power Feed 1766 lbs. 	17-660 (with Std. Feed) 17-664 (with Power Feed)	17-661 (with Std. Feed) 17-665 (with Power Feed)	17-662 (with Std. Feed) 17-666 (with Power Feed)	17-663 (with Std. Feed) 17-667 (with Power Feed)
4 Spindle Sectional Table—3/4" Pipe Tap at each end Standard Feed Ship. Wt.—1683 lbs.  Power Feed Ship. Wt.—2218 lbs. 	17-670 (with Std. Feed) 17-674 (with Power Feed)	17-671 (with Std. Feed) 17-675 (with Power Feed)	17-672 (with Std. Feed) 17-676 (with Power Feed)	17-673 (with Std. Feed) 17-677 (with Power Feed)
5 Spindle Sectional Table 3/4" Pipe Tap at each end Ship. Wt.—Std. Feed 2273 lbs. Ship. Wt.—Power Feed 2523 lbs. 	17-680 (with Std. Feed) 17-684 (with Power Feed)	17-681 (with Std. Feed) 17-685 (with Power Feed)	17-682 (with Std. Feed) 17-686 (with Power Feed)	17-683 (with Std. Feed) 17-687 (with Power Feed)
6 Spindle Sectional Table—3/4" Pipe Tap at each end Standard Feed Ship. Wt.—2443 lbs.  Power Feed Ship. Wt.—3108 lbs. 	17-690 (with Std. Feed) 17-694 (with Power Feed)	17-691 (with Std. Feed) 17-695 (with Power Feed)	17-692 (with Std. Feed) 17-696 (with Power Feed)	17-693 (with Std. Feed) 17-697 (with Power Feed)
8 Spindle Sectional Table—3/4" Pipe Tap at each end Standard Feed Ship. Wt.—3153 lbs.  Power Feed Ship. Wt.—3918 lbs. 	17-700 (with Std. Feed) 17-704 (with Power Feed)	17-701 (with Std. Feed) 17-705 (with Power Feed)	17-702 (with Std. Feed) 17-706 (with Power Feed)	17-703 (with Std. Feed) 17-707 (with Power Feed)

Motors, switches, coolant equipment not included with machines. Order separately. (See page 19 for coolant equipment.) Tables with three or more sections have three steel legs, other machines have two legs.

Multiple spindle tables have 1/2" coolant trough all around. Working surface is 32" from floor. Spindle to table maximum with No. 2 Morse Taper or Key Chuck (jaws closed)—25 3/4".

MAKE YOUR OWN SPECIAL SETUPS WITH THESE DELTA DRILL PRESS COMPONENTS

Head only, 17" Slo Speed Drill Press. Includes No. 2 M.T. Spindle, No. 520 Belt, No. 1311 Motor Pulley, 3/4" bore, and guard for belt and pulleys. 95 lbs. **CAT. NO. 17-600**

Head only, 17" High Speed Drill Press. Includes No. 2 M.T. Spindle, No. 501 Belt and No. 1312 Motor Pulley, 3/4" bore, and guard for belt and pulleys. 95 lbs. **CAT. NO. 17-601**

Head only, 17" Slo Speed Drill Press. Includes 1/2" key chuck, No. 520 Belt and No. 1311 Motor Pulley, 3/4" bore, and guard for belt and pulleys. 95 lbs. **CAT. NO. 17-602**

Head only, 17" High Speed Drill Press. Includes 1/2" key chuck, No. 501 Belt and No. 1312 Motor Pulley, 3/4" bore, and guard for belt and pulleys. 95 lbs. **CAT. NO. 17-603**

Head only, 17" Slo Speed Power Feed Drill Press. Includes No. 2 M.T. Spindle, No. 520 V-Belt, No. 49-126 V-Belt, No. 49-127 V-Belt, No. 1311 Motor Pulley, 3/4" bore, and guard for belts and pulleys. 172 lbs. **CAT. NO. 17-620**

Head only, 17" High Speed Power Feed Drill Press. Includes No. 2 M.T. Spindle, No. 501 V-Belt, No. 49-126 V-Belt, No. 49-127 V-Belt, No. 1312 Motor Pulley, 3/4" Bore, and guard for belts and pulleys. 172 lbs. **CAT. NO. 17-621**

Head only, 17" Slo Speed Power Feed Drill Press. Includes 1/2" key chuck Spindle, No. 520 V-Belt, No. 49-126 V-Belt, No. 49-127 V-Belt, 1311 Motor Pulley, 3/4" bore, and guard for belts and pulleys. 172 lbs. **CAT. NO. 17-622**

Head only, 17" High Speed Power Feed Drill Press. Includes 1/2" key chuck Spindle, No. 501 V-Belt, No. 49-126 V-Belt, No. 49-127 V-Belt, No. 1312 Motor Pulley, 3/4" bore, and guard for belts and pulleys. 172 lbs. **CAT. NO. 17-623**

Flange, for mounting column on table, with screws (not for floor type). 17 lbs. **CAT. NO. 1366**

Column, 3 1/2 x 62" for 17" Drill Press. 35 lbs. **CAT. NO. 1367**

Column, 3 1/2 x 38 1/2" for 17" Drill Press. 22 lbs. **CAT. NO. 1368**

Column, 3 1/2 x 77" for 17" Drill Press. 40 lbs. **CAT. NO. 17-369**

Raising Mechanism for head or table. Includes worm shaft, compound worm gear and pinion, crank handle, rack, thrust ball bearing and column collar. 15 lbs. **CAT. NO. 17-801**

Production table, one piece for 2 spindle set up. Ground work surface of 23 3/8 x 36". Fits No. 50-399 legs. 320 lbs. **CAT. NO. 1513**

Production table, 16 x 18" ground work surface for single spindle

bench model 17" drill presses. Does not fit No. 50-399 legs. 120 lbs. **CAT. NO. 1514**

Production table, one piece for 4 spindle set up. Ground work surface of 23 3/8 x 77". Fits No. 50-399 legs. 970 lbs. **CAT. NO. 1515**

Production table, center section, 23 3/8" front to rear x 30" left to right ground work surface with 1 1/2" coolant trough. 365 lbs. **CAT. NO. 1505**

Production table, end section, 23 3/8" front to rear x 32 1/2" left to right ground surface with 1 1/2" coolant trough and 3/4" pipe tap at end. 420 lbs. **CAT. NO. 1507**

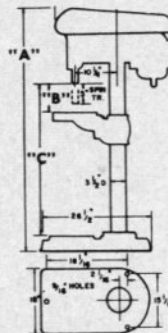
Floor Rest for multiple spindle drill press tables. Consists of 2 3/4" column, base and V-pad which adjusts from 27 1/2 to 29 1/2". Recommended to prevent table sag, especially for 4-spindle and longer machines. 15 lbs. **CAT. NO. 50-401**

Legs, steel, one pair, 27 1/2" high for mounting tables No. 1513 and No. 1515, also table sections No. 1505 and No. 1507 (see Page 23 for illustration). 96 lbs. **CAT. NO. 50-399**

Leg, steel, 27 1/2" high for mounting production tables and sections. Cannot be used with 14" Super-Hi drill press tables. 50 lbs. **CAT. NO. 50-506**

Riser Blocks, cast iron, one pair, 2" high with studs, nuts and lock washers for mounting under legs 50-399 and 50-506. One pair required for each single leg to raise machine 2". Two blocks can be stacked to raise machine 4". 8 lbs. **CAT. NO. 50-400**

Refer to Page 23 for IMPORTANT ordering data on tables and minimum center distances for columns.



17" Drill Press Dimensional Data

No. 2 Morse Taper Models and Key Chuck Models (Jaws Closed)	"A" Overall Height	"B" Chuck or Spindle to Table (Max.)	"C" Chuck or Spindle to Base (Max.)
Bench Type w/Production Table	49 3/8"	25 3/4"	—
Floor Type w/Tilt Table	70"	35"	45 3/4"
Floor Type w/Production Table	70"	33 1/2"	45 3/4"

These Many Accessories Make Delta Drill

*ACCESSORIES FOR ALL DELTA DRILL PRESSES

HANDY, QUICK-SET VISES

For drill presses, grinders or bench work. 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.

JAW	OPENING	LENGTH	SHIP WT.	CAT. NO.
1½ x 1"	1¾"	4¾"	5 lbs.	†1024
1½ x 1"	1¾"	4¾"	6½ lbs.	1025
2½ x 1¾"	2½"	6¼"	10 lbs.	1026

†No. 1024 same as No. 1025 but without raising feature.

UNIVISE

A truly universal vise for drilling, grinding, milling, other operations. See P. 34 for illustration and complete description. 16 lbs. CAT. NO. 24-902

ACCESSORIES FOR 20", 17", 15" AND 14" (UTILITY) DRILL PRESSES

DRILL CHUCK

3-jaw type, 0 to ½" capacity, with No. 2 M.T. shank. Includes chuck key. 2½ lbs. CAT. NO. 968

AUXILIARY SHAFT

½ x 2½" with milled flat entire length. For mounting sanding drums or any set screw mounted accessory with ½" hole. CAT. NO. 11-834

MORTISING CHISELS

Production type. Made of selected steel. Shank of chisel is ⅝ x 1¼".

¼ x ¼", mortises 1⅞" deep. CAT. NO. 504

5/16 x 5/16", mortises 1⅞" deep. CAT. NO. 505

⅜ x ⅜", mortises 3" deep. CAT. NO. 506

½ x ½", mortises 3" deep. CAT. NO. 508

MORTISING CHISEL BITS

Of selected steel. Bit operates inside chisel. For 14" Utility Drill Press only. See P. 18 for proper bushing for each bit to fit No. 974 Spindle.

¼" bit x 3/16" dia. shank. CAT. NO. 514

5/16" bit x ¼" dia. shank. CAT. NO. 515

⅜" bit x 19/64" dia. shank. CAT. NO. 516

½" bit x 19/64" dia. shank. CAT. NO. 518

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.

¼" CAT. NO. 804 7/16" CAT. NO. 807 ⅝" CAT. NO. 810

5/16" CAT. NO. 805 ½" CAT. NO. 808 ¾" CAT. NO. 812

⅜" CAT. NO. 806 9/16" CAT. NO. 809

Complete set of 8 machine spur bits. CAT. NO. 818

PLUG CUTTERS

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

⅜" dia. CAT. NO. 814 ⅝" dia. CAT. NO. 816 1" dia. CAT. NO. 819

½" dia. CAT. NO. 815 ¾" dia. CAT. NO. 817

Complete set of 5 plug cutters. 2½ lbs. CAT. NO. 822

SANDING DRUMS AND ABRASIVE SLEEVES FOR INSIDE AND CURVED SANDING 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.

Drum 3" dia. x 3", with one sleeve. Fits ½" dia. shaft. 2 lbs. CAT. NO. 830

Sleeves, ½ doz., 3 x 3". 40 grit coarse garnet. ½ lb. CAT. NO. 831

Sleeves, ½ doz., 3 x 3". 60 grit medium garnet. ½ lb. CAT. NO. 832

Sleeves, ½ doz., 3 x 3". 80 grit al. ox. (for metal). ½ lb. CAT. NO. 833

Drum, 1¾" dia. x 2", with one sleeve. Fits ½" dia. shaft. 1¾ lbs. CAT. NO. 835

Sleeves, ½ doz., 1¾ x 2". 40 grit med. garnet. ¼ lb. CAT. NO. 836

Sleeves, ½ doz., 1¾ x 2". 60 grit fine garnet. ¼ lb. CAT. NO. 837

Sleeves, ½ doz., 1¾ x 2". 80 grit al. oxide (for metal). ¼ lb. CAT. NO. 838

Drum, 11/16" dia. x 2½", with one sleeve. With ½" shank to fit hollow spindle or chuck. 8 oz. CAT. NO. 840

Sleeves, ½ doz., 11/16 x 2½". 50 grit med. garnet. ½ lb. CAT. NO. 841

Sleeves, ½ doz., 11/16 x 2½". 80 grit fine garnet. ½ lb. CAT. NO. 842

Sleeves, ½ doz., 11/16 x 2½". 50 grit al. oxide (for metal). ½ lb. CAT. NO. 847

NARROW SANDING DRUMS AND SLEEVES

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

Drum, 1½" dia. x 1", with one sleeve, 5/16" shank. ½ lb. CAT. NO. 679

Sleeves, ½ doz., 1½ x 1". 40 grit al. oxide. ¼ lb. CAT. NO. 682

Sleeves, ½ doz., 1½ x 1". 80 grit al. oxide. ¼ lb. CAT. NO. 683

Drum, 2-3/16" dia. x 1", with one sleeve. 5/16" shank. ½ lb. CAT. NO. 680

Sleeves, ½ doz., 2-3/16 x 1". 40 grit al. oxide. ¼ lb. CAT. NO. 684

Sleeves, ½ doz., 2-3/16 x 1". 80 grit al. oxide. ¼ lb. CAT. NO. 685

Drum, 3" dia. x 1", with one sleeve, 5/16" shank. ¾ lb. CAT. NO. 681

Sleeves, ½ doz., 3 x 1". 40 grit al. oxide. ½ lb. CAT. NO. 686

Sleeves, ½ doz., 3 x 1". 80 grit al. oxide. ½ lb. CAT. NO. 687

ACCESSORIES FOR 20" DRILL PRESS

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 No. 20-661 Raising Mechanism. For single spindle floor model drill press. 115 lbs. CAT. NO. 20-660

PRODUCTION TABLE

15 x 18" ground work surface with 4 diagonal and 2 parallel blind T-slots for ½" bolts. Without No. 20-661 Raising Mechanism. For single spindle floor model drill presses. 125 lbs. CAT. NO. 20-650

RAISING MECHANISM

For head or table of 20" Drill Press. Fits Tables Nos. 20-660 and 20-650. Includes ball bearing thrust collar, rack, gear assembly and crank. 20 lbs. CAT. NO. 20-661

MORTISING ATTACHMENT

Use with No. 968 Drill Chuck in 20" Drill Presses with No. 2 M.T. spindle only. Includes fence with mounting bolts, two hooked rods, adjustable hold-down and chisel holder. 16 lbs. CAT. NO. 20-640

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. 2½ lbs. CAT. NO. 17-820

SLO-SPEED ATTACHMENTS

Provide extra slow speed operation for spot-facing, reaming, counterboring, core drilling, etc. A train of accurately machined, heat-treated, double reduction gears eliminates chatter and slippage and gives positive, smooth operation. Provides an additional 5 speeds with ratio of input to output of 4.7 to 1 rpm. Speed range with 1140 rpm motor—70 to 1700 rpm and with 1725 rpm motor—105 to 2600 rpm. Spindle travel with this attachment is 4-15/16". Attachments 20-630 and 20-631 decrease the spindle nose to table dimension by 7½"; the 20-632 and 20-633, by 8".

Slo-Speed Attachment with No. 2 M.T. spindle and No. 2 M.T. drive pinion. 11 lbs. CAT. NO. 20-630

Slo-Speed Attachment with No. 2 M.T. spindle and No. 3 M.T. drive pinion. 11 lbs. CAT. NO. 20-631

Slo-Speed Attachment with No. 3 M.T. spindle and No. 2 M.T. drive pinion. 11 lbs. CAT. NO. 20-632

Slo-Speed Attachment with No. 3 M.T. spindle and No. 3 M.T. drive pinion. 12 lbs. CAT. NO. 20-633

QUILL ASSEMBLIES

Used to change any No. 3 M.T. spindle model to No. 2 M.T. spindle. Consists of quill with No. 2 M.T. spindle, assembled with collar, ball bearings and flinger collar. CAT. NO. 20-420

Used to change any No. 2 M.T. spindle model to No. 3 M.T. spindle. Consists of quill with No. 3 M.T. spindle, assembled with collar, ball bearings and flinger collar. CAT. NO. 20-430

MOTOR PULLEY

5-step. Specify ⅜, ¾, ⅞ or 1" bore. 3½ lbs. CAT. NO. 49-235

*See page 19 for coolant equipment



QUICK SET VISE

UNIVISE

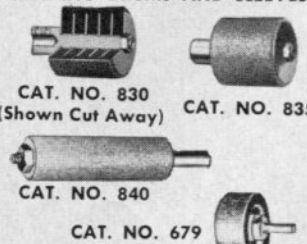


MORTISING CHISEL

MACHINE SPUR BIT

PLUG CUTTER

SANDING DRUMS AND SLEEVES



CAT. NO. 830 (Shown Cut Away) CAT. NO. 835

CAT. NO. 840

CAT. NO. 679

CAT. NOS. 11-806, 982, and 983



CAT. NO. 980

Presses The Most Versatile In The World . . .

V-BELTS

Standard (steel reinforced), 62-13/32" O.C. 3/4 lb. CAT. NO. 49-108
 Upper, for Power Feed, 29" O.C. 1/2 lb. CAT. NO. 49-101
 Lower, for Power Feed, 24" O.C. 1/2 lb. CAT. NO. 49-102
 For New Power Feed and New Speed Reduction Spindle Pulleys, see Pages 6 and 7.

ACCESSORIES FOR 17" DRILL PRESS

PRODUCTION TABLE

12 1/2 x 17" ground work surface, to fit standard bracket on floor type 17" Drill Press. Tilts 17° right and left. 66 lbs. CAT. NO. 1372

RAISING MECHANISM

For head or table. Includes worm shaft, compound worm gear and pinion, crank handle, rack, thrust ball bearing and column collar. 15 lbs. CAT. NO. 17-801

FOOT FEED

For floor type single spindle model. 34 lbs. CAT. NO. 1371

PILOT WHEEL

3-spoke type with handle knobs. 4 lbs. CAT. NO. 969

POWER FEED ATTACHMENT

Used to convert any Delta New Style 17" Hand Feed Drill Press or Head to Power Feed. (Cannot be used with old style heads. Heads lacking front opening for push button switch are old style.) Consists of power feed mechanism, jack shaft assembly with pulleys, idler pulley assembly, stop rod assembly, pinion shaft, quill collar and guide for stop rod, No. 49-126 and No. 49-127 V-belts. Includes instructions for field mounting. 46 lbs. CAT. NO. 17-800

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 1725 rpm motors: 80 to 2240 rpm with slo-speed models; 150 to 4250 rpm with high-speed models. Spindle travel with this attachment is 4". 11 lbs. CAT. NO. 17-860

SPINDLE

No. 3 M.T., with bearings. Includes instructions for installing on Delta 17" Drill Press. 2 lbs. CAT. NO. 17-880

DRILL CHUCK

3-jaw type, 0-1/2" 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. 2 1/2 lbs. CAT. NO. 17-820

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 1/2", from ends of hooked rods to fence—2 1/2". Foot feed No. 1371 recommended for mortising. 15 lbs. CAT. NO. 1381

LAMP ATTACHMENT

Uses standard 15 or 25-watt bulb. Includes mounting bracket, shade, socket and 115 V 8-foot cord. 1 1/2 lbs. CAT. NO. 882

MOTOR PULLEYS

5-step, for slo-speed. Specify 1/2, 3/8, 3/4 or 7/8" bore. 3 lbs. CAT. NO. 1311
 5-step, for high speed. Specify 1/2, 3/8, 3/4 or 7/8" bore. 3 lbs. CAT. NO. 1312

SPEED CHANGEOVER PARTS

Parts for converting drill press from Slo-Speed to High Speed model. Consists of high speed pulleys and No. 501 Belt. 7 lbs. CAT. NO. 1391
 Parts for converting drill press from High Speed to Slo-Speed model. Consists of slo-speed pulleys and No. 520 Belt. 10 lbs. CAT. NO. 17-862

V BELTS

V-belt, 51 5/8" O.C., for High Speed model. 1/2 lb. CAT. NO. 501
 V-belt, 54 1/8" O.C., for Slo-Speed model. 1/2 lb. CAT. NO. 520
 V-belt, 28" O.C., for Power Feed model (old style). 1/2 lb. CAT. NO. 49-103
 V-belt, 23" O.C., used to drive power feed jack shaft. 1/2 lb. CAT. NO. 49-126
 V-belt, 19 1/2" O.C., used to drive power feed gear box. 1/2 lb. CAT. NO. 49-127

ACCESSORIES FOR 15" AND 14" (UTILITY) DRILL PRESSES

SHAPER ACCESSORIES

Convert your drill press to an efficient shaping machine. When shaping on the 15" Drill Press, use No. 15-836 Adapter for cutters with 1/2" hole or No. 15-837 Adapter plus No. 978 Adapter for cutters with 5/16" hole.

When shaping on the 14" Drill Press, use No. 977 Spindle Adapter only or No. 974 Spindle with No. 978 Adapter for cutters with 5/16" hole.

Cutters with 1/2" hole not recommended for 14" Drill Press

3-Lip Shaper Cutters and Shaper Collars, with 1/2" hole, and 3-Knife Safety Cutterhead, with Moulding Cutter Knives, may be used with the 15" Drill Press in addition to the 3-Lip Cutters with 3/16" hole, on Page 17. Stub Spindle No. 1345 does not fit the 15" Drill Press. See Page 81 for 3-Lip Shaper Cutters, Collars and No. 1343 Safety Cutterhead. See Page 61 for Moulding Cutter Knives.

TABLE

17-13/16 x 23-13/16", 3/4" thick with bracket for mounting Shaper Ring Guard No. 43-817. Especially useful for shaping, routing and other wood-working jobs. 15 lbs. CAT. NO. 11-806

SAFETY RING GUARD AND HOLD-DOWN

With mounting bracket. A must for free-hand shaping. Mounts from underside of No. 11-806 table. 8 lbs. CAT. NO. 43-817

ADAPTER

With nut. For 5/16" hole cutters. Fits No. 974 Spindle or No. 15-837 Adapter. 1/2 lb. CAT. NO. 978

DEPTH COLLARS

All are 1/4" thick with 5/16" hole. O.D.—9/16", 5/8", 3/4", 13/16", 7/8" and 15/16". Set of six, complete. 1/2 lb. CAT. NO. 979

FENCE

Fully adjustable with each half independently adjustable endwise so opening may be made small as possible to fit the work. 12 lbs. CAT. NO. 982

HOLD-DOWNS

Accommodate work up to 3 1/2" thick. Mounts on No. 982 Fence. Set of spring hold-downs with straight and bent posts, two springs, two spring brackets and one post bracket. 2 lbs. CAT. NO. 983

SET OF 24 3-LIP SHAPER CUTTERS

With 5/16" hole. Includes No. 978 Adapter and No. 979 Set of Depth Collars in wooden case. 2 lbs. CAT. NO. 980

ROUTER BITS

For routing, round end mortising and grooving. 1/2 x 1 1/2" shank. Use with No. 974 Spindle for 14" Utility Drill Press or No. 15-837 Adapter for 15" Drill Press.

1/4" dia. CAT. NO. 474 3/8" dia. CAT. NO. 476 1/2" dia. CAT. NO. 478
 5/16" dia. CAT. NO. 475 7/16" dia. CAT. NO. 477
 Complete set of 5 router bits. 2 lbs. CAT. NO. 480

CUP GRINDING WHEEL

3 1/2 x 1 1/2" with 1/2" hole. Aluminum oxide, 60 grit, Grade K. 2 lbs. CAT. NO. 992

MOTOR PULLEY

4-step. Specify 1/2, 3/8 or 3/4" bore. 2 lbs. CAT. NO. 985

COLLAR

Head or table support. For 2 3/4" dia. column. 2 lbs. CAT. NO. 1010

PRODUCTION TABLE

12 x 18" ground work surface for single spindle floor model drill presses (without No. 1008 Raising Mechanism). 64 lbs. CAT. NO. 15-850

RAISING MECHANISM

For No. 15-850 Production Table. Includes rack, collar and bearing. 9 lbs. CAT. NO. 1008

LAMP ATTACHMENT

Uses standard 15 or 25-watt bulb. Includes mounting bracket, shade, socket and 115 V 8-foot cord. 1 1/2 lbs. CAT. NO. 882

ACCESSORIES FOR 15" DRILL PRESS

DRILL CHUCK

Key Chuck, 0-1/2" capacity, 3-jaw type, with threaded mounting collar and key. 1 1/2 lbs. CAT. NO. 15-830

SPINDLE ADAPTERS

Adapter with No. 1 M.T. hole, with threaded mounting collar. 2 lbs. CAT. NO. 15-832
 Adapter with No. 2 M.T. hole, with threaded mounting collar. 2 lbs. CAT. NO. 15-833

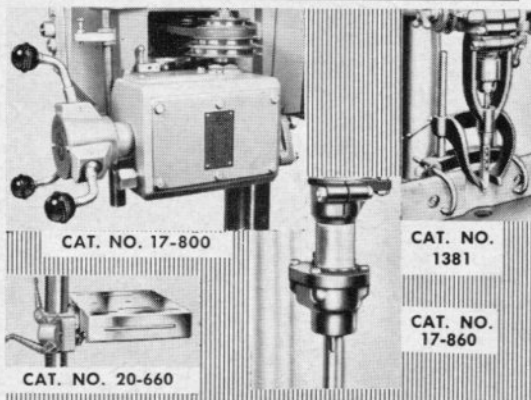
FOR ADDITIONAL DRILL PRESS ACCESSORIES, SEE P. 18.

3 LIP SHAPER CUTTERS (5/16" hole)

No.	Dia.	Width	Radius	Max. Depth of Cut
Concave				
D-1	61/64"	11/64"	1/8"	3/16"
D-2	61/64"	17/64"	3/16"	3/16"
D-3	61/64"	23/64"	1/4"	3/16"
D-4	61/64"	7/16"	5/16"	3/16"
Convex				
D-10	1-1/64"	11/64"	1/8"	15/64"
D-11	1-1/16"	17/64"	3/16"	1/4"
D-12	1-3/32"	23/64"	1/4"	17/64"
D-13	1-1/8"	7/16"	5/16"	17/64"
Corner Bead				
D-20	1"	7/32"	1/8"	7/32"
D-21	1-1/32"	7/16"	1/4"	15/64"
Spindle Bead				
D-30	1-3/16"	9/32"	1/8"	5/16"
D-31	1-15/64"	11/32"	5/32"	11/32"

Code	Surface Bead	Round Fluting	Straight Face	V-Fluting	Combination Quarter Round
D-40	1-3/32" 19/64"	3/32"	17/64"		
D-41	1-5/32" 25/64"	1/8"	19/64"		
D-50		1-1/8" 3/16"	3/32"	9/32"	
D-51		1-1/8" 17/64"	1/8"	5/16"	
D-60		61/64" 1/8"		3/16"	
D-61		61/64" 5/32"		3/16"	
D-62		61/64" 3/16"		3/16"	
D-63		61/64" 1/4"		3/16"	
D-69		1-1/4" 1"		11/32"	
D-70		1-1/8" 11/64"		9/32"	
D-71		1-7/32" 9/32"		21/64"	
D-80		1-1/4" 7/16"		1/8"	11/32"
					3/16"

Note: We cannot supply custom shapes.



CAT. NO. 17-800

CAT. NO. 1381

CAT. NO. 17-860

CAT. NO. 20-660

Your Drill Press Does Many Jobs With These Delta Accessories

Adapter with machined flange and threaded mounting collar for cup grinding wheels. 1 lb. **CAT. NO. 15-835**

Adapter with collars and threaded mounting collar for shaper cutters with 1/2" hole. 1 lb. **CAT. NO. 15-836**

Adapter, 1/2" hole, with threaded mounting collar for router and spur bits, etc. 1 lb. **CAT. NO. 15-837**

FOOT FEED

For floor type drill press with 62" column. Consists of foot pedal, rods, mounting brackets and spring. 44 lbs. **CAT. NO. 15-820**

MORTISING ATTACHMENT

This attachment converts the 15" Drill Press into an accurate mortising machine. Capacity under hold-down—4 3/4", from ends of hooked rods to fence—2 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 1/2 lbs. **CAT. NO. 15-840**

MULTI-SPEED ATTACHMENTS

Provide a wide range of speeds on both Slo and High Speed models. Especially recommended for jobs like spot facing, counterboring, reaming and core drilling. Multi-Speed Attachment for High Speed Drill Press. Twelve speeds from 275 to 9000 rpm (the 9000 rpm should be used only for occasional work due to the excessive wear on bearings). Includes adjustable mounting bracket for column, ball bearing cone pulley and two V-belts. 5 1/2 lbs. **CAT. NO. 15-815**

Multi-Speed Attachment for Slo-Speed Drill Press. Twelve speeds, 185 to 4825 rpm. Includes adjustable mounting bracket for column, ball bearing cone pulley and two V-belts. 5 1/2 lbs. **CAT. NO. 15-816**

SPEED CHANGEOVER PARTS

Parts for converting drill press from Slo-Speed to High Speed model. Consists of No. 49-168 Belt and High Speed Spindle Pulley. 3 lbs. **CAT. NO. 15-817**

Parts for converting drill press from High Speed to Slo-Speed model. Consists of No. 49-167 Belt and Slo-Speed Spindle Pulley. 2 1/2 lbs. **CAT. NO. 15-818**

V-BELTS

Standard V-Belt, 41 1/8" O.C., for High Speed 15" Drill Press. 1/2 lb. **CAT. NO. 49-168**

Standard V-Belt, 45 1/8" O.C., for Slo-Speed 15" Drill Press. 1/2 lb. **CAT. NO. 49-167**

V-Belt, 25 1/8" O.C., for motor pulley of Multi-Speed Attachments Nos. 15-815 and 15-816. 1/2 lb. **CAT. NO. 271**

V-Belt, 28 1/8" O.C., for spindle pulley of Multi-Speed Attachment No. 15-815. 1/2 lb. **CAT. NO. 272**

V-Belt, 32 1/8" O.C., for spindle pulley of Multi-Speed Attachment No. 15-816. 1/2 lb. **CAT. NO. 273**

ACCESSORIES FOR 14" UTILITY DRILL PRESS

INTERCHANGEABLE SPINDLES

One of the many outstanding advantages of the 14" drill press is the fact that the spindles are readily interchangeable. This enables you to select the right spindle for the job, increasing the application of your machine. This also means you can keep work up close to the bearings for greater accuracy. All chucks balanced for high speed work. Spindles have deep splines to insure balance and long wear.

Spindle with chuck and key. 0 to 1/2" capacity. 3 1/2 lbs. **CAT. NO. 972**

Spindle with #1 Morse Taper hole. 2 lbs. **CAT. NO. 973**

Spindle with #2 Morse Taper hole. 2 lbs. **CAT. NO. 975**

Spindle with flanges for cup grinding wheels. 2 lbs. **CAT. NO. 991**

Spindle with 5/16" dia. extension for shaper cutters with 5/16" hole. 2 lbs. **CAT. NO. 977**

Spindle for woodworking with 1/2" hole, for router and spur bits, etc. 2 1/2 lbs. **CAT. NO. 974**

FOOT FEED

For floor type 14" Drill Press with 62" column. Consists of foot pedal, rods and mounting brackets. 38 lbs. **CAT. NO. 14-820**

MORTISING ATTACHMENT

Capacity under hold-down—4 3/4", from ends of hooked rods to fence—2 3/4". Consists of fence, two hooked rods, adjustable hold-down, chisel

holder and three bushings for mortising bits (hole in bushings—3/16", 1/4" and 9/64"). Requires the use of No. 974 Spindle. Foot Feed No. 14-820 recommended for mortising. 7 lbs. **CAT. NO. 976**

MORTISING CHISELS — HOMECRAFT TYPE

Bit operates inside of chisel. Shank of chisel is 5/8 x 1 1/2".

1/4 x 1/4", mortises 1 7/8" deep. **CAT. NO. 634**

3/8 x 3/8", mortises 2 3/4" deep. **CAT. NO. 636**

1/2 x 1/2", mortises 3 1/4" deep. **CAT. NO. 638**

BUSHINGS FOR MORTISING

Included with No. 976 Mortising Attachment. For clamping mortising bits in No. 974 Spindle. No. 526 used with Nos. 516 and 518 Mortising Chisel Bits.

With 3/16" hole. **CAT. NO. 524** With 1/4" hole. **CAT. NO. 525**

With 19/64" hole. **CAT. NO. 526**

AUGER BITS — HOMECRAFT TYPE

Have brad point and two cutting spur lips. Approximately 6" long overall with 1/4" shank for Nos. 11-811, 11-812, 11-813, 11-814 and 11-815 and 1/2" shank for Nos. 11-817 and 11-818. Weight per set, 3 lbs.

1/4" **CAT. NO. 11-811** 5/16" **CAT. NO. 11-812** 3/8" **CAT. NO. 11-813**

7/16" **CAT. NO. 11-814** 1/2" **CAT. NO. 11-815** 5/8" **CAT. NO. 11-817**

3/4" **CAT. NO. 11-818** Complete set of 7 auger bits. **CAT. NO. 11-821**

MULTI-SPEED ATTACHMENTS

Provide a wide range of speeds on both Slo and High Speed models.

Multi-Speed Attachment for High Speed Drill Presses. 12 speeds from 275 to 10,800 rpm (the 10,800 rpm should be used only for occasional work due to excessive wear on bearings). Includes adjustable mounting bracket for column, ball bearing cone pulley and two V-belts. 5 1/2 lbs. **CAT. NO. 14-815**

Multi-Speed Attachment for Slo-Speed Drill Presses. 12 speeds from 185 to 4,825 rpm. Includes adjustable mounting bracket for column, ball bearing cone pulley and two V-belts. 5 1/2 lbs. **CAT. NO. 14-816**

SPEED CHANGEOVER PARTS

Parts for converting drill press from Slo-Speed to High Speed model. Consists of No. 387 Belt and DP-265-U High Speed Spindle Pulley Assembly. 13 lbs. **CAT. NO. 14-817**

Parts for converting drill press from High Speed to Slo-Speed model. Consists of No. 430 Belt and DP-283-T Slo-Speed Spindle Pulley Assembly. 13 lbs. **CAT. NO. 1290**

V-BELTS

Standard V-Belt, 40 1/2" O.C., for High Speed model. 1 lb. **CAT. NO. 387**

Standard V-Belt, 44 1/8" O.C., for Slo-Speed model. 1 lb. **CAT. NO. 430**

V-Belt, 25 1/8" O.C., for motor pulley of Multi-Speed Attachments No. 14-815 and No. 14-816. 1/2 lb. **CAT. NO. 271**

V-Belt, 27 1/8" O.C., for spindle pulley of Multi-Speed Attachment No. 14-815. 1/2 lb. **CAT. NO. 49-170**

V-Belt, 31 1/8" O.C., for spindle pulley of Multi-Speed Attachment No. 14-816. 1/2 lb. **CAT. NO. 287**

PILOT WHEEL

3-spoke type with handle knobs. 4 lbs. **CAT. NO. 969**

TILTING TABLE

With Column bracket, complete. Ledges at sides and slots make clamping easy; holes on front edge facilitate mounting of fixtures. Tilt angle scale indicates to 90°, both right and left. Fits any 14" Drill Press with 2 3/4" dia. column. **CAT. NO. 14-800**

BELT AND PULLEY GUARD

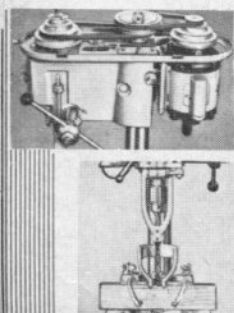
Same as supplied with 15" Drill Press. Encloses spindle pulley, V-belt and motor pulley. Includes pan, cover, hinges, mounting bolts, etc. **CAT. NO. 14-801**

UNIVERSAL HAND FEED

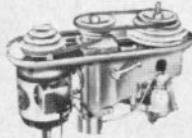
Has same features as hand feed for 15" Drill Press. Fits 14" Utility Model, old style 14" and No. 11-120 11" Drill Presses. Complete with special pinion shaft, hub, feed handle, handle balls and mounting instructions. **CAT. NO. 14-814**

DEPTH STOP ASSEMBLY

Deluxe Depth Stop Assembly — same as used on 15" Drill Press. Fits 14" Utility Model, old style 14", No. 11-130 11" Drill Presses. **CAT. NO. 14-810**

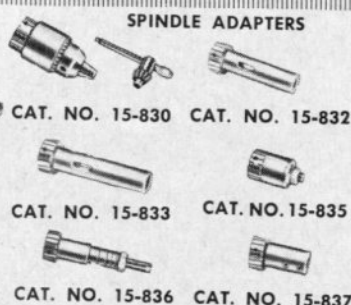


CAT. NO. 15-815



CAT. NO. 14-816

CAT. NO. 15-840

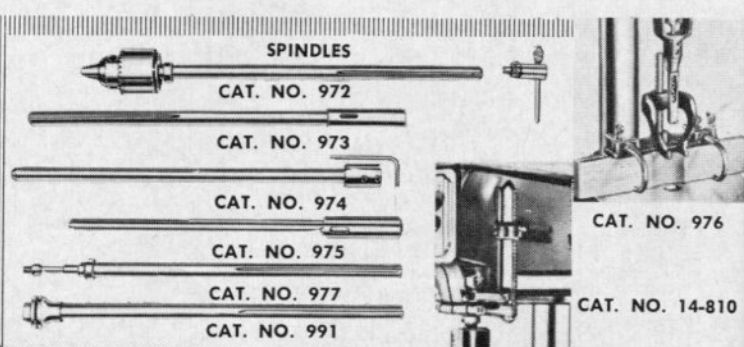


SPINDLE ADAPTERS

CAT. NO. 15-830 **CAT. NO. 15-832**

CAT. NO. 15-833 **CAT. NO. 15-835**

CAT. NO. 15-836 **CAT. NO. 15-837**



SPINDLES

CAT. NO. 972

CAT. NO. 973

CAT. NO. 974

CAT. NO. 975

CAT. NO. 977

CAT. NO. 991

CAT. NO. 976

CAT. NO. 14-810

Cut Costs with DELTA Coolant Equipment

ENGINEERED FOR DELTA DRILL PRESSES, CUT-OFF MACHINES AND METAL LATHES — HAS MANY OTHER APPLICATIONS

With Delta's Coolant Pump and Tank you get all these built-in 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.
- Large tank capacity—16 gallons—ample for most needs.
- Settling basin and wire mesh filter screen keep coolant free of chips.
- Single unit fits needs of single spindle drill press or multiple spindle unit up to eight spindles.

ACCESSORIES

Tank, 16-gal. capacity, 15⁷/₈ x 25⁷/₈ x 11" high, required with any of above pumps. 38 lbs. **CAT. NO. 49-618**

On-and-off toggle switch, 2-pole, 1¹/₂ HP, AC-DC, 125-250 V. Includes 115 V 8-foot cord, 3-prong grounding type plug, adapter and clamp. $\frac{3}{4}$ lb. **CAT. NO. 49-312**

On-and-off toggle switch, 2-pole, 1¹/₂ HP, AC-DC, 125-250 V. Includes 230 V 8-foot cord, 3-prong grounding type tandem plug and clamp. $\frac{3}{4}$ lb. **CAT. NO. 49-313**

Starter, manual, 3-phase. Provides overload protection. Specify coolant pump number and voltage. 6 lbs. **CAT. NO. 1320**

Coolant Flow in Gal. Per Min. with a 1725 R.P.M. Motor at 70°F.
(1425 R.P.M. Motor About 1/6 Less)

Head in feet	Pipe Dia.	COOLANT		
		Water and Sal-Soda Solution	Lard Oil	SAE 20 Machine Oil
Flow in Gal. Per Min.				
0	$\frac{3}{4}$ "	20	12	10
	1"	32	20	20
5	$\frac{3}{4}$ "	14	8	6
	1"	27	15	15
10	$\frac{3}{4}$ "	7	—	—
	1"	17	—	—

14 ft. Maximum Lift with water. Discharge for water and Sal-Soda solution applies to all solutions of similar viscosity and density. Higher viscosity and density, less flow.

catalog listing

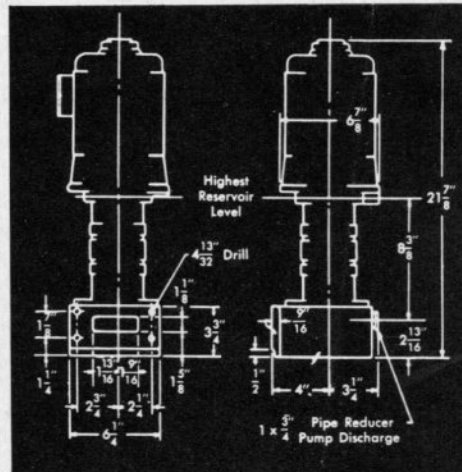
FOR SINGLE PHASE OPERATION

Coolant Pump complete with $\frac{1}{4}$ HP, 115 V, 60 cy, AC, 1725 rpm motor. 65 lbs. Order 49-618, 49-312 separately. **CAT. NO. 49-610**

Coolant Pump complete with $\frac{1}{4}$ HP, 230 V, 60 cy, AC, 1725 rpm motor. 65 lbs. Order 49-618, 49-313 separately. **CAT. NO. 49-611**

FOR 3 PHASE OPERATION

Coolant Pump complete with $\frac{1}{4}$ HP, 208-220/440 V, 50/60 cy, AC, 1425/1725 rpm motor. 65 lbs. Order 49-618, 1320 separately. **CAT. NO. 49-614**



COOLANT EQUIPMENT for 14", 15", 17", 20" and SUPER-HI DRILL PRESSES

Use Delta's popular coolant equipment to increase the efficiency of your drilling operation. It's suitable for use with both single and multiple spindle presses. When ordering the proper tank, pump and other accessories for your drilling set-up, remember to order a Coolant Parts Assembly for each head as follows:

Coolant Parts Assembly consisting of Nozzle, Valve, Column Mounting Clamp and Flexible Hose Assembly for providing coolant feed and connection to piping (coolant piping and table clamps not furnished). 3 lbs. **CAT. NO. 17-802**

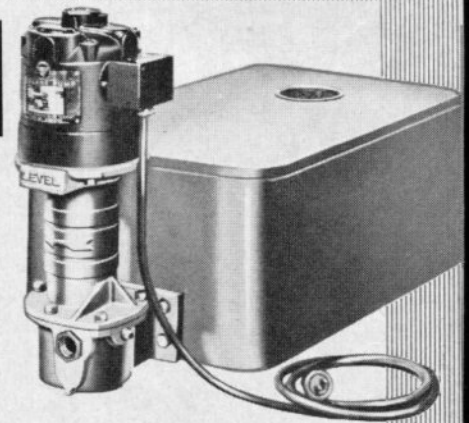
COOLANT EQUIPMENT for CUT-OFF MACHINES

The Coolant Pan, Pump and Tank can be ordered as original equipment with, or can be added to your Delta Cut-Off Machine for efficient wet abrasive cutting.

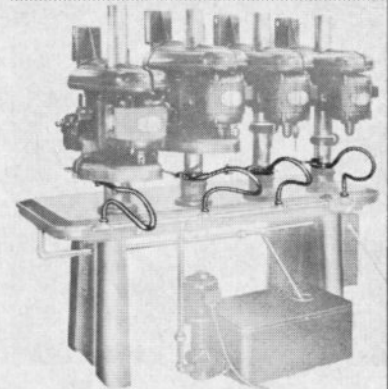
Order the proper pump, tank and accessories (see catalog listing above). Also order the rugged, cast iron Delta Coolant Pan. In addition to its rugged construction, this Coolant Pan fea-

tures 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. See catalog listing below.

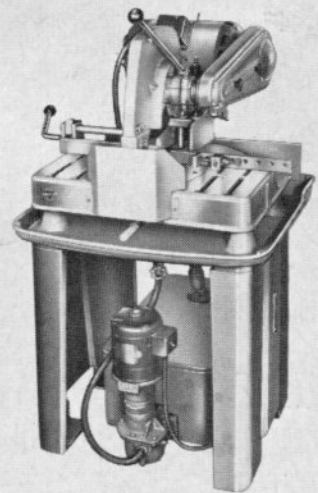
Coolant Pan complete with spray nozzle, splash control accessories, deflector plate and bracket. Piping, control valve and reducer from $\frac{3}{4}$ to $\frac{1}{2}$ " not furnished. 140 lbs. **CAT. NO. 20-840**



Coolant Pump With Cord, Switch and Tank.



4-Spindle Drill Press Shown With Coolant Equipment and Coolant Parts Assembly (CAT. NO. 17-802)



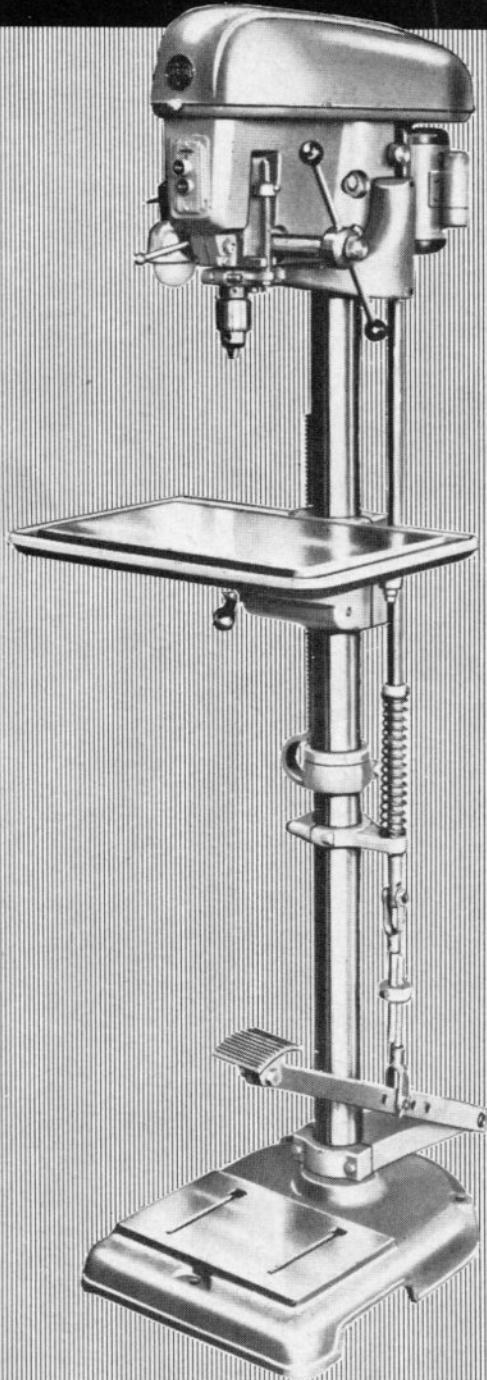
Cut-Off Machine Shown With Coolant Pan, Pump and Tank



Coolant Pan
CAT. NO.
20-840

new DELTA 15" DRILL PRESSES

single and multiple spindle



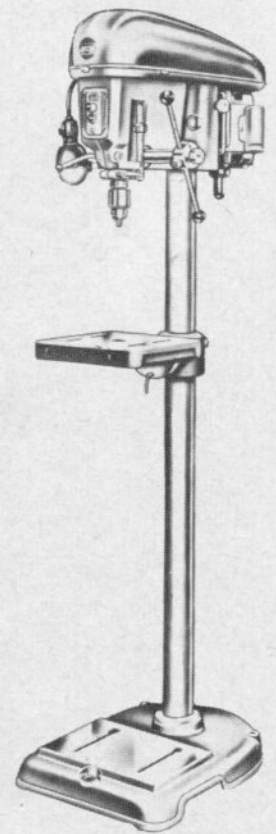
FLOOR MODEL

Equipped with production table and foot feed. Available with tilting table or production table, high or slow speed, 1/2" key chuck or No. 2 Morse Taper Spindle.

This new Delta 15" Drill Press leads the way in today's trend toward the use of accurate, flexible power tools to supplement and often replace custom tooling. It gives you the ruggedness and accuracy of heavier, far more expensive machines, yet, it is the most versatile drill press in the world.

You get this unmatched versatility because this press is backed by the world's *most complete* line of accessories. For instance, *only* Delta offers you six spindle adapters that enable everything from wood shaping to counterboring, reaming, milling, spot facing, tapping, surface grinding, buffing, routing, mortising, sanding, planing and plug cutting to be done on this one machine.

Choose the model that meets your needs from the most extensive 15" Drill Press line available today!



FLOOR MODEL

Equipped with tilting table. Available with tilting table or production table, high or slow speed, 1/2" key chuck or No. 2 Morse Taper Spindle.

specifications

Overall dimensions:

Bench Type

Height 37 1/2"; Width 13 3/8"; Front to rear 24 1/8"

Floor Type

Height 68 1/2"; Width (Standard Table) 15 1/2"; (Production Table) 21 1/2"

Front to rear 24 1/8"

Table working surface:

Tilting 10 x 10 1/2"; Production 12 x 18"

Base working surface:

Bench Type 9 x 10"; Floor Type 8 1/2 x 12"

Quill

Stroke 4 5/16"; Diameter 2"

Capacities:

Key Chuck 0-1/2"; Dia. Hole in Cast Iron 1/2"; Dia. Hole in Steel 3/8"

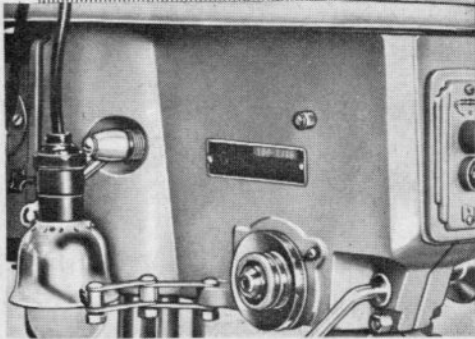
Spindle Speeds (with 1725 rpm Motor)

High Speed Model 680, 1250, 2400, 4600 rpm

Slow Speed Model 470, 780, 1300, 1950 rpm

Column Diameter 2 3/4"

ONLY the New DELTA 15" DRILL PRESS Offers All These Outstanding Features



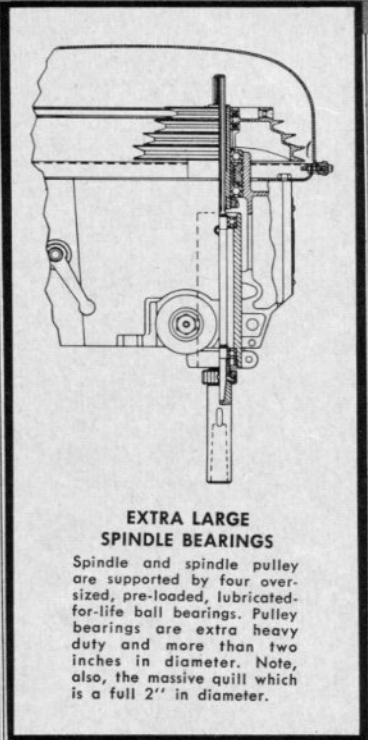
RUGGED HEAD CONSTRUCTION

The head of the new Delta 15" Drill Press is a massive one-piece casting. This superior construction assures rigidity and stamina for production-line operations where precision accuracy and long life are required.



SAFE PUSH BUTTON SWITCH

This accessory mounts in the front of the head, conveniently accessible to right or left hand of the operator. A protruding stop button and a shrouded start button prevent accidental starts and provide safest control for quick, emergency stops.

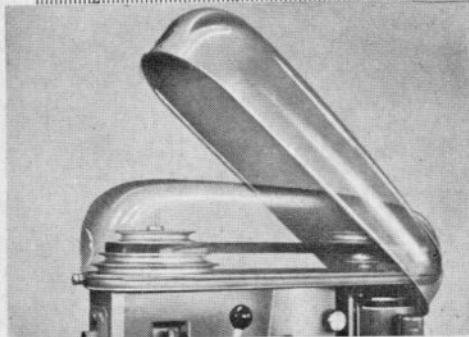
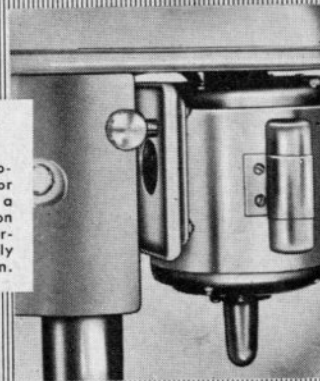


EXTRA LARGE SPINDLE BEARINGS

Spindle and spindle pulley are supported by four oversized, pre-loaded, lubricated-for-life ball bearings. Pulley bearings are extra heavy duty and more than two inches in diameter. Note, also, the massive quill which is a full 2" in diameter.

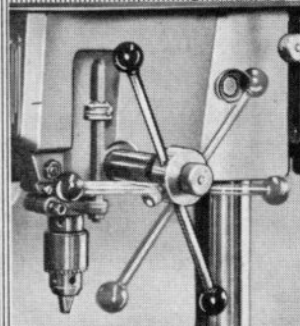
ADJUSTABLE MOTOR MOUNTING PLATE

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.



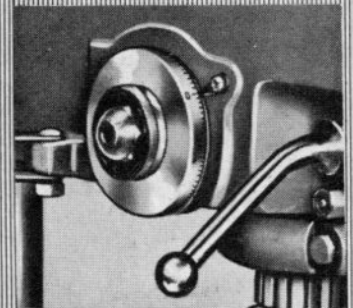
CONVENIENT BELT GUARD

Completely encloses pulleys and belt. Guard is hinged at the rear and counterbalanced to automatically stay open, permitting easy access to belt for speed changing.



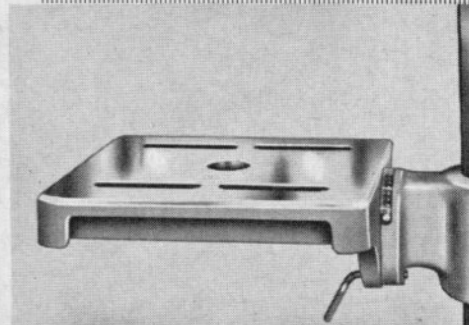
EXCLUSIVE UNIVERSAL HAND FEED

Only Delta combines the best features of the pilot wheel and single lever feeds with a unique Universal hand feed. This new feed permits positioning of the feed lever anywhere around a complete circle—less operator fatigue—freedom from striking table or fixtures—adjustable handle leverage for heavy drilling or light work—plus large handle balls for operator comfort and safety.



QUICK-SET DEPTH GAGE

Can be set to read from zero when drill contacts work, giving a direct reading as drill penetrates. Scale on depth gage is calibrated down to $\frac{1}{32}$ " and magnified more than two and one-half times for easy reading.



ADVANCED TABLE DESIGN

Slots and side ledges make clamping of work easy. Machined front apron has mounting holes. 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.

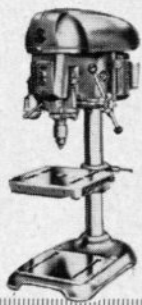
PLUS THESE ADVANCED-DESIGN EXTRAS

- Multiple-spline "floating" drive that provides positive torque transmission and exact spindle alignment, assuring less vibration, smooth operation and more power in the spindle.
- Precision ground spindle and dynamically balanced motor and spindle pulleys.
- Self-locking depth stop that can be set with one hand. Has an adjustable micrometer sleeve with zero start feature and calibrations showing changes down to .002".
- Worm screw adjustment feature that makes it easy to set the correct tension on the spindle return spring.
- Extra long columns for added capacity and operator comfort.
- Rubber cushion ring that absorbs shock between head and stop rod collar and between head and mortising chisel holder while lock feature firmly holds these parts on quill to guarantee proper adjustment.

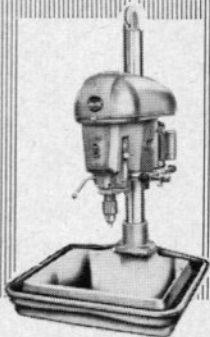
DELTA 15" DRILL PRESS

catalog listing

SINGLE SPINDLE MODELS



BENCH MODEL SHOWN WITH STANDARD TABLE



BENCH MODEL SHOWN WITH PRODUCTION TABLE

Standard Tilting Table — Bench Model	Standard Tilting Table — Floor Model	Production Table — Floor Model	Production Table — Bench Model — 14 x 16" Table
Slo-Speed #2 Morse Taper Spindle 15-005 Ship. Wt. 135	Slo-Speed #2 Morse Taper Spindle 15-205 Ship. Wt. 170	Slo-Speed *†#2 Morse Taper Spindle 15-210 Ship. Wt. 214	Slo-Speed ‡**#2 Morse Taper Spindle 15-305 Ship. Wt. 203
High Speed #2 Morse Taper Spindle 15-006 Ship. Wt. 135	High Speed #2 Morse Taper Spindle 15-206 Ship. Wt. 170	High Speed *†#2 Morse Taper Spindle 15-211 Ship. Wt. 214	High Speed ‡**#2 Morse Taper Spindle 15-306 Ship. Wt. 205
Slo-Speed ½" Key Chuck Spindle 15-007 Ship. Wt. 135	Slo-Speed ½" Key Chuck Spindle 15-207 Ship. Wt. 169	Slo-Speed *†½" Key Chuck Spindle 15-212 Ship. Wt. 209	Slo-Speed ‡**½" Key Chuck Spindle 15-307 Ship. Wt. 203
High Speed ½" Key Chuck Spindle 15-008 Ship. Wt. 135	High Speed ½" Key Chuck Spindle 15-208 Ship. Wt. 169	High Speed *†½" Key Chuck Spindle 15-213 Ship. Wt. 209	High Speed ‡**½" Key Chuck Spindle 15-308 Ship. Wt. 201

†Includes No. 1008 Table Raising Mechanism.

*1½" coolant trough with two ¾" pipe tap at rear
**1½" coolant trough with two ¾" pipe tap at rear
‡Counter balance for raising and lowering head is included.

Motor and motor controls not included with machine.
High speed models include No. 49-168 V-Belt and No. 985 motor pulley—½" bore
Slo-Speed models include No. 49-167 V-Belt and No. 985 motor pulley—½" bore

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

Motor, 1/3 HP, capacitor start, 115/230V, 60 cy, AC, 1725 rpm. Includes on-and-off switch, 115V 8-foot cord, 3-prong grounding type plug and adapter. 28 lbs. **CAT. NO. 62-110**

Motor, ½ HP, capacitor start, 115/230V, 60 cy, AC, 1725 rpm. Includes on-and-off switch, 115V 8-foot cord, 3-prong grounding type plug and adapter. 39 lbs. **CAT. NO. 62-680**

Push Button Switch. Includes 4-wire cable, wiring diagram and everything needed for use with No. 62-110 or No. 62-680 motor. Also may be used with DC motors. 1¼ lbs. **CAT. NO. 15-811**

Switch Rod. Includes mounting parts. Used with No. 62-110 or No. 62-680 motor, or Delta DC motors with toggle switches. Provides finger-tip control at low cost. 1 lb. **CAT. NO. 1331**

FOR 3 PHASE OPERATION

Motor, 1/3 HP, 208-220/440V, 50/60 cy, AC, 1425/1725 rpm. Without switch or power cord. 23 lbs. **CAT. NO. 66-120**

Motor, ½ HP, 208-220/440V, 50/60 cy, AC, 1425/1725 rpm. Without switch or power cord. 31 lbs. **CAT. NO. 66-340**

Switch, Overload. Used with No. 15-813 switch. Easy to mount with No. 49-318 mounting bracket. Specify motor number and voltage when ordering. 3 lbs. **CAT. NO. 49-365**

Starter, Magnetic. For 60 cy, 208-220V only. Provides low-voltage, no-voltage and overload protection. Used with No. 15-812 switch. Easy to mount with No. 49-318 mounting bracket. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-396**

Starter, Magnetic. For 60 cy, 440V only. Provides low-voltage, no-voltage and overload protection. Used with No. 15-812 switch. Easy to mount with No. 49-318 mounting bracket. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-397**

Push Button Magnetic Control Switch. Includes 3-wire cable, wiring diagram, and everything needed for use with motor No. 66-120 or No. 66-340 and magnetic starter Nos. 49-396 or 49-397. 1 lb. **CAT. NO. 15-812**

Push Button Manual Control Switch. Includes two 3-wire cables, wiring diagram, and everything needed for use with motors No. 66-120 or No. 66-340 and No. 49-365 overload switch. 1¾ lbs. **CAT. NO. 15-813**

Mounting Bracket for motor controls. Used with Nos. 1320, 49-365, 49-393, 49-394, 49-396 and 49-397. 3 lbs. **CAT. NO. 49-318**

WHAT CONTROLS TO ORDER

For 62-110 or 62-680 motor, single phase

- (115 or 230V) No. 15-811 only or
- (115 or 230V) No. 1331 only

For 66-120 or 66-340 motor, three phase*

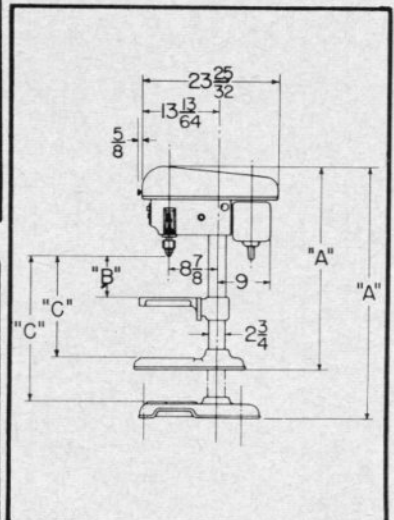
- A. Manual
- (208-220/440V) Nos. 49-365, 15-813, 49-318
- B. Magnetic
- (208-220V) Nos. 49-396, 15-812, 49-318 or
 - (440V) Nos. 49-397, 15-812, 49-318

*For Three Phase Motor No. 66-120 or No. 66-340, the Manual Starter No. 1320 or Magnetic Starters Nos. 49-393 or 49-394 may be used.

15" Drill Press Dimensional Data

½" Key Chuck Models	"A" Overall Height	"B" Chuck to Table (max.)	"C" Chuck to Base (max.)
Bench Type W/Tilt Table	37½"	10⅞"	16⅜"
Bench Type W/Production Table	44¼"	21¾"	—
Floor Type W/Tilt Table	68½"	41⅞"	46⅞"
Floor Type W/Production Table	68½"	36⅞"	46⅞"

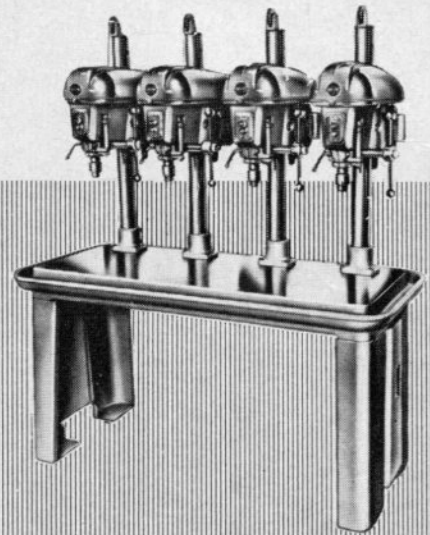
#2 Morse Taper Models	"A" Overall Height	"B" Spindle to Table (max.)	"C" Spindle to Base (max.)
Bench Type W/Tilt Table	37½"	9⅞"	15⅞"
Bench Type W/Production Table	44¼"	20⅞"	—
Floor Type W/Tilt Table	68½"	40¾"	45⅞"
Floor Type W/Production Table	68½"	35½"	45⅞"



DELTA 15" DRILL PRESS

catalog listing

MULTIPLE SPINDLE MODELS



No. of Spindles		Slo-Speed #2 Morse Taper Spindle	High Speed #2 Morse Taper Spindle	Slo-Speed 1/2" Key Chuck Spindle	High Speed 1/2" Key Chuck Spindle
2 spindle — 3/4" Pipe Tap at rear		15-405 Ship. Wt. 387	15-406 Ship. Wt. 387	15-407 Ship. Wt. 387	15-408 Ship. Wt. 387
3 spindle — 3/4" Pipe Tap at rear		15-410 Ship. Wt. 879	15-411 Ship. Wt. 879	15-412 Ship. Wt. 879	15-413 Ship. Wt. 879
4 spindle — 3/4" Pipe Tap at rear		15-415 Ship. Wt. 908	15-416 Ship. Wt. 908	15-417 Ship. Wt. 908	15-418 Ship. Wt. 908
5 spindle — Two 3/4" Pipe Taps at Ends		15-515 Ship. Wt. 1037	15-516 Ship. Wt. 1037	15-517 Ship. Wt. 1037	15-518 Ship. Wt. 1037
6 spindle — Two 3/4" Pipe Taps at Ends		15-520 Ship. Wt. 1366	15-521 Ship. Wt. 1366	15-522 Ship. Wt. 1366	15-523 Ship. Wt. 1366
8 spindle — Two 3/4" Pipe Taps at Ends		15-525 Ship. Wt. 1688	15-526 Ship. Wt. 1688	15-527 Ship. Wt. 1688	15-528 Ship. Wt. 1688

The 2, 3 and 4 spindle drill presses all have one piece tables. The 5, 6 and 8 spindle drill presses have sectional tables. Tables on multiple spindle units have 1 1/2" coolant trough. Working surface is 32" from the floor. Counterbalance for raising and lowering heads is included. Sectional table units with three sections have three steel legs — all other multiple spindle units have two legs. Motors and motor controls not included with machine.

High speed models include No. 49-168 V-Belt and No. 985 Motor pulley—1/2" bore
Slo-speed models include No. 49-167 V-Belt and No. 985 Motor pulley—1/2" bore

Spindle to table maximum with No. 2 Morse Taper Spindle.....20 13/16"
Spindle to table maximum with 1/2" Key Chuck Spindle.....21 3/4"

SPECIAL MACHINES CAN BE MADE WITH THESE DELTA DRILL PRESS COMPONENTS

Head, for 15" High-Speed drill press, with 1/2" Key Chuck, No. 49-168 V-Belt and No. 985 Motor Pulley, 1/2" bore. 66 lbs.

CAT. NO. 15-220

Head, for 15" Slo-Speed drill press, with 1/2" Key Chuck, No. 49-167 V-Belt and No. 985 Motor Pulley, 1/2" bore. 67 lbs.

CAT. NO. 15-223

Head, for 15" High-Speed drill press, with No. 2 Morse Taper Spindle, No. 49-168 V-Belt and No. 985 Motor Pulley, 1/2" bore. 65 lbs.

CAT. NO. 15-221

Head, for 15" Slo-Speed drill press, with No. 2 Morse Taper Spindle, No. 49-167 V-Belt and No. 985 Motor Pulley, 1/2" bore. 68 lbs.

CAT. NO. 15-222

Column, 2 3/4 x 31" for 14 and 15" Drill Presses. 12 lbs.

CAT. NO. 14-839

Column, 2 3/4 x 36 3/4", for 14 and 15" Drill Presses. 13 lbs.

CAT. NO. 1020

Column, 2 3/4 x 62", for 14 and 15" Drill Presses. 20 lbs.

CAT. NO. 15-827

Collar, head or table support, for column. 2 lbs.

CAT. NO. 1010

Flange, for mounting column on table, with screws. 10 lbs.

CAT. NO. 1019

Counterbalance, complete assembly includes spring, chain, column top casting, ball bearing roller and screws. Cannot be used with columns shorter than 36 3/4". 8 lbs.

CAT. NO. 1030

*Production Table, 14 x 16" ground work surface, for single spindle bench models. This table cannot be mounted on No. 50-399 Legs. 110 lbs.

CAT. NO. 1516

*Production Table, 19 3/8 x 28" ground work surface, for two spindle models. For bench or floor models, fits No. 50-399 Legs. 225 lbs.

CAT. NO. 1517

*Production Table, 21 1/4 x 51" ground work surface, for three or four spindle models. For bench or floor models, fits No. 50-399 Legs. 460 lbs.

CAT. NO. 1519

Production Table, center section, 23 3/8" front to rear x 30" left to right ground work surface with 1 1/2" coolant trough. 365 lbs.

CAT. NO. 1505

Production Table, end section, 23 3/8" front to rear x 32 1/2" left to right ground work surface with 1 1/2" coolant trough and 3/4" pipe tap at end. 420 lbs.

CAT. NO. 1507



CAT. NO. 50-399

CAT. NO. 50-401

CAT. NO. 50-400

CAT. NO. 1507

Floor Rest for Multiple Spindle Drill Press Tables. Consists of a 2 3/4" steel column, base with holes for lagging to floor, and V-pad for supporting rib of table. Screw type jack feature permits adjusting height of pad from 27 1/2 to 29 1/2 inches. Recommended for all 15", 17" and 20" Multiple Spindle Drill Presses, especially four spindle and larger, or where heavy work pieces may cause table sag. 15 lbs.

CAT. NO. 50-401

Sturdy table center and end sections with accurately ground work surfaces can be used for multiple spindle drill presses or machines. On these sections any type of 17" or 15" head can be easily installed and on centers which meet your individual needs. This means that the maximum amount of flexibility is assured—you can have all 17" or 15" heads on one machine or a combination of both—you can have them spaced at any distance you desire—close together or far apart. Minimum center to center distances for columns are: Super Hi-Speed 14"....9"; Standard 14"....12"; 15"....12"; 17"....15"; Power Feed 17"....18"; 20"....13"; Power Feed 20"....15"

IMPORTANT . . . Give these specifications with order: (1) number of drill press heads needed, (2) if 15, 17 or 20" heads, (3) spacing between heads, (4) if table is to be completely assembled, (5) if table should be drilled and tapped for mounting flanges.

Leg, steel, 27 1/2" high for mounting production tables. Cannot be used with 14" Super-Hi drill press tables. 50 lbs.

CAT. NO. 50-506

Legs, steel, one pair, 27 1/2" high for mounting production tables. Cannot be used with 14" Super-Hi drill press tables. 96 lbs.

CAT. NO. 50-399

Riser Blocks, cast iron, one pair, 2" high with studs, nuts and lock washers for mounting under legs 50-399 and 50-506. Do not fit cast iron legs. One pair required for each single leg to raise machine 2". Two blocks can be stacked to raise machine 4". 8 lbs.

CAT. NO. 50-400

*These tables can be supplied blank or drilled and tapped for Delta mounting flange No. 1019.

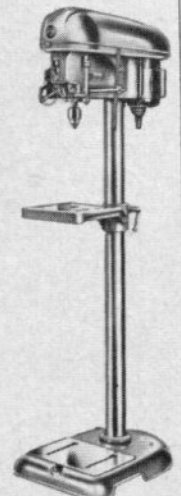
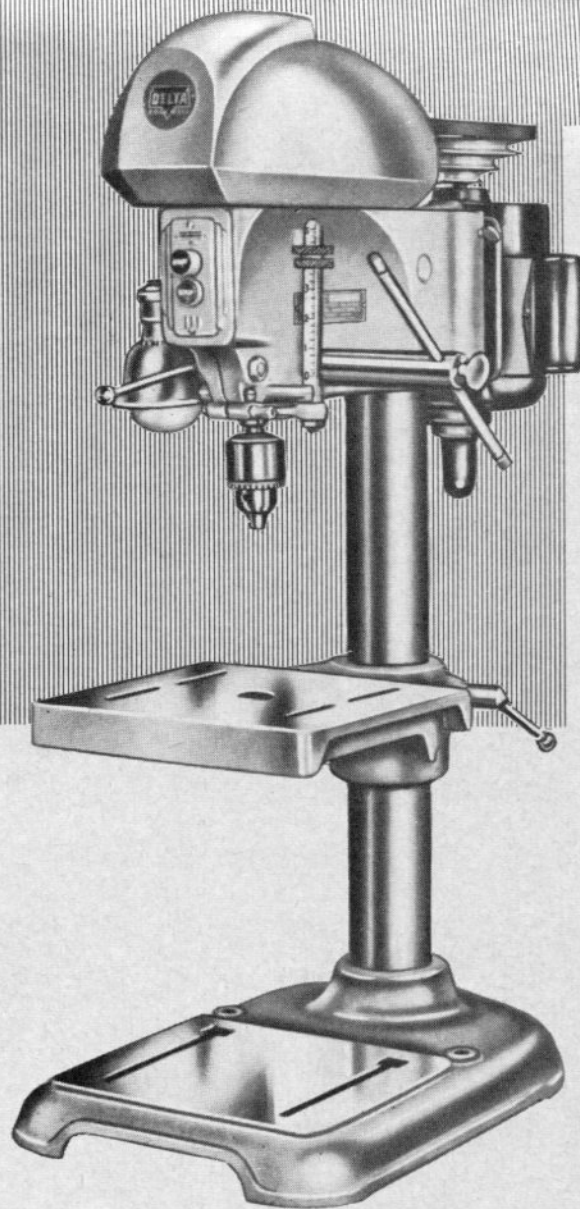
new DELTA

14" utility drill presses

No other drill press offers so much at this low price. This is a man-sized machine designed for rugged production work — perfect for schools and commercial wood or metalworking shops, yet priced right down to the home workshop budget. You get Delta Quality construction — sealed-for-life ball bearings . . . dynamically balanced spindle pulley . . . floating spindle drive . . . big 1 3/4" quill . . . full 4-5/16" quill stroke and other important features that you can't buy at any price in many competitive drill presses.

You Save Money In Every Way

1. You save on your initial investment because this is the *biggest* dollar value in the drill field.
2. You save on over-all tool investment because the Delta 14" Utility Drill Press is unsurpassed in its ability to do many useful jobs. *Six interchangeable spindles* adapt this press in seconds for operations varying from drilling to wood shaping — including mortising, reaming, surface grinding, routing, polishing and many more.
3. You save on maintenance, too, because this Delta Press is *built to last*.



FLOOR MODEL

Equipped with standard table (tilting table available as accessory) and streamlined belt guard (accessory). Available with high or slow-speed, 1/2" key chuck.

BENCH MODEL

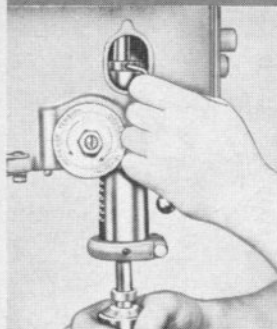
Equipped with standard table and belt guard (tilting table and streamlined belt guard available as accessories). Available with high or slow-speed, 1/2" key chuck.

specifications

Overall dimensions:		Quill	
Bench Type		Stroke	4 1/16"
Height	37 1/2"	Diameter	1 3/4"
Width	13 3/8"	Capacities:	
Front to rear	24 1/8"	Key Chuck	0-1/2"
Floor Type		Dia. Hole in Cast Iron	1/2"
Height	68 1/2"	Dia. Hole in Steel	3/8"
Width (Standard Table)	15 1/2"	Chuck to Table (max.)	
Production Table — available as an accessory	21 1/2"	Bench Model	12 5/8"
Front to rear	24 1/8"	Floor Model	43 1/2"
Table working surface:		Chuck to Base (max.)	
Standard	10 x 10 1/2"	Bench Model	18 3/8"
Production—available as an accessory	12 x 18"	Floor Model	48 1/2"
Base working surface:		Spindle Speeds (with 1725 rpm Motor)	
Bench Type	9 x 10"	High Speed Model	680, 1250, 2400, 4600 rpm
Floor Type	8 1/2 x 12"	Slow Speed Model	470, 780, 1300, 1950 rpm
		Column Diameter	2 3/4"

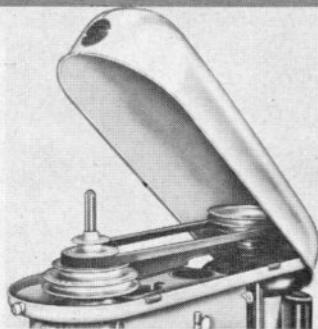
Compare These Features With Any Other Make . . .

See For Yourself Why This Is Your
Biggest Drill Press Value



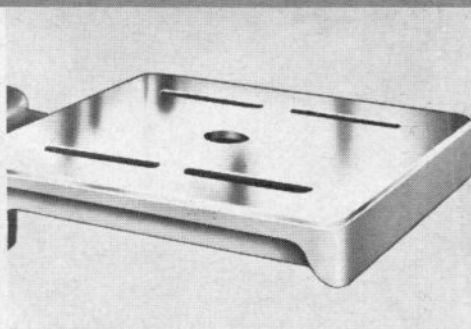
QUICK SPINDLE CHANGE

Aperture in side of head casting permits spindle changing in seconds for unmatched job versatility.



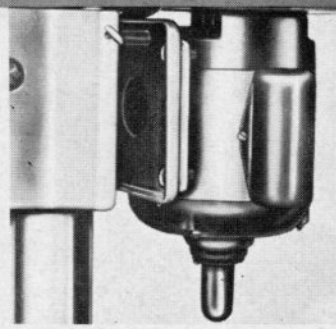
STREAMLINED BELT GUARD
(available as accessory)

Full length and counter-balanced, it swings up, out of the way for easy speed changing. Gives complete protection.



MANY-PURPOSE WORK TABLE

Side ledges and slots facilitate clamping of work to table. Accurately ground surface permits drilling to close tolerances.



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.

. . . plus these
important
DELTA Extras:

- Husky 1 3/4" quill.
- Easy adjustment to compensate for quill wear.
- Floating drive for perfect spindle alignment.
- No belt pull on spindle.
- Dynamically balanced spindle pulley.
- Extra large spindle pulley bearing.
- Worm screw spindle return spring tension adjustment.
- Depth scale on stop rod.
- Provision in head for Push Button Switch (optional accessory) to provide maximum safety and convenience to operator.
- Provision for #1 M.T. Spindle.

catalog listing

BENCH MODELS		FLOOR MODELS		DRILL HEADS			
Standard Table 1/2" Key Chuck		Standard Table 1/2" Key Chuck		1/2" Key Chuck		#1 M.T. Spindle	
Slo-Speed	14-007 124 lbs.	Slo-Speed	14-207 154 lbs.	Slo-Speed	14-228 57 lbs.	Slo-Speed	14-229 57 lbs.
High-Speed	14-008 124 lbs.	High-Speed	14-208 154 lbs.	High-Speed	14-226 55 lbs.	High-Speed	14-227 55 lbs.

Slo-Speed models include belt guard, No. 430 V-belt and No. 985 motor pulley, 1/2" bore. High-speed models include belt guard, No. 387 V-belt and No. 985 motor pulley, 1/2" bore.

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

Motor, 1/3 HP, capacitor start, 115/230V, 60 cy, AC, 1725 rpm. Includes on-and-off switch, 115V 8-foot cord, 3-prong grounding type plug and adapter. 28 lbs. **CAT. NO. 62-110**

Motor, 1/2 HP, capacitor start, 115/230V, 60 cy, AC, 1725 rpm. Includes on-and-off switch with 115V 8-foot grounding cord, 3-prong plug and adapter. 39 lbs. **CAT. NO. 62-680**

Push Button Switch. Includes 4-wire cable, wiring diagram and everything needed for use with No. 62-110 or No. 62-680 motor. Also may be used with DC motors. 1 1/4 lbs. **CAT. NO. 15-811**

Switch Rod. Includes mounting parts. Used with No. 62-110 or No. 62-680 motor, or Delta DC motors with toggle switches. Provides fingertip control at low cost. 1 lb. **CAT. NO. 1331**

FOR 3 PHASE OPERATION

Motor, 1/3 HP, 208-220/440V, 50/60 cy, AC, 1425/1725 rpm. Without switch or power cord. 25 lbs. **CAT. NO. 66-120**

Motor, 1/2 HP, 208-220/440V, 50/60 cy, AC, 1425/1725 rpm. Without switch or power cord. 31 lbs. **CAT. NO. 66-340**

Switch, Overload. Used with No. 15-813 switch. Easy to mount with No. 49-318 mounting bracket. Specify motor number and voltage when ordering. 3 lbs. **CAT. NO. 49-365**

Starter, Magnetic. For 60 cy, 208-220V only. Provides low-voltage, no-voltage and overload protection. Used with No. 15-812 switch. Easy to mount with No. 49-318 mounting bracket. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-396**

Starter, Magnetic. For 60 cy, 440V only. Provides low-voltage, no-voltage and overload protection. Used with No. 15-812 switch. Easy to mount with No. 49-318 mounting bracket. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-397**

Push Button Magnetic Control Switch. Includes 3-wire cable, wiring diagram, and everything needed for use with motor No. 66-120 or No. 66-340 and magnetic starters Nos. 49-396 or 49-397. 1 lb. **CAT. NO. 15-812**

Push Button Manual Control Switch. Includes two 3-wire cables, wiring diagram, and everything needed for use with motors Nos. 66-120 or No. 66-340 and No. 49-365 overload switch. 1 3/4 lbs. **CAT. NO. 15-813**

Mounting Bracket for motor controls. Used with Nos. 1320, 49-365, 49-393, 49-394, 49-396 and 49-397. 3 lbs. **CAT. NO. 49-318**

WHAT CONTROLS TO ORDER

For 62-110 or 62-680 motor, single phase

1. (115 or 230V) No. 15-811 only or
2. (115 or 230V) No. 1331 only

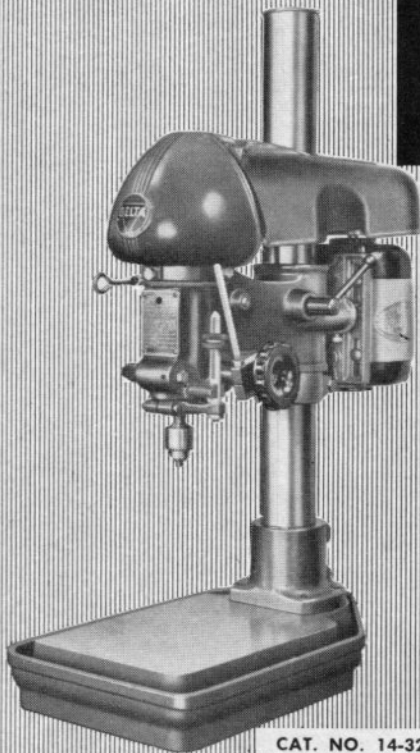
*For 66-120 or 66-340 motor, three phase

- A. Manual
 1. (208-220/440V) Nos. 49-365, 15-813, 49-318
- B. Magnetic
 1. (208-220V) Nos. 49-396, 15-812, 49-318 or
 2. (440V) Nos. 49-397, 15-812, 49-318

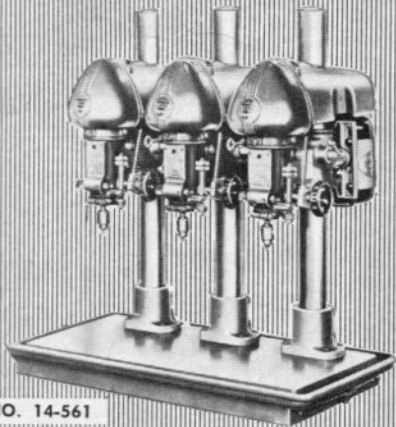
*For Three Phase Motor No. 66-120 or 66-340 the Manual Starter No. 1320 or Magnetic Starters Nos. 49-393 or 49-394 may be used.

See Pages 16, 17, and 18 for 14" Utility Drill Press Accessories.

14-inch Super-Hi sensitive drill press



CAT. NO. 14-321



CAT. NO. 14-561

specifications

Column diameter 2 $\frac{3}{4}$ "

Quill stroke 2 $\frac{1}{4}$ "

Capacity:

Chuck holds..... from $\frac{1}{4}$ " down to #72
(.025")

Spindle to column..... 7"

Spindle to table..... 20 $\frac{1}{2}$ "

Motor rating $\frac{1}{2}$ HP

Spindle speeds:

With 3450 rpm motors:

Standard: 12000, 8000 and 5000 rpm

* Available: 10000, 7000 and 4500 rpm

† Available: 9000, 6200 and 4000 rpm

With 2850 rpm motors:

Standard: 10000, 6600 and 4100 rpm

* Available: 8250, 5800 and 3700 rpm

† Available: 7400, 5100 and 3300 rpm

*Order No.

14-829 Pulley and Belt Set extra.

†Order No.

14-830 Pulley and Belt Set extra.

***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

This Super-Hi 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.

No other machine offers high speeds, sensitivity, accuracy and vibration-free operation at anywhere near the price.

As a special bonus for owners of standard presses, the separate heads shown on the opposite page, complete with motors, fit all 2 $\frac{3}{4}$ " diameter columns. No need to discard present columns, tables and bases.

check list of Super-Hi quality features

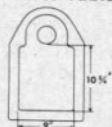
- ✓ Quill counterbalanced—through holes are drilled without quill drop at break-through point. Drill breakage eliminated.
- ✓ Quill selected and lapped into head.
- ✓ Quill locks at any position.
- ✓ Four ball bearings, specially selected, preloaded, and lubricated-for-life.
- ✓ Dynamically balanced, fully machined, aluminum pulleys.
- ✓ Spindle pulley taper-hole mounted.
- ✓ 14-spline spindle drive through feather-light 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.
- ✓ Motor specially selected and dynamically balanced.
- ✓ Standard equipment includes: motor pulley; spindle pulley; flat belt; chuck with 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.

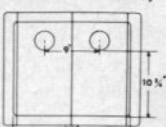
Catalog Listing—These models of the Super-Hi Drill Press include standard equipment as listed at bottom of page at left.

NOTE: Take drills from No. 72 to 1/4". Coolant Pump and Tank can be used when production type table is used with Super-Hi Drill Press. Table Drain Hole — Single spindle model has two 3/8" Pipe Tap at rear—two, three and four spindle models have two 1/2" Pipe Tap at rear. See page 19 for Coolant Equipment, Accessories and Dimensions.

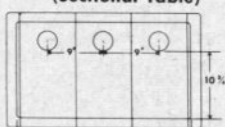
SINGLE SPINDLE (1 Piece Table)



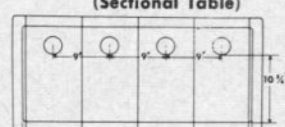
2 SPINDLE (Sectional Table)



3 SPINDLE (Sectional Table)



4 SPINDLE (Sectional Table)



With 1/3 H.P. Single Phase Motor 115/230 V. 60 Cy. 3450 R.P.M.—SPINDLE SPEEDS: 12,000, 8,000 and 5,000 R.P.M. With Switch Rod.

Catalog No.	14-321	14-551	14-561	14-571
Table Surface	10 3/4 x 9	10 3/4 x 19	10 3/4 x 28	10 3/4 x 37
Ship. Wt.	175	670	900	1180

With 1/3 HP. Single Phase Motor 115/230 V. 50 Cy. 2850 R.P.M.—SPINDLE SPEEDS: 10,000, 6,600 and 4,100 R.P.M. With Switch Rod.

Catalog No.	14-322	14-552	14-562	14-572
Table Surface	10 3/4 x 9	10 3/4 x 19	10 3/4 x 28	10 3/4 x 37
Ship. Wt.	175	670	900	1180

With 1/3 H.P. 3 Phase Motor 208-220/440 V. 50/60 Cy. 2850/3450 R.P.M.—SPINDLE SPEEDS: 50 Cy.: 10,000, 6,600 and 4,100 R.P.M. 60 Cy.: 12,000, 8,000 and 5,000 R.P.M.—Switch and Switch Rod not furnished.—No. 1320 Manual Starter Recommended.

Catalog No.	14-323	14-553	14-563	14-573
Table Surface	10 3/4 x 9	10 3/4 x 19	10 3/4 x 28	10 3/4 x 37
Ship. Wt.	175	670	900	1180

With 1/3 HP. D.C. Motor 115 V. 3450 R.P.M.—SPINDLE SPEEDS: 12,000, 8,000 and 5,000 R.P.M. With Switch Rod.

Catalog No.	14-324	14-554	14-564	14-574
Table Surface	10 3/4 x 9	10 3/4 x 19	10 3/4 x 28	10 3/4 x 37
Ship. Wt.	175	670	900	1180

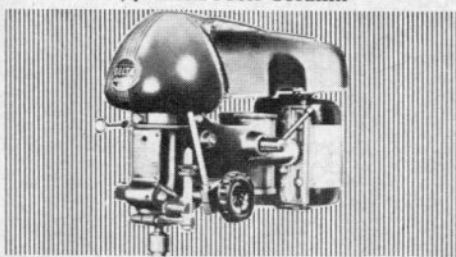
With 1/3 H.P. D.C. Motor 230 V. 3450 R.P.M.—SPINDLE SPEEDS: 12,000, 8,000 and 5,000 R.P.M. With Switch Rod.

Catalog No.	14-325	14-555	14-565	14-575
Table Surface	10 3/4 x 9	10 3/4 x 19	10 3/4 x 28	10 3/4 x 37
Ship. Wt.	175	670	900	1180

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

Super-Hi Drill Press Heads

Fit Delta 14" Or Any
2 3/4" Drill Press Column



STANDARD EQUIPMENT FOR HEADS

Each unit includes specially balanced motor, belt guard, and pulley set for the speed listed, and special Key chuck taking drills from No. 72 to 1/4". 115V 8-foot cord, 3-prong grounding type plug, adapter, switch and No. 1331 switch rod furnished on single phase and DC motors only.

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

Head only with 1/3 HP, Single Phase, 2850 rpm, 115/230V, 50 Cycle Motor and Switch Rod. Speeds: 10,000, 6,600 and 4,100 rpm. 115 lbs. CAT. NO. 14-822

Head only with 1/3 HP, 3 Phase, 2850/3450 rpm, 220/440V, 50/60 Cycle Motor. Switch and Switch Rod not furnished but No. 1320 Switch and No. 49-318 Mounting Bracket recommended. Speeds for 50 Cy.: 10,000, 6,600 and 4,100 rpm—for 60 Cy.: 12,000, 8,000 and 5,000 rpm. 115 lbs. CAT. NO. 14-823

Head only with 1/3 HP, 3450 rpm, 115 V, DC Motor and Switch Rod. Speeds: 12,000, 8,000 and 5,000 rpm. 115 lbs. CAT. NO. 14-824

Head only with 1/3 HP, 3450 rpm, 230 V, DC Motor and Switch Rod. Speeds: 12,000, 8,000 and 5,000 rpm. 115 lbs. CAT. NO. 14-825

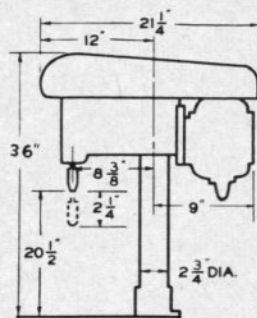


Table Sections and Column Parts

Minimum center to center distance for column is 9".

Table section, 9" x 15 5/8", for Super-Hi—no ends. 50 lbs. (Other sections on P. 23.) CAT. NO. 14-836

Two end sections, 1/2" x 15 5/8", for Super-Hi sectional table. 25 lbs. (See P. 23 for other sections.) CAT. NO. 14-837

Column cover for Super-Hi. 2 lbs. CAT. NO. 14-838

Column, 2 3/4" dia. x 31" long, for Super-Hi. 12 lbs. CAT. NO. 14-839

One Piece Table, 9" x 10 3/4". 50 lbs.

CAT. NO. 14-840

Head-Support Collar for Column. 2 lbs.

CAT. NO. 1010

Column Mounting Flange and Screws. 10 lbs.

CAT. NO. 1019

Lamp Attachment with shade, socket, attachment bracket, cord and plug for 115V connection. Uses standard 15 or 25-watt bulb. 1 1/2 lbs. CAT. NO. 882

Pulley and Belt Units

Spindle Pulley for 50 and 60 cycle motors offering speeds for 60 Cy. Motor: 10,000, 7,000 and 4,500 rpm.—for 50 Cy. Motor: 8,250, 5,800 and 3,700. 1/2 lb. CAT. NO. 14-829

Spindle Pulley and No. 14-834 belt, for 50 and 60 cycle motors offering speeds for 60 Cy. Motors: 9,000, 6,200 and 4,000 rpm.—50 Cy. Motors: 7,400, 5,100 and 3,300 rpm. 1/2 lb. CAT. NO. 14-830

Std. Flat Belt. 39" long. 1/4 lb. CAT. NO. 14-833

Flat Belt. 39 1/2" long. 1/4 lb. CAT. NO. 14-834

Three Phase Starters

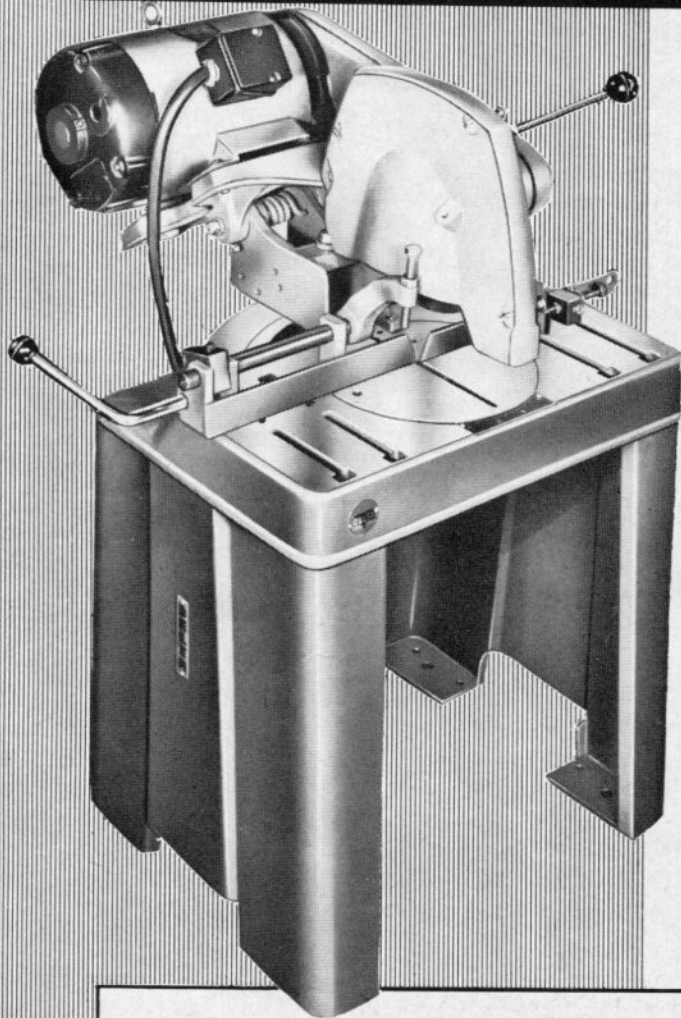
Starter, Manual. Provides overload protection. Specify motor number and voltage when ordering. 6 lbs. CAT. NO. 1320

Starter, Magnetic. For 60 cy., 208-220 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number when ordering. 6 lbs. CAT. NO. 49-393

Starter, Magnetic. For 60 cy., 440 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number when ordering. 6 lbs. CAT. NO. 49-394

Mounting Bracket. Used with Nos. 1320, 49-393 and 49-394 starters on single spindle drill presses only. 3 lbs. CAT. NO. 49-318

new DELTA 12" cut-off machines



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, the New Delta 12" Cut-Off Machine will do a faster, more accurate and smoother job than any other cut-off method.

Here's why — the BIG 3¼" capacity makes this new 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 Delta Cut-Off Machine.

additional Delta quality features

- 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, hydro checks, air-mist coolant attachments, air clamps, and other automation devices may be easily attached for labor saving and quality control on high production work.

specifications

Overall Dimensions (with legs):
Width . . . 35"; Front to rear . . . 35"; Height . . . 50"
Capacities (for 90° cutting):

Wood and Plastic 2 x 8"

Non-ferrous metals (with saw blade):

Tubing (maximum diameter) 3¼"

Solid round bar (maximum diameter) 3¼"

Ferrous metals (with abrasive wheel):

Tubing (maximum diameter) 3¼"

Solid round bar 1020 steel (maximum dia.) . . . 1½"

Angles 3 x 3"

Channels 4"

Speeds:

With 1725 rpm motor and 6" motor pulley:

Arbor speed, rpm 4,000

Rim of 12" blade or wheel, sfpm 12,600

With 1425 rpm motor and 7" motor pulley:

Arbor speed, rpm 3,850

Rim of 12" blade or wheel, sfpm 12,000

Blade or Wheel Diameter (maximum) 12"

Arbor Hole 1"

Wheel flanges, diameter 3½" and 5"

Miters (swinging arbor) 45° left and 45° right

Table:

Working surface in front of fence 11 x 27"

Height (without coolant pan) 32"

Height (with coolant pan) 36"

Has four pairs of parallel T-slots and double calibrated miter scale.

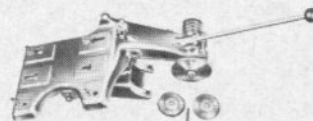
Motor: Mounting plate accommodates NEMA frame motors 213 and 215.

CUT-OFF MACHINE WORK HEAD AND GUARDS used for building special-purpose machines



CAT. NO. 20-216

This work head is used on all 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 own needs.



CAT. NO. 20-800

Work Head, including ball bearing arbor assembly, 2¼" 3-belt arbor pulley, 3½" 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. 69 lbs.

CAT. NO. 20-800

Blade Guard, complete with lifting spring and mounting parts.

CAT. NO. 20-802

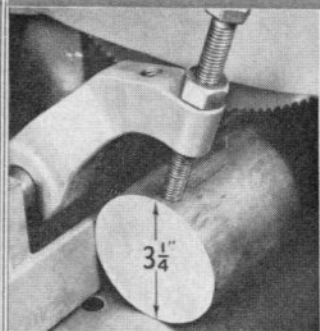
Guard for Belts and Pulleys, complete with mounting bolts. 25 lbs.

CAT. NO. 20-216

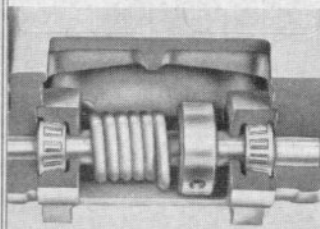
For wheel guards, V-belts, motor pulleys and other accessories, see catalog listing on Page 30.

These DELTA QUALITY Features

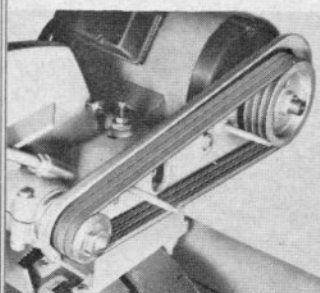
Save Production Time and Promote Operating Economy!



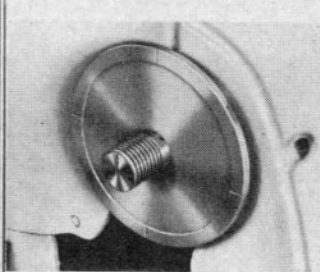
EXTRA LARGE CAPACITY—You get these BIG capacities with the New Delta 12" Cut-Off Machine: wood and plastics—2 x 8"; non-ferrous tubing and solid round bars—3 1/4"; ferrous tubing—3 1/4" and solid round bars 1020 steel—1 1/2"; angles—3 x 3"; channels—4". These are verified capacities which can be maintained 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.

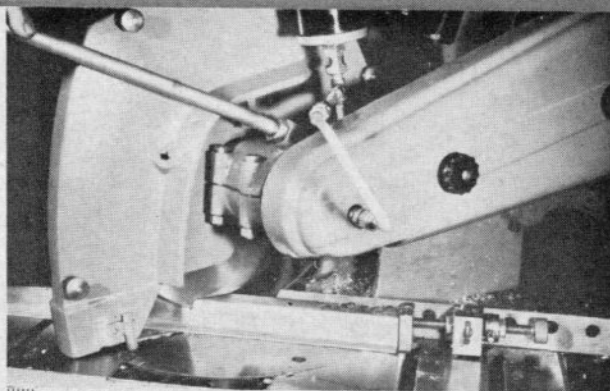
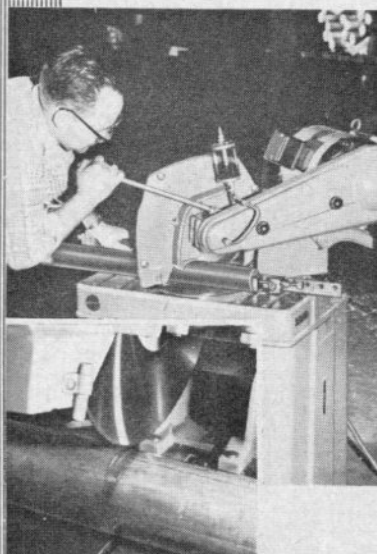


FULL, EVEN POWER TRANSMISSION—Triple, matched, V-belt Drive utilizes the full power of the motor, eliminates transmission of any vibration from motor to cutting wheel. Dynamically balanced motor and arbor pulleys have V-grooved diameters concentric with center hole for long life and smooth running. Mitering never disturbs belt alignment.



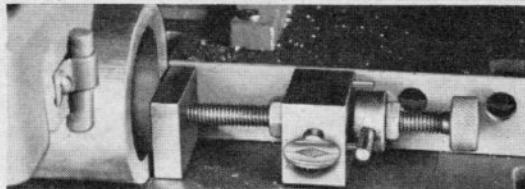
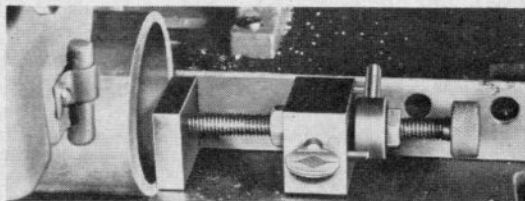
HEAVY DUTY 1" ARBOR—Precision ground, the husky 1" arbor is supported by extra large, pre-loaded, lubricated-for-life ball bearings that are mounted in Delta's Unique Cartridge Assembly. Pre-loading of bearings by means of steel sleeves for the inner and outer races removes all play and guarantees accuracy 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 MIST COOLANT—Only 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.

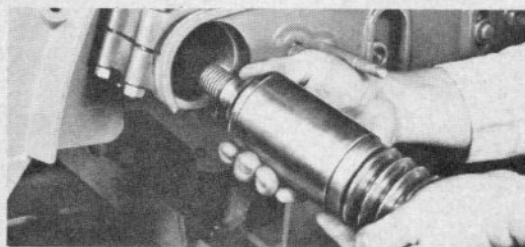


"SWINGING ARBOR" FOR MITERING—The complete Cut-Off Machine Arbor and Work Head swivels as one unit through a 90° arc. This means that work always moves in a straight line across the table, eliminating awkward swinging of stock when mitering. Double calibrated scale permits direct reading for miter cuts 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 illus.), 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—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.

catalog listing

- 12" CUT-OFF MACHINE.** Includes wheel guard, belt guard, fence with size gauge, 3 1/2" wheel flanges, and 5" wheel flanges with coolant slots. 265 lbs. **CAT. NO. 20-100**
- 12" CUT-OFF MACHINE FOR DRY ABRASIVE CUTTING (WITH LEGS).** Same as No. 20-100 except with No. 50-399 pair of steel legs 27 1/2" high, No. 20-801 clamp fixture, No. 294 (set of 3) 5 1/8" OC V-belts, and No. 41-627 6" 3-belt motor pulley 1 1/8" bore with 1/4" keyway. Without abrasive wheel, motor and switch. 390 lbs. **CAT. NO. 20-111**
- 12" CUT-OFF MACHINE FOR WET ABRASIVE CUTTING (WITH LEGS).** Same as No. 20-100 except with No. 50-399 pair of steel legs 27 1/2" high, No. 20-801 clamp fixture, No. 294 (set of 3) 5 1/8" OC V-belts, No. 41-627 6" 3-belt motor pulley 1 1/8" bore with 1/4" keyway, and No. 20-840 coolant pan. Without abrasive wheel, motor and switch. 531 lbs. **CAT. NO. 20-112**
- 12" CUT-OFF MACHINE FOR NON-FERROUS CUTTING (WITH LEGS).** Same as No. 20-100 except with No. 50-399 pair of steel legs 27 1/2" high, No. 20-801 clamp fixture, No. 294 (set of 3) 5 1/8" OC V-belts, No. 41-627 6" 3-belt motor pulley 1 1/8" bore with 1/4" keyway, and No. 20-832 coolant attachment. Without saw blade, motor and switch. 394 lbs. **CAT. NO. 20-113**
- 12" CUT-OFF MACHINE FOR WOOD CUTTING (WITH LEGS).** Same as No. 20-100 except with No. 50-399 pair of steel legs 27 1/2" high, No. 294 (set of 3) 5 1/8" OC V-belts and No. 41-627 6" 3-belt motor pulley 1 1/8" bore with 1/4" keyway. Without saw blade, motor and switch. 372 lbs. **CAT. NO. 20-114**

*MOTORS AND MOTOR CONTROLS

FOR 3-PHASE OPERATION

- Motor, 5 HP, 208-220/440V, 50/60 cy, 1425/1725 rpm. Without switch or power cord. 125 lbs. **CAT. NO. 96-720**
- Motor, 5 HP, 208-220/440V, 60 cy, 1725 rpm, TENV enclosure. Without switch or power cord. 150 lbs. **CAT. NO. 96-770**
- Motor, 3 HP, 208-220/440V, 50/60 cy, 1425/1725 rpm. Without switch or power cord. 101 lbs. **CAT. NO. 96-620**
- Motor, 3 HP, 208-220/440V, 50/60 cy, 1425/1725 rpm, TENV enclosure. Without switch or power cord. 125 lbs. **CAT. NO. 96-670**

FOR SINGLE PHASE OPERATION

- Motor, 5 HP, capacitor start, 230V only, 60 cy, 1725 rpm. Without switch, cord and plug. 185 lbs. **CAT. NO. 93-510**
- Motor, 3 HP, capacitor start, 115/230V, 60 cy, 1725 rpm. Without switch, cord and plug. 122 lbs. **CAT. NO. 93-410**

*Note: 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.

STARTERS FOR 3-PHASE AND SINGLE PHASE OPERATION

- Starter, magnetic, 3-phase. For 60 cy, 208-220V only. Provides low-voltage, no-voltage and overload protection. Used with Motor Nos. 96-720 and 96-770. Specify motor number when ordering. 7 lbs. **CAT. NO. 49-381**
- Starter, magnetic, 3 phase. For 60 cy, 440V only. Provides low-voltage, no-voltage and overload protection. Used with Motor Nos. 96-720, 96-770, 96-620 and 96-670. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-394**
- Starter, magnetic, 3-phase. For 60 cy, 208-220V only. Provides low-voltage, no-voltage and overload protection. Used with Motor Nos. 96-620 and 96-670. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-393**
- Starter, magnetic, single phase. For 60 cy, 115/230V. Provides low-voltage, no-voltage and overload protection. Used with Motor Nos. 93-410 and 93-510. Specify motor number and voltage when ordering. 7 lbs. **CAT. NO. 49-325**
- Starter, manual, 3-phase. Provides overload protection. Used with Motor Nos. 96-620, 96-670, 96-720 and 96-770. Specify motor number and voltage when ordering. 5 lbs. **CAT. NO. 1328**
- Starter, manual, single phase. Provides overload protection. Used with Motor Nos. 93-410 and 93-510. Specify motor number and voltage when ordering. 7 lbs. **CAT. NO. 49-500**

ACCESSORIES

- 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. **CAT. NO. 20-817**
- 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. 1 1/4 lbs. **CAT. NO. 20-819**
- 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. 1 1/4 lbs. **CAT. NO. 20-820**
- Saw Blade for non-ferrous metal, 12" dia., 3/32" thick x 1" hole, 100 teeth, for cutting large solids. 2 lbs. **CAT. NO. 20-846**
- Saw Blade for non-ferrous metal, 12" dia., 3/32" thick x 1" hole, 150 teeth, best general purpose blade. 2 lbs. **CAT. NO. 20-847**
- Saw Blade, same as 20-847 except high speed, hard rim. 2 lbs. **CAT. NO. 20-848**
- Saw Blade, for non-ferrous metal, 12" dia., 3/32" thick x 1" hole, 200 teeth, for cutting thin wall tubing. 2 lbs. **CAT. NO. 20-849**
- Saw Blade for wood, 12" dia. x 1" hole, combination type. 1 1/2 lbs. **CAT. NO. 33-197**
- Saw Blade for wood, 12" dia. x 1" hole, hollow ground type. 1 1/2 lbs. **CAT. NO. 33-228**
- Saw Blade for wood, 12" dia. x 1" hole, cross cut type. 3 lbs. **CAT. NO. 33-246**
- 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. **CAT. NO. 34-842**
- Clamp Fixture. 18 lbs. **CAT. NO. 20-801**
- Coolant Attachment, for non-ferrous metal. Includes sight gravity feed oiler, mounting post, coolant line, nozzle and fittings. 3 1/2 lbs. **CAT. NO. 20-832**
- V-belts (matched set of 3), 5 1/8" OC, for 6" motor pulley. 1 3/4 lbs. **CAT. NO. 294**
- V-belt, (3 required), 52" OC, for 7" motor pulley. 1/2 lb. **CAT. NO. 501**
- Motor Pulley, 7", 3-belt type, 1 1/8" bore with 1/4" keyway. 8 lbs. **CAT. NO. 41-617**
- Motor Pulley, 6", 3-belt type, 1 1/8" bore with 1/4" keyway. 6 lbs. **CAT. NO. 41-627**
- Legs, steel, one pair, 27 1/2" high. 96 lbs. **CAT. NO. 50-399**
- Riser Blocks (two pair required), cast iron, one pair, 2" high, with studs, nuts and lock washers for mounting under legs. 8 lbs. **CAT. NO. 50-400**

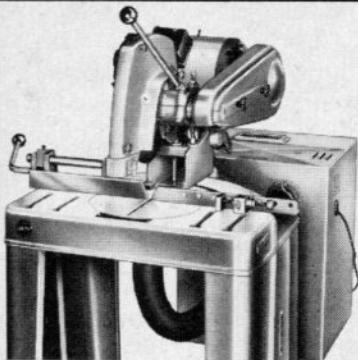
CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

FOR 3-PHASE OPERATION

- 12" CUT-OFF MACHINE COMPLETE, FOR DRY ABRASIVE CUTTING.** Includes No. 20-111 Unit, No. 96-720 Motor and No. 1328 Starter (specify voltage). 515 lbs. **CAT. NO. 20-115**
- 12" CUT-OFF MACHINE COMPLETE, FOR WET ABRASIVE CUTTING.** Includes No. 20-112 Unit, No. 96-720 Motor and No. 1328 Starter (specify voltage). 656 lbs. **CAT. NO. 20-116**
- 12" CUT-OFF MACHINE COMPLETE, FOR NON-FERROUS CUTTING.** Includes No. 20-113 Unit, No. 96-720 Motor and No. 1328 Starter (specify voltage). 519 lbs. **CAT. NO. 20-117**

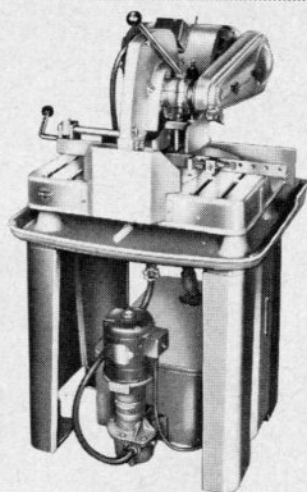
Note: Dust Collector recommended for all dry abrasive cutting—see Page 35. For Coolant Pump for wet cutting, see Page 19.

4 Cost-Saving DELTA 12" Cut-Off Machines to Choose From



DRY ABRASIVE CUT-OFF MACHINE

An excellent unit for cutting steel (stainless, high speed, knife blade, cold rolled, tool, alloy, etc.), drill rod, wire rope, cast iron, angle iron, iron pipe, brake lining, ceramics, Duralumin, Tobin bronze, Navy bronze, and many other hard materials. Cuts a square inch of steel in less than four seconds.



NON-FERROUS CUT-OFF MACHINE

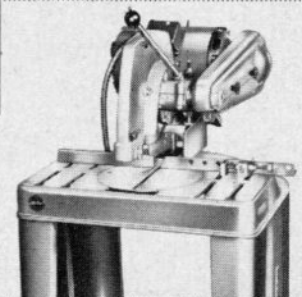
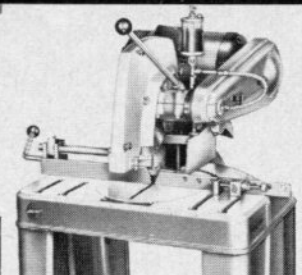
An ideal unit for cutting aluminum, copper, brass, plastics, micarta, Dow metal, etc. The patented coolant attachment assures an extremely fast, accurate cut with burr-free "polished smoothness" on all non-ferrous metals. Cuts very fast at more than 12,000 surface feet per minute.

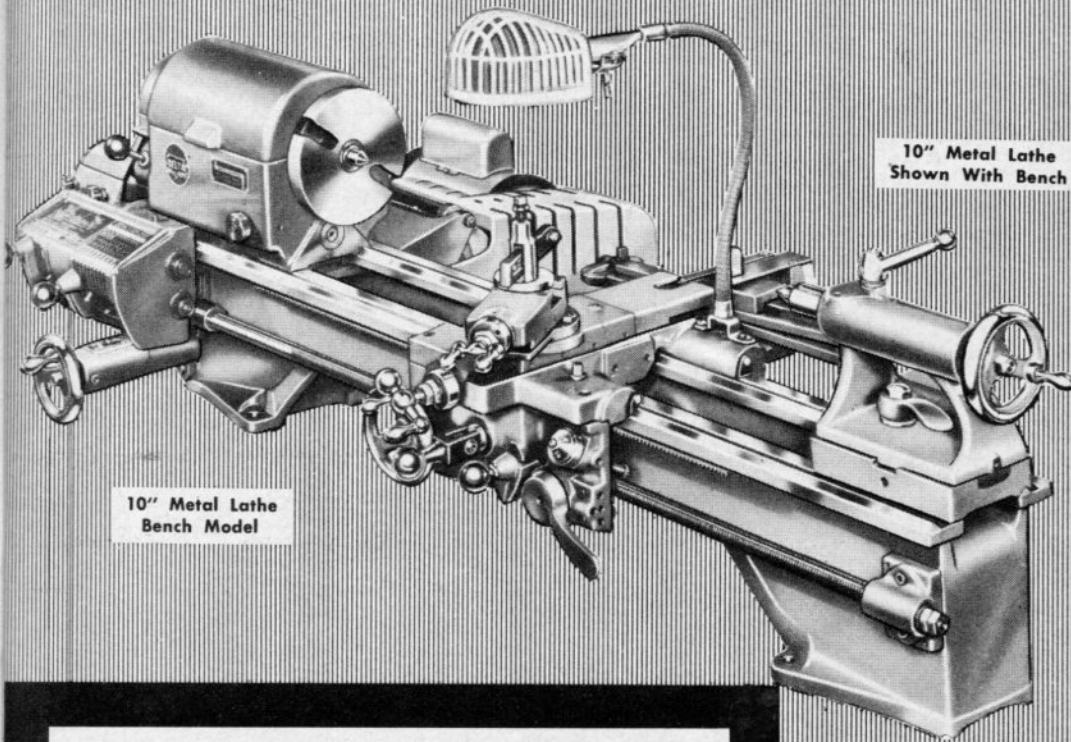
WET ABRASIVE CUT-OFF MACHINE

Provides for a full flow of coolant on the work. Can be used on the same hard materials handled on the Dry Abrasive Cut-Off Machine. Sacrifices speed for cool, smooth cutting with minimum burr and long wheel life.

WOOD CUT-OFF MACHINE

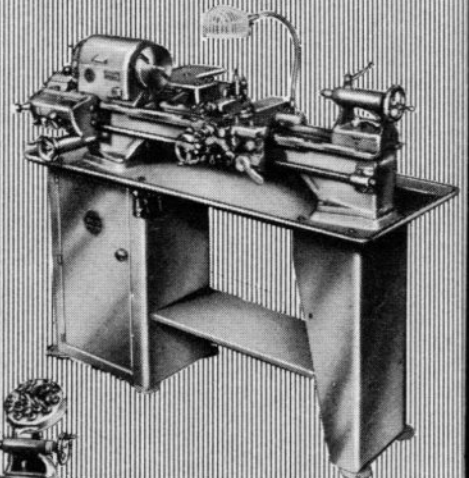
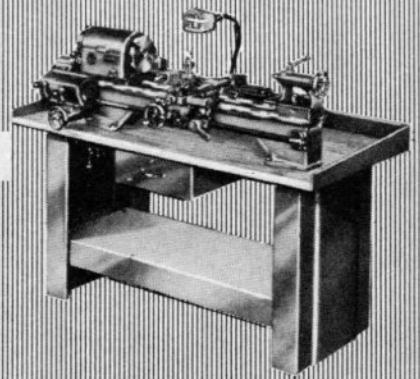
An exceptionally fine machine for handling all materials sawed with conventional wood cutting blades. Specially designed guard permits front loading of long stock. Recommended for high production cut off and mitering. Cuts off a 2 x 8" plank in less than one second.



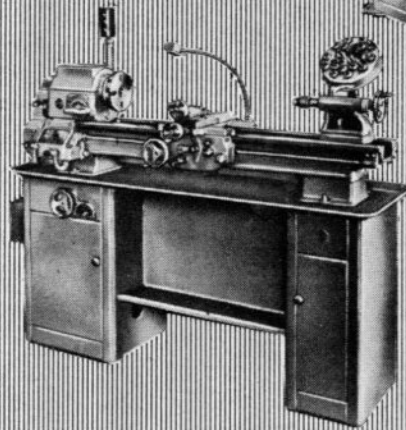


10" Metal Lathe
Bench Model

10" Metal Lathe
Shown With Bench



10" Metal Lathe
Shown With Cabinet



11" Metal Lathe
5-foot Bed Model

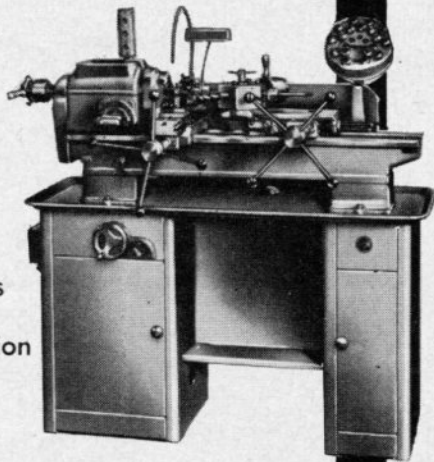
DELTA

metal

lathes

... finest in their class!

Hand Screw Machine



offer:

Exclusive Features

Unmatched Capacities

Unequaled Construction

Every Rockwell-built Delta Metal Lathe made is a product of over 30 years' experience in manufacturing the world's most famous power tools. Like *all* Rockwell-built power tools, these lathes offer you *quality* that only the most advanced engineering skills could create — and only the most modern production facilities could maintain.

These fine engineering skills and tremendous production facilities are backed up by a widespread dealer organization equipped to render the type of cooperation and service you need — and get — when you buy a Delta Metal Lathe.

Toolmaker® Grinder combines accuracy with unusually low cost

This *Versatile* Delta grinder will solve your problems



In The Small Shop

The low-cost Delta Toolmaker Grinder will solve your problem with a minimum investment. With a Delta grinder in your shop, you will find your work is ready when you want it. This is the ideal, low-cost, precision grinding equipment for the small shop or new shop just getting started.

In The Fully Equipped Shop

The rugged Delta Toolmaker Grinder is capable of doing 90% or more of the precision grinding operations in most shops, even where the most expensive equipment is required for a certain portion of the work.

Smash your bottleneck! Put in a Delta as additional equipment to relieve the pressure on your existing grinders. Your machine operators will turn to the Delta because of its simplicity of set-up and operation, its convenience and small size.

In Other Locations Besides The Tool Room

The Delta grinder is low in cost, takes up little space in the line, and can be easily moved from one department to another. Speed up your production, improve your quality and lower your cost figures by spotting several Deltas in your model shop, experimental department, sharpening shop, and right in your production line... either producing your product or maintaining the cutting tools or saw blades in your shop.

specifications

Overall Dimensions:

Width...34" Front to rear...33" Height...65½"

Capacities:

Maximum surface can be ground.....6 x 13½"

Maximum space under 7" wheel to table.....11½"

Maximum dia. of cutter can be sharpened between

*centers:

With cup wheel....8" With dish wheel....10"

Maximum dia. of saw blade can be sharpened held

in *Unihead16"

Spindle Speeds with 2-step V Pulley:

With 1725 rpm motor.....3200 and 4200 rpm

With 1425 rpm motor.....2700 and 3500 rpm

Column:

Diameter4"

Swivels360°

Table:

Longitudinal travel by rack and pinion.....13½"

Transverse travel by Acme thread screw.....7"

Transverse travel, one graduation......001"

Transverse travel, one complete turn of hand

wheel100"

Surface area5¾ x 13"

T-slot for ¾" T-bolts.....7/16"

Vertical Head Adjustment:

Positioned to work by Acme thread screw

Micrometer head adjustment:

Maximum travel¾"

One graduation0005"

Wheels used (1¼" hole):

Size of straight wheel.....7 x ½"

Size of cup wheel.....4 x 1½"

Size of dish wheel.....6 x ½ x 5/16"

*Not furnished as standard equipment.

CHECK THESE FINE FEATURES

SPINDLE: Bronze, ring oiling bearing is run in four hours and tested at factory.

COLUMN: Swivels 360° Provided with ½ x ½" key and adjustable gib.

SPINDLE HOUSING: Vertical feed screw has no backlash. Spindle adjustment in vertical plane is provided.

CROSS SLIDE: Slide can be locked to base when transverse travel not required. Traverse screw protected by canvas covers.

LONGITUDINAL SLIDE (TABLE): Surface guaranteed true because finish ground by its own spindle as final machine test.

PULLEYS: Motor and spindle pulleys are fully machined for concentricity of pitch diameters with bore. Also dynamically balanced.

MOTOR: Specially selected and balanced. Motor, motor pulley and machine balanced together to assure harmony of entire unit for smooth, accurate work.

catalog listing

BASIC MACHINES

TOOLMAKER GRINDER FOR SINGLE PHASE OPERATION: Includes: 2-step spindle pulley, 2 3/4" in diameter; 2-step motor pulley, 5-15/32" in diameter, 1/2" bore; No. 49-115 V-belt; guard for belt; guard for straight wheel; motor cover; No. 24-816 wheel adapter; holder for diamond-pointed wheel dresser; three hand wheels; wrenches (spanner, box and hexagon); No. 50-399 pair of legs and No. 62-610, 115/230 V, 60 cy, AC, balanced motor (includes on-and-off switch, 115V, 8-foot grounding cord, 3-prong plug and adapter). 768 lbs. **CAT. NO. 24-101**

TOOLMAKER GRINDER FOR THREE PHASE OPERATION: Same as No. 24-101 except includes No. 66-320, 208-220/440 V, 50/60 cy, AC, balanced motor instead of No. 62-610 balanced motor. Without starter for motor. 757 lbs. **CAT. NO. 24-103**

TOOLMAKER GRINDER FOR DC AND OTHER CURRENTS: Same as No. 24-101 except without motor. Use this catalog number only when other than standard single or three phase motor is required. *Important:* Be sure to order motor separately and specify "Motor to be balanced to and shipped with No. 24-105 Grinder." Grinder not supplied without motor. 728 lbs. **CAT. NO. 24-105**

Note: Items bearing individual catalog number, as included in No. 24-101, can be ordered separately; see price list.

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

Motor Replacement Group. Consists of No. 62-610 motor, 2-step motor pulley 5-15/32" in diameter, and No. 49-115 V-belt, balanced together for Toolmaker Grinder. 44 lbs. **CAT. NO. 24-830**

FOR 3 PHASE OPERATION

Motor Replacement Group. Consists of No. 66-320 motor, 2-step motor pulley 5-15/32" in diameter, and No. 49-115 V-belt, balanced together for Toolmaker Grinder. 31 lbs. **CAT. NO. 24-831**

Starter, Manual. Provides overload protection. Recommended for No. 24-105 Grinder. Specify motor voltage when ordering. 6 lbs. **CAT. NO. 1320**

Starter, Magnetic. For 60 cy, 208-220 V only. Provides low-voltage, no-voltage and overload protection. Recommended for No. 24-103 Grinder. Specify grinder number when ordering. 6 lbs. **CAT. NO. 49-393**

Starter, Magnetic. For 60 cy, 440 V only. Provides low-voltage, no-voltage and overload protection. Recommended for No. 24-103 Grinder. Specify grinder number when ordering. 6 lbs. **CAT. NO. 49-394**

ACCESSORIES

Wheel, 7 x 1/2", aluminum oxide, 1 1/4" hole, for soft material, balanced to within 1/10 inch ounce. 2 lbs. **CAT. NO. 24-807**

Wheel, 7 x 1/2", aluminum oxide, 1 1/4" hole, for hard material, balanced to within 1/10 inch ounce. 2 lbs. **CAT. NO. 24-808**

Standard Dish Wheel, Type 12, 6 x 1/2 x 5/16", aluminum oxide, 1 1/4" hole. 5 lbs. **CAT. NO. 24-973**

Standard Cup Wheel, Type 11, 4 x 1 1/2", aluminum oxide, 1 1/4" hole. 5 lbs. **CAT. NO. 24-974**

Adapter for wheels with 1 1/4" hole. Includes collar for straight wheels up to 1/2" wide, 4 x 1 1/2" cup wheels, and 6 x 1/2 x 5/16" dish wheels. Extra collar supplied for 3 1/2" x 1 1/2" cup wheels. Same as adapter supplied with machine. Order an extra adapter for each kind of wheel to be used to obviate centering and dressing wheel each time wheel is changed. 2 lbs. **CAT. NO. 24-816**

Diamond-pointed Wheel Dresser, with 7/16 x 2" body. 1/2 lb. **CAT. NO. 24-805**

Univise. 17 lbs. See Page 34 for complete information. **CAT. NO. 24-902**

Coolant Attachment. 3 lbs. See Page 34 for complete information. **CAT. NO. 24-906**

Tool and Cutter Grinding Attachment. 84 lbs. See Page 34 for complete information. **CAT. NO. 24-952**

Unihead. 28 lbs. See Page 34 for complete information. **CAT. NO. 24-955**

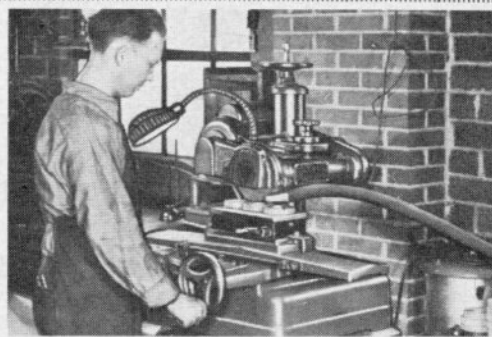
Lamp Attachment with 15" flexible gooseneck. Includes nylon shield, mounting bracket, switch and 8-foot cord with 2-prong plug. Uses standard bulb (not included) up to 100 watts. 2 lbs. **CAT. NO. 25-857**

Spindle Oil, Velocite-E. 1/2 pt. can. **CAT. NO. 24-812**

Attachment Package for Dust Collector. 19 lbs. See Page 35 for complete information. **CAT. NO. 24-819**

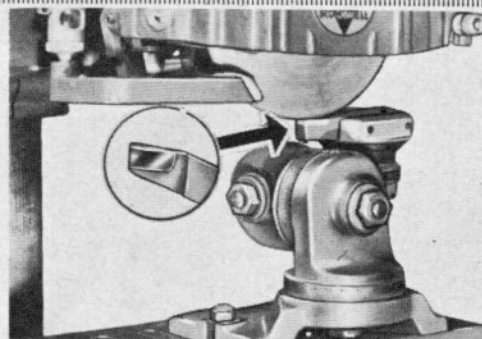
Note: See Page 35 for Dust Collectors recommended for Toolmaker Grinders.

3 Precision Grinding Operations on 1 Rugged DELTA Toolmaker Grinder



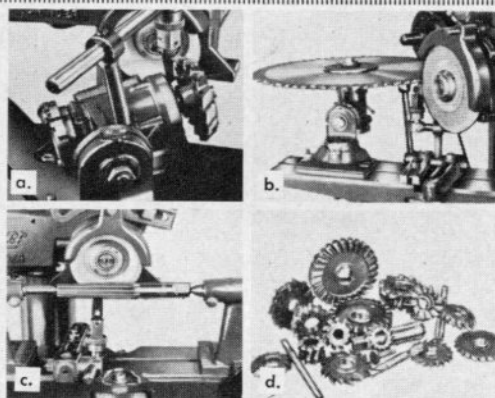
AS A STANDARD SURFACE GRINDER

This machine has tremendous capacity — 11 1/2" under a 7" wheel — yet requires a minimum of floor space and dollar investment. Accessories shown: No. 25-857 Lamp Attachment; Magnetic Chuck (not sold by us).



AS A CHIP-BREAKER GRINDER

Chip-Breaker grooves in shank type carbide-tipped tools are accurately ground. Literally any desired angle can be obtained and set-ups exactly duplicated if degree settings are recorded on grinding blueprint for tool. Accessories required: No. 24-902 Univise and No. 24-906 Coolant Attachment.



AS A TOOL AND CUTTER GRINDER

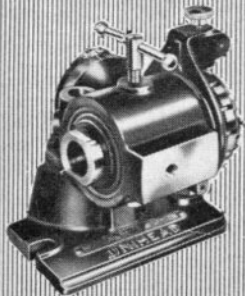
Shown are a few of the many small tools and cutters that can be sharpened.

a. Angular Miller Cutter. Accessories: No. 24-952 Grinder Attachment with Centers and No. 24-955 Unihead.

b. Saw Blade. Accessories: No. 24-952 Grinder Attachment and (for blades over 10") No. 24-955 Unihead.

c. Taper Reamer. Accessory: No. 24-952 Grinder Attachment.

d. Small Tools and Cutters. Accessories: No. 24-952 Grinder Attachment and No. 24-955 Unihead.



CAT. NO. 24-955



CAT. NO. 24-970

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 No. 24-952.

catalog listing

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. 27 lbs.

CAT. NO. 24-955

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

Collar, plain, 36-tooth, for 2, 3, 4, 6, 9, 12, 18 and 36 equal spaces. 3/4 lb. CAT. NO. 24-957

Collar plain, 34-tooth, for 17 and 34 equal spaces. 3/4 lb. CAT. NO. 24-958

Collar, plain, 33-tooth, for 3, 11 and 33 equal spaces. 3/4 lb. CAT. NO. 24-959

Collar, plain, 32-tooth, for 2, 4, 8, 16 and 32 equal spaces. 3/4 lb. CAT. NO. 24-960

Collar, plain, 30-tooth, for 3, 5, 6, 10, 15 and 30 equal spaces. 3/4 lb. CAT. NO. 24-961

Collar, plain, 28-tooth, for 4, 7, 14 and 28 equal spaces. 3/4 lb. CAT. NO. 24-962

Collar, plain, 26-tooth, for 13 and 26 equal spaces. 3/4 lb. CAT. NO. 24-963

Collar, plain, 24-tooth, for 2, 3, 4, 6, 8, 12 and 24 equal spaces. 3/4 lb. CAT. NO. 24-964

Collar, blank. 3/4 lb. CAT. NO. 24-965

ADAPTERS

Adapter for Unihead with No. 9 B & S outside taper arranged with 1" - 8 R.H. threaded end to receive 6" Face Plate (Cat. No. 937). 1 1/4 lbs. CAT. NO. 24-967

Adapter for Unihead with No. 9 B & S outside taper arranged with No. 33 Jacobs taper to receive drill chucks. 1 1/4 lbs. CAT. NO. 24-968

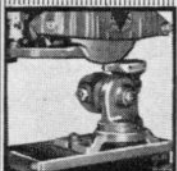
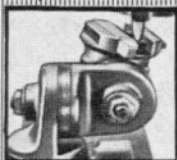
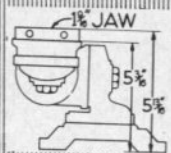
TOOTH STOP UNIT

The Unihead uses the same tooth stop unit regularly furnished with the Tool and Cutter Grinder Attachment (Cat. No. 24-952). 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.

Tooth Stop Unit consisting of 1 bracket, 2 bars, 1 clamp and tooth stop with 2 fingers (included with No. 24-952 Grinder Attachment). 5 lbs. CAT. NO. 24-970



CAT. NO. 24-902



the Univise® - first truly universal vise for grinding, drilling and milling

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 1/8" high, 6" wide and 7 1/4" long. Jaws take up to 1 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.

Univise, complete. 16 lbs. CAT. NO. 24-902

EFFICIENT COOLANT ATTACHMENT

Resinoid bonded diamond wheels used for chip-breaker grinding must be cool while grinding to prolong wheel life and efficiency. The Coolant Attachment provides just the proper amount of coolant for this purpose. The drop-feed is adjustable to regulate the amount of coolant

which is brought to the wheel by means of a wick. This wick also helps keep the wheel clean. The attachment is easily adjusted to different size wheels and can be easily and quickly removed if necessary.

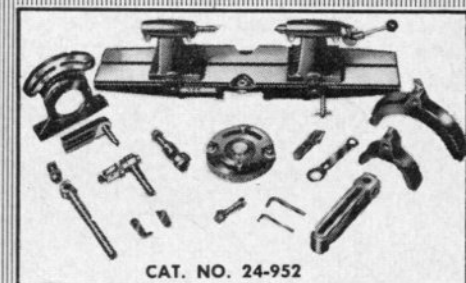
Coolant Attachment, complete. 3 lbs.

CAT. NO. 24-906

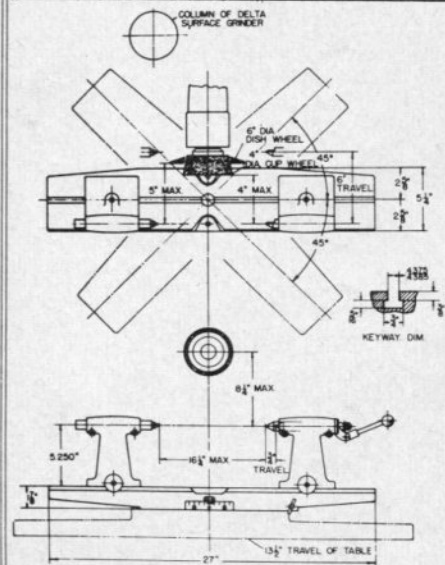
grinder Attachment - converts standard surface grinder to a tool and cutter grinder

The Tool and Cutter Grinding Attachment is designed and engineered to permit conversion of the basic Toolmaker Grinder for tool and cutter grinding work. This complete attachment, when added to the basic Toolmaker Grinder, provides the work-holding features for sharpening many types of small tools and cutters.

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. Can be used on Nos. 24-101, 24-103 and 24-105 Toolmaker Grinders. 82 lbs. CAT. NO. 24-952



CAT. NO. 24-952



Metal Dust Collector Safeguards Health ...protects machinery

Pressed steel cabinet is strong and husky . . . large door at back provides quick access to filter, door at top permits inspection of motor. Efficient, squirrel-cage fan moves 350 cubic feet of air per minute, develops static suction of 3 inches of water. The 1/3 HP, lubricated-for-life ball bearing motor is in a separate compartment, away from harmful dust. Fireproof, cleanable filter is easily removed for cleaning. Overall dimensions: height 28", depth 21", width 22".

Unit is ideal for grinding, polishing, buffing and other operations where dust must be efficiently collected to protect workers' health, also keeps harmful dust away from expensive machinery.

A self-contained, portable unit, it collects both fine and coarse dust and particles. Openings are so located that it can be attached to all types of abrasive units.

Note: This Dust Collector is not suitable for collecting wood shavings and saw dust.

Dust Collectors

For Single Phase Operation

1/3 HP, 115/230 V, 60 cy, 3450 rpm. Includes on-and-off switch, switch rod, 115 V 8-foot cord, 3-prong grounding type plug and adapter, mounted and wired. 120 lbs. **CAT. NO. 49-520**

For 3 Phase Operation

1/3 HP, 208-220/440 V, 50/60 cy, 2850/3450 rpm. Includes 3-pole on-and-off switch, switch rod, 8-foot cord and 220 V 3-prong "crowfoot" type plug, mounted and wired. 120 lbs.

CAT. NO. 49-521

Accessories for Dust Collectors

Extra Standard Filter. 8 lbs. **CAT. NO. 49-529**
Filter Pad Holder with two expanded Filter Pads. 7 lbs. **CAT. NO. 49-531**

Twenty-four Expanded Fiber Filter Pads in carton. For fine dust. 15 lbs. **CAT. NO. 49-532**
When ordering Dust Collector, remember to order proper Attachment Package listed below.

ATTACHMENT PACKAGES

(Include Connection Fitting)

12" Cut-Off Machine Attachment. 12 1/4 lbs.

CAT. NO. 20-838

Standard Grinder Attachment. 8 lbs.

CAT. NO. 23-802

Toolmaker Grinder Attachment. 19 lbs.

CAT. NO. 24-819

Disk Abrasive Finishing Machine Attachment. 12 lbs.

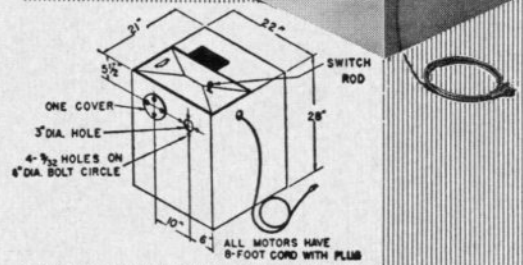
CAT. NO. 31-803

Attachment for Disc Unit of Combination Belt and Disc Finishing Machine. 12 lbs.

CAT. NO. 31-681

Attachment for 6" Belt Abrasive Finishing Machine and for Belt Unit of Combination Belt and Disc Finishing Machine. 7 lbs.

CAT. NO. 31-856



AVAILABLE CONNECTION FITTINGS

Flexible Rubber Hose, 2-5/16" I.D. x 20" long. 2 lbs. **CAT. NO. 49-533**

Flexible Rubber Hose, 3" I.D. x 22" long. 2 lbs. **CAT. NO. 49-534**

Flexible Rubber Hose, 3" I.D. x 48" long. 5 lbs. **CAT. NO. 49-535**

Flange for 2 5/16" hose, with mounting screws and washers. 2 1/2 lbs. **CAT. NO. 49-538**

Flange for 3" hose, with mounting screws and washers. 2 3/4 lbs. **CAT. NO. 49-539**

Hose Clamps adjustable to hose. 1/2 lb. **CAT. NO. 49-541**

Layout Plates for Layout, Testing and Inspection Work

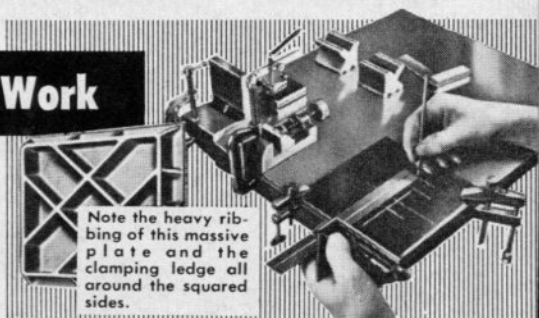
Delta Surface Plates offer the four essentials of a 100% useful surface plate:

1. A true surface to start with.
2. A properly ribbed casting to insure that the surface stays true.
3. Adequate ledges at the edges of the plate for clamping purposes.
4. Edges that are machined square with one another and with the surface.

Low cost Delta Surface Plates have a corner to corner out of flat tolerance of + or -.0005. They can easily and economically be made into precision plates simply by scraping to a master plate or each other.

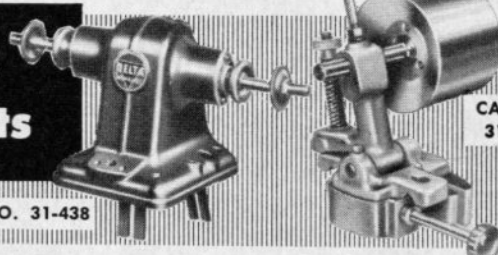
Size 15" x 18" x 3". 63 lbs. **CAT. NO. 640**

Size 16" x 22" x 3". 71 lbs. **CAT. NO. 641**



Note the heavy ribbing of this massive plate and the clamping ledge all around the squared sides.

Belt Grinding, Deburring and Polishing Components



CAT. NO. 31-438

CAT. NO. 31-875

CAT. NO. 31-425

CAT. NO. 31-876

Build your own Grinding and Polishing Units around the 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.

ARBOR HEAD

Husky and engineered for long life, it can be mounted on your machine stand or on a bench top. The 5/8" arbor runs in sealed, lubricated-for-life ball bearings. Arbor shaft extends 3 1/2" out from the inner flange on either side of the head. Arbor shaft ends have a 2 1/2" ground Acme thread to accommodate contact rolls and wheels from 7/8" to 2 7/8" in width.

Arbor Head, complete with dynamically balanced arbor pulley, two No. 560 drive belts, two 2 1/2" diameter flanges with nuts to fit 5/8" arbor. 31 lbs. **CAT. NO. 31-438**

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.

Backstand Idler Unit with 4" wide by 5 3/8" dia. drum, complete with mounting bolts and instructions for changing from right-hand to left-hand set-ups. 20 lbs. **CAT. NO. 31-425**

2 3/4" LEFT IDLER UNIT

Similar to No. 31-425 except drum is 2 3/4" wide. Includes instructions for right-hand assembly. 20 lbs. **CAT. NO. 31-431**

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. If your type of grinding varies, you can order correct tires to meet your needs.

Rubber Contact Wheel complete. Consists of No. 31-875 Tire and No. 31-876 Hub. 12 lbs.

CAT. NO. 31-877

Rubber Tire for Contact Wheel, 2 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. Other tires with a choice of durometer and face for a wide range of work, with correct mounting dimensions for the Delta No. 31-876 Hub, can be obtained from regular industrial distributors and other sources. 6 1/2 lbs. **CAT. NO. 31-875**

Hub for Contact Wheel. 5/8" bore, consists of bushing and washer for mounting No. 31-875 Tire and other tires with same mounting dimensions. 6 1/2 lbs. **CAT. NO. 31-876**



No. 23-220 7" Standard Grinder equipped with Plane Blade Grinding Attachment (see P. 38 for accessory description).

new DELTA 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 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!*

catalog listing

1/2 HP GRINDERS

Cat. No.	Type	Motor	Speed RPM	Motor Switch	Ship. Wt.
23-200	Bench	115/230V, 60 cy, Sgl. Ph.	1725	Toggle	82
23-201	Bench	115/230V, 60 cy, Sgl. Ph.	3450	Toggle	82
x23-109	Bench	115/230V, 50 cy, Sgl. Ph.	2850	Toggle	95
§23-203	Bench	208-220/440V, 50/60 cy, 3 Ph.	2850/3450	*None	82
23-220	Pedestal	115/230V, 60 cy, Sgl. Ph.	1725	Toggle	149
23-221	Pedestal	115/230V, 60 cy, Sgl. Ph.	3450	Toggle	149
x23-409	Pedestal	115/230V, 50 cy, Sgl. Ph.	2850	Toggle	166
†23-226	Pedestal	208-220/440V, 50/60 cy, 3 Ph.	2850/3450	*Relay	146
‡23-227	Pedestal	208-220/440V, 50/60 cy, 3 Ph.	2850/3450	*Relay	146

1/2 HP BUFFERS

Cat. No.	Type	Motor	Speed RPM	Motor Switch	Ship. Wt.
23-210	Bench	115/230V, 60 cy, Sgl. Ph.	3450	Toggle	45
23-211	Bench	115/230V, 60 cy, Sgl. Ph.	1725	Toggle	45
23-230	Pedestal	115/230V, 60 cy, Sgl. Ph.	3450	Toggle	112
23-231	Pedestal	115/230V, 60 cy, Sgl. Ph.	1725	Toggle	112

§When manual starter with overload protection is desired, use No. 1320 Manual Starter. Specify grinder catalog number and voltage when ordering starter.

*Separate toggle switch is furnished for Twin Lites®.

†With thermal elements and wiring for 220V operation.

‡With thermal elements and wiring for 440V operation.

xWith larger motor—6 $\frac{1}{2}$ " in diameter.

CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

Bench Grinder, same as No. 23-200, except includes No. 1294 Plane Blade Grinding Attachment. 101 lbs. **CAT. NO. 23-240**
 Pedestal Grinder, same as No. 23-220, except includes No. 1294 Plane Blade Grinding Attachment. 167 lbs. **CAT. NO. 23-244**

specifications

Motor

Horsepower	1/2
Shaft Diameter	5/8"
Extends Beyond Flange	1 3/4"
Frame Diameter	5 $\frac{23}{32}$ "

Wheels

Size	7" Dia., 1" Face, 5/8" Hole
Balance	1/10-inch Ounce
Distance Between Centers	14 1/2"

Pedestal Type

Base	14 1/4" x 16"
Width	23 1/4"
Depth	15"
Height	47 1/2"
Tool Rest From Base	40"

Bench Type

Base	8 1/2" x 8 1/2"
Width	23 1/4"
Depth	11"
Height	13 3/4"
Tool Rest From Base	6 5/8"

STANDARD EQUIPMENT

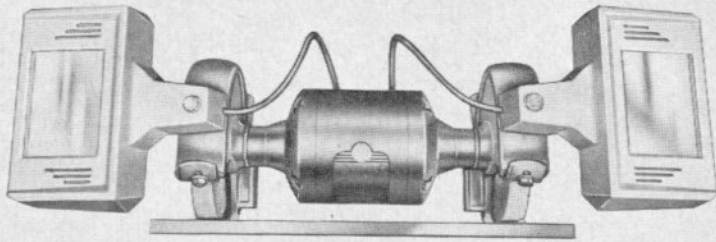
Grinders are furnished with a water pot, Twin-Lite® safety shields, four lamp bulbs, wheel guards, tool rests and two wheels. Forgoing equipment not furnished on buffers. Single phase models are wired for 115V operation and include on-and-off switch with 115V 8-foot grounding cord, 3-prong plug and adapter.

ACCESSORIES

Vit. Al. Oxide Wheel, 5/8 x 7", 46 G., Grade N, 5/8" hole. Special friable wheel for drill and plane blade grinding. 2 lbs.	CAT. NO. 1267
Al. Oxide Wheel, 1 x 7", 60 G., Grade N, 5/8" hole. 4 lbs.	CAT. NO. 23-815
Al. Oxide Wheel, 1 x 7", 46 G., Grade M, 5/8" hole. 4 lbs.	CAT. NO. 23-816
<i>All wheels, including original equipment, are balanced to 1/10-inch ounce.</i>	
Diamond Pointed Wheel Dressing Tool. 1 lb.	CAT. NO. 3121
Holder for Diamond Wheel Dresser. 1 lb.	CAT. NO. 1664
Fine-knotted Wire Brush, 5/8" hole, 6" dia. 1 lb.	CAT. NO. 1236
Medium-knotted Wire Brush, 5/8" hole, 6" dia. 1 lb.	CAT. NO. 1237
Coarse-knotted Wire Brush, 5/8" hole, 6" dia. 1 lb.	CAT. NO. 1238
Twin-Lite Shield (one only), no bulbs. 3 lbs.	CAT. NO. 1250
Bayonet Type Lamp Bulb. 1/4 lb.	CAT. NO. 1280
Pedestal for Standard 7" Grinders. 80 lbs.	CAT. NO. 23-805

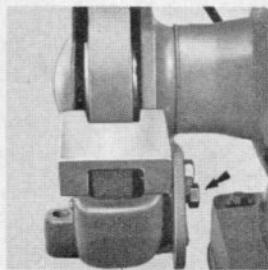
Note: For Plane Blade Grinding Attachment, Gravity Type Dust Collector and other accessories, see Page 38. For Motor Driven Dust Collector, see Page 35.

the Grinder with *All* the features *You Want*



NEW '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.

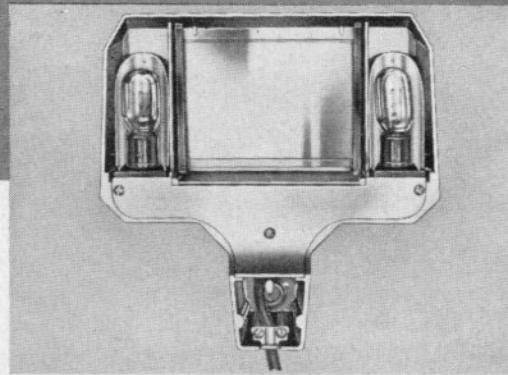


PRECISION GROUND TOOL RESTS

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.

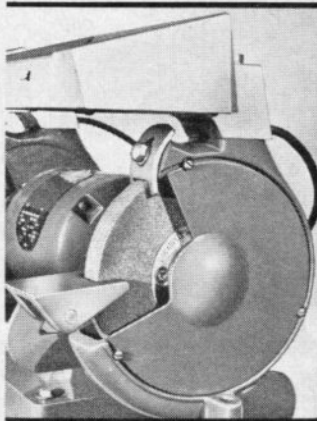
DELTA Quality Grinder Extras

- ★ Single phase, 115/230 V motor is capacitor start type requiring low starting current—won't dim lights like split-phase motors.
- ★ Balanced motor, and wheels which are balanced to within 1/10-inch ounce, assure extra smooth operation.
- ★ Large, over-size wheel flanges eliminate wheel breakage, meet ASA safety code specifications.
- ★ Wheel guard chutes utilize the natural fan action of the grinding wheels, make installation of dust collectors an easy job.
- ★ Handy water pot conveniently mounts on either side.



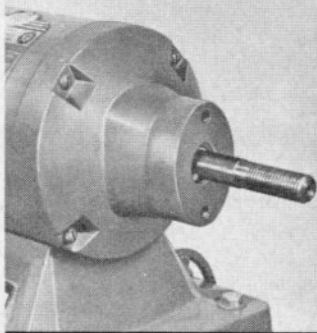
PATENTED TWIN-LITE® SAFETY SHIELDS

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.



ADVANCED SAFETY FEATURES

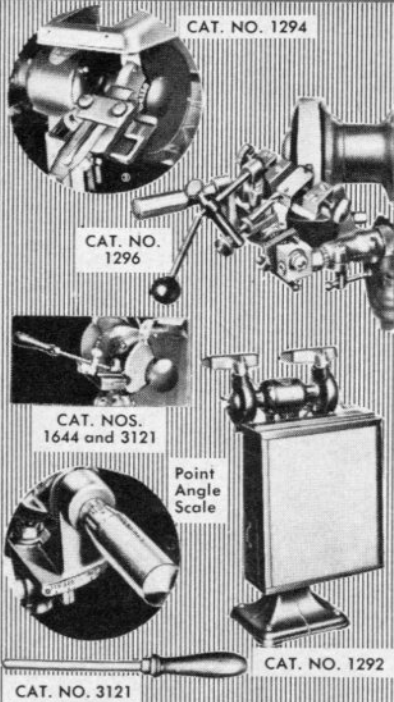
This unmatched combination of safety features makes the New Delta Grinder the safest 7" grinder on the market! Shatterproof glass in patented eye shields, heavy cast iron guards with integral dust chutes, removable steel side plates, and adjustable spark deflectors provide maximum safety to the operator.



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.

Other Accessories for the DELTA 7" STANDARD GRINDER



CAT. NO. 1294

CAT. NO. 1296

CAT. NOS. 1644 and 3121

Point Angle Scale

CAT. NO. 1292

CAT. NO. 3121

PLANE BLADE 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.

Fully machined table tilts for desired angle. 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. Can be used with No. 3121 Diamond Wheel Dresser instead of No. 1664 Wheel Dressing Tool Holder.

Plane Blade Grinding Attachment. 6 lbs.
CAT. NO. 1294

DIAMOND POINTED WHEEL DRESSER

For dressing all types of general grinding wheels. Diamond is securely held. Sturdy tool is 9½" long with a comfortable handle. Diamond Pointed Wheel Dresser. 1 lb.

Wheel Dressing Tool Holder. 1 lb. (Included with Cat. No. 1296).
CAT. NO. 3121
CAT. NO. 1664

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 — ⅛ to ⅝" drills.

Drill Grinding Attachment with No. 1664 holder for wheel dresser. 9 lbs. Order diamond dresser No. 3121 separately. CAT. NO. 1296

*MOTORLESS, GRAVITY TYPE DUST COLLECTOR FOR 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.

Dust Collector Unit for pedestal grinder. Complete with filter, brackets and screws. 28 lbs.
CAT. NO. 1292

Replaceable Filter for above. 9 lbs.
CAT. NO. 1293

*For complete information on motor driven dust collector for 7" Standard Grinder, see Page 35.

DELTA 6" bench grinder

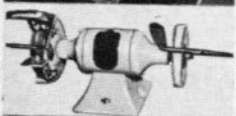
GRINDER FEATURES



Tool rests adjustable to any angle.



Adjustable eyeshields move up, down, left and right.



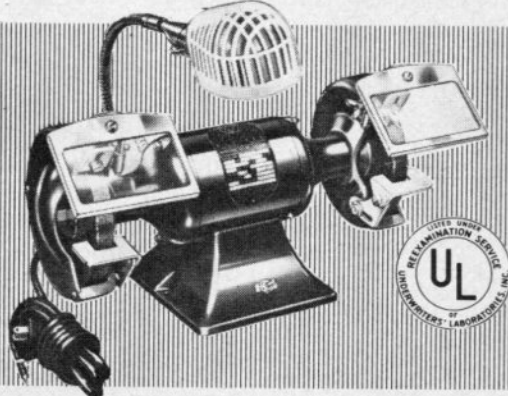
Extended end bells permit even golf clubs to be buffed.



Shatterproof eyeshield has easy mounting bracket and screws.



Small diameter motor leaves plenty of clearance even after wheel wear.



Approved in Canada

specifications

Overall dimensions:
Left to right
With eyeshields 20"
Without eyeshields 18"
Height 9"
Front to rear 8"
Shipping weight 42 lbs.
Size of wheel
. 6" dia., ¾" wide, ½" hole

Wheel Flange diameter... 2½"
Center to center distance
between wheels 14½"
Arbor 7/8" dia.—ends
threaded ½"-20 left and right
Speed 3450 rpm
Motor
½ hp, 115V., 60 cy., AC, 1 ph.

LOW COST—PRECISION BUILT

The Delta 6" Bench Grinder is an all-around unit for grinding, polishing and buffing. Its accuracy is insured by balanced grinding wheels, a precision-ground shaft and sealed-for-life ball bearings. Maximum safety is guaranteed by such features as adjustable spark guards, cast iron wheel guards with steel end plates and fully adjustable tool rests. Fully adjustable, shatterproof eyeshields also available. Only that part of the grinding wheel being used is actually exposed. Increase the efficiency of your operation. Place one of these low-cost grinders at every bench in your shop!

catalog listing

BASIC MACHINE: 6" Ball Bearing Grinder with wheel and spark guards, tool rests, on-and-off switch with 115V 8-foot grounding type plug and adapter, and two wheels — 36 and 60 grit. Less eyeshields and Lamp attachment.
CAT. NO. 23-625

ACCESSORIES

Wire Wheel, 6" dia., coarse, 2 sections for use singly or together.
CAT. NO. 3113

Wire Wheel, same as 3113 except fine wire.
CAT. NO. 3114

Fiber Brush, same as 3113 except fiber brush.
CAT. NO. 3115

Cloth Buffing Wheel, ½ x 6", ½" hole, circular stitched.
CAT. NO. 4005

Polishing Bar for gold and silver. 1 lb.
CAT. NO. 4007

Polishing Bar for nickel, chrome, iron and brass. 1 lb.
CAT. NO. 4008

Polishing Bar for removing rust, scale and tarnish. 1 lb.
CAT. NO. 4009

Polishing Bar for aluminum, copper, pewter and wood. 1 lb.
CAT. NO. 4010

Eyeshields, one pair, with brackets and screws.
CAT. NO. 23-800

Grinding Wheel, ¾ x 6", ½" hole, aluminum oxide, 36 grit, grade 0 (med. hardness and density).
CAT. NO. 23-826

Grinding Wheel, same as 23-826 except 60 grit.
CAT. NO. 23-827

Drill Chuck, 3-jaw, 0 to ¼" capacity, tapped ½"-20 to fit right shaft.
CAT. NO. 49-549

Lamp Attachment with 15" flexible gooseneck. Includes nylon shield, mounting bracket, switch and 8-foot cord with 2-prong plug. Uses standard bulb (not included) up to 100 watts. 2 lbs.
CAT. NO. 25-857

DELTA 6" tool grinder

The Delta 6" Tool Grinder saves time and money in any shop that does grinding or lapping of carbide-tipped tool bits or the grinding of either high-speed steel or stellite, single-point cutting tools.

IN THE SMALL SHOP . . .

It *reduces operating costs* because it makes possible internal grinding (tools do not have to be sent out), therefore, a smaller investment in tool bits 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.

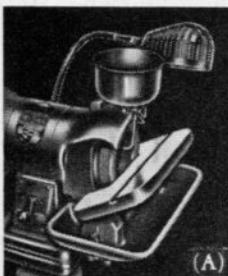
IN THE LARGE SHOP . . .

It will *break bottlenecks* in the *tool room* by taking a share of work away from the larger grinders. The use of smaller grinding wheels saves dollars in wheel costs, particularly when diamond wheels are used.

In the *experimental department* it enables the machinist to do his own grinding to his own specifications on the spot.

It's ideal for the *machine shop* because it can be placed right beside the production machine, enabling the machinist to do his own tool grinding without losing time by going across the shop to the tool room.

FEATURES FOR TOP GRINDING PERFORMANCE

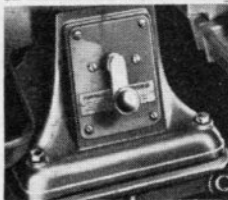


(A) The big, cast iron tables ride on widely-spaced trunnions for maximum rigidity in operation. They tilt 30° in and 45° out to allow for any grinding angle. Tables have a 1/2 x 3/16" groove for jigs and fixtures.

Note the large pans for catching water and sludge when wet grinding. Easily removed for cleaning, they have an alignment key that fits into a keyway on the grinder so that the table can be replaced in perfect alignment and the miter gage groove kept true with the face of the wheel.



(B) Photo shows water pot and copper tube which brings water to the wheel at the point it's needed. The water pot can be used on either side of the machine, stays in proper position because of tapered brass mounting post. Adjustable lamp can be swung to any position for perfect grinding illumination. Hand brake on each wheel saves time by making possible quick stops.



(C) The conveniently located, six-pole reversing switch instantly reverses the rotation of the wheel which makes it possible to do all grinding on the downward motion of the wheel.

OTHER OUTSTANDING FEATURES

Dynamically balanced aluminum wheel flanges drilled for mounting standard aluminum oxide, silicon carbide or diamond wheels . . . cast iron miter gage with adjustable face plate . . . fully enclosed, sealed-for-life grinder duty motor.

Grinder runs absolutely true and free from vibration to make possible the most delicate, accurate grinding.

ACCESSORIES FOR 6" TOOL GRINDER

Cat No.	Description	Wt. Lbs.
1661	Sil. Carb. Wheel, 1 x 6", 1" face, 60 G., Grade H 12, 1 1/4" hole	10
1662	Sil. Carb. Wheel, 1 x 6", 1" face, 120 G., Grade H 12, 1 1/4" hole	10
23-841	Al. Oxide Wheel, 1 x 6", 1" face, 46 G., Grade G, 1 1/4" hole . .	10
23-842	Al. Oxide Wheel, 1 x 6", 1" face, 80 G., Grade J, 1 1/4" hole . .	10
3121	Diamond Pointed Wheel Dressing Tool	1
1664	Holder for Diamond Wheel Dresser	1
1663	Water Pot with faucet	5
23-805	Pedestal for Carbide Grinder	69
31-804	Miter Gage	4
25-857	Lamp Attachment with 15" flexible gooseneck. Includes nylon shield, mounting bracket, switch and 8-foot cord with 2-prong plug. Uses standard bulb (not included) up to 100 watts . . .	2

Wheels Not
Furnished With
Grinder (Order
Separately).



specifications

Height 48"
Width 28"
Depth 14"
Tables 13 x 7"
Tables have 1/2 x 3/16"
groove. Tables tilt 30°
toward and 45° away
from wheel.
Accommodates stand-
ard plate-mounted
aluminum oxide, sil-
icon carbide or dia-
mond wheels.
Base 14 x 16"



Approved
in Canada

catalog listing

BENCH TYPE MACHINES

Cat. No.	Motor Description	Speed RPM	Ship. Wt.
23-505	1/2 HP, 115/230V, 60 cy, Single Ph. . . .	3450	140
23-510	1/2 HP, 208-220/440V, 50/60 cy, 3 Ph. . .	2850/3450	140

PEDESTAL TYPE MACHINES

Cat. No.	Motor Description	Speed RPM	Ship. Wt.
23-555	1/2 HP, 115/230V, 60 cy, Single Ph. . . .	3450	211
23-560	1/2 HP, 208-220/440V, 50/60 cy, 3 Ph. . .	2850/3450	211

STANDARD EQUIPMENT

All models have 1 lamp attachment, 1 water pot, 1 miter gage, and reversing switch. When overload protection is desired, use No. 49-365 Overload Switch. Specify grinder catalog number and voltage when ordering switch. Single phase models are wired for 115V operation and include on-and-off reversing drum switch control with 115V 8-foot grounding cord, 3-prong plug and adapter.

DELTA 6" abrasive belt finishing machine

An ideal unit for the machine shop, pattern shop, experimental department, assembly department, cabinet shop and furniture factory. Does finishing, mitering, deburring, chamfering and other operations in both wood and metal.

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 free-hand finishing of odd shapes; removable upper guard for contour finishing on idler drum.

catalog listing

BASIC MACHINE WITHOUT STAND: 6" Abrasive Belt Finishing Machine with No. 5400 4" V-pulley ($\frac{3}{4}$ " bore), No. 1414 100 grit, fine, aluminum oxide belt and guards. Without table, fence, backstop, V-belt, V-belt guard, motor and switch, and motor pulley. 86 lbs. **CAT. NO. 1400**

BASIC MACHINE WITH STEEL STAND: Same as No. 1400 except with No. 50-406 steel stand, No. 1401 tilting table, No. 1411 belt guard, No. 560 58-5/16" OC V-belt and No. 5500 5" motor pulley (specify bore). Without fence, backstop, motor and switch rod. 124 lbs. **CAT. NO. 31-505**

BASIC MACHINE WITH CAST IRON STAND: Same as No. 1400 except with No. 31-852 cast iron stand with sub-base and belt guard, No. 1401 tilting table, No. 595 61-13/16" OC V-belt and No. 5500 5" motor pulley (specify bore). Without fence, backstop, motor and switch. 205 lbs. Requires No. 132 switch for single phase or DC motor. **CAT. NO. 31-506**

Note: Items bearing individual catalog numbers, as included in No. 1400, No. 31-505 and No. 31-506, can be ordered separately; see price list.

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

Motor, $\frac{3}{4}$ HP, 115/230 V, capacitor, AC, 60 cy, 1725 rpm. Includes on-and-off switch, 115 V 8-foot cord, 3-prong grounding type plug and adapter. 50 lbs. **CAT. NO. 82-910**

Motor 1 HP, 115/230 V, capacitor, AC, 60 cy, 1725 rpm. Includes on-and-off switch, 115 V 8-foot cord, 3-prong grounding type plug and adapter. 70 lbs. **CAT. NO. 83-510**

Switch Rod with mounting parts for No. 31-505 unit with steel stand. Fits toggle switch of single phase and DC motors. 1 lb. **CAT. NO. 1334**

On-and-off Toggle Switch. With lock feature, in special case without cover. Includes 3-wire 3-foot power cord. For No. 31-506 unit with cast iron stand. 1 $\frac{1}{2}$ lbs. **CAT. NO. 132**

FOR 3 PHASE OPERATION

Motor, $\frac{3}{4}$ HP, 208-220/440 V, AC, 50/60 cy, 1425/1725 rpm. Without switch or power cord. 42 lbs. **CAT. NO. 86-720**

Motor, 1 HP, 208-220/440 V, AC, 50/60 cy, 1425/1725 rpm. Without switch or power cord. 56 lbs. **CAT. NO. 86-920**

Motor, 1 $\frac{1}{2}$ HP, 208-220/440 V, AC, 50/60 cy, 1425/1725 rpm. Without switch or power cord. 52 lbs. **CAT. NO. 87-120**

Starter, Manual. Provides overload protection. Specify motor number and voltage when ordering. 6 lbs. **CAT. NO. 1320**

Starter, Magnetic. For 60 cy, 208-220 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-393**

Starter, Magnetic. For 60 cy, 440 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-394**

Mounting Bracket for mounting above starters on steel stand. 3 lbs. **CAT. NO. 49-318**

ACCESSORIES

Auto-Set Miter Gage. 4 lbs. **CAT. NO. 864**

Tilting Table, with trunnion assembly. 16 lbs. **CAT. NO. 1401**

Backstop, complete with bracket. 4 lbs. **CAT. NO. 1403**

Wood Fence, 3 $\frac{1}{4}$ x 17 $\frac{1}{2}$ ", with brackets. 5 lbs. **CAT. NO. 1410**

Garnet Belt for wood, 6 x 48", 80 grit, fine. 1 lb. **CAT. NO. 1412**

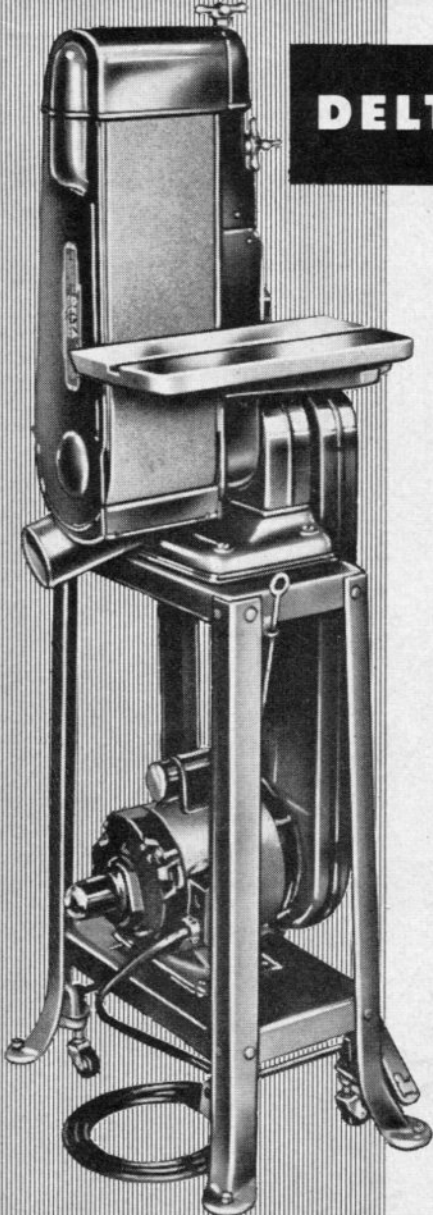
Garnet Belt for wood, 6 x 48", 40 grit, coarse. 1 lb. **CAT. NO. 1413**

Al. Oxide Belt for Metal, 6 x 48", 100 grit, fine. 1 lb. **CAT. NO. 1414**

Al. Oxide Belt for Metal, 6 x 48", 50 grit, coarse. 1 lb. **CAT. NO. 1415**

Attachment Package for dust collector. Includes 3" hose, 22" long, and necessary hardware. 7 lbs. **CAT. NO. 31-856**

Retractable Caster Set for No. 50-406 steel stand. 13 lbs. **CAT. NO. 49-363**



Also available on cast iron stand as No. 31-506, illustrated below.

ABRASIVE BELT FINISHER with METAL DUST COLLECTOR

See Page 35 for Dust Collector



specifications

Overall dimensions on stand:

Vertical:	
Front to rear	21"
Width	18"
Height	54"
Horizontal:	
Front to rear	28"
Width	18"
Height	36"
Table size	7 $\frac{7}{8}$ x 14 $\frac{3}{4}$ "
Table tilt	45° out; 20° in
Miter gage groove	3 $\frac{3}{8}$ x 3 $\frac{3}{4}$ "
Platen	6 $\frac{1}{4}$ x 14 $\frac{3}{4}$ "
Belt	6 x 48"
Belt speed	3415 FPM

CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

FOR SINGLE PHASE OPERATION

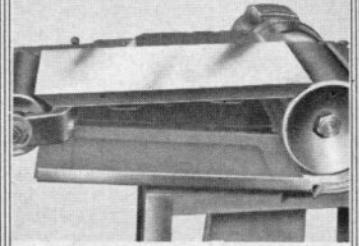
6" Abrasive Belt Finishing Machine complete. Includes 31-505 unit with steel stand, 82-910 $\frac{3}{4}$ HP motor and 1334 switch rod. 175 lbs. **CAT. NO. 31-511**

6" Abrasive Belt Finishing Machine complete. Includes 31-506 unit with cast iron stand, 82-910 $\frac{3}{4}$ HP motor and 132 switch. 257 lbs. **CAT. NO. 31-521**

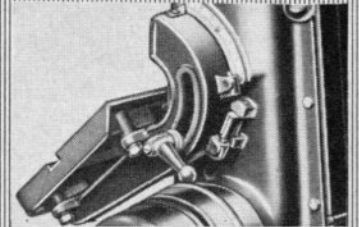
FOR 3 PHASE OPERATION

6" Abrasive Belt Finishing Machine complete. Includes 31-505 unit with steel stand, 86-720 $\frac{3}{4}$ HP motor, 1320 starter (specify voltage) and 49-318 mounting bracket. 175 lbs. **CAT. NO. 31-513**

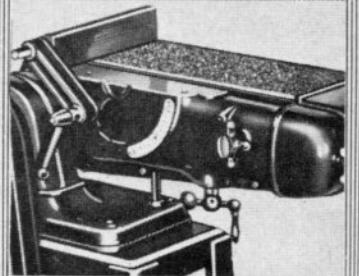
6" Abrasive Belt Finishing Machine complete. Includes 31-506 unit with cast iron stand, 86-720 $\frac{3}{4}$ HP motor and 1320 starter (specify voltage). 253 lbs. **CAT. NO. 31-523**



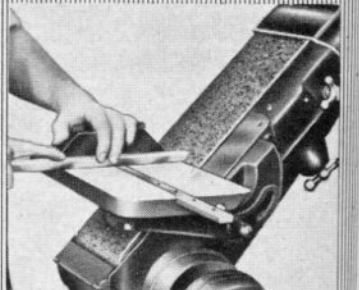
New platen, with a hard chrome plated wear surface, maintains original machine accuracy much longer. Special surface also reduces friction between platen and belt (less drag on motor). Platen may be removed for contour sanding with a slack belt.



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 No. 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.

DELTA 12" abrasive disk finishing machine

Another top quality Delta finishing machine designed for all types of finishing work on woods or metals. Easily moved into or out of the production line or anywhere in the shop where fast, accurate finishing is required.

Delta *quality* features include—fully machined, normalized disk that runs vibration-free and assures proper adhesion of abrasive disks . . . disk mounted to end of motor shaft for powerful, accurate operation . . . husky spindle carried on sealed-for-life ball bearings . . . scientifically ribbed table supported by widely spaced trunnions. These and other *big* features make this machine extremely popular in hundreds of installations from the pattern shop to the factory production line!

catalog listing

BASIC MACHINE WITHOUT STAND: 12" Direct Motor Drive Abrasive Finishing Machine with tilt table. Without motor and switch. 56 lbs. **CAT. NO. 1426**

BASIC MACHINE WITH STEEL STAND: 12" Direct Motor Drive Abrasive Disk Finishing Machine with No. 50-432 steel stand, tilting table and one 12" diameter, 50 grit, medium, garnet disk for wood. Without motor and switch. 92 lbs. **CAT. NO. 31-105**

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

Motor, ½ HP, 115/230 V, capacitor, AC, 60 cy, 1725 rpm. Includes on-and-off switch, 115 V 8-foot cord, 3-prong grounding type plug and adapter. 52 lbs. **CAT. NO. 82-710**

Motor, ¾ HP, 115/230 V, capacitor, AC, 60 cy, 1725 rpm. Includes on-and-off switch, 115 V 8-foot cord, 3-prong grounding type plug and adapter. 50 lbs. **CAT. NO. 82-910**

FOR 3 PHASE OPERATION

Motor, ½ HP, 208-220/440 V, AC, 50/60 cy, 1425/1725 rpm. Without switch or power cord. 44 lbs. **CAT. NO. 86-520**

Motor, ¾ HP, 208-220/440 V, AC, 50/60 cy, 1425/1725 rpm. Without switch or power cord. 42 lbs. **CAT. NO. 86-720**

Motor, 1 HP, 208-220/440 V, AC, 50/60 cy, 1425/1725 rpm. Without switch or power cord. 56 lbs. **CAT. NO. 86-920**

Starter, Manual. Provides overload protection. Specify motor number and voltage when ordering. 6 lbs. **CAT. NO. 1320**

Starter, Magnetic. For 60 cy, 208-220 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-393**

Starter, Magnetic. For 60 cy, 440 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-394**

Mounting Bracket for mounting above starters on steel stand. 3 lbs. **CAT. NO. 49-318**

ACCESSORIES

Auto-Set Miter Gage, 4 lbs. **CAT. NO. 864**

Garnet Disk for wood, 12" diameter, 50 grit, medium (½ doz.) 1¼ lbs. **CAT. NO. 1427**

Aluminum Oxide Disk for metal, 12" diameter, 60 grit, medium (½ doz.) 1¼ lbs. **CAT. NO. 1428**

Disk Assembly with flange and set screws. 10 lbs. **CAT. NO. 1430**

Retractable Caster Set for No. 50-432 Steel Stand. 13 lbs. **CAT. NO. 49-362**

Disk Adhesive. 1 lb. **CAT. NO. 49-503**

Steel Stand, 31½" high with top 12½ x 16½". 36 lbs. **CAT. NO. 50-432**

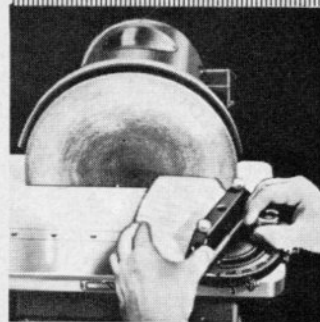
CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

FOR SINGLE PHASE OPERATION

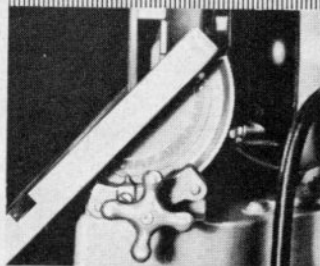
12" Direct Motor Drive Abrasive Disk Finishing Machine complete. Includes 31-105 unit with *steel stand*, 86-520 ½ HP motor with switch. 144 lbs. **CAT. NO. 31-111**

FOR 3 PHASE OPERATION

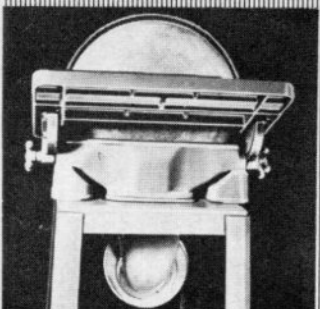
12" Direct Motor Drive Abrasive Disk Finishing Machine complete. Includes 31-105 unit with *steel stand*, 86-520 ½ HP motor, 1320 starter (specify voltage) and 49-318 mounting bracket. 136 lbs. **CAT. NO. 31-113**



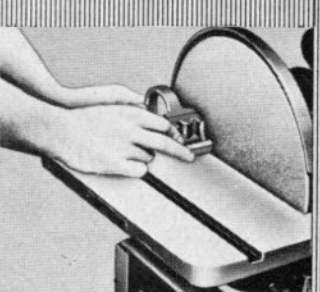
Plain and compound miters are easily handled with the aid of the No. 864 Miter Gage. Accuracy makes it an ideal pattern shop tool.



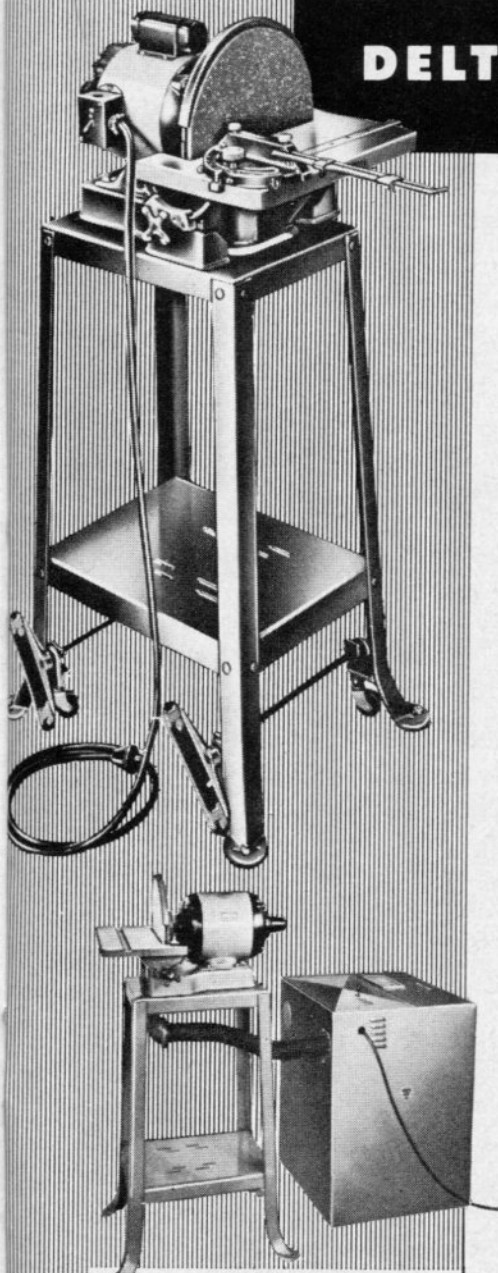
Handy lock knob on either side of table locks it securely at any angle. Easy-to-read scale shows exact degree of tilt.



Scientifically ribbed table is mounted on two widely spaced trunnions for maximum support and rigidity. Dust chute carries off sawdust to the rear.



All kinds of deburring, grinding and finishing can be done quickly and easily — free-hand curved grinding, finishing with jigs, angle grinding, miter finishing.



ABRASIVE DISK FINISHING MACHINE SHOWN WITH METAL DUST COLLECTOR

See Page 35 for Dust Collector Desired

specifications

Overall dimensions on stand:

Floor Model:

Width 19"

Height 45"

Front to rear 23"

Table 9¾ x 16¼"

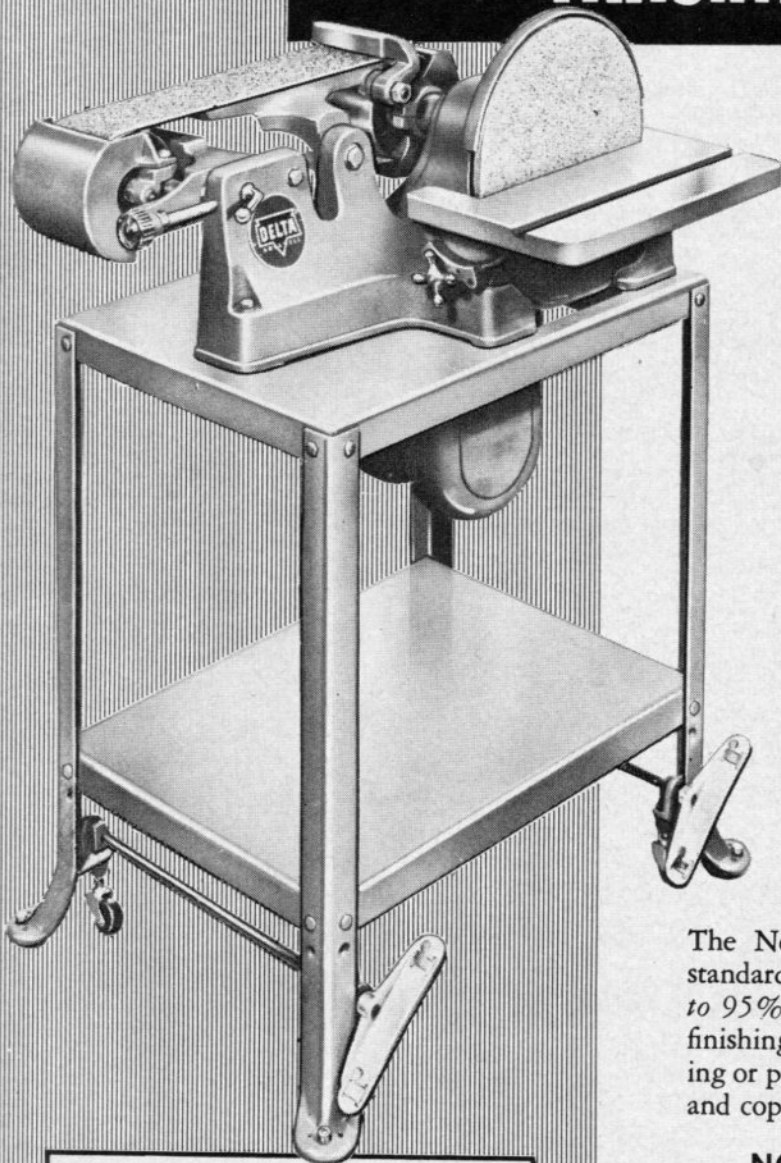
Miter gage groove dimensions ¾ x ¾"

Table tilt 45° out; 20° in

Disk 12" diameter with ¾" bore

Tilt gage has adjustable pointer

new DELTA belt and disc finishing machine

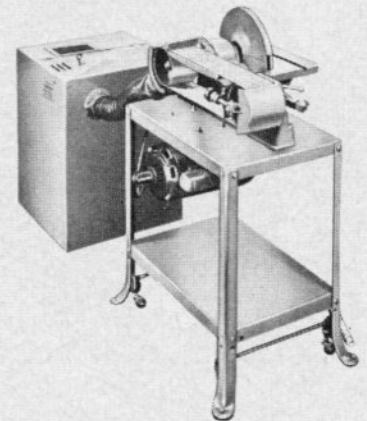


Belt and Disc Finishing Machine Shown With Retractable Casters.

Finishing Machine Shown With Wood Dust Collector. See Page 91 for Dust Collector and Adapters Desired.



Finishing Machine Shown With Metal Dust Collector. See Page 35 for Dust Collector and Adapters Desired.



The New Delta Belt and Disc Finishing Machine — with standard 4" belt and 12" disc — is capable of performing 90 to 95% of all your finishing operations! It's excellent for all finishing operations on wood and plastic; for grinding, surfacing or polishing steel components, die castings; aluminum, brass and copper parts, and a variety of other materials.

NO LOST MOTION — the new Delta Combination Finishing Machine enables you to move from one machine to the other — in seconds — as required when finishing curved, straight or irregular shaped parts.

SAVES SPACE AND REDUCES POWER COSTS — with two machines mounted on one stand and operated by one motor, you save valuable shop space . . . keep your motor costs to a minimum.

These time and money-saving features make the New Delta Belt and Disc Finishing Machine an excellent unit for use in wood and metal pattern shops, sign and display shops and all types of commercial shops throughout industry. It's also ideal for use in schools and better home workshops — virtually every installation where *custom or production finishing operations* must be performed efficiently and economically.

specifications

Overall Dimensions (on steel stand):

Width	25"
Height	43"
Depth	32"

Belt Finishing Machine:

Belt	4" x 52½"
Platen	4½" x 12"
Height—platen to floor.....	39"
Speed (with 1725 rpm motor).....	3320 fpm

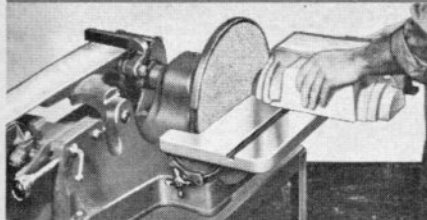
Disc Finishing Machine:

Disc	12" dia.
Table size	9¾" x 16¼"
Height—table to floor.....	35½"
Table tilt.....	20° toward, 45° away from disc
Speed (with 1725 rpm motor).....	2415 rpm

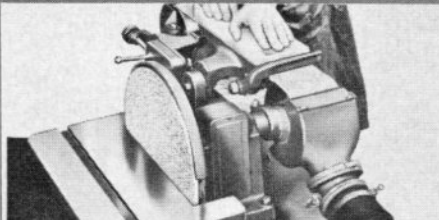
Shipping Weights:

Bench model	120 lbs.
Floor model	170 lbs.

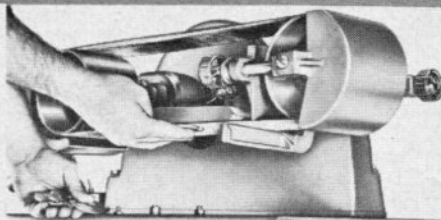
For Custom or Production Finishing EASIER .. BETTER .. FASTER—at less cost!



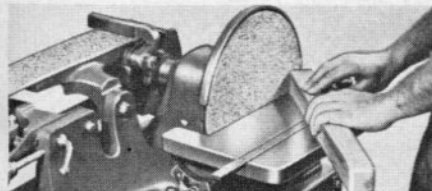
Big 9 3/4 x 16 1/4" table furnishes ample work support for finishing core prints of large patterns. Fully machined disc balanced for vibration-free operation, assures accurate finishing on close-tolerance pattern making jobs.



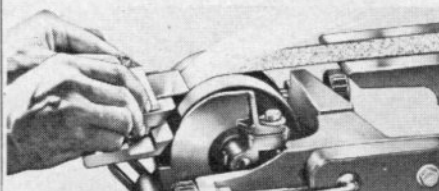
Handy, rigid backstop facilitates the finishing of flat work and simplifies the sanding of small pieces. Belt end guard has an adjustable dust deflector and built-in spout for attaching to wood and metal dust collecting systems.



Husky 4 1/4 x 12" platen can be inverted for underside general finishing or deburring operations on hard-to-handle parts. Easily removed for free-hand finishing of odd-shaped parts where a firm back support is not required.



Auto-Set Miter Gage (optional extra) makes chamfering, beveling, mitering, and end-sanding operations easy. Table can be tilted 20° toward and 45° away from disc for compound angle finishing. Easy-to-read tilt scale simplifies table settings.



Exclusive, new grinding attachment (Cat. No. 31-690) facilitates hollow grinding of plane irons, wood chisels and other cutting tools quickly and safely without burning or loss of temper. Carving and wood turning tools also can be sharpened free-hand.



Removable end guard permits inside contour finishing operations on idler drum. Belt tensioning and tracking controls are completely out of the way to facilitate the finishing of extra large, irregular pieces that must be finished on the belt unit.

catalog listing

BASIC MACHINE WITHOUT STAND: 4" Belt & 12" Disc Finishing Machine with No. 5350 motor pulley (3/4" bore), No. 340 V-belt, No. 1427 garnet disk (50 grit, medium) and No. 31-652 aluminum oxide belt (60 grit, medium). Without stand, motor and motor controls. 120 lbs. **CAT. NO. 31-700**

BASIC MACHINE WITH STEEL STAND: Same as No. 31-700 except with No. 50-435 steel stand and No. 31-661 belt and pulley guard. Without motor and motor controls. 170 lbs. **CAT. NO. 31-705**

Note: Items bearing individual catalog numbers, as included in No. 31-700 and No. 31-705, can be ordered separately; see accessory listing.

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

Motor, 3/4 HP, 115/230 V, capacitor, AC, 60 cy, 1725 rpm. Includes on-and-off switch, 115 V 8-foot cord, 3-prong grounding type plug and adapter. 50 lbs. **CAT. NO. 82-910**

Motor, 1 HP, 115/230 V, capacitor, AC, 60 cy, 1725 rpm. Includes on-and-off switch with 115 V 8-foot cord, 3-prong grounding type plug and adapter. 70 lbs. **CAT. NO. 83-510**

(Motors are mounted underneath stand. For convenience in operating single phase motors, No. 49-385 On-and-Off Toggle Switch Kit or No. 49-378 Push Button Switch is recommended.)

Toggle Switch, single pole, complete with cord and box 1 lb. **CAT. NO. 49-369**

Remote On-and-Off Control Switch Kit for use with No. 82-910 or 83-510 Motor. Provides up-front remote control utilizing the No. 1115 Switch furnished with the motor. 1 lb. **CAT. NO. 49-385**

Push Button Switch, (3-pole, complete with 6-wire cord assembly), switch box, box connector and cover. 1 1/2 lbs. **CAT. NO. 49-378**

FOR 3 PHASE OPERATION

Motor, 3/4 HP, 208-220/440 V, AC, 50/60 cy, 1425/1725 rpm. Without switch or power cord. 42 lbs. **CAT. NO. 86-720**

Motor, 1 HP, 208-220/440 V, AC, 50/60 cy, 1425/1725 rpm. Without switch or power cord. 65 lbs. **CAT. NO. 86-920**

Toggle Switch, 3-pole, complete with switch box, cover and box connectors. 1 1/2 lbs. **CAT. NO. 49-377**

Manual Starter, size 0, across-the-line type. Specify HP and voltage when ordering. 6 lbs. **CAT. NO. 1320**

Push Button Switch, 3-pole, complete with 6-wire cord assembly, switch box, box connector and cover. 1 1/2 lbs. **CAT. NO. 49-378**

Switch, Overload. Used with No. 49-377 or 49-378 Switch. Specify motor number and voltage when ordering. 3 lbs. **CAT. NO. 49-365**

Starter, Magnetic. Provides low-voltage, no-voltage and overload protection. For use with 208-220 V, 60 cy only. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-393**

Starter, Magnetic. Provides low-voltage, no-voltage and overload protection. For use with 440 V, 60 cy only. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-394**

Mounting Bracket. Includes screws for mounting starters on steel stand. 3 lbs. **CAT. NO. 49-317**

CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

FOR SINGLE PHASE OPERATION

4" Belt & 12" Disc Finishing Machine complete. Includes 31-705 Belt & Disc Finishing Machine with steel stand, belt and pulley guard, No. 82-910 3/4 HP motor and No. 49-385 switch. 218 lbs. **CAT. NO. 31-721**

4" Belt & 12" Disc Finishing Machine complete. Includes 31-705 Belt & Disc Finishing Machine with steel stand, belt and pulley guard, No. 83-510 1 HP motor and No. 49-385 switch. 240 lbs. **CAT. NO. 31-711**

FOR 3 PHASE OPERATION

4" Belt & 12" Disc Finishing Machine complete. Includes 31-705 Belt & Disc Finishing Machine with steel stand, belt and pulley guard, No. 86-720 3/4 HP motor, No. 1320 manual starter (specify voltage) and No. 49-317 mounting bracket. 217 lbs. **CAT. NO. 31-723**

4" Belt & 12" Disc Finishing Machine complete. Includes 31-705 Belt & Disc Finishing Machine with steel stand, belt and pulley guard, No. 86-920 1 HP motor, No. 1320 manual starter (specify voltage) and No. 49-317 mounting bracket. 231 lbs. **CAT. NO. 31-713**

ACCESSORIES

- Auto-Set Miter Gage. 4 lbs. **CAT. NO. 864**
- Garnet Disc for Wood, 12" dia., 50 grit, medium (1/2 doz.). 1 1/4 lbs. **CAT. NO. 1427**
- Al. Oxide Disc for Metal, 12" dia., 60 grit, medium (1/2 doz.). 1 1/4 lbs. **CAT. NO. 1428**
- Al. Oxide Belt for Metal, 4 x 52 1/2", 36 grit, coarse. 1 lb. **CAT. NO. 31-651**
- Al. Oxide Belt for Metal, 4 x 52 1/2", 60 grit, medium. 1 lb. **CAT. NO. 31-652**
- Al. Oxide Belt for Metal, 4 x 52 1/2", 120 grit, fine. 1 lb. **CAT. NO. 31-653**
- Al. Oxide Belt for Tool Sharpening, 2 x 52 1/2", 80 grit. 1/2 lb. **CAT. NO. 31-663**
- Garnet Belt for Wood, 4 x 52 1/2", 40 grit, coarse. 1 lb. **CAT. NO. 31-659**
- Garnet Belt for Wood, 4 x 52 1/2", 80 grit, fine. 1 lb. **CAT. NO. 31-660**
- Guard for V-belt and pulley. For added operator safety. 2 lbs. **CAT. NO. 31-661**
- Plane Blade Grinding Attachment. Complete with fully machined tilting table, adjustable quadrant, tool holder and belt. 7 lbs. **CAT. NO. 31-690**
- Retractable Caster Set for No. 50-435 steel stand. 12 lbs. **CAT. NO. 49-359**
- Disc Adhesive. 1 lb. **CAT. NO. 49-503**
- Steel Stand, 29" high with top 18 x 26". 48 lbs. **CAT. NO. 50-435**

new DELTA 8" long-bed jointer



NOW!

A new, modern, cabinet-type steel stand with built-in motor mount for quick, easy motor installation and a non-clogging dust chute that keeps motor free of chips and dust.



NEW KNIFE-SETTING FEATURE

Only the 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 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!

specifications

Table surface—Overall	9" wide x 66" long
Cutting capacity:	
Width	8-1/16", Depth 1/2"
Rabbeting capacity	1/2" x 8-1/16"
Table working height:	
Steel stand	32-3/8", Cast Iron Stand 34-7/8"
Table ways	dove-tailed
Fence	4" wide x 34" long
Fence tilts right and left	45°
Number of knives in cutterhead	3 High-Speed Steel
Cutting Circle	3" dia.
Cutterhead speed	5175 r.p.m.
	15,525 cuts per minute
Cutterhead runs in sealed, lubricated-for-life ball bearings	
Positive stops on fence	90°, 45° right & left
Overall Dimensions:	
Height (Bench Model)	13"
(On Steel Stand)	36-1/2"
(On Cast Iron Stand)	39"
Width	24-1/4", Length 66"
Shipping Weight (On Steel Stand)	332 lbs.
Shipping Weight (On Cast Iron Stand)	416 lbs.

Big! Rugged! Precision-built for years of accurate production work! Completely new, cabinet-type steel stand that fully encloses motor, belt and pulleys—specially balanced cutterhead with locked-in knives—single control that adjusts outfeed table for quick alignment with knives in cutterhead—big fence with 45° right or left tilt—massive, heavily ribbed 5½-foot bed. This Delta Jointer is especially ideal where speed, accuracy and low maintenance are required. Satisfied users include sash and door producers, furniture manufacturers, cabinet shops, shipyards, schools and many others.

GIVES YOU—

BIG

**CAPACITY...
SAFETY...
CONVENIENCE...**

**PLUS RUGGED CONSTRUCTION
to meet your every production requirement**

catalog listing

BASIC MACHINE, WITHOUT STAND: 8" Jointer with No. 37-308 set of 3 high-speed steel knives; two-way tilting fence; 2" OD arbor pulley and safety cutterhead guard. Without stand, motor pulley, V-belt, motor and switch. 272 lbs. **CAT. NO. 37-315**

BASIC MACHINE, WITH ENCLOSED TYPE STEEL STAND: Same as No. 37-315 except with No. 50-370 enclosed type steel stand (including belt guard, chip chute and motor mounting plate); No. 49-135 57-13/32" OC V-belt and No. 5650 6 1/2" OD motor pulley, 3/4" bore. Without motor and switch. 332 lbs. **CAT. NO. 37-317**

BASIC MACHINE, WITH CAST IRON STAND: Same as No. 37-315 except with No. 37-302 cast iron stand (including belt guard, chip chute, motor plate and motor cover); No. 49-108 62-13/32" OC V-belt and No. 5650 6 1/2" OD motor pulley, 3/4" bore. Without motor and switch. 416 lbs. **CAT. NO. 37-316**

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

Motor, 3/4 HP, 115/230 V, capacitor, AC, 60 cy, 1725 rpm. Includes on-and-off switch, 115 V 8-foot cord, 3-prong grounding type plug and adapter. Uses No. 49-385 or No. 132 Switch (see Page 94 for description). 50 lbs. **CAT. NO. 82-910**

Motor, 1 HP, 115/230 V, capacitor, AC, 60 cy, 1725 rpm, with remote on-and-off switch control (No. 132) wired to motor and 8-foot grounding cord with 3-prong tandem blade plug wired to switch. Motor wired for 230 V. 75 lbs. **CAT. NO. 83-560**

FOR 3 PHASE OPERATION

Motor, 3/4 HP, 208-220/440 V, AC, 50/60 cy, 1425/1725 rpm. Without switch or power cord. 42 lbs. **CAT. NO. 86-720**

Motor, 1 HP, 208-220/440 V, AC, 50/60 cy, 1425/1725 rpm. Without switch or power cord. 56 lbs. **CAT. NO. 86-920**

Motor, 1 1/2 HP, 208-220/440 V, AC, 50/60 cy, 1425/1725 rpm. Without switch or power cord. 52 lbs. **CAT. NO. 87-120**

Starter, Manual. Provides overload protection. Specify motor number and voltage when ordering. 6 lbs. **CAT. NO. 1320**

Starter, Magnetic. For 60 cy, 208-220 V only. Provides low-voltage no-voltage and overload protection. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-393**

Starter, Magnetic. For 60 cy, 440 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-394**

ACCESSORIES

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. 58 lbs. **CAT. NO. 50-370**

V-belt, 57-13/32" OC, required for No. 50-370 Steel Stand. 1 lb. **CAT. NO. 49-135**

Cast Iron Stand, 14" wide x 22 1/2" long x 26" high, complete with belt guard, chip chute, motor plate and motor cover. 142 lbs. **CAT. NO. 37-302**

V-belt, 62-13/32" OC, required for No. 37-302 Cast Iron Stand. 1 lb. **CAT. NO. 49-108**

Motor Pulley, 3/4" bore, 6 1/2" OD, required. Used with either steel or cast iron stand. 1 1/2 lbs. **CAT. NO. 5650**

Set of 3 High-Speed Steel Cutter Knives for No. 37-315 Jointer. 5 lbs. **CAT. NO. 37-308**

Set of 4 High-Speed Steel Cutter Knives for No. 37-300 (old style) Jointer. 5 lbs. **CAT. NO. 37-305**

Knife Grinding Attachment with jointing provision including 115V, AC-DC motor and jointing stone. 35 lbs. **CAT. NO. 37-310**

Knife Grinding Attachment with jointing stone but less motor. 30 lbs. **CAT. NO. 37-815**

Cutterhead Assembly complete with bearings, housings and No. 37-308 set of 3 high-speed steel knives. Fits both old and new style jointers. 22 lbs. **CAT. NO. 37-810**

CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

FOR SINGLE PHASE OPERATION

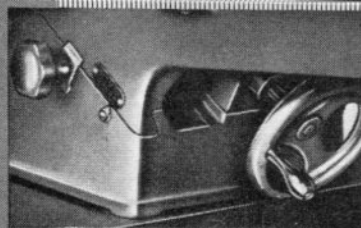
8" Jointer complete. Includes 37-317 jointer with enclosed type steel stand and 83-560 1 HP motor with remote on-and-off switch control No. 132 for 230 V, 60 cy. 422 lbs. **CAT. NO. 37-341**

8" Jointer complete. Includes 37-316 jointer with cast iron stand and 83-560 1 HP motor with remote on-and-off switch control No. 132 for 230 V, 60 cy. 506 lbs. **CAT. NO. 37-331**

FOR 3 PHASE OPERATION

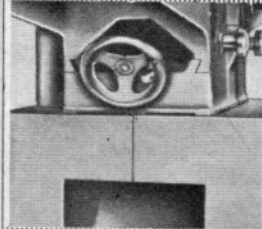
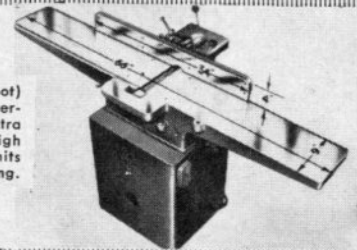
8" Jointer complete. Includes 37-317 jointer with enclosed type steel stand, 86-920 1 HP motor and 1320 manual starter. Specify voltage. 394 lbs. **CAT. NO. 37-343**

8" Jointer complete. Includes 37-316 jointer with cast iron stand, 86-920 1 HP motor and 1320 manual starter. Specify voltage. 478 lbs. **CAT. NO. 37-333**



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.

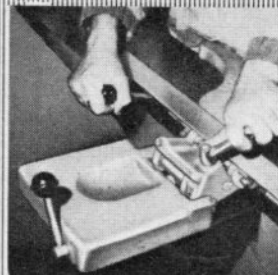
New, longer bed (5 1/2-foot) makes it possible to cut perfect straight edges on extra long material. Big 4" high x 34" long fence permits accurate, easy bevel jointing.



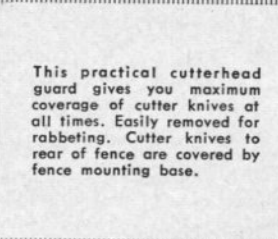
Adjustable outfeed table simplifies alignment of outfeed table and cutterhead. This outstanding feature makes possible stop jointing and stop chamfering. Built-in dust chute keeps chips and dust away from the motor.



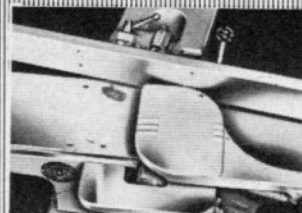
Three-knife cutterhead, with 3" cutting circle, delivers 15,525 knife cuts per minute. Unique unit-type design enables operator to change cutterheads by simply removing four studs, virtually eliminating costly down time.



Improved fence tilts 45° right and left. 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.



This practical 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.

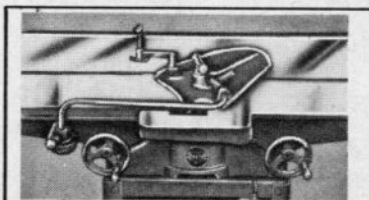


Jointer fence can be easily swiveled, then quickly locked in place for shear cutting. This operation provides a satin smooth finish on stock when facing, beveling or edge jointing.

new DELTA 6" deluxe long bed jointer

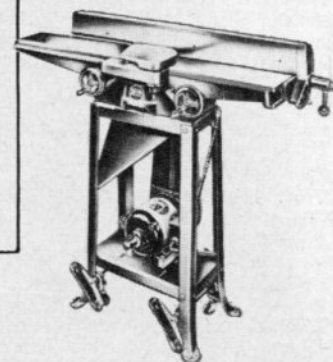


6" Jointer
Shown With
Cast Iron Stand



EXCLUSIVE SAFETY GUARD

Operators get maximum safety with this No. 37-826 Dual Purpose Guard that permits ribbon thin planing yet never gets in the worker's way. Pressure on the thumb hold keeps small pieces down while guard controls side pressure. Especially recommended for use in school shops (accessory).



6" Jointer Shown With Steel Stand

specifications

Table surface—Overall... 7" wide x 42½" long
Cutting capacity:
Width 6"
Depth ½"
Rabbeting capacity..... ½" x 6"
Table working height 32"
Table ways dove-tailed
Fence 4" high x 36¾" long
Fence tilts right and left..... 45°
Number of knives in cutterhead..... 3
Cutting circle 2½"
Cutterhead speed 4500 rpm, 13,500 cuts per min.
Cutterhead runs in sealed, lubricated-for-life ball bearings.
Positive stops on fence.... 90°, 45° right & left
Dimensions on steel stand..... 14" wide, 39¼" high, 48" long
Dimensions on cast iron stand: .14" wide, 36½" high, 48" long
Dimensions of bench model:.... 14" wide, 10¼" high, 48" long
Shipping weight (on steel stand)..... 196 lbs.

NEW

- ... extra long bed for increased accuracy
- ... simple, easy-to-reach controls for faster, easier operation
- ... safety engineered guard for better operator protection

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.

catalog listing

BASIC MACHINE WITHOUT STAND: 6" Jointer with No. 659 set of 3 high-speed steel knives, 2-way tilting fence with "dual control," No. 5275 arbor pulley and front safety knife guard. Without stand, motor, switch, motor pulley or V-belt. 151 lbs.

CAT. NO. 37-220

BASIC MACHINE WITH STEEL STAND: Same as No. 37-220 except with No. 50-656 steel stand, No. 661 belt guard, No. 560 V-belt and No. 5700 motor pulley (specify 1/2, 5/8 or 3/4" bore). Without motor or switch rod. 196 lbs.

CAT. NO. 37-221

BASIC MACHINE WITH CAST IRON STAND: Same as No. 37-220 except with No. 667 cast iron stand, No. 560 V-belt and No. 5700 motor pulley (specify 1/2, 5/8 or 3/4" bore). Without motor or switch. 275 lbs. Requires 132 switch for single phase or DC motor.

CAT. NO. 37-222

Note: Items bearing individual catalog numbers, as included in No. 37-220, No. 37-221 and No. 37-222, can be ordered separately; see price list.

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

Motor, 1/2 HP, 115/230 V, capacitor, AC, 60 cy, 1725 rpm. Includes on-and-off switch, 115 V 8-foot cord, 3-prong grounding type plug and adapter. 39 lbs.

CAT. NO. 62-680

Motor, 1/3 HP, 115/230 V, capacitor, AC, 60 cy, 1725 rpm. Includes on-and-off switch, 115 V 8-foot cord, 3-prong grounding type plug and adapter. 28 lbs.

CAT. NO. 62-110

Switch Rod. For use with single phase motors on steel stand. 1 lb.

CAT. NO. 1333

On-and-off Toggle Switch. With lock feature, in special case without cover. Includes 3-wire, 3-foot power cord. For No. 37-222 unit with cast iron stand. 1 1/2 lbs.

CAT. NO. 132

FOR 3 PHASE OPERATION

Motor, 1/3 HP, 208-220/440 V, AC, 50/60 cy, 1425/1725 rpm. Without switch or power cord. 23 lbs.

CAT. NO. 66-120

Motor, 1/2 HP, 208-220/440 V, AC, 50/60 cy, 1425/1725 rpm. Without switch or power cord. 31 lbs.

CAT. NO. 66-340

Starter, Manual. Provides overload protection. Specify motor number and voltage when ordering. 6 lbs.

CAT. NO. 1320

Mounting Bracket. Includes screws for mounting No. 1320 Starter on steel stand. 3 lbs.

CAT. NO. 49-318

ACCESSORIES

Set of 3 high-speed steel knives. 3/8 lb.

CAT. NO. 659

Knife Grinding Attachment with jointing provision including 115 V, AC-DC motor and jointing stone. 35 lbs.

CAT. NO. 37-310

Knife Grinding Attachment with jointing stone but less motor. 30 lbs.

CAT. NO. 37-815

Rear Safety Knife Guard. 2 lbs.

CAT. NO. 37-807

Cutterhead Assembly, complete with bearings, housings and No. 659 set of 3 high-speed steel knives. 10 lbs.

CAT. NO. 37-808

Auxiliary Fence Support. For extra heavy work. 2 lbs.

CAT. NO. 37-820

Dual Purpose Guard with thumb hold for handling small work. 11 lbs.

CAT. NO. 37-826

Wrench, double end, 5/16", for cutterhead knife lock bar screws. 1/4 lb.

CAT. NO. 1522

Retractable Caster Set for No. 50-656 steel stand. 13 lbs.

CAT. NO. 49-363

Cast Iron Stand, 26" high with top 8 x 16". 118 lbs.

CAT. NO. 667

Steel Stand, 29" high with top 8 x 16". 31 lbs.

CAT. NO. 50-656

CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

FOR SINGLE PHASE OPERATION

6" Jointer complete. Includes 37-221 jointer with steel stand, 62-680 motor and 1333 switch rod. 235 lbs.

CAT. NO. 37-231

6" Jointer complete. Includes 37-222 jointer with cast iron stand, 62-680 motor and 132 switch. 314 lbs.

CAT. NO. 37-241

FOR 3 PHASE OPERATION

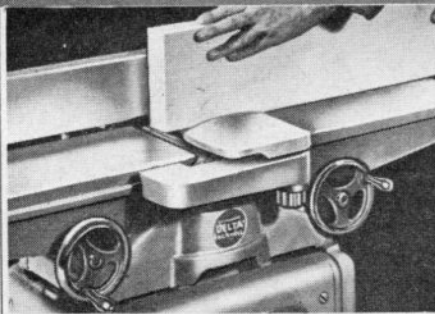
6" Jointer complete. Includes 37-221 jointer with steel stand, 66-340 motor, 1320 starter (specify voltage) and 49-318 mounting bracket. 235 lbs.

CAT. NO. 37-233

6" Jointer complete. Includes 37-222 jointer with cast iron stand, 66-340 motor and 1320 starter (specify voltage). 312 lbs.

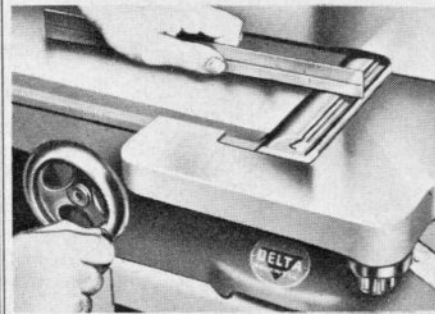
CAT. NO. 37-243

Compare this DELTA jointer FEATURE BY FEATURE you'll see why DELTA is the leader in design ... quality ... performance



long bed

The new Delta Jointer with the long bed . . . a full 42 1/2" . . . insures a true cut even on extra long boards.



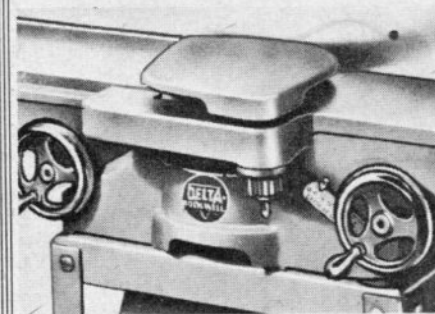
adjustable outfeed table

The new Delta 6" 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.



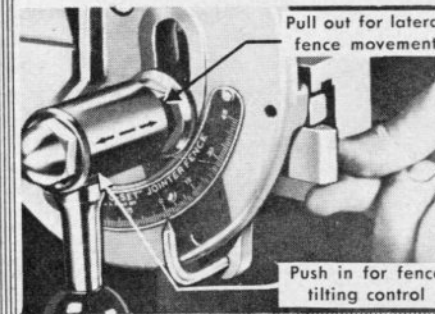
safety engineered guard

Adjustable tension guard has torsion spring assembly which provides infinite tension adjustment. Guard is instantly removable, can be locked. Rear Knife Guard, No. 37-807, interchangeable with front knife guard, gives added operator protection.



new 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.

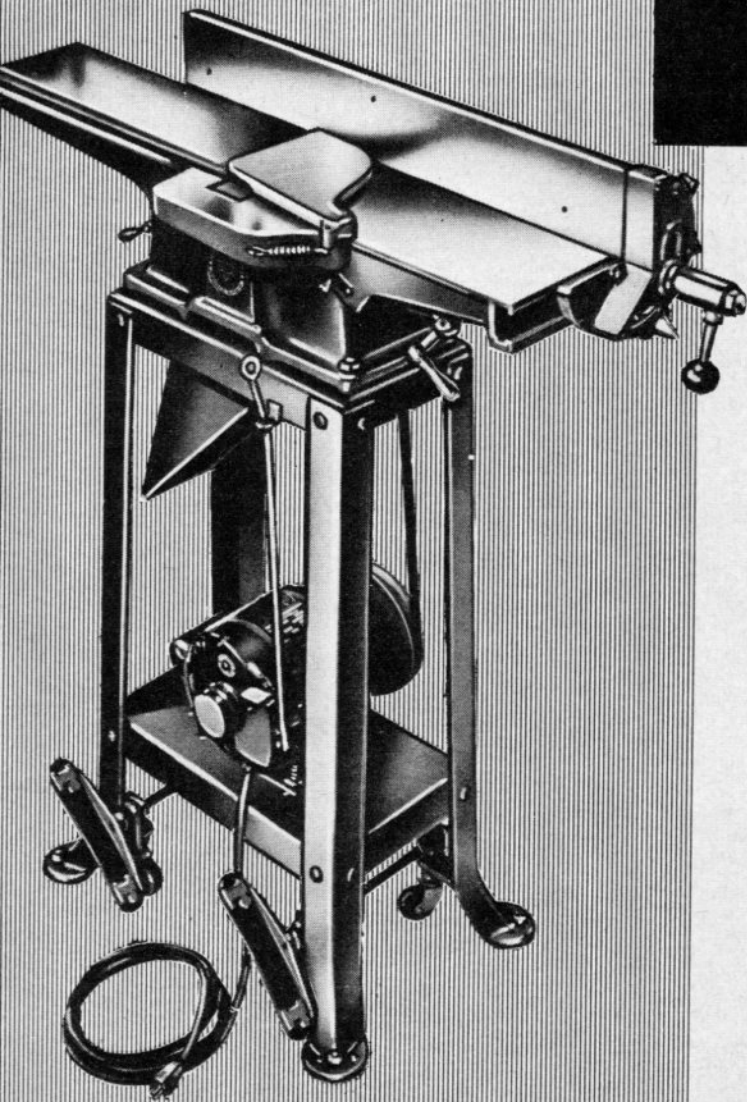


dual fence control and positive stop

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.

DELTA 4"

precision jointer



specifications

Table surface—Overall.....	5¼" wide x 27¼" long
Cutting capacity:	
Width	4"
Depth	¼"
Rabbeting capacity	¼" x 4"
Table working height	35¼"
Table ways	dovetailed
Fence.....	3¼" high x 21¼" long
Fence tilts right and left.....	45°
Number of knives in cutterhead.....	3 high-speed steel
Cutting circle	2" dia.
Cutterhead speed.....	approximately 4,200 rpm.
Cutterhead runs in sealed, lubricated-for-life ball bearings	
Positive stops on fence.....	90°, 45°, R & L
Dimensions of bench model.....	12" wide, 9½" high, 32" long
Dimensions on steel stand.....	12" wide, 38½" high, 32" long
Shipping weight (bench model).....	66 lbs.
Shipping weight (on steel stand).....	106 lbs.

A husky jointer that will give you precision cuts on light production work year after year. Used extensively by cabinet makers and builders, it's an ideal tool for all jointing work up to four inches in width.

This Delta 4" Jointer offers many of the precision features normally found only in larger and higher priced machines... tables finish ground after assembly to insure perfect alignment... both infeed and outfeed tables fully adjustable... gibbed, dovetail ways easily adjustable to compensate for wear... sturdy, double-tilt fence with positive stops at 90° and 45°, right and left, and an accurate scale for easy setting at any intermediate angle... single control handle at front of jointer positions fence for both width and angle of cut.

The low price tag on this accurate jointer makes it possible for you to step up production by spotting one at every key work station in your plant or shop.

catalog listing

BASIC MACHINE WITHOUT STAND: 4" Jointer with No. 37-806 head including three high-speed steel knives (No. 37-802), two-way tilting fence with "dual control," arbor pulley, and front safety knife guard. Without motor, switch, motor pulley and V-belt. 66 lbs.

CAT. NO. 37-290

Note: Items bearing individual catalog numbers, as included in No. 37-290, can be ordered separately; see price list.

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

Motor, 1/3 HP, 115 V, capacitor, AC, 60 cy, 1725 rpm. Includes on-and-off switch, 115 V 8-foot cord, 3-prong grounding type plug and adapter. 23 lbs.

CAT. NO. 62-413

Motor, 1/3 HP, 115 V, split phase, AC, 60 cy, 1725 rpm. 18 lbs.

CAT. NO. 60-013

On-and-off Toggle Switch. Includes 115 V 8-foot cord, 3-prong grounding type plug and adapter. For No. 60-013 motor. 1 lb.

CAT. NO. 49-311

FOR 3 PHASE OPERATION

Motor, 1/3 HP, 208-220/440 V, AC, 50/60 cy, 1425/1725 rpm. 23 lbs.

CAT. NO. 66-120

Starter, Manual. Provides overload protection. Specify motor number and voltage when ordering. 6 lbs.

CAT. NO. 1320

Mounting Bracket. Includes screws for mounting No. 1320 Starter on steel stand. 3 lbs.

CAT. NO. 49-318

REQUIRED ACCESSORIES

V-belt for No. 60-013 and No. 62-413 motors. 58-5/16" OC. ½ lb.

CAT. NO. 560

Motor Pulley, 6½" dia., ½" bore, for 1725 rpm motors. 1½ lbs.

CAT. NO. 5650

OTHER ACCESSORIES

Set of 3 high-speed steel knives. ¾ lb.

CAT. NO. 37-802

Steel Stand with dust chute, 29" high, table 12½ x 7". 27 lbs.

CAT. NO. 50-304

Retractable Caster Set for No. 50-304 steel stand. 13 lbs.

CAT. NO. 49-363

Switch Rod for use with stand. 1 lb.

CAT. NO. 1333

CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

FOR SINGLE PHASE OPERATION—4" Jointer complete. Includes 37-290 jointer, 62-413 1/3 HP motor, 1333 switch rod, 560 V-belt, 5650 motor pulley and 50-304 steel stand. 119 lbs.

CAT. NO. 37-251

FOR THREE PHASE OPERATION—4" Jointer complete. Includes 37-290 Jointer, 66-120 1/3 HP motor, 1320 starter, (specify voltage), 49-318 mounting bracket, 560 V-belt, 5650 motor pulley and 50-304 steel stand. 127 lbs.

CAT. NO. 37-253

DELTA 9" tilting arbor bench saw



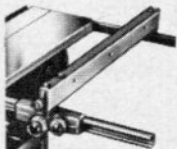
NEW POWER!

Specially Designed New 1 HP Motor
Develops More Than 2 HP Under Full Load

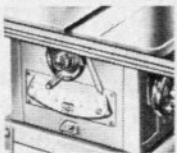


Bench Saw
Shown With
Steel Stand

ADVANCED DESIGN FEATURES



Rip fence controls lock both front and rear from up-front position. Pinion control provides for minute adjustment.



All operations are safer because of new built-in features: protected start switch, easy-to-read tilt scale, up-front blade controls.

specifications

Diameter of arbor	5/8"
Diameter of saw blade	9"
Maximum depth of cut	2 3/4"
Rip capacity	center of a 48" panel
Maximum thickness of cut at 45°	2"
Distance, front of table to center of blade	15 3/4"
Table in front of blade at maximum cut	11 1/4"
Maximum width of cut-off (1" stock)	12 1/4"
Maximum width of dado cut	13/16"
Table height on steel stand	34 1/2"
Table size	22" deep x 15" wide
Table size with extensions	22" deep x 25" wide
Steel Arbor carried on sealed, lubricated-for-life ball bearings	
Speed with 3450 rpm motor	3800 rpm
Overall dimensions on steel stand	
	34 1/2" high x 37 1/2" wide x 32" deep
Shipping weight (bench model)	103 lbs.

This Delta 9" Tilting Arbor Saw was built with just one thought in mind—to produce a saw that would offer *precision accuracy, big capacity, maximum convenience and more built-in value than any similar saw on the market today*—all at exceedingly low cost!

You will agree when you check its many fine features such as—big 2 3/4" depth of cut . . . large 22" by 25" table (with extension wings) handy up-front fence and blade controls . . . angled, easy-to-read tilt scale . . . precision bored bearing seats . . . sealed, lubricated-for-life ball bearing construction throughout.

Although low in cost, this fine Delta saw has all the accuracy, rigidity, power and ease of operation needed to make it an ideal saw for the cabinet and pattern shop, school shop, builder and dozens of other users.

Compare this Delta saw with any other saw—see why it deserves a place in your operation!

catalog listing

BASIC MACHINE LESS STAND, SPLITTER-MOUNTED GUARD, EXTENSION WINGS:

9" Tilting Arbor Bench Saw with rip fence, No. 33-196 combination blade, No. 864 miter gage, front graduated guide bar, rear guide bar, No. 34-661 table insert, arbor pulley and motor to switch cord. Without motor, motor pulley and V-belt. 103 lbs. **CAT. NO. 34-600**
Note: Items bearing individual catalog numbers, as included in No. 34-600, can be ordered separately; see price list.

MOTORS FOR SINGLE PHASE OPERATION

Motor, 3/4 HP, 115 V, 60 cy, AC, 3450 rpm. Includes on-and-off switch, 115 V 8-foot cord, 3-prong grounding type plug and adapter. 31 lbs. **CAT. NO. 62-253**
Motor, 1 HP, 115 V, 60 cy, AC, 3450 rpm. Includes on-and-off switch, 115 V 8-foot cord, 3-prong grounding type plug and adapter. 34 lbs. **CAT. NO. 62-273**

REQUIRED ACCESSORIES

Motor Pulley, 2 1/2" diameter, for 3450 rpm motors. Specify 3/8" bore. 1/2 lb. **CAT. NO. 5250**
V-Belt, 36 1/8" O.C., for No. 62-253 and No. 62-273 motor. 1/2 lb. **CAT. NO. 49-152**

OTHER ACCESSORIES

Standard Table Insert. 2 lbs. **CAT. NO. 34-661**
Table Extension Wings, each 22" x 5", set of two. 22 lbs. **CAT. NO. 34-974**
Belt Guard. 8 lbs. **CAT. NO. 34-975**
Super-Safe Splitter-Mounted Guard with anti-kickback fingers. 12 lbs. **CAT. NO. 34-671**
Retractable Caster Set for No. 50-810 steel stand. 13 lbs. **CAT. NO. 49-362**
Steel Stand, 21 1/2" high with 15" x 15" top. 32 lbs. **CAT. NO. 50-810**

For additional circular saw accessories, see Pages 60 and 61.

CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

FOR SINGLE PHASE OPERATION

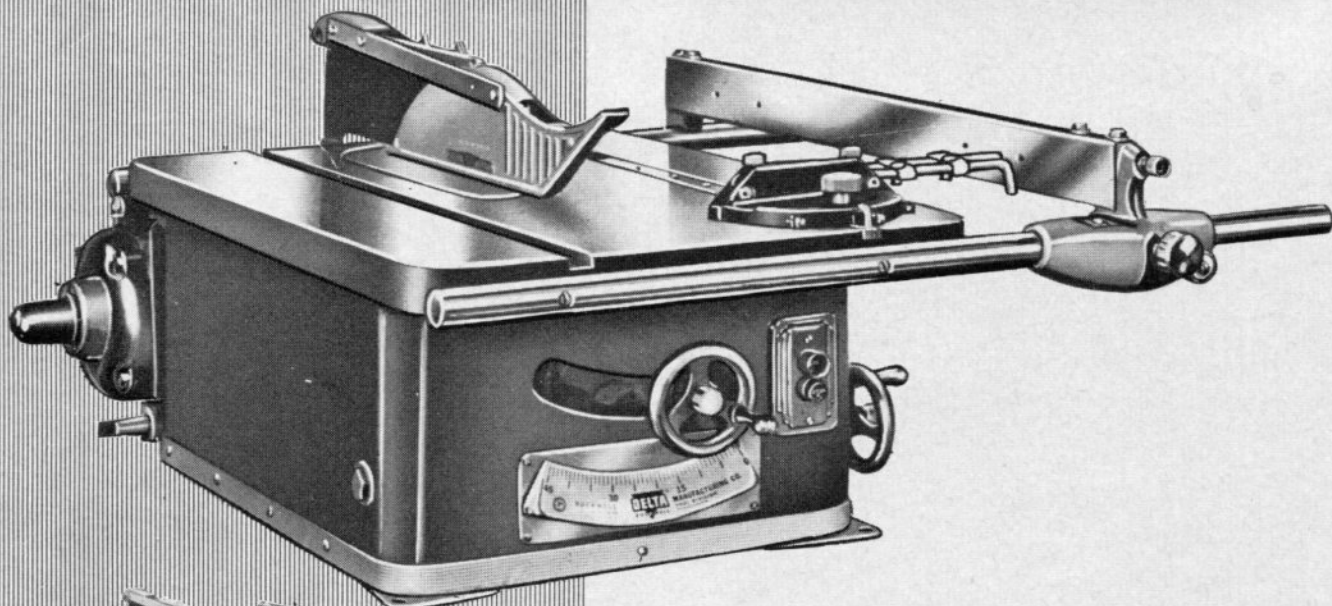
9" Tilting Arbor Circular Saw complete. Includes 34-600 saw, 62-253 3/4 HP motor, 49-152 V-belt, 5250 motor pulley (specify 3/8" bore), 34-671 splitter-mounted guard, 34-974 pair of extension wings and 50-810 steel stand. 201 lbs.

CAT. NO. 34-611

9" Tilting Arbor Circular Saw complete. Same as No. 34-611 but with No. 62-273 1 HP motor. 204 lbs.

CAT. NO. 34-612

NEW DELTA 10" tilting arbor bench saw



Bench Saw
Shown With
Steel Stand

specifications

Diameter of arbor.....	5/8"
Diameter of saw blade.....	10"
Maximum depth of cut.....	3 1/8"
Maximum rip to right of blade.....	24"
Maximum rip to left of blade.....	6"
Maximum thickness of cut at 45°.....	2 1/8"
Distance, front of table to center of blade.....	16 7/8"
Table in front of blade at maximum cut.....	12"
Maximum width of cut-off (1" stock).....	13 1/4"
Maximum width of dado cut.....	13/16"
Table height (bench model).....	12 1/4"
Table size.....	20" x 27"
Miter Gage groove in table.....	3/8" x 3/4"
Rip Fence locks at both front and rear.	
Speed with 3450 rpm motor.....	4000 rpm
Overall dimensions on steel stand.....	
.....	41 1/2" high x 42" wide x 41 1/2" deep
Shipping weight (bench model).....	179 lbs.

Gives a BIG 3 1/8" Depth of Cut

The newest addition to the famous Delta circular saw family, this unit is especially designed to provide industry, builders and schools with a high quality, big capacity machine *at an exceptionally low price!*

Although light in weight for portability, it has the rugged construction features found only in higher priced saws. The big 3 1/8" depth of cut and the large ripping capacity make it an ideal, all-purpose unit.

Put this new, versatile saw in your production line to relieve the load on larger, higher priced saws. Its light weight makes it easy to move from one department to another to speed up production and keep costs down.

It's a perfect saw for the builder who wants to do centralized cutting right at the building site.

It's an excellent auxiliary unit for the school shop because it is the safest saw made. The patented "Super-Safe" blade guard with anti-kickback fingers (optional), the safety type push button switch, and the shielded drive mechanism provide for maximum safety at all times.

Here's a saw that *fits* in your shop, guaranteeing years of accurate service, no matter what your needs may be. You can use it as a basic unit for day-in and day-out service, or as an auxiliary unit to break bottlenecks wherever they occur.

catalog listing

BASIC MACHINE LESS STAND AND SPLITTER-MOUNTED GUARD: 10" Tilting Arbor Bench Saw with Micro-Set rip fence. No. 1015 combination blade, No. 864 miter gage, No. 1451 table insert, front graduated guide bar, rear guide bar, motor shaft extension, motor pulley, belt guard and No. 49-160 V-belt. Without motor and switch. 179 lbs. **CAT. NO. 34-425**

Note: Items bearing individual catalog numbers, as included in No. 34-425, can be ordered separately; see price list.

MOTORS AND CONTROLS

FOR SINGLE OPERATION

Motor, 1 HP, capacitor, 115/230 V, 60 cy, AC, 3450 rpm. Includes 115 V 8-foot cord, 3-prong grounding type plug and adapter but with no control switch. 51 lbs. **CAT. NO. 83-311**

Motor, 1½ HP, capacitor, 115/230 V, 60 cy, AC, 3450 rpm. Includes 230 V 8-foot cord and 3-prong grounding type plug but no control switch. 61 lbs. **CAT. NO. 83-411**

Push Button Manual Control Switch and Wiring Kit for use with No. 83-311 or No. 84-411 motor (also can be used on DC motors). 3 lbs. **CAT. NO. 34-881**

FOR 3 PHASE OPERATION

Motor, 1 HP, 208-220/440 V, 50/60 cy, AC, 2850/3450 rpm. Without switch or power cord. 43 lbs. **CAT. NO. 86-921**

Motor, 1½ HP, 208-220/440 V, 50/60 cy, AC, 2850/3450 rpm. Without switch or power cord. 50 lbs. **CAT. NO. 87-121**

Switch, Overload. Used with No. 34-882 Switch. Easy to mount on steel stand with No. 49-318 mounting bracket. Specify motor number and voltage when ordering. 3 lbs. **CAT. NO. 49-365**

Starter, Magnetic. For 60 cy, 208-220 V only. Provides low-voltage, no-voltage and overload protection. Used with No. 34-883 switch. Easy to mount on steel stand with No. 49-318 mounting bracket. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-396**

Starter, Magnetic. For 60 cy, 440 V only. Provides low-voltage, no-voltage and overload protection. Used with No. 34-883 switch. Easy to mount on steel stand with No. 49-318 mounting bracket. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-397**

Push Button Manual Control Switch and Wiring Kit for use with No. 86-921 or No. 87-121 motor (also can be used on DC motors). 3½ lbs. **CAT. NO. 34-882**

Push Button Magnetic Control Switch and Wiring Kit for use with No. 86-921 or No. 87-121 motor and No. 49-396 208-220 V magnetic starter or No. 49-397 440 V magnetic starter. 3 lbs. **CAT. NO. 34-883**

Mounting Bracket. Includes screws for mounting No. 49-365 overload switch or No. 49-396 or No. 49-397 magnetic starters on steel stand. 3 lbs. **CAT. NO. 49-318**

ACCESSORIES

Standard Table Insert. 1¾ lbs. **CAT. NO. 1451**

Super-Safe Splitter-Mounted Guard. 10 lbs. **CAT. NO. 34-875**

Steel Stand, 24" high with top 20x22½". 50 lbs. **CAT. NO. 50-315**

Retractable Caster Set 13 lbs. **CAT. NO. 49-364**

For additional circular saw accessories, see Pages 60 and 61.

CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

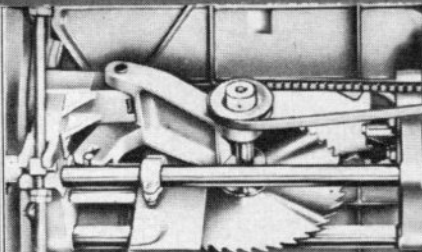
FOR SINGLE PHASE OPERATION

10" Tilting Arbor Bench Saw complete. Includes No. 34-425 saw with 50-315 steel stand, 34-875 splitter-mounted guard, 83-311 1 HP motor and 34-881 manual control switch and wiring kit. 293 lbs. **CAT. NO. 34-431**

FOR 3 PHASE OPERATION

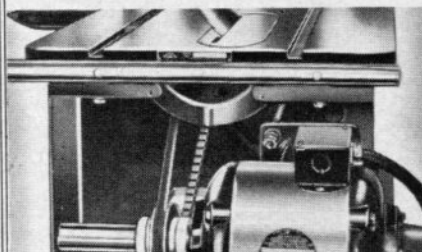
10" Tilting Arbor Bench Saw complete. Includes No. 34-425 saw with 50-315 steel stand, 34-875 splitter mounted guard, 86-921 1 HP motor, 34-882 manual control switch and wiring kit, 49-365 overload switch and 49-318 mounting bracket. 291 lbs. **CAT. NO. 34-433**

Check These Outstanding Delta Features . . .



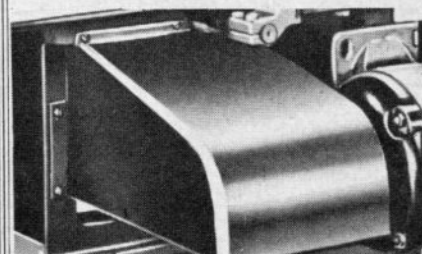
Sturdy Under-Table Construction

Precision machined, cast iron trunnions are held together with large diameter solid steel tie rods assuring correct alignment at all times. The rear trunnion bracket is a massive, one-piece casting. It is designed to give rigid support not only to the rear trunnion but also to the motor and saw table.



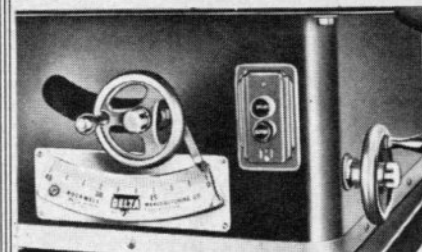
"Floating" Pulley Drive

Motor pulley "floats" on self-lubricating TEFLON dowel rods while motor remains in fixed lateral position. When adjusting for miter cuts, pulley automatically "floats" into proper position retaining exact amount of belt tension.



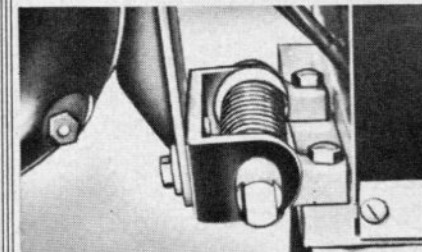
Shielded Drive Mechanism

Entire drive mechanism is covered for maximum safety to operator and other workers. It is especially valuable in schools where safety is of prime importance. The shield also deflects falling waste stock, preventing any damage to drive mechanism.



Conveniently Grouped Controls

All controls are grouped "up front" within easy reach for fast, safe operation. New push button switch, with protruding stop and start buttons, prevents accidental starts and provides safe control for quick emergency stops. New, angled tilt scale is easy to read for quick miter settings.



Spring Type Motor Support

Assures proper tension on V-belt at all times. Eliminates heavy motor pull on arbor bearings and bracket. This means you get longer belt and bearing life with increased operating efficiency.

Plus These Standard Delta Extras . . .

Preloaded, sealed, lubricated-for-life ball bearing construction throughout.

Precision bored bearing seats.

Patented, tubular ripping extension with graduated front guide bar.

Precision ground, heavily ribbed saw table.

"Micro-Set" rip fence, with "up front" controls, has minute adjustment for accurate settings.

Patented "Auto-Set" miter gage

DELTA 10" unisaw®

big capacity tilting arbor saw

**Rips to Center
of 50" Panel . . .
100" Panel With
Long Guide Bars**

**Cuts Stock
3 1/8 Inch Thick**

The 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 every job:

BIG CAPACITY . . . will cut stock 3 1/8" thick and rip to center of a 50" panel . . . 100" with extra long guide bars, available as an accessory.

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.

COMPLETE SAFETY . . . the drive mechanism, including all belts, is completely contained in the steel cabinet. The Super-Safe blade guard swings down, out of the way for dadoing and moulding, yet always remains attached to the machine. The new 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.

VERSATILITY . . . with the Delta Unisaw you can do precision ripping and cross cutting, plus dadoing, moulding and tenoning, all with complete accuracy even on a production basis.

PORTABILITY . . . while the Unisaw is ruggedly built for stability in continual use, it can also be carried anywhere in the shop or on a construction job to facilitate cutting operations.

PRECISION ACCURACY . . . built-in Delta Quality features assure continuing precision accuracy through years of service.

specifications

Diameter of arbor	5/8"
Diameter of saw blade	10"
Maximum depth of cut	3 3/8"
Maximum rip to right of blade	25"
Maximum rip to right of blade with extra long guide bars (accessory)	50"
Maximum rip to left of blade	15 1/2"
Maximum thickness of cut at 45°	2 1/8"
Distance, front of table to center of blade	16 13/16"
Table in front of blade at maximum cut	12 1/4"
Maximum width of cut-off (1" stock)	13 1/2"
Maximum width of dado cut	13 1/16"
Table height	34"
Table size	20" x 27"
Table size with extension wings	36" x 27"
Overall dimensions with Wings and Guide Bars	30 1/4" x 45 3/8"
T-Slot Miter Gage groove in table	3/8" x 3/4"
Rip Fence locked both front and back by single operating handle at front of machine.	
Speed with 3450 rpm motor	4000 rpm
Shipping weight	336 lbs.

You Get All These Features with the DELTA 10" UNISAW

- New power with specially engineered 1½ or 2 HP motor, plus the power transmission efficiency of famous 3-belt drive.
- Exclusive, new JET-LOCK Rip Fence.
- Sealed, lubricated-for-life ball bearings.
- Graduated front guide bar.
- Perfect safety—completely guarded motor switch can be locked.
- Patented tubular ripping extension.
- Precision ground, stress proof arbor, flange faced after assembly.
- Large door in side of base for easy removal of saw dust.

catalog listing

BASIC MACHINE LESS GUARD, SPLITTER AND EXTENSION WINGS: Includes 10" Tilting Arbor Unisaw, JET-LOCK rip fence, No. 1015 combination blade, No. 34-884 miter gage, front graduated guide bar, rear guide bar, No. 1451 table insert, No. 49-208 motor pulley and No. 49-124 set of 3 matched V-belts. Without motor and switch. 271 lbs. **CAT. NO. 34-450**

BASIC MACHINE WITH GUARD, SPLITTER AND EXTENSION WINGS: Same as No. 34-450 but with No. 1455 pair of side extension wings and No. 34-471 Super-Safe, splitter-mounted guard. Without motor and switch. 336 lbs. **CAT. NO. 34-451**

Items bearing individual catalog numbers, as included in No. 34-450 and No. 34-451, can be ordered separately; see price list.

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

Motor, 1½ HP, 115/230V, capacitor, AC, 60 cy, 3450 rpm. Includes special on-and-off switch with 3-foot 3-conductor cord, 230V 8-foot cord and 3-prong grounding type plug. 65 lbs. **CAT. NO. 83-611**

Motor, 1½ HP, 115/230 V, repulsion-induction, AC, 60 cy, 3450 rpm. Includes special on-and-off switch with 3-foot 3-conductor cord, 115 V 8-foot cord, 3-prong grounding type plug and adapter. 79 lbs. **CAT. NO. 85-110**

FOR 3 PHASE OPERATION

Motor, 2 HP, 208-220/440 V, AC, 50/60 cy, 2850/3450 rpm. Supplied with motor to starter cable assembly but without switch. 57 lbs. **CAT. NO. 87-310**

Starter, Manual. Provides overload protection. Specify motor number and voltage when ordering. 6 lbs. **CAT. NO. 1320**

Starter, Magnetic. For 60 cy, 208-220 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-393**

Starter, Magnetic. For 60 cy, 440 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-394**

Mounting Bracket. Includes screws for mounting No. 1320 Starter on saw cabinet. 2 lbs. **CAT. NO. 1459**

ACCESSORIES

Auto-Set Miter Gage for T-Slots. 4 lbs. **CAT. NO. 34-884**

Stop Rods for Miter Gage. ½ lb. **CAT. NO. 49-302**

Standard Table Insert. 1¾ lbs. **CAT. NO. 1451**

Motor Cover with screws. 25 lbs. **CAT. NO. 1454**

Side Extension Wings to make table 36 x 27" (per pair). 54 lbs. **CAT. NO. 1455**

Super-Safe, Swing-Type, Splitter-Mounted Guard. 11 lbs. **CAT. NO. 34-471**

NEW, EXTRA LONG GUIDE BARS

Extra Long Guide Bars that permit ripping to the center of a 100" panel. 20 lbs. **CAT. NO. 34-472**

For additional circular saw accessories, see Pages 60 and 61.

CONVENIENT, ALL-INCLUSIVE CATALOG NUMBERS

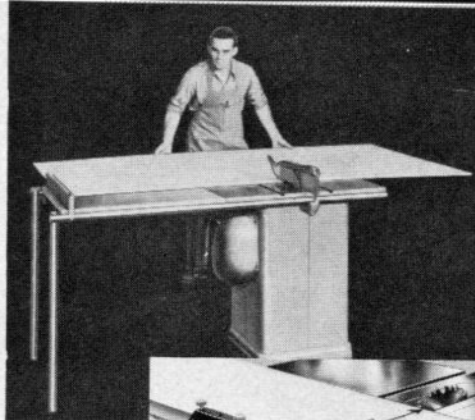
FOR SINGLE PHASE OPERATION

10" Tilting Arbor Unisaw complete. Includes No. 34-451 Unisaw, No. 85-110 1½ HP repulsion induction motor and toggle switch. 415 lbs. **CAT. NO. 34-421**

10" Tilting Arbor Unisaw complete. Includes 34-451 Unisaw, No. 83-611 1½ HP capacitor motor and toggle switch. 401 lbs. **CAT. NO. 34-422**

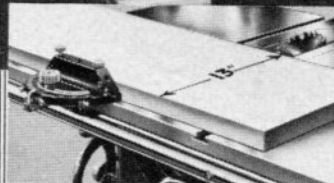
FOR 3-PHASE OPERATION

10" Tilting Arbor Unisaw complete. Includes No. 34-451. Unisaw, No. 87-310 2 HP motor, No. 1320 starter (specify voltage) and No. 1459 mounting parts. 401 lbs. **CAT. NO. 34-423**

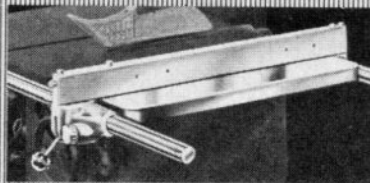


GIANT RIP CAPACITY

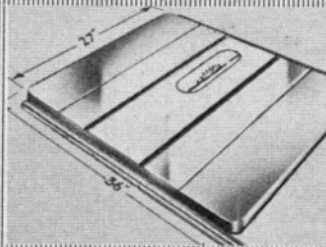
New Extra Long Guide Bars expand the rip capacity of the Delta 10" Unisaw to the center of a 100" panel. Give you the extra rip capacity usually found only on much larger and much more expensive saws. This low-cost accessory (Cat. No. 34-472) makes the Delta Unisaw the ideal machine for ripping large, bulky panels and other hard-to-handle materials. Note: Standard guide bars furnished with machine are used as supports for new Extra Long Guide Bars.



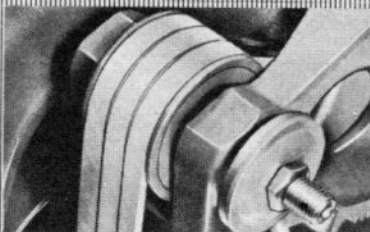
T-slots on either side of saw blade hold miter gage securely, even beyond front of saw table, and provide accurate support for work. Miter gage will not twist or fall out.



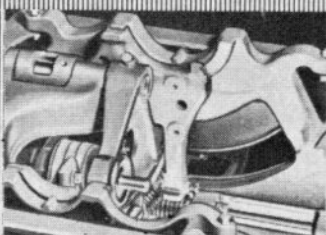
Single control handle on New JET-LOCK Micro-Set Rip Fence automatically aligns fence parallel to blade as it simultaneously locks to front guide rail. Then, fence locks securely to rear guide bar.



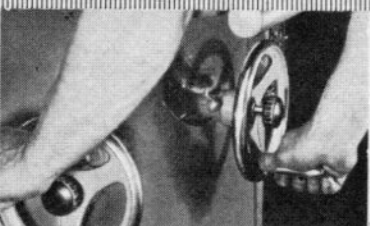
Big 27 x 36" cast iron table (with wings) has accurately ground face for precision work. Table and wings are scientifically ribbed to prevent warping and springing.



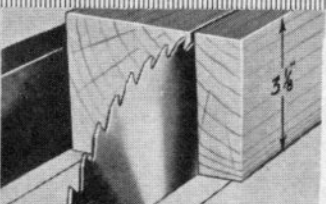
Three-belt drive makes use of all power from the motor — eliminates vibration and assures smooth operation. You get no loss of power through belt slippage.



The heavy trunnions that carry the saw carriage are machined from fine-grained cast iron and are completely adjustable to insure perfect alignment.



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.



With the famous 10" UNISAW you get a full 3 3/8" depth of cut.

heavy production tilting arbor saw cuts stock 4¹/₈" thick



**BIG
38" x 48"
TABLE**



4-belt drive gives you constant, even power—no loss through slippage. To replace belts, simply slip them over the yoke.

specifications

Diameter of arbor	1"
Diameter of saw blade	12"
Maximum depth of cut	4 ¹ / ₈ "
Maximum rip to right of blade	30"
Maximum rip to right of blade with guide bars in set-over position	50"
Maximum rip to left of blade	15"
Maximum thickness of cut at 45°	2 ⁷ / ₈ "
Distance, front of table to center of blade	22"
Table in front of blade at maximum cut	16"
Maximum width of cut-off (1" stock)	19"
Maximum width of dado cut	2"
Table height	34"
Table size (38"x48" including two table extensions)	3'2"x4'
Cabinet size	26 ¹ / ₂ "x30"
Miter Gage T-slot on either side of saw blade.	
Rip Fence locks front and back simultane- ously with single operating handle at front of machine.	
Removable table inserts.	
Speed with 12" blade and 3450 rpm motor	3750 rpm
Shipping weight	805 lbs.

Here is a 12" saw that gives you greater depth of cut than most 16" machines . . . a full 4¹/₈" . . . (2⁷/₈" at full 45° blade tilt). No other saw in the same price range offers this *big* capacity plus these outstanding DELTA *Quality* features:

- Guide rails can be quickly set over to increase ripping capacity to center of a 100" panel.
- 19" of table in front of blade on a 1" thick cut.
- Interchangeable arbor extensions provide for wide range of accessories—allow for full 2" dado cut.
- Massive 3'2" x 4' table scientifically ribbed to prevent distortion assures a true, flat surface at all times.
- "Super-Safe" blade guard swings down out of way when not in use—never necessary to detach from machine.
- Micro-set® adjustment and easy-to-read scale permits quick, accurate positioning of rip fence.
- Single clamp handle locks massive aluminum fence both front and rear.
- 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.

catalog listing

BASIC MACHINE: 12" Tilting Arbor Saw with welded steel cabinet, 38" x 48" table (including two table extensions), motor mounting plate, motor cover, No. 34-925 miter gage, rip fence, guide rails, No. 34-935 blade guard, splitter with anti-kickback fingers, No. 33-197 combination blade, No. 49-150 set of 4 matched V-belts and motor pulley, 1" bore. Without motor and starter. 805 lbs.

CAT. NO. 34-350

Note: Items bearing individual catalog numbers, as included in No. 34-350, can be ordered separately; see price list.

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

Motor, 3 HP, 115/230 V, repulsion induction, AC, 60 cy, 3450 rpm. Without switch or power cord. 147 lbs.

CAT. NO. 98-111

Starter, Magnetic. For 60 cy, 115/230 V. Specify motor number and voltage when ordering. 12 lbs.

CAT. NO. 49-325

FOR 3 PHASE OPERATION

Motor, 5 HP, 208-220/440 V, AC, 50/60 cy, 2850/3450 rpm. Without switch or power cord. 133 lbs.

CAT. NO. 98-321

Starter, Magnetic. For 60 cy, 208-220 V, only. Specify motor number when ordering. 7 lbs.

CAT. NO. 49-381

Starter, Magnetic. For 60 cy, 440 V only. Specify motor number when ordering. 7 lbs.

CAT. NO. 49-394

ACCESSORIES

Auto-Set Miter Gage, complete with stop rods. 15 lbs.

CAT. NO. 34-925

Arbor Extension, 1 1/8" dia., to accommodate dado and moulding cutterheads 1-1/16" wide. 2 lbs.

CAT. NO. 34-942

Arbor Extension, 1 1/8" dia., to accommodate dado or moulding cutterheads 2" wide. 2 lbs.

CAT. NO. 34-943

Arbor Extension, 1" dia., with collar, to accommodate saws with 1" arbor hole. 3 lbs.

CAT. NO. 34-947

Arbor Extension, 1 1/8" dia., with collar, to accommodate saws with 1 1/8" arbor hole. 3 lbs.

CAT. NO. 34-938

Arbor Extension, 1 1/4" dia., with collar, to accommodate saws with 1 1/4" arbor hole. 3 lbs.

CAT. NO. 34-948

Arbor Extension, 1" dia., to accommodate 2" wide dado head, 1" bore. 4 lbs.

CAT. NO. 34-949

Arbor Extension, 1 1/4" dia., to accommodate 2" wide dado head, 1 1/4" bore. 4 lbs.

CAT. NO. 34-950

Super-Safe, Swing-Type Saw Guard complete. 13 lbs.

CAT. NO. 34-935

Set of 4 matched V-belts, 28 3/8" OC (per set). 2 lbs.

CAT. NO. 49-150

For additional circular saw accessories, see Pages 60 and 61.

CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

FOR SINGLE PHASE OPERATION

12" Tilting Arbor Saw complete. Includes 34-350 saw, No. 98-111 3 HP motor installed and wired for 115 V operation and magnetic starter. 964 lbs.

CAT. NO. 34-370

12" Tilting Arbor Saw complete. Includes 34-350 saw, No. 98-111 3 HP motor installed and wired for 230 V operation and magnetic starter. 964 lbs.

CAT. NO. 34-371

FOR 3 PHASE OPERATION

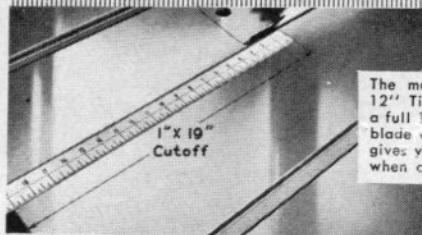
12" Tilting Arbor Saw complete. Includes 34-350 saw; No. 98-321 5 HP motor, mounted and wired for 220 V, 60 cy operation, and magnetic starter. 937 lbs.

CAT. NO. 34-351

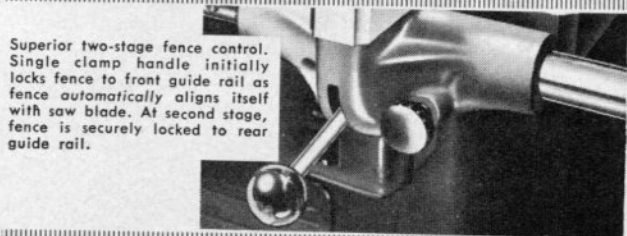
12" Tilting Arbor Saw complete. Includes 34-350 saw; No. 98-321 5 HP motor, mounted and wired for 440 V, 60 cy operation, and magnetic starter. 937 lbs.

CAT. NO. 34-352

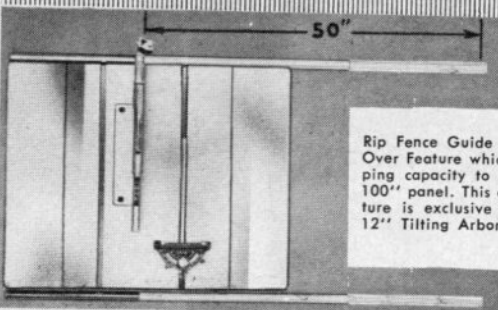
Note: 12" Tilting Arbor Saws, with motors and controls for power systems not listed, are available upon request.



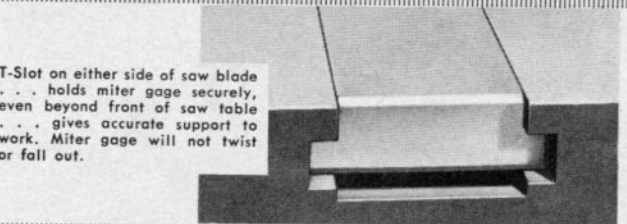
The massive table on the Delta 12" Tilting Arbor Saw gives you a full 19" of table in front of the blade when cutting 1" stock. This gives you maximum table support when cross-cutting wide material.



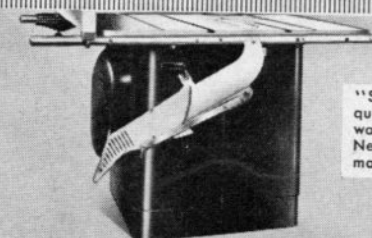
Superior two-stage fence control. Single clamp handle initially locks fence to front guide rail as fence automatically aligns itself with saw blade. At second stage, fence is securely locked to rear guide rail.



Rip Fence Guide Rails have Set-Over Feature which increases ripping capacity to the center of a 100" panel. This outstanding feature is exclusive with the Delta 12" Tilting Arbor Saw.



T-Slot on either side of saw blade . . . holds miter gage securely, even beyond front of saw table . . . gives accurate support to work. Miter gage will not twist or fall out.



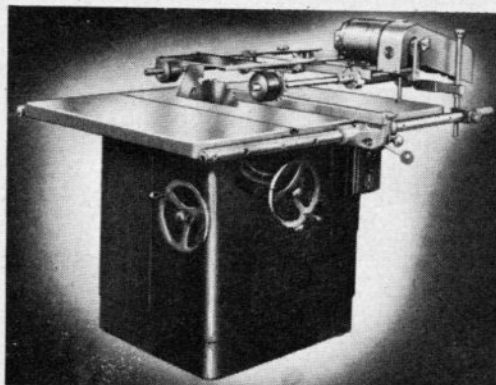
"Super-Safe" Blade Guard quickly swings down out of the way for dadoing and moulding. Never necessary to detach from machine.

POWER FEED UNIT TRANSFORMS THE DELTA 12" TILTING ARBOR SAW INTO A MASS-PRODUCTION, POWER-FED RIP SAW

Now, you can eliminate the need for an expensive, single purpose power feed rip saw. With the combination of a Delta Power Feed Rip Unit and the rugged, versatile Delta 12" Tilting Arbor Saw, you get *one machine for all sawing operations*. Yet the combination costs you less than most production table saws alone.

A Selective Dial Control gives you an infinite choice of speeds from 20 to 90 feet per minute . . . lets you feed more than a mile of lumber per hour to your saw. With the variable speed control you can regulate the rate of feed according to the stock being cut.

You can change from production ripping to regular cutting in seconds by swinging the power feed out of the way.



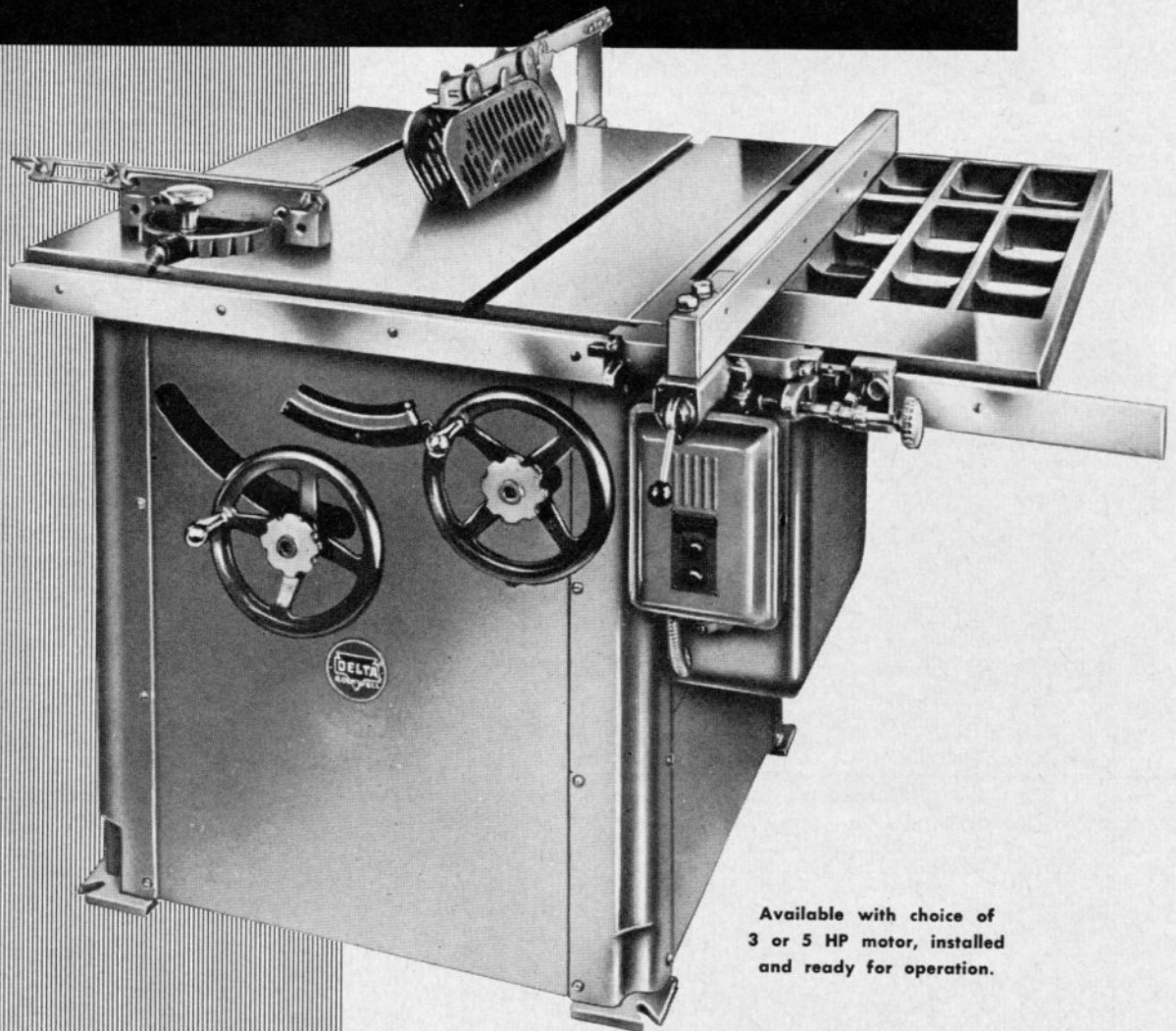
specifications

Ripping capacity . . . center of a 52" panel
 Rate of feed . . . 20 to 90 feet per minute
 Distance between rolls . . . 23 7/8"
 Overall dimensions:
 Left to right . . . 46"
 Front to rear . . . 42"
 Maximum height . . . 16"
 Shipping weight . . . 255 lbs.
 Motor . . . 1/4 HP, 115/230 V, 60 cy, 1725 rpm

catalog listing

Power Feed Unit complete with variable speed motor, mounting brackets, eye shield, 2 rubber rollers, 1 sprocket and fence. Unit ready to operate. 255 lbs. **CAT. NO. 34-952**

new DELTA 14" variety saw cuts stock 5" thick



Available with choice of
3 or 5 HP motor, installed
and ready for operation.

specifications

Diameter of arbor.....	1"
Diameter of saw blade.....	14"
Maximum depth of cut.....	5"
Maximum thickness of cut at 45°.....	3½"
Rip to right of blade.....	32"
Rip to left of blade.....	16"
Distance, front of table to center of blade.....	22¾"
Table in front of blade at maximum cut.....	17"
Table height.....	35"
Table size (with one extension).....	48" x 38¾"
Table size (with two extensions).....	65½" x 38¾"
Speed with 3450 RPM motor.....	3450 RPM
Peripheral speed with 14" blade.....	12,600 FPM
Shipping weight (with motor and motor control).....	816 lbs.

Designed especially for heavy-duty production work, this great new Delta 14" Variety Saw is ideal for use in lumber yards and mills, in furniture factories, on builders' and contractors' job sites. Also an excellent training saw for vocational and trade schools.

Only with the Delta 14" Variety Saw do you get a BIG 5" depth of cut . . . capacity usually found *only* in 16" or 18" saws! Yet, the cost is less than most comparable saws in its class.

Traditional Delta quality features — super-safe guard, self-aligning fence, up-front controls — combined with massive construction throughout, assure money-saving performance year after year.

To check the real value of the Delta 14" Variety Saw, compare it — feature for feature — with other 14", 16" or even 18" machines!

Combines
BIG CAPACITY...
POSITIVE ACCURACY
and MAXIMUM SAFETY
 with **MASSIVE**
CONSTRUCTION
 for consistent quality
performance!

catalog listing

BASIC MACHINE: 14" Tilting Arbor Variety Saw with welded steel cabinet, 48" x 38 $\frac{3}{4}$ " table (including one No. 34-726 table extension), No. 34-729 safety guard with anti-kickback fingers and splitter, rip fence with micrometer adjustment, No. 34-727 miter gage, graduated guide bar, No. 49-132 set of four matched V-belts, No. 34-730 motor pulley (1" bore), No. 33-179 combination blade and No. 34-720 table insert. Without motor and starter. 706 lbs.

CAT. NO. 34-700

Note: Items bearing individual catalog numbers, as included in No. 34-700, can be ordered separately; see price list.

14" VARIETY SAW FOR SINGLE PHASE OPERATION

Same as No. 34-700 but with No. 98-161 3 HP, 230 V, 60 cy, 3450 rpm motor, installed and wired, including magnetic starter with integral control station which provides 110 V control. 816 lbs.

CAT. NO. 34-701

14" VARIETY SAW FOR 3 PHASE OPERATION

Same as No. 34-701 but with No. 98-421 5 HP, 208-220/440 V, 60 cy, 3450 rpm motor, installed and wired for 208-220 V operation with 110 V control. 816 lbs.

CAT. NO. 34-703

Same as No. 34-701 but with No. 98-421 5 HP, 208-220/440 V, 60 cy, 3450 rpm motor, installed and wired for 440 V operation with 110 V control. 816 lbs.

CAT. NO. 34-705

Note: 14" Tilting Arbor Variety Saws, with motors and controls for power systems not listed, are available upon request.

ACCESSORIES

Standard Table Insert. Same as furnished with machine. 2 lbs.

CAT. NO. 34-720

Arbor Extension, 1" dia., accommodates dado heads up to 2" wide. 2 lbs.

CAT. NO. 34-722

Arbor Extension, 1" dia., same as furnished with saw. 4 lbs.

CAT. NO. 34-723

Set of two Arbor Extensions, 1 $\frac{1}{8}$ " dia., one for saw blades and one for dado heads (up to 2" wide). 4 lbs.

CAT. NO. 34-724

Set of two Arbor Extensions, 1 $\frac{1}{4}$ " dia., one for saw blades and one for dado heads (up to 2" wide). 4 lbs.

CAT. NO. 34-725

Table Extension, 17 $\frac{1}{2}$ " wide, same as furnished with machine. Makes table 65 $\frac{1}{2}$ " x 38 $\frac{3}{4}$ ". May be used on right or left side of table. 70 lbs.

CAT. NO. 34-726

Miter Gage. Same as furnished with machine. 15 lbs.

CAT. NO. 34-727

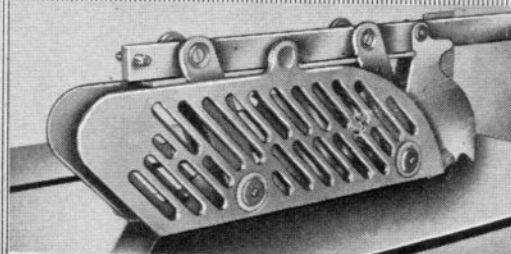
Miter Gage Yoke Assembly. For use with miter gage furnished with saw to form double miter gage assembly. Includes one miter gage and yoke. 18 lbs.

CAT. NO. 34-728

Safety Guard with Anti-kickback Fingers and Splitter. Same as furnished with machine. 15 lbs.

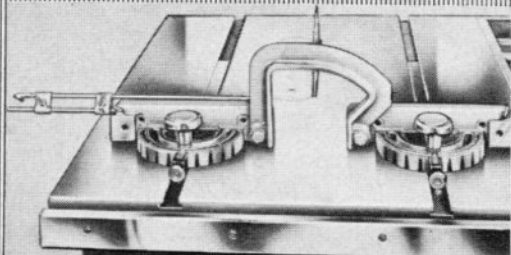
CAT. NO. 34-729

For additional circular saw accessories, see Pages 60 and 61.



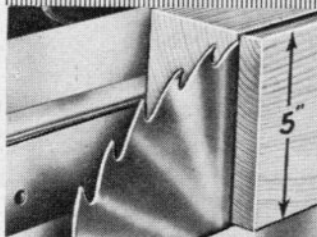
SUPER-SAFE GUARD!

Independently operating guard halves cover the blade completely, regardless of the angle or size of cut. You get full protection, even when cutting materials of irregular shape and varying thicknesses. Guard assembly may be quickly and easily removed.



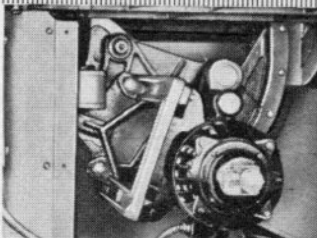
EXTRA CUT-OFF ACCURACY!

Double T-slots in table hold miter gages securely, even beyond front of table . . . prevent miter gages from twisting or falling out. Extra miter gage with yoke (illustrated) is available as an accessory . . . connects to miter gage furnished with saw to provide extra support and extra accuracy when cutting long stock.



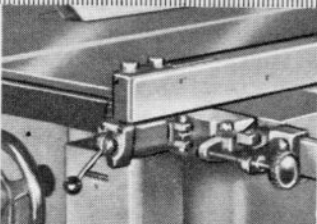
UNMATCHED CAPACITY!

Cuts stock 5" thick! Full 17" of table in front of blade at maximum blade height means you get ample table support when cutting wide, thick stock. Table is a big 48" x 38 $\frac{3}{4}$ "; extension available for extra large 65 $\frac{1}{2}$ " x 38 $\frac{3}{4}$ " table surface.



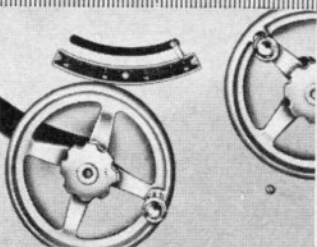
MASSIVE CONSTRUCTION!

Extra heavy trunnions support entire saw carriage. Raising, lowering and tilting mechanisms are completely jam-proof. Short-center, 4 V-belt drive assures constant, even power transmission. Powerful 3 or 5 horsepower motor, mounted and wired.



SELF-ALIGNING FENCE!

Single, up-front control securely locks fence at both front and rear, simultaneously. Exclusive, spring-loaded pins maintain fence alignment at all times. Micrometer fence adjustment control can be used on either side of fully machined fence; guide bar is graduated to 36".



UP-FRONT CONTROLS!

Both raising and tilting control hand wheels are conveniently located at the front for quick, jam-proof blade adjustment . . . large knobs facilitate locking of controls. Graduated scale assures accurate tilt angle adjustment.

new DELTA saw-jointer combination 9" tilting arbor saw . . . 4" precision jointer

**A NEW LOW-COST
COMBINATION
DESIGNED FOR
ALL-AROUND USE**

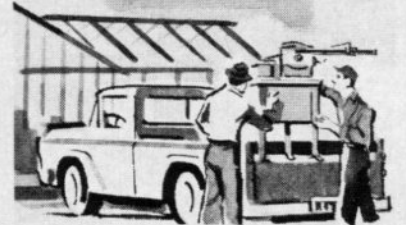
IN INDUSTRY

Use it for production work or special jobs in commercial and pattern shops—throughout industry—wherever sawing and jointing must be quickly and accurately done at low cost.



IN BUILDING TRADES

Carry it in your pick-up truck and take it right to the job site. Cut to fit and plane to finish—framing, sheathing, siding, trim and flooring.



**engineered to meet your
MOST EXACTING requirements!**

- **POWERFUL**—new Delta 1 HP motor develops more than 2 HP *under full load*.
- **BIG CAPACITY**—saw rips to the center of a 4-foot panel . . . cuts stock 2 $\frac{3}{4}$ " thick, a big 2" at 45° blade tilt . . . jointer planes stock up to 4" wide.
- **PORTABLE**—compact in design. You can easily move it anywhere it's needed. Optional casters increase its on-the-job mobility.
- **ACCURATE**—Delta *quality* construction—preloaded, lubricated-for-life ball bearings; precision bored bearing seats; precision ground spindles and balanced pulleys—guarantees top quality cutting performance for the life of the machine.

catalog listing

BASIC MACHINE WITH STEEL STAND: 9" Circular Saw—4" Jointer Combination Unit. Includes No. 34-600 9" Tilting Arbor Circular Saw, No. 37-290 4" Jointer, No. 37-293 Riser Block Package, No. 50-308 Steel Stand, and No. 49-185 V-belt and Pulley Group. Without motor and switch. 225 lbs.

CAT. NO. 34-650

Note: Items bearing individual catalog numbers, as included in No. 34-650, can be ordered separately.

MOTOR FOR SINGLE PHASE OPERATION

Motor, 1 HP, 115 V, 60 cy, AC, 3450 rpm. Includes on-and-off switch, 115 V 8-foot cord, 3-prong grounding type plug and adapter. 34 lbs.

CAT. NO. 62-273

ACCESSORIES

Super-Safe Splitter Mounted Guard with anti-kickback fingers. 12 lbs.

CAT. NO. 34-671

Retractable Caster Set for No. 50-308 steel stand. 13 lbs. **CAT. NO. 49-360**

Note: For circular saw accessories, see Pages 60 and 61; for jointer accessories, see Page 48.

CONVENIENT ALL-INCLUSIVE CATALOG NUMBER

FOR SINGLE PHASE OPERATION

9" Tilting Arbor Saw—4" Precision Jointer complete. Includes No. 34-650 saw-jointer unit on steel stand and No. 62-273 1 HP motor with on-and-off switch. 259 lbs.

CAT. NO. 34-652

specifications

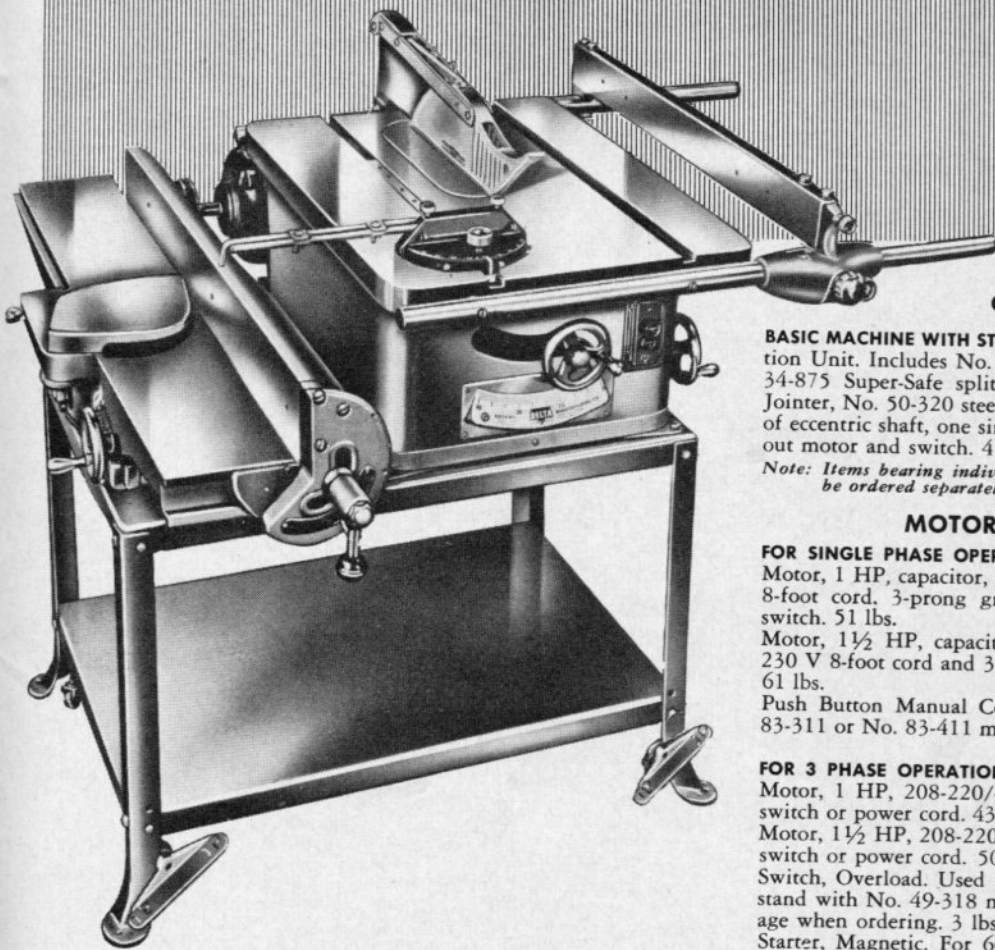
JOINTER

Cutting Capacity:
Width 4" Depth $\frac{1}{4}$ "
Rabbeting Capacity $\frac{1}{4}$ x 4"
Fence tilts 45° R & L (positive stops at 90°, 45° R & L)
Table size 5 $\frac{1}{4}$ " x 27 $\frac{1}{4}$ "
See Page 48 for complete jointer specifications.

SAW

Diameter of saw blade 9"
Diameter of arbor $\frac{3}{8}$ "
Maximum depth of cut 2 $\frac{3}{4}$ "
Maximum width of dado cut 13/16"
Table in front of blade at max. cut 12"
Table size 22 x 15"
Overall dimensions 36" deep x 44 $\frac{1}{4}$ " wide x 39" high
See Page 49 for complete saw specifications.

DELTA saw-jointer combination 10" tilting arbor saw...long bed 6" jointer



BIG Delta 10" Circular Saw... now teamed with the DELUXE Delta 6" Jointer to give you the world's most "up-to-date" SAW-JOINTER COMBINATION!

Check these **ADVANTAGES** and see why this *rugged* DELTA Saw-Jointer Combination is ideal for contractors, cabinet makers, furniture and novelty manufacturers . . . wherever work must be accurately done at high speed and low cost:

- **NO INTERFERENCE**—You can operate the machines singly or together.
- **SPACE SAVINGS**—with two machines mounted on one stand, you save valuable shop space.
- **LOW POWER COST**—one motor instead of two powers both machines keeping your motor costs to a minimum.
- **PORTABILITY**—you can load this compact unit on a truck and take it right to the job site for centralized cutting.
- **MAXIMUM EFFICIENCY**—you can rip stock to width, then joint it by moving only a step.

For complete description of the 10" Bench Saw, see Page 50.
For the 6" Deluxe Jointer, see Page 46.

specifications

Jointer

Cutting capacity:
Width 6" Depth 1/2"
Rabbeting Capacity 1/2 x 6"
Fence tilts right and left 45°
Knives in cutterhead 3
See Page 46 for complete jointer specifications.

Saw

Diameter of saw blade 10"
Diameter of arbor 3/8"
Maximum depth of cut 3 1/4"
Maximum width of dado cut 13/16"
Table in front of blade at max. cut 12"
Table size 20 x 27"
Overall dimensions 47 3/8" deep x 55" wide x 41 1/2" high
See Page 50 for complete saw specifications.

catalog listing

BASIC MACHINE WITH STEEL STAND: 10" Circular Saw—6" Jointer Combination Unit. Includes No. 34-425 10" Tilting Arbor Circular Saw with No. 34-875 Super-Safe splitter-mounted guard, No. 37-220 6" Ball Bearing Jointer, No. 50-320 steel stand, plus No. 34-880 accessory group composed of eccentric shaft, one single and one double pulley and two V-belts. Without motor and switch. 415 lbs.

CAT. NO. 37-605

Note: Items bearing individual catalog numbers, as included in No. 37-605 can be ordered separately.

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

Motor, 1 HP, capacitor, 115/230 V, 60 cy, AC, 3450 rpm. Includes 115 V 8-foot cord. 3-prong grounding type plug and adapter but no control switch. 51 lbs.

CAT. NO. 83-311

Motor, 1 1/2 HP, capacitor, 115/230 V, 60 cy, AC, 3450 rpm. Includes 230 V 8-foot cord and 3-prong grounding type plug but no control switch. 61 lbs.

CAT. NO. 83-411

Push Button Manual Control Switch and Wiring Kit for use with No. 83-311 or No. 83-411 motor (also can be used on DC motors). 3 lbs.

CAT. NO. 34-881

FOR 3 PHASE OPERATION

Motor, 1 HP, 208-220/440 V, 50/60 cy, AC, 2850/3450 rpm. Without switch or power cord. 43 lbs.

CAT. NO. 86-921

Motor, 1 1/2 HP, 208-220/440 V, 50/60 cy, AC, 2850/3450 rpm. Without switch or power cord. 50 lbs.

CAT. NO. 87-121

Switch, Overload. Used with No. 34-882 Switch. Easy to mount on steel stand with No. 49-318 mounting bracket. Specify motor number and voltage when ordering. 3 lbs.

CAT. NO. 49-365

Starter, Magnetic. For 60 cy, 208-220 V only. Provides low-voltage, no-voltage and overload protection. Used with No. 34-883 switch. Easy to mount on steel stand with No. 49-318 mounting bracket. Specify motor number when ordering. 6 lbs.

CAT. NO. 49-396

Starter, Magnetic. For 60 cy, 440 V only. Provides low-voltage, no-voltage and overload protection. Used with No. 34-883 switch. Easy to mount on steel stand with No. 49-318 mounting bracket. Specify motor number when ordering. 6 lbs.

CAT. NO. 49-397

Push Button Manual Control Switch and Wiring Kit for use with No. 86-921 or No. 87-121 motor (also can be used on DC motors). 3 1/2 lbs.

CAT. NO. 34-882

Push Button Magnetic Control Switch and Wiring Kit for use with No. 86-921 or No. 87-121 motor and No. 49-396 208-220 V magnetic starter or No. 49-397 440 V magnetic starter. 3 lbs.

CAT. NO. 34-883

Mounting Bracket for mounting No. 49-365 overload switch or No. 49-396 or No. 49-397 magnetic starters on steel stand. 3 lbs.

CAT. NO. 49-318

ACCESSORIES

Rear Knife Guard for jointer. 2 lbs.

CAT. NO. 37-807

Retractable Caster Set for No. 50-320 steel stand. 13 lbs.

CAT. NO. 49-364

Steel Stand, 24" high with top 22 x 33 3/8". 72 lbs.

CAT. NO. 50-320

For additional circular saw accessories, see Pages 60 and 61.

CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

FOR SINGLE PHASE OPERATION

10" Tilting Arbor Saw—6" Jointer complete. Includes 37-605 saw-jointer unit on steel stand, 83-311 1 HP motor and 34-881 manual control switch and wiring kit. 469 lbs.

CAT. NO. 37-611

FOR 3 PHASE OPERATION

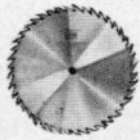
10" Tilting Arbor Saw—6" Jointer complete. Includes 37-605 saw-jointer unit on steel stand, 86-921 1 HP motor, 34-882 manual control switch and wiring kit, 49-365 overload switch and 49-318 mounting bracket. 467 lbs.

CAT. NO. 37-613

Your Circular Saw does many additional jobs with DELTA'S complete line of circular saw accessories

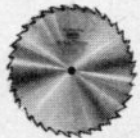
CIRCULAR SAW BLADES

(Select the right blade for your job)



COMBINATION

Dia.	Arbor	Cat. No.
8"	5/8"	325
9"	5/8"	33-196
10"	5/8"	1015
12"	1"	33-197
12"	1 1/8"	34-930
14"	1"	33-179



RIP

Dia.	Arbor	Cat. No.
8"	5/8"	334
9"	5/8"	33-198
10"	5/8"	1017
12"	1"	33-199
12"	1 1/8"	34-931
14"	1"	33-180



CROSS CUT

Dia.	Arbor	Cat. No.
8"	5/8"	335
9"	5/8"	33-223
10"	5/8"	1018
12"	1"	33-246
12"	1 1/8"	34-932



HOLLOW GROUND

Dia.	Arbor	Cat. No.
8"	5/8"	326
9"	5/8"	33-227
10"	5/8"	1016
12"	1"	33-228
12"	1 1/8"	34-933
14"	1"	33-182



NOVELTY TOOTH

Dia.	Arbor	Cat. No.
9"	5/8"	33-224
10"	5/8"	34-804
12"	1"	33-202



PLYWOOD

New for 8, 9, and 10" circular saws, also 9 and 10" radial saws. Cuts to 3/4" deep. Has 200 teeth for fine finish work.

Dia.	Arbor	Cat. No.
7"	5/8"	34-707

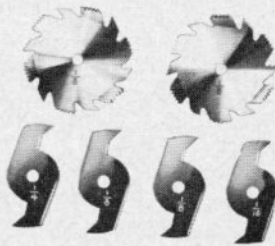
NEW CARBIDE-TIPPED COMBINATION (Not Illustrated)

Recommended for general purpose use on hard or soft woods, certain plastics, laminates, non-ferrous metals, transite and non-metallic roofing. Each tooth has an alternate top bevel grind (ATB). Entire blade is hard chrome finished.

Dia.	Arbor	Teeth	Cat. No.
9"	5/8"	24	34-840
10"	5/8"	24	34-841
*12"	1" or 1 1/8"	24	34-842

*Contains removable bushing.

DADO HEAD

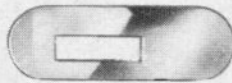


DADO HEAD SETS (HEAVY DUTY)

Production type dado sets. Will cut grooves from 1/8" to 1 3/16" in 1/16" variations. 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.	Width of Cut	Dia.	Arbor Hole	Weight Lbs.	Catalog Number
3	1/8"-13/16"	10"	1"	10	33-174
4	1/8"-1 1/16"	8"	1 1/8"	8	34-940
3	1/8"-13/16"	8"	5/8"	8	33-212
3	1/8"-13/16"	6"	5/8"	3 1/2	34-333

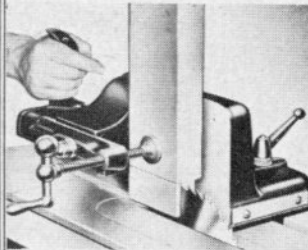
DADO HEAD INSERT



DADO HEAD INSERTS

Insert for 14" tilting arbor saw. 2 lbs. **CAT. NO. 34-721**
 Insert for 12" tilting arbor saw. 2 lbs. **CAT. NO. 34-945**
 Insert for 10" tilting arbor saw. 1 1/2 lbs. **CAT. NO. 1452**
 Insert for 9" tilting arbor saw. 1 1/2 lbs. **CAT. NO. 34-663**

TENONER



CARBIDE-COATED DISCS

Mount on circular or radial saw arbor in same manner as a saw blade. Especially designed for cutting and sanding such problem materials as plywood, plastic, fiber glass, composition board, etc. Coarse (36 grit) on edge and one side with fine (80 grit) on reverse side. Discs require no sharpening for their life.

8" dia. x 1/8" thick, 5/8" arbor hole. 2 lbs.

CAT. NO. 49-566

9" dia. x 1/8" thick, 5/8" arbor hole. 2 1/2 lbs.

CAT. NO. 49-567

TENONER

For use with 10" and 9" saws. Takes stock up to 2 3/4" thick and any width within capacity of the saw. With use of the No. 1171 spacing collars and two saw blades, 1/4" or 3/8" tenons can be cut with one pass. Tenoner complete with base plate. 31 lbs.

CAT. NO. 1172

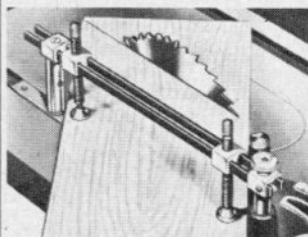
Spacing collar set (one 1/4" and one 3/8" collar), 1/2 lb.

CAT. NO. 1171

Tenoner for use with No. 1186 Sliding Jig. Can also be used on wood shaper. 21 lbs.

CAT. NO. 1170

CLAMP ATTACHMENT FOR MITER GAGE



CLAMP ATTACHMENT FOR MITER GAGE

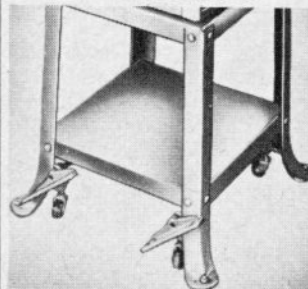
Holds work securely for accurate miter and cut-off operations. Used with No. 864 and 34-884 Miter Gage on 10" and 9" saws. Complete with clamp bar, two sliding clamp screws and front and rear posts. 2 1/4 lbs.

CAT. NO. 865

Extra Clamp Screw and Block for No. 865 Clamp Attachment. 1 lb.

CAT. NO. 873

RETRACTABLE CASTER SETS



Make your Delta Power Tools 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.

Retractable Caster Set complete to fit steel stand: No. 50-308 for No. 34-650 Saw-Jointer Combination Unit. 13 lbs.

CAT. NO. 49-360

Retractable Caster Set complete to fit steel stand: No. 50-810 for No. 34-600 9" Circular Saw. 13 lbs.

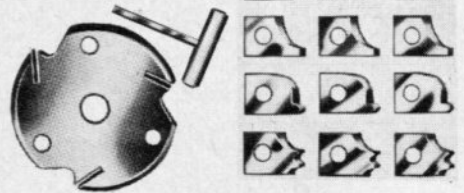
CAT. NO. 49-362

Retractable Caster Set complete to fit steel stands: No. 50-315 for No. 34-431 10" Bench Saw, No. 50-320 for No. 37-605 Saw-Jointer Combination Unit. 13 lbs.

CAT. NO. 49-364

with a moulding cutterhead and these
53 sets of knives you can cut thousands
of different mouldings on your circular saw

MOULDING CUTTER SETS AND PARTS



CAT. NO. 34-813



CAT. NO. 34-821

BASIC MOULDING
CUTTERHEAD
AND KNIFE SET

Includes No. 265 cutterhead, No. 1521 wrench, set of No. 35-102 cutter knives and bushing which allows use of cutterhead on 9" and 10" saws with 5/8" or 1/2" arbors.

Heavy duty moulding cutter set for all circular saws with a 5/8" or 1/2" arbor. With No. 265 head, 4 sets of high speed steel knives Nos. 35-102, 35-103, 35-221, 35-222, bushing which allows use of cutterhead on 9" and 10" saws with 5/8" or 1/2" arbors, and wrench (pictured at right). 8 lbs.

CAT. NO. 34-813

Heavy duty solid steel moulding cutterhead only, 6" diameter, to fit 1" or 1 1/8" saw arbors. Without wrench or knives. 10 lbs.

CAT. NO. 34-941

Heavy duty solid steel moulding cutterhead only, 4" diameter, to fit 3/8" or 1/2" saw arbors. Without wrench or knives. 3 lbs.

CAT. NO. 265

Moulding cutter table insert for 34-350 12" tilting arbor saw. 2 lbs.

CAT. NO. 34-945

Moulding cutter table insert for 34-450, 34-451 and 34-425 10" Tilting Arbor Circular Saws. 1 1/2 lbs.

CAT. NO. 1453

Moulding cutter table insert for No. 34-600 9" tilting arbor saw. 1 1/2 lbs.

CAT. NO. 34-662

Allen Key wrench for use with all heads listed above. 1/8 lb.

CAT. NO. 1521

ILLUSTRATIONS SHOWN BELOW ARE ACTUAL SIZE

35-100 1/2" Cove, 5/16" Quarter Round	35-121 Window Sash	35-194 5 Flute (1/8" Flute)	35-204 3/4" Flute	35-221 Thumb Moulding	35-229 Bed Mould Cutter	35-238 3/4" Bead
35-101 5/16" Cove, 3/8" Bead	35-123 Door Moulding (m)	35-195 5 Bead (1/8" Bead)	35-206 Ogee R. H.	35-222 1/2" Cove & 1/4" Flute	35-230 Pilaster Flute	35-241 1/4" Tongue
35-102 1/8" and 3/8" Qr. Rd. and 1/4" Bead	35-126 Door Moulding (f)	35-196 Wedge Tongue	35-208 Cope Sash	35-223 Ogee	35-233 5/16" Flute	35-242 1/4" Groove
35-103 1/4" and 1/2" Qr. Rd.	35-131 Glue Joint	35-197 Wedge Groove	35-209 Bead Sash	35-224 5/8" Cove	35-234 5/16" Bead	35-243 Cove & Bead Moulding
35-104 Straight	35-190 3 Bead (3/16" Bead)	35-198 Table Edge	35-211 1" Flute	35-225 Flute Bead, Qr. Rd. and Ogee Comb.	35-235 3/8" Flute	35-245 Oval Sash
35-106 90° Flute	35-191 3 Flute (3/16" Fl.)	35-200 Clover Leaf Screen Mldg. (9/32" x 9/16")	35-212 3/8" Bead	35-226 Flute Bead, Qr. Rd. and Ogee Comb.	35-236 3/8" Flute	35-246 Oval Cope
35-110 Drawer Joint	35-192 3 Bead (1/4" Bead)	35-201 1/2" Flute	35-213 Beaded Screen	35-227 Flute Bead, Qr. Rd. and Ogee Comb.	35-237 5/8" Bead	35-247 Door Lip
35-120 Ogee	35-193 3 Flute (1/4" Flute)	35-202 1/2" Bead		35-228 Flute Bead		

DELTA 16"-20" radial saw

For heavy-duty production work

Now, new features, *at no extra cost*, make this saw better than ever! New Locking Device on over-arm guarantees positive clamping at any saw setting. New built-in, Precision Indexing Plunger enables operator to make quick, positive settings at most-used angle positions. New "Micro-Set" Miter Stops, that are *individually adjustable*, assure absolutely true 90° cross cuts and 45° miter cuts *for the life of the saw* (see Page 63 for illustration).

And to step up production in the shop or on the job, Delta offers you a New Chain Feed Control and a New Safety Return Attachment (for description, see below).

This heavy duty production model will use a 16", 18" or 20" saw blade. Built for continuous, rugged operation, it has all the "beef" and stamina needed for precision cutting in production lines, in lumber yards, shipping departments, aircraft factories, ship yards, building construction and dozens of similar operations. It's also ideal for cutting non-ferrous metals such as aluminum and brass. Saw comes with a 16" blade guard, 16" combination blade and legs.

Note: Machines are available with No. 33-543 Guard and 20" blade. Add \$32.50 to selling price.

catalog listing

H.P.	Voltage	Phase	Cycles	Std. Blade	Cat. No.
3	230	1	60	16"	33-500
5	220	3	60	16"	•33-501
5	440	3	60	16"	•33-502
5	550	3	60	16"	33-503
5	230	1	60	16"	33-504
5	208	3	60	16"	33-505
7½	220	3	60	16"	•33-508
7½	440	3	60	16"	•33-509
7½	550	3	60	16"	33-510

Power Feed Attachment (See Page 67)

• Supplied with 220/440V motors, wired for voltage listed.

Note: 16"-20" Radial Saws, with motors and controls for power systems not listed, are available upon request.

Electrical Controls—single-phase, three-phase and two-phase models are supplied with a magnetic starter and a separate push button control station. Magnetic starter provides motor overload protection.

Totally-enclosed, fan-cooled motors are furnished on all above units.

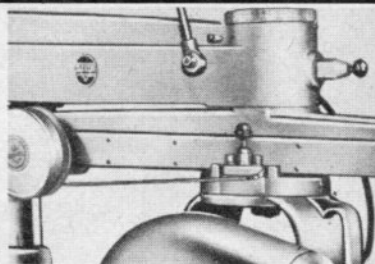
DELTA FEATURES FOR MAXIMUM UTILITY

- **FAMOUS DOUBLE OVERARM CONSTRUCTION**—allows full 360° rotation of the saw over center of table—gives full table capacity for left as well as righthand miters from 0° to 90°.
- **EXCLUSIVE NEW "MICRO-SET" MITER STOPS**—individually adjustable to guarantee exact 90° and 45° cuts for the life of the saw.
- **ONLY SAW WITH ALL CONTROLS IN FRONT**—every lock, lever, crank and calibrated scale is "up front" for safer, easier operation.
- **16" SAW BLADE CUTS 5½" DEEP**—unmatched capacity—more than any other 16" radial saw.
- **ENCLOSED LIFETIME TRACKWAYS**—glass-smooth, hardened surfaces minimize roller friction.
- **NEW "LOW-RISE" MOTOR**—powerful, direct drive, totally-enclosed, fan-cooled motor furnished in 3, 5 and 7½ H.P.

specifications

Motor Rating.....	3, 5 and 7½ H.P.
Cross cut capacity—1" stock.....	25"
Maximum rip capacity.....	38½"
Maximum depth of cut—16" saw.....	5½"
Maximum depth of cut—20" saw.....	7½"
Dado capacity (with 12" dado).....	2-1/16" wide
Diameter saw arbor.....	1"
Diameter of combination saw supplied.....	16"
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
Motor Speed (full load) 50 cycles.....	2850 rpm
Overall Height.....	62"
Floor space required.....	37 x 37"
Wood table top.....	29 x 44"
Height Table Top.....	32"
Shipping weight (approx.).....	750 lbs.

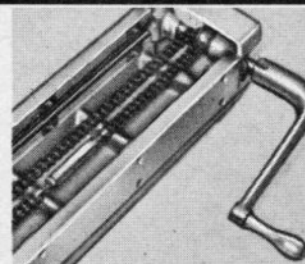
GET INCREASED EFFICIENCY AND SAFETY WITH THESE NEW DELTA 16"-20" RADIAL SAW ATTACHMENTS



NEW SAFETY RETURN ATTACHMENT

Offers important advantages of increased safety while reducing operator fatigue, particularly on repetitive cutting operations. Operator makes cut and cutterhead automatically returns to a safe out of the way position behind the guide fence. Stock then is safely positioned for next cut. 4¼ lbs.

CAT. NO. 33-550



NEW CHAIN FEED CONTROL

Gives a constant, steady feed for cutting non-ferrous metals, 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. CAT. NO. 33-544

DELTA 12"-14" radial saw

Semi-portable model for field and shop use

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—rips up to 36" wide—the power packed two, three or five horsepower motor stands up to extra heavy work loads over a long haul. You have your choice of either the *standard arm* or the *long arm* model, which offers the *extra capacities* required in fabricating roof trusses, wall and floor panels, kitchen cabinets and interior partitions.

This versatile saw incorporates all the fine features of the 16"-20" model. It's designed for home builders and prefabricators, for maintenance work or on the production line in industrial plants, and for lumber yards and all types of woodworking shops where low cost, high production cutting with constant accuracy is essential.

Saw comes with a 14" blade guard, 12 or 14" combination blade and legs.

catalog listing

H.P.	Voltage	Phase	Cycles	Std. Blade	Cat. No. Std. Arm Manual Control	Cat. No. Std. Arm Magnetic Control	Cat. No. Long Arm Manual Control	Cat. No. Long Arm Magnetic Control
2	115/230	1	60	12"	*33-526		*33-700	
3	115/230	1	60	12"	*33-640		*33-701	
3	220	3	60	14"	*33-527	*33-523	*33-702	*33-716
5	220	3	60	14"	*33-641	*33-639	*33-703	*33-717
3	440	3	60	14"	*33-528		*33-704	
5	440	3	60	14"	*33-642		*33-705	
3	550	3	60	14"	33-532		33-711	
5	550	3	60	14"	33-646		33-712	
3	208	3	60	14"	33-535	33-524	33-714	33-718
5	208	3	60	14"	33-648		33-715	

Power Feed Attachment (See Page 67) 208 lbs.
 New Safety Return Attachment (See Page 62) 4¼ lbs.
 Steel Legs, set of 4. 42 lbs.

Note: 12"-14" Radial Saws, with motors and controls for power systems not listed, are available upon request.

Electrical Controls—single-phase, 2 HP models are supplied with three-pole, single-throw toggle switch with integral motor overload protection. All other models are supplied with either manual or magnetic starter. Manual starter provides on-off control with thermal overload protection; magnetic starter provides on-off control, low voltage, no voltage and overload protection.

*Wired for 230V operation.

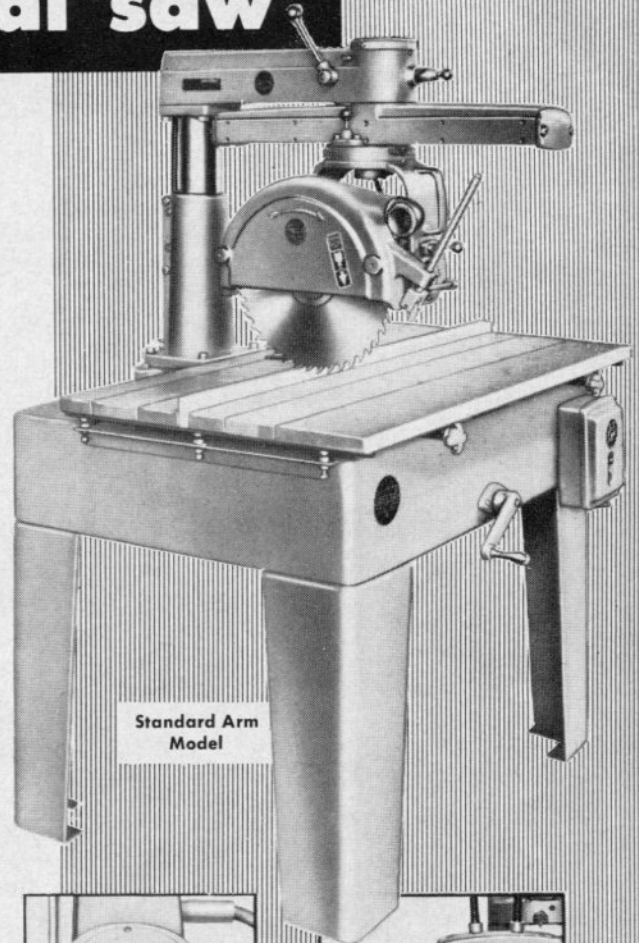
*Supplied with 220/440V motors, wired for voltage listed.

Totally-enclosed, fan-cooled motors are furnished on all above units.

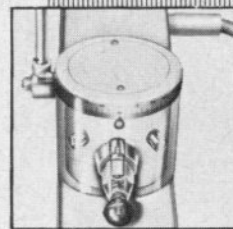
NOTE: Standard machines are furnished with legs. When ordering machines less legs, deduct \$15.00 from selling price.

specifications

Motor rating	2, 3 and 5 H.P.
Cross cut capacity—1" stock (Std. Arm)	18"
Cross cut capacity—1" stock (Long Arm)	24"
Maximum rip capacity (Std. Arm)	30"
Maximum rip capacity (Long Arm)	36"
(Additional $1\frac{3}{8}$ " rip capacity on 3 HP, single phase and 5 HP, three phase models.)	
Maximum depth of cut—12" saw	3¾"
14" saw	4¾"
Dado capacity (with 10" dado)	1½" wide
Diameter saw arbor	1"
Diameter of combination saw supplied	12" or 14"
Bevel positive stops	0°, 45° and 90°
Miter positive stops	90° and 45°, R and L
Type of track	Replaceable, hardened, nickel-alloy rods
Motor Speed (full load) 60 cycles	3450 rpm
Motor Speed (full load) 50 cycles	2850 rpm
Overall Height	56"
Floor space required	30 x 37"
Wood table top (Standard)	26 x 42"
Wood table top (with Extension)	32 x 42"
Height table top	32"
Shipping weight (approx.) (Std. Arm)	525 lbs.
Shipping weight (approx.) (Long Arm)	535 lbs.

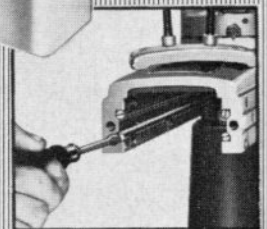


Standard Arm Model



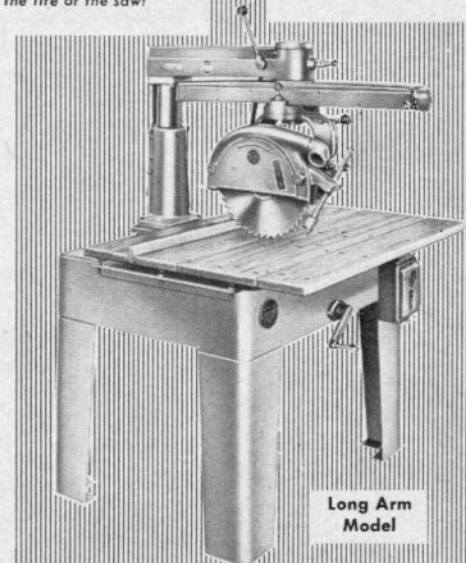
EXCLUSIVE NEW "MICRO-SET" MITER STOPS

Only Delta Radial Saws give 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!



LIFETIME ACCURACY

Delta 16"-20", 12"-14" and 10" Radial Saws exclusively feature life-time track rods that can be easily rotated to guarantee precision cutting accuracy for the life of the machine.



Long Arm Model

DELTA 10" portable radial saw



Approved
in Canada



More powerful than ever for greater cutting efficiency on all jobs

Designed for the *progressive* builder, this cost-cutting saw is powered by a rugged 1½ HP motor that develops up to 3 HP under load. It has all the precision accuracy and multi-purpose versatility of a true radial saw in a *portable* model. Easily moved from job to job, it enables the builder to take advantage of the economies of centralized cutting—to pre-cut an entire structure with only this one saw. And it's so perfectly balanced—so completely portable—that two men can carry it through a standard doorway for on-the-spot sawing. Also ideal for in-plant cutting, such as plant maintenance work, where the saw must be moved to the area where cutting is required. In addition, it's an excellent saw for the school shop, jobbing contractor, pattern shop and retail lumber yard.

Unit can be ordered with steel legs for permanent installation. Saw comes with a 10" blade guard and a 10" combination blade. Carrying handles furnished on bench models only.

‡All 60 cycle models are approved by Canadian Standards Association.

†Model No. 33-582 is Underwriters' Laboratories' approved.

Note: 12" Blade Guard, No. 33-593, is available as an accessory. See Page 66.

catalog listing

H.P.	Voltage	Phase	Cycles	Cat. No. Manual Control	Cat. No. Magnetic Control
1½	115/230	1	60	*33-582	
2	220	3	60	*33-583	*33-596
2	440	3	60	*33-584	
2	208	3	60	33-585	*33-597
2	550	3	60	33-586	
				33-595	

Steel legs with plywood shelf.

Note: 10" Radial Saws, with motors and controls for power systems not listed, are available upon request.

Electrical Controls—single-phase models are supplied with two-pole toggle switch and integral motor overload protection. Three-phase models are supplied with either three-pole toggle switch and thermal overload switch or a magnetic starter. Toggle and overload switch combination provide on-off control with thermal overload protection. Magnetic starter provides on-off control, low voltage, no voltage and overload protection.

*Wired for 230V operation. *Supplied with 220/440V motors, wired for voltage listed.

ADVANTAGES OF 10" PORTABLE RADIAL SAW

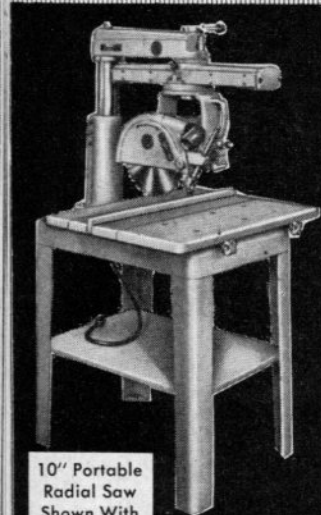
- **FAMOUS DOUBLE OVERARM CONSTRUCTION**—allows full 360° rotation of the saw over center of table.
- **UNLIMITED MITER CAPACITY**—0° to 90°, right or left.
- **FULL THREE-INCH** depth of cut with 10" blade.
- **LIGHTWEIGHT**—only 243 lbs., can easily be carried by two men, even through a standard doorway.

specifications

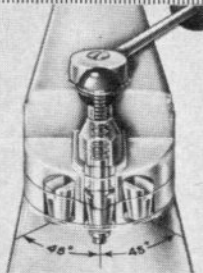
Motor rating	1½, 2 H.P.
Cross-cut capacity—1" stock	16"
Maximum rip capacity	25"
Dado capacity (with 6" dado)	13/16" wide
Maximum depth of cut—10" saw	3"
Diameter saw arbor	5/8"
Diameter of combination saw supplied	10"
Bevel positive stops	0°, 45°, 90°
Miter positive stops	90° and 45°, R & L

Type of track	Replaceable, hardened, nickel-alloy rods
Motor speed (full load)	60 cycles
Overall height (on stand)	65¾"
Width of base	21"
Depth of base	25½"
Wood table top	22 x 30"
Height table top (on stand)	33"
Shipping weight (approx.)—portable type	283 lbs.
1½ H.P. models are supplied with a voltage change switch.	

64



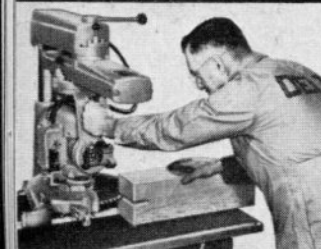
10" Portable
Radial Saw
Shown With
Steel Stand



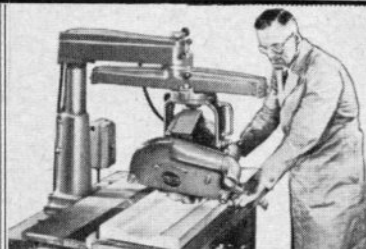
EXCLUSIVE NEW "MICRO-SET" MITER STOPS

Only Delta Radial Saws give 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!

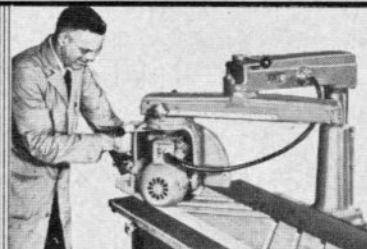
**DELTA
RADIAL SAWS
GIVE YOU
EXCLUSIVE 360°
TRACK ROTATION
OVER THE TABLE**



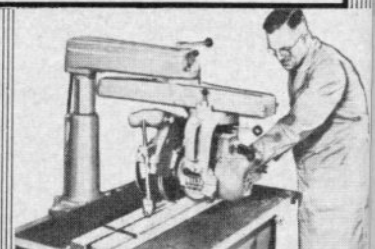
Horizontal end cutting



Radius cut stock lengthwise



Angle dado, right or left



Straight Plow

DELTA "Super 900" 9" radial saw



† Approved in Canada



Powerful . . . Accurate . . . Versatile

A completely new versatile saw that's ideal for all-around use. Powered by a husky 1 H.P. motor that develops up to 2 H.P. under load—*More Powerful than any 9" radial saw motor ever built!* This new power, plus exclusive, new "Micro-Set" Miter Stops that assure perfect 90° and 45° right and left cuts for the life of the saw (see Page 64) . . . plus new up-front fence controls, make this saw an unmatched value. An excellent saw for accurate, on-the-job cutting of interior trim or for use in the plant for general maintenance, crating, etc. Can quickly be converted to do dadoing, moulding, sanding and many other operations.

Saw comes with a 9" blade guard and a 9" combination blade.

†Model No. 33-916 is Underwriters' Laboratories approved.

‡Models 33-916 and 33-921 are approved by Canadian Standards Assoc.

Bench Model

H.P.	Voltage	Phase	Cycles	Cat. No.
1	115/230	1	60	*33-916
1	220	3	60	●33-917
1	440	3	60	●33-918
1	115/230	1	50	*33-924
1	220/380	3	50	33-925

With Steel Stand

H.P.	Voltage	Phase	Cycles	Cat. No.
1	115/230	1	60	*33-921
1	220	3	60	●33-922
1	440	3	60	●33-923
1	115/230	1	50	*33-927
1	220/380	3	50	33-928
				33-630
				49-359

Steel Stand. 31 lbs.

Retractable Casters for Steel Stand. 13 lbs.

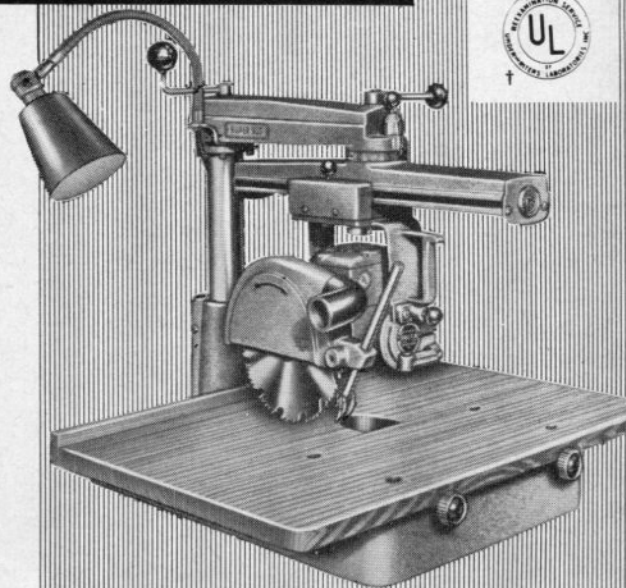
Electrical Controls—single-phase models are supplied with single-pole toggle switch and integral motor overload protection. Three-phase models are supplied with three-pole toggle-switch. If thermal overload protection is desired for three-phase motors, order No. 49-365 Overload Switch.

*Wired for 115V operation.

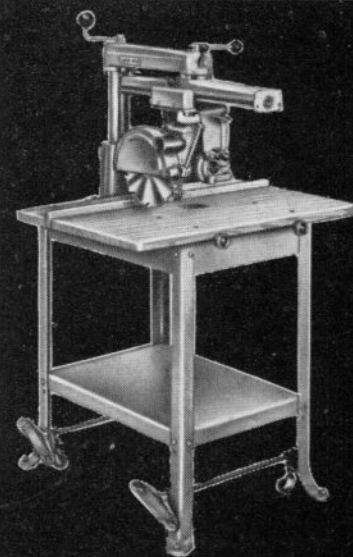
●Supplied with 220/440V motors, wired for voltage listed.

UNMATCHED FEATURES

- **FAMOUS "TURRET-ARM ACTION"**—preferred in big industrial saws.
- **EXCLUSIVE NEW "MICRO-SET" MITER STOPS**—individually adjustable to assure perfect 90° and 45° right and left-hand cuts for the life of the saw!
- **WORLD'S MOST POWERFUL 9" RADIAL SAW MOTOR**—true 1 H.P. motor develops up to 2 H.P. under load (single phase models) . . . dual voltage . . . 115/230V . . . life-lubricated ball bearings . . . integral overload reset button . . . *plus a full year guarantee!*
- **SAFE "UP-FRONT" CONTROLS**—important operating controls, including new fence controls and new safety switch, located *up front* within easy reach.



"Super 900" Radial Saw Shown With New, Adjustable Lamp Attachment (Optional) See Page 90 for Description.

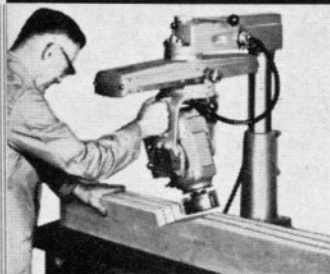


"Super 900" Radial Saw Shown With Steel Stand and Retractable Casters

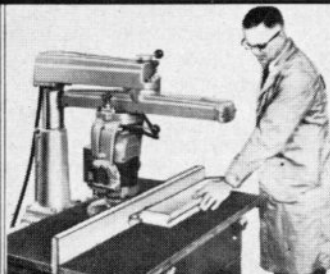
specifications

Motor rating	full 1 H.P.	Miter positive stops	90° and 45°, R & L
Cross-cut capacity—1" stock	15"	Type of track	Lifetime, wear-resistant iron
Maximum rip capacity	24"	Motor Speed (full load) 60 cycles	3450 rpm
Maximum depth of cut—9" saw	2½"	Motor Speed (full load) 50 cycles	2850 rpm
Dado capacity (with 6" dado)	13/16" wide	Overall height (on steel stand)	55"
Diameter of saw arbor	3/8"	Table size	32 x 21 x 1-1/16"
Diameter of combination blade supplied	9"	Table height (on steel stand)	33"
Bevel positive stops	0°, 45°, 90°	Shipping weight (bench model)	163 lbs.

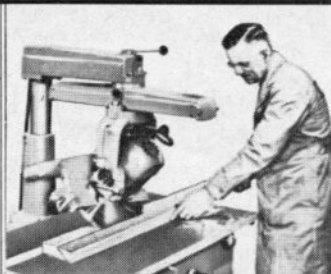
YOU CAN DO ALL THESE JOBS ON A DELTA RADIAL SAW



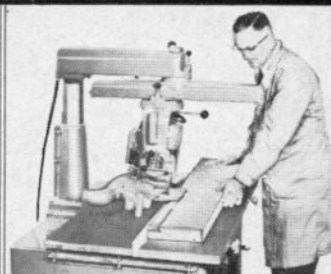
Rafter notching



Tongue and groove

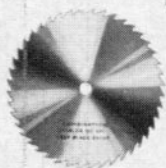


Angle rip, right or left

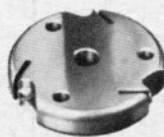


Bevel rabbet

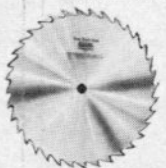
DELTA RADIAL SAW ACCESSORIES . . .



CAT. NO. 33-196



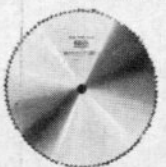
CAT. NO. 265



CAT. NO. 33-198



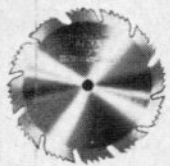
CAT. NO. 33-340



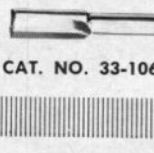
CAT. NO. 33-223



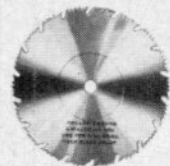
CAT. NO. 33-227



CAT. NO. 33-224



CAT. NO. 33-106



CAT. NO. 33-227



CAT. NO. 33-282



CAT. NO. 33-543



CAT. NO. 1171



CAT. NO. 33-446



CAT. NO. 34-333



COMPLETE SELECTION of SAW BLADES

Be sure to check arbor size before ordering.

COMBINATION SAW BLADES

(Flat Ground)

Model	Diameter	Arbor Hole	Catalog Number
9"	9"	$\frac{5}{8}$ "	33-196
10"	10"	$\frac{5}{8}$ "	1015
12-14"	12"	1"	33-197
12-14"	14"	1"	33-179
16-20"	16"	1"	33-183
16-20"	20"	1"	33-190

RIP SAW BLADES

(Flat Ground)

Model	Diameter	Arbor Hole	Catalog Number
9"	9"	$\frac{5}{8}$ "	33-198
10"	10"	$\frac{5}{8}$ "	1017
12-14"	12"	1"	33-199
12-14", 16-20"	14"	1"	33-180
16-20"	16"	1"	33-184
16-20"	20"	1"	33-191

CROSS CUT BLADES

(Flat Ground)

Model	Diameter	Arbor Hole	Catalog Number
9"	9"	$\frac{5}{8}$ "	33-223
10"	10"	$\frac{5}{8}$ "	1018

NOVELTY TOOTH COMBINATION SAW BLADES

(Flat Ground)

Model	Diameter	Arbor Hole	Catalog Number
9"	9"	$\frac{5}{8}$ "	33-224
12-14"	12"	1"	33-202
12-14", 16-20"	14"	1"	33-203
16-20"	16"	1"	33-204
16-20"	20"	1"	33-206

MITRE SAW BLADES

(Hollow Ground)

(4 cutting teeth — 1 raker tooth)

Model	Diameter	Arbor Hole	Catalog Number
9"	9"	$\frac{5}{8}$ "	33-227
10"	10"	$\frac{5}{8}$ "	1016
12-14"	12"	1"	33-228
12-14", 16-20"	14"	1"	33-182
16-20"	16"	1"	33-186
16-20"	20"	1"	33-193

For 8" saw blades suitable for 8" model radial saws, see Page 60.

Spacer Collars

Use with above saw blades to make accurate, clean tenons. Have $\frac{5}{8}$ " arbor hole. One set of collars—one $\frac{1}{4}$ " and one $\frac{3}{8}$ ".

CAT. NO. 1171

MOULDING CUTTERHEADS

Heavy duty, solid steel type, with $\frac{5}{8}$ " arbor hole. Without wrench or knives.

CAT. NO. 265

Heavy duty, solid steel type, with 1" arbor hole. Without wrench or knives.

CAT. NO. 33-307

STANDARD DADO HEAD SETS

These No. 3 dado sets are made of the finest steel, carefully hardened and tempered. Sets consist of two outer blades and four inside cutters, as illustrated. Will cut grooves from $\frac{1}{8}$ " to $\frac{13}{16}$ " wide with or against the wood grain. Sold in complete sets only.

Model	Diameter	Arbor Hole	Catalog Number
9"	6"	$\frac{5}{8}$ "	34-333
10"	8"	$\frac{5}{8}$ "	33-212
12-14", 16-20"	10"	1"	33-174

RAFTER NOTCHERS

With these rafter notchers you can make "bird's mouth" cuts easily and quickly. Heads are of high grade tool steel and precision balanced. For use on 12"-14" and 16"-20" models.

Three-Knife Type

Three-Knife Rafter Notcher and Cutter-head. Has 1" arbor hole. Gives $\frac{3}{4}$ " dia. cutting circle with 2" wide cutters. Comes with knives shown, two special wrenches and two special collars. CAT. NO. 33-340

ROUTER BITS

(Left Hand Rotation)

These Router Bits can be used with Adapters No. 33-601 and No. 33-304.

Size	Shank	Flute Length	Catalog Number
$\frac{1}{4}$ "	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	33-106
$\frac{3}{8}$ "	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	33-108
$\frac{1}{2}$ "	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	33-110
$\frac{5}{8}$ "	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	33-112
$\frac{3}{4}$ "	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	33-113
(with Short Shank)			
* $\frac{3}{8}$ "	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	33-282
* $\frac{1}{2}$ "	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	33-283

*The above short shank router bits should be used with Adapter No. 33-277 on the "900" 9" and 10" Radial Saws.

RETRACTABLE LEAF GUARDS

Leaf Guard, retractable type, for Delta 9" Radial Saw. CAT. NO. 33-445

Leaf Guard, retractable type, for Delta 10" Radial Saw. CAT. NO. 33-448

Leaf Guard, retractable type, for 12" Saw Guard on Delta 10" Radial Saw. CAT. NO. 33-594

Leaf Guard, retractable type, for Delta 12" and 14" Radial Saws. CAT. NO. 33-449

Leaf Guard, retractable type, for Delta 16" Radial Saw only. CAT. NO. 33-450

Leaf Guard, retractable type, for 20" Saw Guard on Delta 16" Radial Saw. CAT. NO. 33-446

12" BLADE GUARD

Blade Guard for 10" Portable Radial Saw. Covers entire saw spindle for added safety. CAT. NO. 33-593

20" BLADE GUARD

Blade Guard for 16"-20" Radial Saw. Heavily constructed. Designed to cover the entire saw spindle for utmost safety.

CAT. NO. 33-543

INCREASE THE USEFULNESS OF YOUR RADIAL SAW

GEARED KEY CHUCK

Three-jaw chuck, 0 to 1/2" capacity, 5/8"-18 L.H. thread, with key. For use on new "900" 9" or 10" portable radial saws.

CAT. NO. 43-980

SHAPER CUTTER ADAPTERS

Spindle and Arbor Adapter for mounting 1/2" hole, 3-lip shaper cutters on "900" 9" or 10" portable radial saws. Screws directly onto 5/8"-18 L.H. thread motor shaft.

CAT. NO. 33-600

Spindle Adapter for mounting 1/2" hole, 3-lip shaper cutters. Use with No. 33-304 Adapter or No. 43-980 chuck.

CAT. NO. 43-990

For 73 different three-lip shaper cutters and collars available for use with Adapters No. 33-600 and No. 43-990, refer to Page 81.

SANDING DRUMS and SLEEVES

Drum, 3" dia. x 3", with one sleeve. Fits 1/2" dia. shaft. 2 lbs.

CAT. NO. 830

Drum, 3" dia. x 3", with one sleeve. For "900" 9" and 10" portable radial saws. Screws directly onto 5/8"-18 L.H. thread motor shaft. 2 lbs.

CAT. NO. 33-278

Sleeves, 1/2 doz., 3" x 3", No. 1 1/2 grit coarse garnet. 1/2 lb.

CAT. NO. 831

Sleeves, 1/2 doz., 3" x 3", No. 1/2-60 grit medium garnet. 1/2 lb.

CAT. NO. 832

Sleeves, 1/2 doz., 3" x 3", No. 1-50 grit al. oxide (for metal). 1/2 lb.

CAT. NO. 833

Drum, 1 3/4" dia. x 2", with one sleeve. Fits 1/2" dia. shaft. 1 3/4 lbs.

CAT. NO. 835

Drum, 1 3/4" dia. x 2", with one sleeve. For "900" 9" and 10" portable radial saws. Screws directly onto 5/8"-18 L.H. thread motor shaft. 2 lbs.

CAT. NO. 33-279

Sleeves, 1/2 doz., 1 3/4" x 2", No. 1 1/2-40 grit coarse garnet. 1/4 lb.

CAT. NO. 836

Sleeves, 1/2 doz., 1 3/4" x 2", No. 1/2-60 grit med. garnet. 1/4 lb.

CAT. NO. 837

Sleeves, 1/2 doz., 1 3/4" x 2", No. 1-50 grit al. oxide (for metal). 1/4 lb.

CAT. NO. 838

Drum, 11/16" dia. x 2 1/2", with one sleeve. With 1/2" shank to fit hollow spindle or chuck. 1/2 lb.

CAT. NO. 840

Sleeves, 1/2 doz., 11/16" x 2 1/2", No. 1 grit medium garnet. 1/2 lb.

CAT. NO. 841

Sleeves, 1/2 doz., 11/16" x 2 1/2", No. 1/0-80 grit fine garnet. 1/2 lb.

CAT. NO. 842

Sleeves, 1/2 doz., 11/16" x 2 1/2", No. 50 grit al. oxide (for metal). 1/2 lb.

CAT. NO. 847

Auxiliary Shaft, 1/2" x 2 1/2", with milled flat entire length. For use with No. 830 and No. 835 Sanding Drums when used with Adapters No. 33-601 and No. 33-304.

CAT. NO. 11-834

Drum, 1 1/2" dia. x 1", with one sleeve, 5/16" shank. 1/2 lb.

CAT. NO. 679

Sleeves, 1/2 doz., 1 1/2" x 1", No. 40 grit al. oxide. 1/4 lb.

CAT. NO. 682

Sleeves, 1/2 doz., 1 1/2" x 1", No. 80 grit al. oxide. 1/4 lb.

CAT. NO. 683

Drum, 2-3/16" x 1", with one sleeve, 5/16" shank. 1/2 lb.

CAT. NO. 680

Sleeves, 1/2 doz., 2-3/16" x 1", No. 40 grit al. oxide. 1/4 lb.

CAT. NO. 684

Sleeves, 1/2 doz., 2-3/16" x 1", No. 80 grit al. oxide. 1/4 lb.

CAT. NO. 685

Drum, 3" dia. x 1", with one sleeve, 5/16" shank. 3/4 lb.

CAT. NO. 681

Sleeves, 1/2 doz., 3" x 1", No. 40 grit al. oxide. 1/2 lb.

CAT. NO. 686

Sleeves, 1/2 doz., 3" x 1", No. 80 grit al. oxide. 1/2 lb.

CAT. NO. 687

ROUTER BIT and SANDER ADAPTERS

Adapter for mounting 1/2" short shank router bits on 5/8"-18 L.H. thread motor shaft. For "900" 9" and 10" radial saws.

CAT. NO. 33-277

Adapter for mounting 1/2" shank sanding drums, spindle adapters, standard shank router bits on 5/8"-18 L.H. thread motor shaft of 10" radial saw.

CAT. NO. 33-601

Adapter for mounting router bits, sanders or spindle adapters with 1/2" shank to be used on machines with 1" dia. arbor with 1"-14 L.H. thread motor shaft only.

CAT. NO. 33-304

SANDING DISK

Sanding Disk for Delta Radial Saws. Threaded to fit motor spindle. Furnished with one garnet disk.

Sanding Disk, 8 1/2" dia., 5/8"-18 L.H. thread for use on "900" 9" and 10" portable models.

CAT. NO. 33-603

Sanding Disk, 8 1/2" dia., for 1"-14 L.H. thread arbor. For use on 12"-14" and 16"-20" models.

CAT. NO. 46-836

Abrasive Paper, 8 1/2" dia., No. 40 grit coarse garnet. 1 doz. 2 lbs.

CAT. NO. 46-815

Abrasive Paper, 8 1/2" dia., No. 80 grit fine garnet. 1 doz. 2 lbs.

CAT. NO. 46-817

Disk Adhesive. For changing from one abrasive paper to another in only a few minutes.

CAT. NO. 49-503

For Grinding, Buffing and Wire Wheels, see Page 36.

POWER FEED ATTACHMENT

FIRST SAFETY POWER FEED BUILT FOR RADIAL SAWS

Safety Power Feed — with variable speed dial control. For 12"-14" and 16"-20" models. Feeds from 22 1/2 to 90 feet per minute — more than a mile of lumber each hour. Selective Dial Control enables the operator to automatically pre-set the actual rate of feed desired. Gives positive control over lumber being handled, whether soft or hard, wet or dry, rough or finished. Selective control also safeguards motor as blade becomes dull. A 1/4 HP, 1725 RPM, 115/230 volt, 60 cycle motor powers the unit. Motor is equipped with a "Rotavolt" Selector which enables the operator to change the voltage and rotation of the motor in a few seconds. With the special device, the operator can feed material from either right or left-hand side of machine.

CAT. NO. 33-541

EXTENSION ROLLER TABLES

Use these Delta 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.

One Roller Extension Table, 8 ft. long with eight 12-inch rollers and one adjustable support stand. For direct coupling to steel table on the Delta 12"-14" or 16"-20" Radial Saw. (Specify Machine Cat. No.)

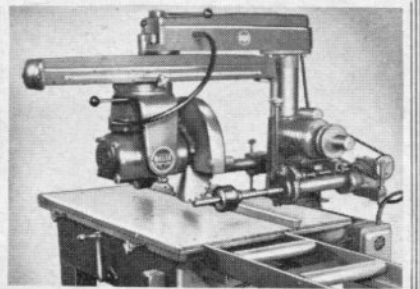
CAT. NO. 33-521

TAKE-ABOUT TRAILER

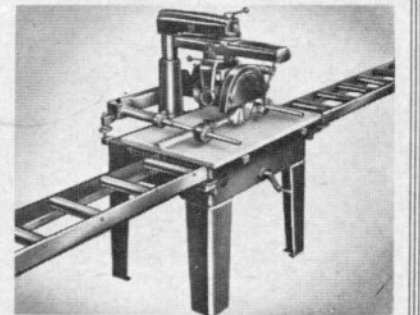
Hitch this mobile shop to your car or truck and take it right to the job for centralized cutting. It will quickly pay for itself in savings effected on material handling, set-up time and operating convenience.

Two-wheel trailer, complete with two 600 x 16 tires, ball and socket hitch, tail light and safety chain. (Specify Machine Cat. No.). Fenders extra.

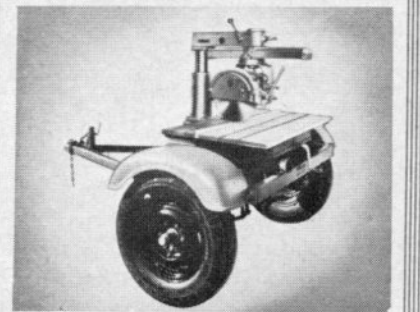
CAT. NO. 33-250



CAT. NO. 33-541
POWER FEED ATTACHMENT



CAT. NO. 33-521
EXTENSION ROLLER TABLES



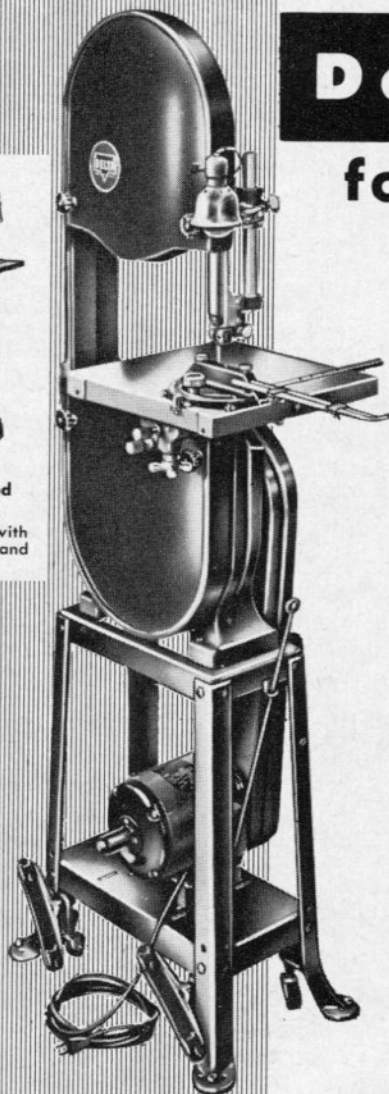
CAT. NO. 33-250
TAKE-ABOUT TRAILER

Delta 14" band saws

for fast, economical cutting of woods and metals



14" Wood Cutting Band Saw with Cast Iron Stand



These unmatched features make Delta 14" Band Saws the biggest band saw value on the market today!

- Double-sealed, lubricated-for-life ball bearings for upper and lower wheels and blade supports in both models and all shafts of back gear unit on metal-wood cutting model 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 $\frac{3}{8} \times \frac{3}{4}$ " miter gage groove. Machined for rip fence and

screw feed attachment. 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.
- Magnesium wheels are carefully balanced for true running. Also rimmed for proper mounting of tire.

WOOD CUTTING MODEL

The low-cost Delta 14" Wood Cutting Band Saw (illustrated at left) 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 (espe-

cially with height attachment) of a wide variety of materials.

This economical tool comes equipped with a standard blade for wood cutting. Can be used with skip tooth blades for cutting wood, plastic, building materials, bakelite, non-ferrous metals such as aluminum and copper, and other similar stock.

catalog listing

BASIC MACHINE WITHOUT STAND: 14" Wood Cutting Band Saw with wheel guards, No. 5600 arbor pulley, and No. 1034 wood cutting blade. Without stand, motor, switch, motor pulley or V-belt. 148 lbs. **CAT. NO. 28-290**

BASIC MACHINE WITH STEEL STAND: Same as No. 28-290 except with No. 50-891 steel stand, No. 883 belt guard, No. 49-173 V-belt and No. 5275 motor pulley (specify $\frac{1}{2}$, $\frac{5}{8}$, or $\frac{3}{4}$ " bore). Without motor or switch rod. 187 lbs. **CAT. NO. 28-297**

BASIC MACHINE WITH CAST IRON STAND: Same as No. 28-290 except with No. 886 cast iron stand, No. 883 belt guard, No. 49-173 V-belt and No. 5275 motor pulley (specify $\frac{1}{2}$, $\frac{5}{8}$, or $\frac{3}{4}$ " bore). Without motor or switch. 265 lbs. Requires No. 132 switch for single phase or DC motor. **CAT. NO. 28-295**

Note: Items bearing individual catalog numbers as included in No. 28-290, No. 28-297 and 28-295, can be ordered separately; see price list.

FOR 3 PHASE OPERATION

Motor, $\frac{1}{2}$ HP, 208-220/440 V, 50/60 cy, AC, 1425/1725 rpm. Without switch or power cord. 23 lbs. **CAT. NO. 66-120**

Motor, $\frac{1}{2}$ HP, 208-220/440V, 50/60 cy, AC, 1425/1725 rpm. Without switch or power cord. 31 lbs. **CAT. NO. 66-340**

Starter, Manual. Provides overload protection. Specify motor number and voltage when ordering. 6 lbs. **CAT. NO. 1320**

Starter, Magnetic. For 60 cy, 208-220 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-393**

Starter, Magnetic. For 60 cy, 440 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-394**

Mounting Bracket with screws for mounting starters on steel stand. 3 lbs. **CAT. NO. 49-318**

For complete listing of band saw accessories, see Page 74.

specifications

Capacity: Blade to frame.....	13 $\frac{3}{4}$ "
Under guide	6 $\frac{1}{4}$ "
Under guide (with 894 height attach.).....	12 $\frac{1}{4}$ "
Speed: With 1725 RPM motor.....	3000 FPM
Overall height (on stand).....	65 $\frac{1}{2}$ "
width.....	25"
front to back.....	17 $\frac{1}{2}$ "
Table size.....	14 x 14"
Table height from floor.....	42 $\frac{3}{4}$ "
Table tilt to right.....	45°, to left.....
10°	
Blade width, maximum.....	3 $\frac{1}{4}$ "
Blade length: max.....	94"
min.....	91 $\frac{1}{2}$ "
std.....	93 $\frac{1}{2}$ "
Blade length (with 894 height attachment): max.....	106"
min.....	103 $\frac{1}{2}$ "
std.....	105"
Miter gage groove.....	$\frac{3}{8}$ " deep by $\frac{3}{4}$ " wide

Light weight magnesium 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.

MOTORS AND MOTOR CONTROLS FOR SINGLE PHASE OPERATION

Motor, $\frac{1}{2}$ HP, capacitor start, 115/230 V, 60 cy, AC, 1725 rpm. Includes on-and-off switch with 115 V 8-foot cord, 3-prong grounding type plug and adapter. 28 lbs. **CAT. NO. 62-110**

Motor, $\frac{1}{2}$ HP, capacitor, 115/230V, 60 cy, AC, 1725 rpm. Includes on-and-off switch with 115V 8-foot grounding cord, 3-prong plug and adapter. 39 lbs. **CAT. NO. 62-680**

Switch Rod with mounting parts for No. 28-297 unit with steel stand. Fits toggle switch of single phase and DC motors. 1 lb. **CAT. NO. 1334**

On-and-off Toggle Switch. With lock feature, in special case without cover. Includes 3-wire 3-foot power cord. For No. 28-295 unit with cast iron stand. 1 $\frac{1}{2}$ lbs. **CAT. NO. 132**

CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

FOR SINGLE PHASE OPERATION

14" Wood Cutting Band Saw complete. Includes 28-297 band saw with steel stand, 62-680 motor and 1334 switch rod. 227 lbs. **CAT. NO. 28-221**

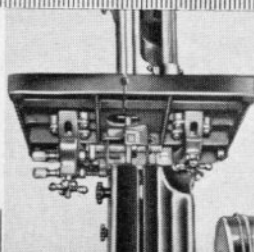
14" Wood Cutting Band Saw complete. Includes 28-295 band saw with cast iron stand, 62-680 motor and 132 switch. 306 lbs. **CAT. NO. 28-211**

FOR 3 PHASE OPERATION

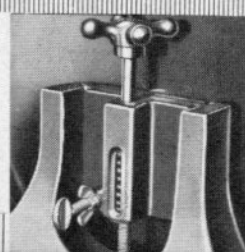
14" Wood Cutting Band Saw complete. Includes 28-297 band saw with steel stand, 66-340 motor, 1320 starter (specify voltage) and 49-318 mounting bracket. 227 lbs. **CAT. NO. 28-223**

14" Wood Cutting Band Saw complete. Includes 28-295 band saw with cast iron stand, 66-340 motor and 1320 starter (specify voltage). 302 lbs. **CAT. NO. 28-213**

Exclusive 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.



Direct reading scale on blade tension adjustment shows correct tension for different blade widths. Scale readings not affected by variable blade lengths.



NOW the DELTA 14" Metal-Wood Cutting Band Saw gives you eight cutting speeds—40 to 3000 fpm— using a standard motor!

METAL-WOOD CUTTING MODEL

Offers the lowest band saw speed in the industry—40 fpm using a standard motor. The complete standard motor speed range gives you a choice of 8 speeds—40, 60, 85, 115, 160, 220 or 335 fpm for metal cutting and a high speed of 3000 fpm for wood cutting. Enables you to cut stainless steel, armor plate, high speed steel, alloy steel, cast iron, transite, etc., and such other materials as woods and plastics.

The Delta 14" Metal-Wood Cutting Band Saw incorporates a completely new and modern drive. A special feature of this new drive is the unique, multiple dog clutch that permits instant

changes from direct to gear drive (or vice versa) by a simple shift of a knob. V-belts are not disturbed.

In direct drive, the bull gear "free wheels" on a large, double-row ball bearing without any wear or power loss through the gear train. In gear drive, powerful torque is transmitted to the lower wheel by a 55 to 1 reduction ratio.

Six ball bearings on the gear shafts; a double-row ball bearing in the bull gear; a massive, heat treated, alloy steel lower wheel shaft, plus an oil bath that lubricates all gears, assure smooth, efficient power transmission even under heavy operating loads.

A Versatile Saw for All Shops

You can use this low-cost unit to handle both the 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.

catalog listing

BASIC MACHINE WITHOUT STAND: 14" Metal-Wood Cutting Band Saw with wheel guards, 7" dia. arbor pulley for wood cutting, No. 720 4-step arbor pulley, $\frac{3}{8}$ " bore, for metal cutting and No. 1062 metal cutting blade. Without stand, motor, switch, motor pulley or V-belts. 174 lbs. **CAT. NO. 28-380**

BASIC MACHINE WITH STEEL STAND: Same as No. 28-380 except with No. 50-891 steel stand, No. 883 belt guard, No. 49-111 (set of two) matched V-belts and No. 718 4-step motor pulley (* specify $\frac{1}{2}$, $\frac{3}{8}$ or $\frac{3}{4}$ " bore). Without motor or switch rod. 214 lbs. **CAT. NO. 28-387**

BASIC MACHINE WITH CAST IRON STAND: Same as No. 28-380 except with No. 886 cast iron stand, No. 883 belt guard, No. 49-111 (set of two) matched V-belts and No. 718 4-step motor pulley (* specify $\frac{1}{2}$, $\frac{3}{8}$ or $\frac{3}{4}$ " bore). Without motor or switch. 292 lbs. Requires No. 132 switch for single phase or DC motor. **CAT. NO. 28-385**

*To obtain all eight available blade speeds, $\frac{3}{4}$ " bore must be specified for motor pulley No. 718. A $\frac{1}{2}$ " or $\frac{3}{8}$ " bore motor pulley No. 718 cannot be interchanged with $\frac{3}{4}$ " bore arbor pulley No. 720 as required to obtain blade speeds of 160, 220 or 335 fpm.

Note: Items bearing individual catalog numbers, as included in No. 28-380, No. 28-387 and No. 28-385, can be ordered separately; see price list.

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

Motor, $\frac{1}{2}$ HP, capacitor start, 115/230 V, 60 cy, AC, 1725 rpm. Includes on-and-off switch with 115 V 8-foot cord, 3-prong grounding type plug and adapter. 52 lbs. **CAT. NO. 82-710**

Switch Rod with mounting parts for No. 28-387 unit with steel stand. Fits toggle switch of single phase and DC motors. 1 lb. **CAT. NO. 1334**

On-and-off Toggle Switch. With lock feature, in special case without cover. Includes 3-wire, 3-foot power cord. For No. 28-385 unit with cast iron stand. 1 $\frac{1}{2}$ lbs. **CAT. NO. 132**

FOR 3 PHASE OPERATION

Motor, $\frac{1}{2}$ HP, 208-220/440 V, 50/60 cy, AC, 1425/1725 rpm. Without switch or power cord. 44 lbs. **CAT. NO. 86-520**

Starter, Manual. Provides overload protection. Specify motor number and voltage when ordering. 6 lbs. **CAT. NO. 1320**

Starter, Magnetic. For 60 cy, 208-220 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-393**

Starter, Magnetic. For 60 cy, 440 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number when ordering. 6 lbs. **CAT. NO. 43-394**

Mounting Bracket with screws for mounting starters on steel stand. 3 lbs. **CAT. NO. 49-318**

For complete listing of band saw accessories, see Page 74.

CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

FOR SINGLE PHASE OPERATION

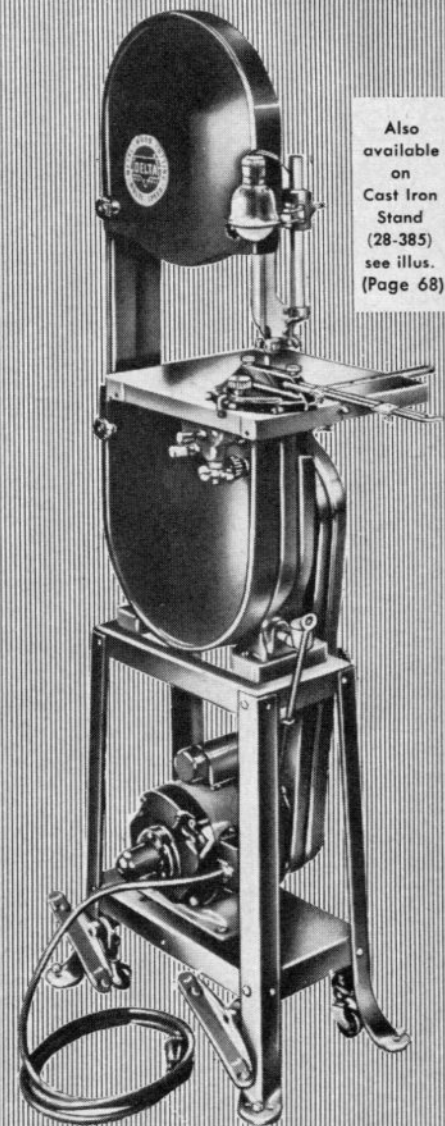
14" Metal-Wood Cutting Band Saw complete. Includes 28-387 band saw with steel stand, 82-710 motor and 1334 switch rod. 267 lbs. **CAT. NO. 28-311**

14" Metal-Wood Cutting Band Saw complete. Includes 28-385 band saw with cast iron stand, 82-710 motor and 132 switch. 346 lbs. **CAT. NO. 28-321**

FOR 3 PHASE OPERATION

14" Metal-Wood Cutting Band Saw complete. Includes 28-387 band saw with steel stand, 86-520 motor, 1320 starter (specify voltage) and 49-318 mounting bracket. 267 lbs. **CAT. NO. 28-313**

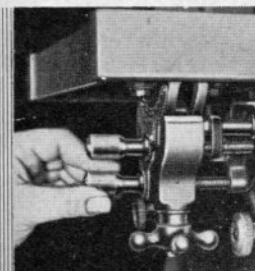
14" Metal-Wood Cutting Band Saw complete. Includes 28-385 band saw with cast iron stand, 86-520 motor and 1320 starter (specify voltage). 342 lbs. **CAT. NO. 28-323**



Also available on Cast Iron Stand (28-385) see illus. (Page 68)

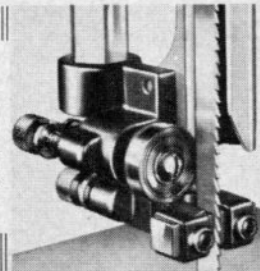
specifications

Capacity: Blade to frame	13 $\frac{3}{4}$ "
Under guide	.6 $\frac{1}{4}$ "
Under guide (with 894 height attach.)	12 $\frac{1}{4}$ "
Speeds: With 1725 RPM motor	40, 60, 85, 115, 160, 220, 335, 3000 FPM
Overall height (on stand)	65 $\frac{1}{2}$ "
width, front to back	17 $\frac{1}{2}$ "
Table size	14 x 14"
Table height from floor	42 $\frac{3}{4}$ "
Table tilt to right	45°
to left	10°
Blade width, maximum	3 $\frac{1}{4}$ "
Blade length: max.	94"
min.	91 $\frac{1}{2}$ "
std.	93 $\frac{1}{2}$ "
Blade length (with 894 height attach.): max.	106"
min.	103 $\frac{1}{2}$ "
std.	105"
Miter gage groove	.3 $\frac{1}{8}$ " deep by 3 $\frac{1}{4}$ " wide

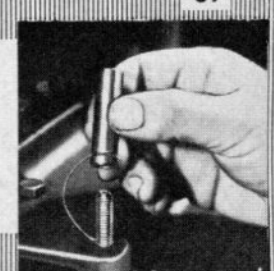


Lower blade guides have safe, accurate, remote control micrometer adjustment. Lower guides support blade within $\frac{3}{4}$ " of table work surface—assure accurate cutting.

Upper guide has separate, safe, remote control micrometer adjustments for ball bearing blade support and blade guide blocks. Guides and blade supports adjust independently.



Adjustable sleeve provides positive stop for table at level position. Can be removed for a 10° left tilt. Table tilts full 45° to right.



DELTA 20"

wood cutting band saw



RUGGED!
VERSATILE!
SAFE!

The Delta 20" Ball Bearing Band Saw is a BIG MACHINE with BIG CUTTING CAPACITY. It's rugged enough for the heaviest production work and its flexibility makes it ideal for cabinet shops, pattern shops, school shops . . . wherever big capacity cutting of wood, plastics or non-ferrous metals is required.

Ball bearing blade guides assure utmost accuracy and reduce blade breakage . . . micrometer adjustment screws provide for fine guide adjustment. Big table tilts 45° right and 12° left and can be quickly locked at any angle. Lower wheel has a convenient foot brake . . . dust chute carries away sawdust and chips.

This heavy-duty band saw gives complete safety. A single, welded steel cabinet encloses all working parts . . . upper and lower wheels, motor, etc., are easily accessible through convenient doors.

You have your choice of two different drives:

1. V-Belt Drive.
2. Direct Drive with motor installed.

catalog listing

specifications

Blade to inside of column	19 ³ / ₄ "
Maximum Height under top Guide	13 ³ / ₈ "
Maximum Height under top wheel Frame	12 ¹ / ₂ "
Saw Blade Speed with 3 ¹ / ₂ " O.D. Motor Pulley	
With 1725 r.p.m. Motors	4500 f.p.m.
With 1425 r.p.m. Motors	3800 f.p.m.
Table size overall	20-3/16" x 24 ¹ / ₄ "
Table Height from floor	42 ³ / ₈ "
Table Tilt to Right	45 degrees
Table Tilt to Left	12 degrees
Distance table trunnions	17" apart
Distance from front of table to center of saw	10 ¹ / ₂ "
Distance from center of saw to rear edge of table	13 ¹ / ₂ "
Miter Gage groove in table	3/8" x 3/4"
Rubber Faced Wheel Diameters	20 ¹ / ₄ " x 1 ³ / ₈ "
Maximum Width of Blade	1"
Blade Length	
Standard	141"
Maximum	142 ¹ / ₂ "
Minimum	139"
Dust Chute connection diameter	2 ¹ / ₄ " O.D.
Overall Height	78 ¹ / ₂ "
Overall Width, including table	29 ¹ / ₂ "
Overall Distance	
from front of table to back of frame	39 ¹ / ₂ "
Motor Plate will accommodate Delta 8 ¹ / ₂ " frame and NEMA 182 and 184 frame motors.	
Total approximate weight without motor	621 lbs.

BASIC MACHINE: 20" Wood Cutting Band with Saw welded steel frame, sealed-for-life ball bearings, foot brake, dust chute, fully adjustable upper and lower blade guides, saw tension indicator, tilt table, pivoted motor bracket, 7" OD machine pulley and one No. 28-877 3/8" wide saw blade. Without miter gage, rip fence attachment, motor and switch, motor pulley and V-belts. 618 lbs.
CAT. NO. 28-350

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

Motor, 1 HP, 115/230 V, capacitor, AC, 60 cy, 1725 rpm, with remote on-and-off switch control (No. 132) wired to motor and 8-foot grounding cord with 3-prong tandem blade plug wired to switch. Motor wired for 230 V. 75 lbs.
CAT. NO. 83-560

FOR 3 PHASE OPERATION

Motor, 1 HP, 208-220/440 V, AC, 50/60 cy, 1425/1725 rpm. Without switch or power cord. 56 lbs.
CAT. NO. 86-920

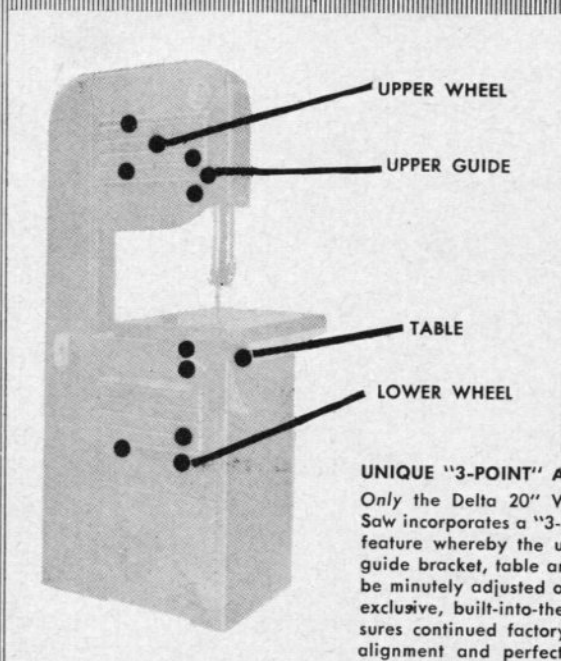
Motor, 1¹/₂ HP, 208-220/440 V, AC, 50/60 cy, 1425/1725 rpm. 52 lbs.
CAT. NO. 87-120

Starter, Manual. Provides overload protection. Specify motor number and voltage when ordering. 6 lbs.
CAT. NO. 1320

Starter, Magnetic. For 60 cy, 208-220 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number when ordering. 6 lbs.
CAT. NO. 49-393

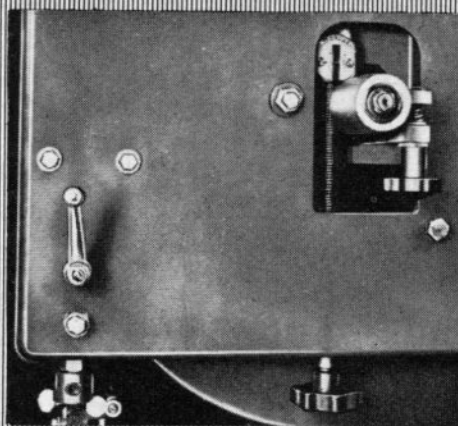
Starter, Magnetic. For 60 cy, 440 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number when ordering. 6 lbs.
CAT. NO. 49-394

These 20" Band Saw Features Guarantee Accurate, Low-Cost Operation



UNIQUE "3-POINT" ADJUSTABILITY

Only the Delta 20" Wood Cutting Band Saw incorporates 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.



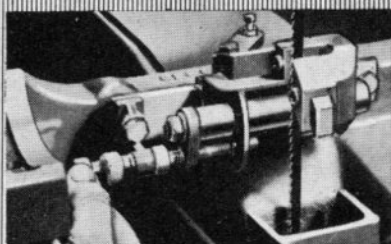
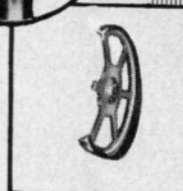
CONVENIENT BLADE ADJUSTMENTS

Handy blade tension and tracking adjustments on frame of upper wheel offer accurate adjustment of both wheel and blade. Tension scale enables operator to select the exact tension to suit the job.



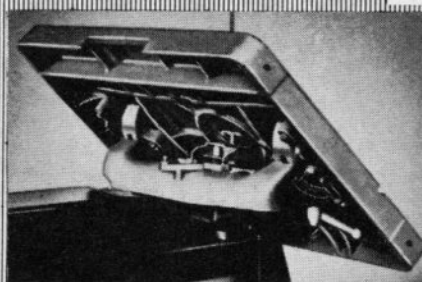
QUICK-CHANGE TIRES

One of the "secrets" of the extra smooth performance of the 20" Wood Cutting Band Saw is its tires. Specially constructed "Snap-Lock" Tires do not have to be cemented to the wheels, never need to be ground or balanced. They will not stretch or come loose and can be quickly replaced by the operator.



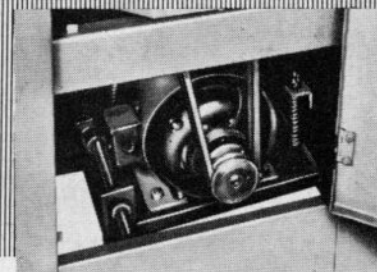
SUPERIOR BLADE GUIDES

Handy blade guides and blade supports are individually adjustable. Micrometer adjustment screws facilitate settings to the finest degree. Upper guide supports saw blade down to the top surface of the work. Lower guide supports blade, to within 1" from the table surface. Adjustable stop permits return of the table to exact level position following angle cuts.



RUGGED TABLE CONSTRUCTION

Table is a big 20 $\frac{3}{16}$ " x 24 $\frac{1}{4}$ " 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.



FLEXIBLE MOTOR MOUNT

Motor is mounted in the base on a pivot bracket which automatically provides correct belt tension. Large door permits easy access to the motor for repair or replacement.

catalog listing (cont'd.)

Cable Kit. 3-wire armored type, 3-foot long with necessary clamp fittings for connection from "Motor to Switch" of 3 phase motors. (Also can be used for single phase and DC power and ground connectors.) 1 lb.

CAT. NO. 49-315

ACCESSORIES

Lower Wheel, complete with Quick-Change "Snap-Lock" Tire. 16 lbs.

CAT. NO. 28-353

Upper Wheel, complete with Quick-Change "Snap-Lock" Tire. 16 lbs.

CAT. NO. 28-354

Quick-Change "Snap-Lock" Tire for upper and lower wheels. 2 lbs.

CAT. NO. 28-355

Motor Pulley, two groove, 3 $\frac{1}{2}$ " OD, $\frac{3}{4}$ " bore, for Delta 8 $\frac{1}{2}$ " frame motors. 2 lbs.

CAT. NO. 41-504

Motor Pulley, two groove, 3 $\frac{1}{2}$ " OD, $\frac{7}{8}$ " bore, for NEMA 182 and 184 frame motors. 2 lbs.

CAT. NO. 41-505

Set of two match V-belts, 59 $\frac{1}{2}$ " OC. 1 lb.

CAT. NO. 49-140

For additional accessories, see Page 74.

CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

FOR SINGLE PHASE OPERATION (BELT DRIVE)

20" Wood Cutting Band Saw complete. Includes 28-350 band saw and 83-560 1 HP motor with remote on-and-off switch control (No. 132) for 230 V. 60 cy. 693 lbs.

CAT. NO. 28-361

FOR 3 PHASE OPERATION (BELT DRIVE)

20" Wood Cutting Band Saw complete. Includes 28-350 band saw, 86-920 1 HP motor and 1320 manual starter (specify voltage). 680 lbs.

CAT. NO. 28-363

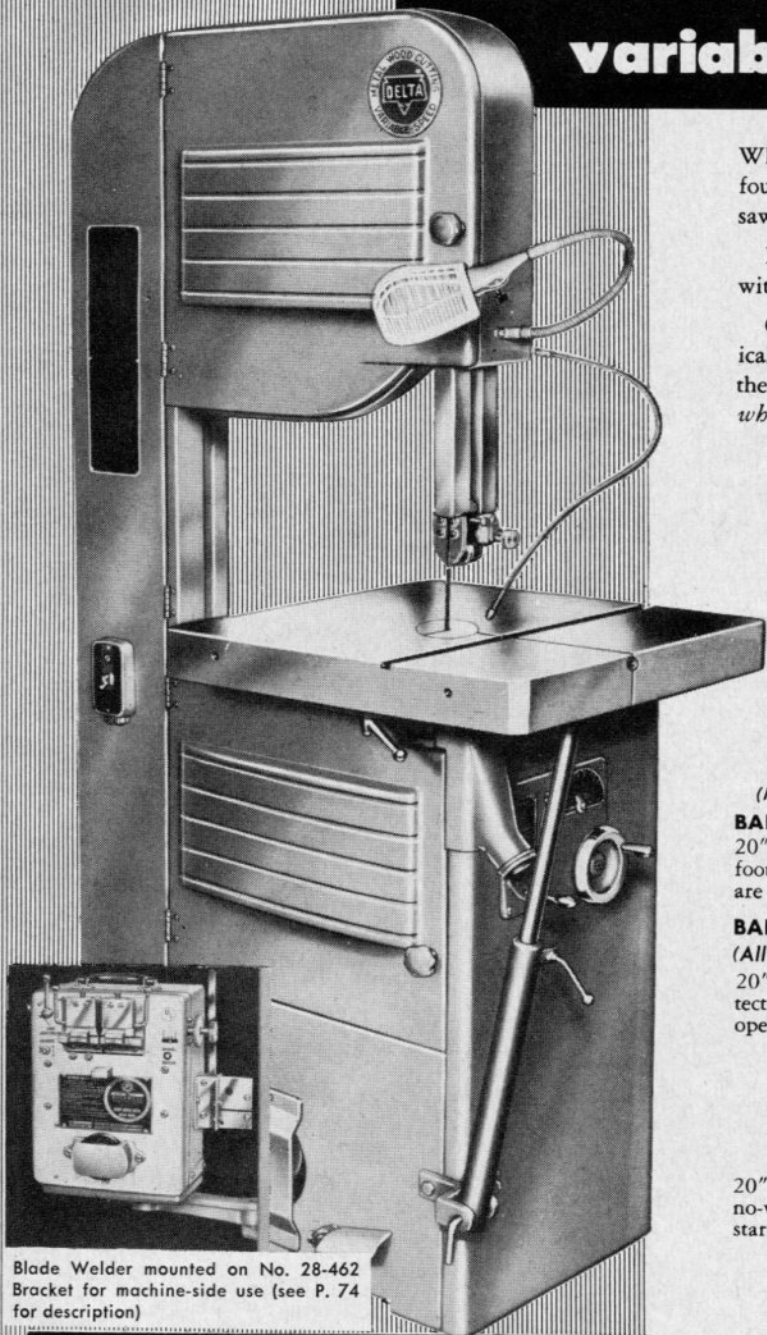
FOR SINGLE PHASE OPERATION (DIRECT DRIVE)

20" Wood Cutting Band Saw complete. Includes 20" Band saw with welded steel frame, sealed-for-life ball bearings, foot brake, dust chute, upper and lower blade guides, saw tension indicator, tilt table and one No. 28-877 $\frac{3}{8}$ " wide saw blade. Lower wheel directly connected to a 1 HP, single phase, 115/230 volt, 50 or 60 cycle, 720/900 rpm motor, installed and wired, with No. 1320 overload push button starter (specify voltage). 708 lbs.

CAT. NO. 28-352

Note: 20" Wood Cutting Band Saws, with motors and controls for power systems not listed, are available upon request.

new DELTA 20" metal-wood variable speed band saw



Blade Welder mounted on No. 28-462
Bracket for machine-side use (see P. 74
for description)

specifications

CAPACITY	
Blade to column.....	19 ³ / ₄ "
Maximum height under top guide.....	12"
Height under upper wheel guard.....	12 ¹ / ₈ "
TABLE	
Size.....	3 x 24 ¹ / ₄ x 24 ¹ / ₄ "
Front to center of blade.....	10 ¹ / ₂ "
Size of groove for sliding jig.....	3/8 x 3/4"
Center of groove to blade.....	4 ¹ / ₈ "
Tilts.....	12° left and 45° right
Height from floor.....	42 ³ / ₈ "
SPEEDS (with 1725 rpm motor)	
Infinite choice of speeds in gear drive.....	50 to 380 fpm
Infinite choice of speeds in direct drive.....	600 to 4500 fpm
BLADES	
Length.....	Standard 141", Maximum 142 ¹ / ₂ ", Minimum 139"
Maximum width.....	1"
FLOOR SPACE REQUIRED.....	
20 x 32"	
OVERALL DIMENSIONS	
Front to rear.....	29 ¹ / ₂ "; Left to right....41 ¹ / ₂ "; High....78 ¹ / ₂ "
CHIP CHUTE CONNECTION DIAMETER.....	
2 ¹ / ₄ "	
NET WEIGHT WITH MOTOR AND SWITCH.....	
710 lbs. (approx.)	
Motor Plate will accommodate Delta 8 ¹ / ₂ " frame and NEMA 182 and 184 frame motors.	
SHIPPING WEIGHT WITH MOTOR AND SWITCH.....	
790 lbs. (approx.)	

Whatever your cutting requirements — in the machine shop, tool room, foundry, pattern or school shop — this all-new, heavy duty Delta band saw will give you real on-the-job performance.

It combines the finest band saw features available (many exclusive with Delta) that guarantee greater accuracy and better cutting.

Check its tremendous speed range of 50 to 4500 FPM . . . scientifically designed blade guides . . . rugged frame construction . . . plus the many other Delta *quality* features. Then, check its price. *You'll see why it's the outstanding band saw value on the market!*

STANDARD EQUIPMENT

*Motor and motor control	Receptacle box for lamp and blade welder
Variable speed drive complete with belts	Mechanical wheel brake
Motor pulley	Chip chute
*Chip blower with air line and nozzle	Chip removal brushes (2)
Adjustable table support rod	Blade and speed selection chart
Counterbalance for upper guide	Blade (1/2", 18 teeth, metal cutting)

*Not included with Basic Machine, Cat. No. 28-365.

catalog listing

(Motor is mounted and wired to switch on all models except No. 28-365)

BAND SAW FOR SINGLE PHASE OPERATION

20" Band Saw with 1 HP motor, on-and-off toggle switch (No. 132), 8-foot grounding cord with 3-prong tandem blade plug. Motor and switch are mounted and wired, ready to plug in on 230V, 60 cy.

CAT. NO. 28-366

BAND SAWS FOR 3 PHASE OPERATION

(All 3-phase models have complete overload protection.)

20" Band Saw with 1 HP motor and manual starter with overload protection. Motor and starter are mounted with starter wired to motor for operation on 208-220V, 60 cy.

CAT. NO. 28-367

20" Band Saw, same as No. 28-367 except wired for 440V, 60 cy operation.

CAT. NO. 28-368

20" Band Saw, same as No. 28-367 except with 1¹/₂ HP motor.

CAT. NO. 28-373

20" Band Saw, same as No. 28-368 except with 1¹/₂ HP motor.

CAT. NO. 28-374

20" Band Saw with 1 HP motor and magnetic starter with low-voltage, no-voltage and overload protection. Motor and starter are mounted with starter wired to motor for operation on 208-220V, 60 cy.

CAT. NO. 28-370

20" Band Saw, same as No. 28-370 except wired for 440V, 60 cy operation.

CAT. NO. 28-371

20" Band Saw, same as No. 28-370 except with 1¹/₂ HP motor.

CAT. NO. 28-376

20" Band Saw, same as No. 28-371 except with 1¹/₂ HP motor.

CAT. NO. 28-377

BAND SAW FOR DC AND OTHER CURRENTS

Same as above but without chip blower, motor and switch. Use this catalog number only when other than standard single or 3-phase motor is required.

Important: Be sure to order No. 28-870 chip blower, motor and switch separately. Specify "motor and switch to be mounted to band saw, switch wired to motor and chip blower mounted, ready to operate." Specify voltage for 3-phase motors.

CAT. NO. 28-365

For complete description of Motors No. 83-560, 86-920 and 87-120; Switches 132, 1320, 49-393 and 49-394; and Wiring Kit 49-315, see Pages 92 and 95.

ACCESSORIES

Quick-Change "Snap-Lock" Tire for upper and lower wheels.

CAT. NO. 28-355

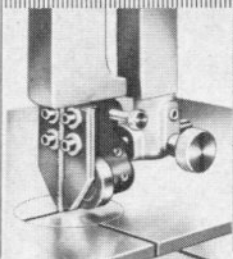
Chip Blower with Air Line and Nozzle.

Important: Delta double shaft 8¹/₂" frame motors are machined for mounting this chip blower. Will not fit other makes of motors. Accessory supplied when mounted on a new Delta motor installed on a new 20" Metal-Wood Band Saw at the factory, only.

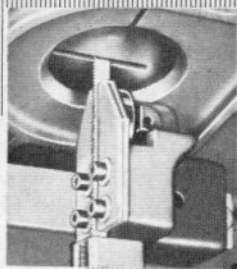
CAT. NO. 28-870

For additional accessories, see Page 74.

Gives You An Exclusive Combination of Modern Band Saw Features...



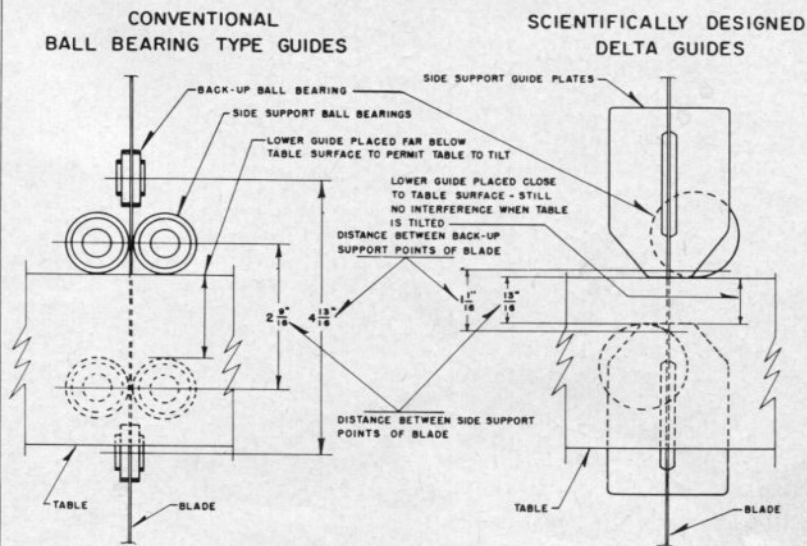
UPPER GUIDE



LOWER GUIDE

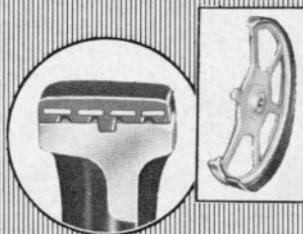
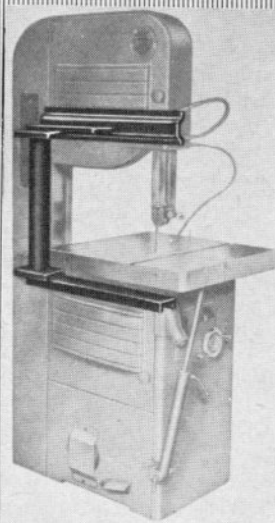
SCIENTIFICALLY DESIGNED DELTA GUIDES

Upper guide supports the blade right down to the top surface of the work piece. Lower guide supports the blade to within only $1\frac{3}{16}$ " from the table surface. Two large ball bearings provide extra rigid back-up blade support. You pay *nothing* extra for this superior blade guide construction—the key to quality cuts and longer blade life on any band saw!



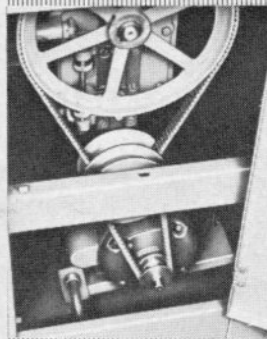
RUGGED FRAME CONSTRUCTION

Upper wheel, upper guide bracket, table, and lower wheel are carefully adjusted to each other for perfect machine alignment. Only Delta's unique "3-point" adjustability feature—built right into the frame—assures you *continued* factory-adjusted machine alignment. Backbone of the massive, welded interior frame is a large diameter steel column.



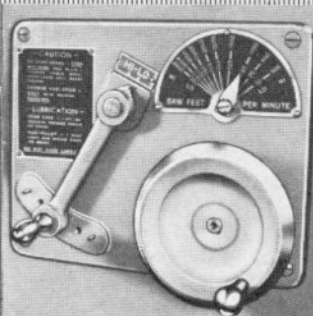
QUICK CHANGE TIRES

Specially constructed "Snap-lock" tires do not have to be cemented to the wheels, never need to be ground or balanced. They will *not* stretch or come loose, can be quickly replaced by the operator.



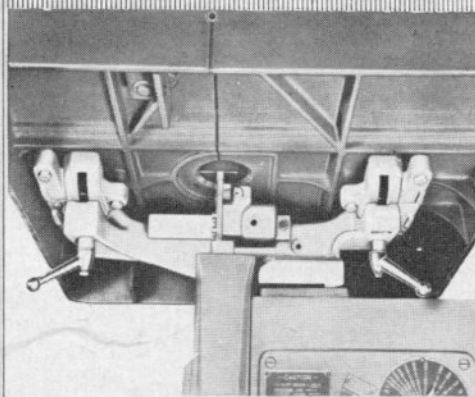
WIDE RANGE VARIABLE SPEED DRIVE

Offers a tremendous speed range—50 to 4500 FPM—that makes it unmatched in versatility and ideal for cutting anything that can be sawed—stainless steel, cast iron, non-ferrous metals, wood and plastics. Safe, convenient hand wheel lets you dial the exact speed you need for the highest quality cuts—quickly and without disturbing the belts.



CONVENIENT SPEED CONTROLS

Hand wheel, "Hi-Lo" drive selector, and easy-to-read speed scale are conveniently located for quick selection of a wide choice of speeds from 50 to 380 FPM in gear drive and 600 to 4500 FPM in direct drive.



MASSIVE TABLE WITH EXTRA SUPPORT

Scientifically ribbed, more than two-foot square table rests on two trunnions, spaced 17" apart. Only Delta with an exclusive side take-out slot for the blade, gives you a trunnion support *in front of the blade*, where the 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.

Extra Support for Table (see machine illustration) provides extra rigidity to the table for accurate work on jobs such as heavy dies. Support rod is fully adjustable.

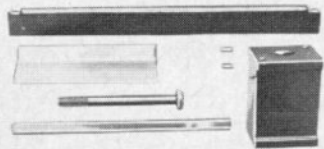
ADDITIONAL DELTA QUALITY FEATURES

- Chip Blower is included as standard equipment (no extra cost). It 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.
- Powerful drive arrangement—a massive, short, $1\frac{3}{8}$ " diameter lower wheel drive shaft combined with a precision balanced drive wheel

with sealed, lubricated-for-life ball bearings—assures smooth, positive power transmission when cutting materials of all types.

- Built-in blade and tire cleaning brushes provide continuous cleaning action that greatly lengthens blade life.
- Handy blade and speed chart aids the machine operator in selecting the correct blade and speed for cutting 58 different materials. Chart also gives the minimum cutting radius for different blade widths.

You Can Do More Jobs On Your Band Saw With These DELTA Accessories

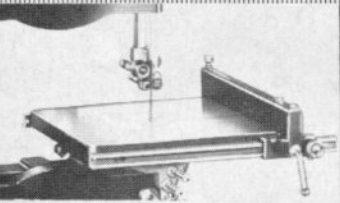


CAT. NO. 894

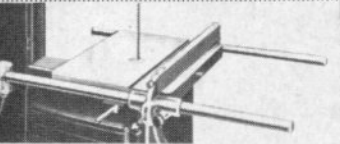


CAT. NO. 28-836

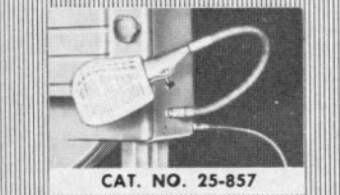
CAT. NO. 28-810



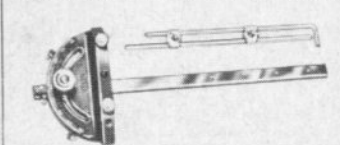
CAT. NO. 28-843



CAT. NO. 28-862



CAT. NO. 25-857



CAT. NO. 864 and CAT. NO. 49-302



CAT. NO. 28-460

ACCESSORIES FOR 14" BAND SAWS

LAMP ATTACHMENT . . . With cord and plug for 115V connection. Uses standard 15 or 25-watt bulb (not included). 1½ lbs. **CAT. NO. 882**

HEIGHT ATTACHMENT . . . Increases capacity of 14" Wood Cutting Band Saw from 6¼" to 12¼" under the guide. Add at any time. Needs 105" blades. Height Attachment with cast block, dowels and bolt, extension front blade guard, wood back blade guard. 14 lbs. **CAT. NO. 894**

SANDING ATTACHMENT . . . Includes flat and curved platens with guides and mounting brackets. 1 lb. **CAT. NO. 28-810**

SANDING BELTS
Garnet type, five No. 80 grit, fine, ½" wide, 91" long. 1 lb. **CAT. NO. 28-836**

Garnet type, five, No. 40 grit, medium, ½" wide, 91" long. 1 lb. **CAT. NO. 28-837**

RIP FENCES
With 18" guide bars and mounting screws. 8 lbs. **CAT. NO. 28-843**

With 32" guide bars and mounting screws. 14 lbs. **CAT. NO. 28-845**

RETRACTABLE CASTER SET . . . For No. 50-891 steel stand. 13 lbs. **CAT. NO. 49-363**

ACCESSORY FOR 20" BAND SAWS

FENCE ATTACHMENT . . . Includes 2½ x 27" Micro-Set[®] fence with front and rear locks, two 44" tubular guide rails and mounting screws. Fence may be set anywhere from 15½" to left of blade to 25" to right with pointer and calibrations reading from zero to 25" to right. Recommended for ripping and re-sawing lumber. 29 lbs. **CAT. NO. 28-862**

ACCESSORIES FOR 20" METAL-WOOD BAND SAW

LAMP ATTACHMENT . . . With 15" flexible gooseneck. Includes nylon shield, mounting bracket, switch and 8-foot cord with 2-prong plug. Uses standard bulb (not included) up to 100 watts. 2 lbs. **CAT. NO. 25-857**

MOTOR PULLEYS . . . For variable speed drive, 2⅜" diameter, with set screw. ¾" bore. **CAT. NO. 41-924**

⅞" bore. **CAT. NO. 41-925**

BELTS . . . Variable speed drive type. 31⅞" O.C. **CAT. NO. 49-163**

52½" O.C. **CAT. NO. 49-164**

ACCESSORIES FOR 14" & 20" BAND SAWS

SLIDING JIG . . . For straight and angle cut-off work. Has ⅜ x ¾ 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. **CAT. NO. 864**

STOP RODS . . . For No. 864 Sliding Jig, 5/16" diameter, with two clamps and two screws. ½ lb. **CAT. NO. 49-302**

CLAMP ATTACHMENT FOR SLIDING JIG . . . with clamp bar, two sliding clamp screws, and front and rear posts. 2¼ lbs. **CAT. NO. 865**

CLAMP SCREW AND BLOCK . . . For Clamp Attachment. 1 lb. **CAT. NO. 873**

BUTT WELDER FOR BAND SAW BLADES . . . For welding your own blades from economical coiled stock, repairing broken blades or re-welding band saw blades in connection with special internal cutting operations. Handles wood, metal and skip tooth blades, ¼" to ¾" wide. Incorporates a blade shear that assures square edges and uniform welds, built-in grinder and gauge for checking blade thickness at weld, push-button control for uniform annealing of blades and convenient carrying handle. Approved by Underwriters' Laboratories.

115 V, 50/60 Cycle Single Phase Butt Welder. Includes blade shear, grinder with guard, thickness gage, carrying handle, brackets for bench mounting and 8-foot grounding cord with 3-prong parallel-blade plug. 59 lbs. **CAT. NO. 28-460**

230 V, 50/60 Cycle Single Phase Butt Welder. Same as No. 28-460, except has 3-prong tandem-blade plug, and receptacle is included. 59 lbs. **CAT. NO. 28-461**

BRACKET . . . For mounting No. 28-460 or No. 28-461 Blade Welder to frame of 20" Metal-Wood Band Saw only. **CAT. NO. 28-462**

WOOD CUTTING BAND SAW BLADES

FOR 14" BAND SAWS: 93½" blades are standard; 105" blades used with No. 894 Height Attachment.

Width	Min. Cut. Rad.	Teeth Per In.	Cat. No. (93½" Long)	Cat. No. (105" Long)
1/8"	1/4"	6	1032	1045
3/16"	1/2"	6	1033	1046
1/4"	3/4"	6	1034	1047
3/8"	1"	5	1036	1048
1/2"	1¼"	5	1038	1050
3/4"	1¾"	4	1040	1052

FOR 20" BAND SAWS: All blades are 141" long.

Width	Min. Cut. Rad.	Teeth Per In.	Cat. No.
3/16"	1/2"	5	28-875
1/4"	3/4"	5	28-876
3/8"	1"	5	28-877
1/2"	1½"	4	28-878
3/4"	2"	4	28-879
1"	4"	4	28-880
3/4"	For Resawing	3	28-881
1"	For Resawing	2	28-882

(The above blades can be file sharpened)

SKIP TOOTH BAND SAW BLADES

For cutting aluminum, magnesium, plastics and all kinds of wood.

FOR 14" BAND SAWS: All blades are 93½" long.

Width	Min. Cut. Rad.	Teeth Per In.	Cat. No.
1/4"	3/4"	6	28-884
3/8"	1"	4	28-885
1/2"	1¼"	4	28-886
3/4"	1¾"	4	28-887

FOR 20" BAND SAW: All blades are 141" long.

Width	Min. Cut. Rad.	Teeth Per In.	Cat. No.
1/4"	3/4"	4	28-890
3/8"	1"	4	28-891
1/2"	1½"	4	28-892
3/4"	2"	3	28-894
1"	For Resawing	2	28-896

METAL CUTTING BAND SAW BLADES

These are regular set, hard-edge, flexible-back standard blades for cutting all metals.

FOR 14" METAL-WOOD BAND SAW: All blades are 93½" long.

Width	Min. Cut. Rad.	Teeth Per In.	Cat. No.
1/2"	2½"	10	1058
1/2"	2½"	14	1060
1/2"	2½"	18	1062
1/2"	2½"	24	1064

FOR 20" METAL-WOOD BAND SAW: All blades are 141" long.

Width	Min. Cut. Rad.	Teeth Per In.	Cat. No.
1/2"	2½"	10	28-865
1/2"	2½"	14	28-866
1/2"	2½"	18	28-867
1/2"	2½"	24	28-868

HERE'S
PROOF
 THAT

DELTA

Industrial
POWER TOOLS
 are
SUPPLEMENTING
 or **REPLACING**

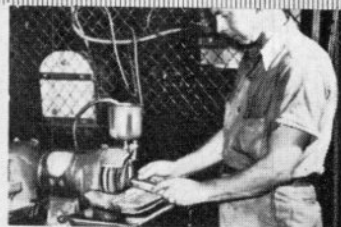
HEAVY MACHINE TOOLS
 IN HUNDREDS OF PLANTS—
 LARGE AND SMALL—TO GIVE:

- **INCREASED**
PRODUCTION!
- **BETTER** **QUALITY!**
- **LOWER** **COSTS!**



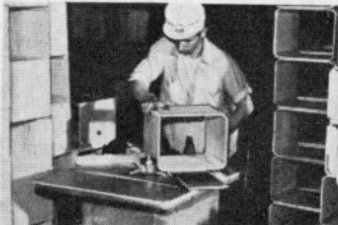
IDLE TIME TURNED INTO PRODUCTION TIME

The J. I. Case Co., Racine, Wis., mounted two Delta 17" drill press heads, columns, and flanges on a broaching machine. Operator uses idle waiting time to drill and ream two locating holes in motor block pan rail while main bearing block is being broached.



20 TIMES ORIGINAL COST SAVED

Precision Gear & Machine Co., Charlotte, N. C., saved \$2,000 in nine years with a Delta 6" Carbide Grinder. By using 6" diamond wheels, in place of costlier 10" wheels, the savings in diamond wheels alone has been over twenty times the original cost of the grinder.



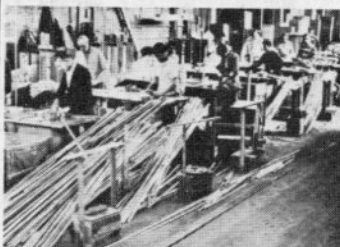
10,000 CABINETS AND BOXES

Eight Delta wood shapers and more than a score of other Delta Power Tools enable Jansa Woodworking Corp., Brooklyn, to produce 10,000 fine cabinets and boxes a day. This tremendous capacity is possible because of the flexibility and mobility of Delta Industrial Tools.



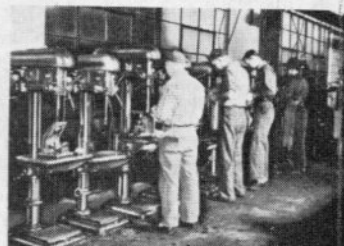
PRODUCTION UP, COSTS DOWN

A Delta Cut-Off Machine gave Chase Brass & Copper Co., Chicago, Ill., the speed and precision they needed to cut large quantities of brass, copper and steel (1/4" to 3/4" dia.) to exact dimensions. It did smoother work faster, with less waste, than any other method tried.



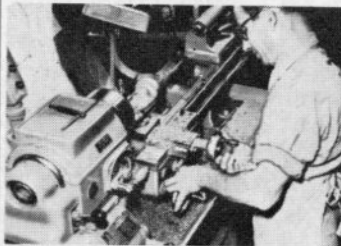
PRECISION PERFORMANCE ON A MASS PRODUCTION BASIS

With this bank of 14 Delta 10" Tilt- ing Arbor Unisaws, employees of the Reliance Picture Frame Co., Dover, N. J., turn out 13,000 picture frames each day. Perfect saw cuts eliminate the need for inspection of pieces and keep Reliance operating efficiently.



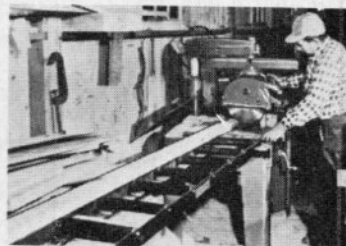
\$24,000 SAVED ON LABOR COSTS

Copeland Refrigeration Corp., Sidney, Ohio, saved \$24,000 the first year in direct labor cost when a production problem was solved through using a special Delta Drill Press set-up that replaced a \$16,000 radial drill.



DELTA METAL LATHE—HEAVIER, FASTER CUTS

Carros & Hart, Bristol, Conn., found the new Delta 11" Metal Cutting Lathe the best machine of its type. It not only holds very close tolerances, but even in steel it makes heavier and faster cuts than lathes costing much more.



MILL SAVINGS OF 40%

Centex Construction Co. of Dallas, Texas, obtained mill time savings of up to 40% when cutting roof trusses for home construction with a Delta 12"-14" Radial Saw. The Delta Radial Saw replaced a hand power saw method.

DELTA 13" x 5" Planer

safest planer ever built

Absolutely safe — all moving parts fully enclosed . . . chip breaker shield keeps fingers away from knives . . . push button switch conveniently located for quick stops from either side . . . safety clutch permits immediate disengagement of feed mechanism merely by tapping with an elbow.

Designed especially for the school shop or the commercial shop or plant that requires wood dressed to an exact parallel thickness.

Available with a 2 HP motor for schools and general industrial applications and a 3 HP motor for heavy duty work.

Check these outstanding features that guarantee long life, complete safety and continuing accuracy:

LARGE CAPACITY . . . Stock up to 13" wide and 5" thick can be planed to a parallel thickness quickly and accurately.

STEADY, POWERFUL FEED . . . Cuts smoothly and evenly any stock from 1/16" up to 5" thick.

MAXIMUM EFFICIENCY . . . High speed cutterhead gives 12,600 cuts per minute — reduces need for follow-up sanding operations.

SMOOTH OPERATION . . . Fine grey iron castings throughout give maximum rigidity between all working parts and reduce vibration to a minimum. Cutterhead knives are machined and balanced for accurate cuts. Rugged construction insures longer operating life.

CONVENIENT CONTROLS . . . All controls located within easy reach. Table control is self-locking in any position.

QUICK, EASY KNIFE ADJUSTMENT . . . Specially engineered Knife Setting Gage, together with Positioning Springs, permits rapid, accurate setting of knives without removing cutterhead. Eliminates costly machine downtime.

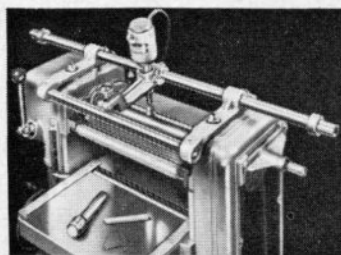
PERFECT ALIGNMENT . . . Steel gibs with adjusting screws and adjusting raising screws keep table surface parallel to knife blades.

SAFE, POSITIVE TABLE STOPS . . . Blades never can strike the table.

SHIELDED, SEALED, LUBRICATED-FOR-LIFE BALL BEARINGS . . . Give smooth cutterhead operation, trouble-free service, longer machine life.

GRINDING ATTACHMENT

With this accessory the operator can relief grind the knives while the cutterhead actually remains in the planer. It practically eliminates costly machine down-time.



specifications

CAPACITY:

Maximum Width of Stock	13"
Maximum Thickness of Stock	5"
Minimum Thickness of Stock	1/16"
Maximum Depth of Cut	1/8"
Minimum Length (Without follower, unbutted)	6"

FEED RATE:

Linear Feet Per Minute	14
Number of Inches of Stock Cut Per Minute	168
Number of Cuts Per Inch of Feed	75
Number of Cuts Per Minute	12,600

CUTTERHEAD (SOLID, STRESS-PROOF STEEL):

Diameter of Cutterhead	2-23/64"
Diameter of Cutting Circle	2-9/16"
Speed	4200 RPM

FEED DRIVE MECHANISM:

Fully enclosed within gear box.
The positive, powerful drive consists of a continuous anti-friction roller chain, linking the solid steel sprockets of the out-feed and in-feed rolls. The drive chain is driven by a double worm gear reduction drive, which in turn is driven by the cutterhead.

FEED ROLLERS (SOLID, STRESS-PROOF STEEL):

In-feed rollers (serrated)	1 3/4" Dia.
Out-feed rollers (smooth)	1 3/4" Dia.
Speed of feed rollers	approximately 35 RPM

STEEL TABLE ROLLERS (IDLERS):

Centered 5 1/2" apart, 1 1/2" O.D., 7/8" I.D.

TABLE RAISING AND LOWERING MECHANISM:

Hand wheel moves the table 1/16" per turn.

THICKNESS SCALE:

Accurately graduated from 0" to 5".

TABLE DIMENSIONS:

13" working width by 26".

FLOOR SPACE:

30" Wide by 16".

OVERALL DIMENSIONS:

35" Wide x 26" Deep x 39 3/4" High.

APPROXIMATE SHIPPING WEIGHT:

659 lbs.

catalog listing

BASIC MACHINE: 13 x 5" Thickness Planer (single surfacing), floor model, complete with No. 22-125 ball bearing 3 knife cutterhead including No. 22-128 set of 3 spring-loaded high speed steel knives and bearings and bearing housings. Without belt, motor pulley, motor and controls. 656 lbs. **CAT. NO. 22-101**

Note: Items bearing individual catalog numbers, as included in No. 22-101, can be ordered separately; see price list.

MOTOR PULLEYS

60 Cycle	O.D.	50 Cycle	O.D.	Bore	Weight
CAT. NO. 41-174	7"	CAT. NO. 41-194	8½"	¾"	3 lbs.
CAT. NO. 41-175	7"	CAT. NO. 41-195	8½"	7/8"	3 lbs.
CAT. NO. 49-212	7"	CAT. NO. 49-214	8½"	1"	3 lbs.
CAT. NO. 41-177	7"	CAT. NO. 41-197	8½"	1 1/8"	3 lbs.

BELTS

60 Cycle	O.C.	50 Cycle	O.C.	Weight
CAT. NO. 49-156	68-13/32"	CAT. NO. 49-157	70-13/32"	½ lb.

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

Motor, 2 HP, capacitor start, 115/230 V, 60 cy, AC, 1725 rpm, ¾" shaft. Without switch or power cord. 79 lbs. **CAT. NO. 93-610**

Motor, 3 HP, capacitor start, 115/230 V, 60 cy, AC, 1725 rpm. Without switch, cord and plug. 122 lbs. **CAT. NO. 93-410**

Starter, Manual. For AC, 2 or 3 HP Planer motor on 230 V only. Provides overload protection. Specify motor number and voltage when ordering. 8 lbs. **CAT. NO. 1328**

Starter, Magnetic. For AC, 2 or 3 HP Planer motor on 115/230 V. Provides low-voltage, no-voltage and overload protection. Specify motor number and voltage when ordering. 7 lbs. **CAT. NO. 49-325**

Cover Plate. For use with Magnetic Starter No. 49-325. 2 lbs. **CAT. NO. 49-376**

FOR 3 PHASE OPERATION

Motor, 2 HP, 208-220/440 V, 50/60 cy, AC, 1425/1725 rpm, ¾" shaft. Without switch or power cord. 60 lbs. **CAT. NO. 96-320**

Motor, 3 HP, 208-220/440 V, 50/60 cy, AC, 1425/1725 rpm, 1" shaft. Without switch or power cord. 104 lbs. **CAT. NO. 97-320**

Motor, 3 HP, 208-220/440 V, 50/60 cy, AC, 1425/1725 rpm, 1" Shaft. Without switch or power cord. Totally enclosed, non-ventilated. 135 lbs. **CAT. NO. 97-420**

Starter, Manual. For AC, 2 HP Planer motor. Provides overload protection. Specify motor number and voltage when ordering. 6 lbs. **CAT. NO. 1320**

Starter, Manual. For AC, 3 HP Planer motor. Provides overload protection. Specify motor number and voltage when ordering. 8 lbs. **CAT. NO. 1328**

Starter, Magnetic. For AC, 2 or 3 HP Planer motor. Provides low-voltage, no-voltage and overload protection. For use with 208-220 V, 60 cy, only. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-393**

Starter, Magnetic. For AC, 2 or 3 HP Planer motor. Provides low-voltage, no-voltage and overload protection. For use with 440 V, 60 cy, only. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-394**

Cover Plate. For use with Magnetic Starters Nos. 49-393 and 49-394. 2 lbs. **CAT. NO. 49-376**

ACCESSORIES

Ball bearing 3-Knife Cutterhead; No. 22-128 set of 3 spring-loaded, high speed steel knives, bearings and bearing housings. 52 lbs. **CAT. NO. 22-125**

Spring-Loaded High Speed Steel Knives, extra set of 3. 3 lbs. **CAT. NO. 22-128**

Knife Grinding and Jointing Attachment with 115 V, AC-DC motor. Complete with chuck and key; cord, plug and switch; mounting and guide rail parts; locking and positive index device; jointing stone adapter; jointing stone; one fine and one medium wheel; wheel dressing stone; and wrenches. 45 lbs. **CAT. NO. 22-106**

Knife Grinding Attachment, same as No. 22-106, but less motor. 40 lbs. **CAT. NO. 22-130**

Knife Jointing Attachment (not needed if ordering 22-106). Complete with base and handles, diagonal bar, adjusting block and screw, and 1" fine jointing stone. 10 lbs. **CAT. NO. 22-107**

Lubricating Oil for gear drive, gallon can. 6 lbs., 7 ozs. **CAT. NO. 22-113**

Shaving Hood with 6" diameter connection to be used with suction system. 5 lbs. **CAT. NO. 22-115**

Grinding Wheels, box of 3, medium grit (#60). ¼ lb. **CAT. NO. 22-116**

Grinding Wheels, box of 3, fine grit (#100). ¼ lb. **CAT. NO. 22-117**

Jointing Stone. ¼ lb. **CAT. NO. 22-118**

CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

FOR SINGLE PHASE OPERATION

13" x 5" Thickness Planer complete. Includes 22-101 Planer, 93-610 2 HP Motor, 1328 Manual Starter, 41-174 Motor Pulley and 49-156 V-belt. 746 lbs. **CAT. NO. 22-161**

13" x 5" Thickness Planer complete. Includes 22-101 Planer, 93-610 2 HP Motor, 49-325 Magnetic Starter (specify voltage), 49-376 Cover Plate, 41-174 Motor Pulley and 49-156 V-belt. 747 lbs. **CAT. NO. 22-181**

13" x 5" Thickness Planer complete. Includes 22-101 Planer, 93-410 3 HP Motor, 1328 Manual Starter, 41-177 Motor Pulley and 49-156 V-belt. 790 lbs. **CAT. NO. 22-171**

13" x 5" Thickness Planer complete. Includes 22-101 Planer, 93-410 3 HP Motor, 49-325 Magnetic Starter (specify voltage), 49-376 Cover Plate, 41-177 Motor Pulley and 49-156 V-belt. 791 lbs. **CAT. NO. 22-191**

FOR 3 PHASE OPERATION

13" x 5" Thickness Planer complete. Includes 22-101 Planer, 96-320 2 HP Motor, 1320 Manual Starter for 208-220/440 V (specify voltage), and 41-174 Motor Pulley and 49-156 V-belt (for 60 cy only). 725 lbs. **CAT. NO. 22-163**

13" x 5" Thickness Planer complete. Includes 22-101 Planer, 96-320 2 HP Motor, 49-393 Magnetic Starter for 208-220 V (specify voltage), 49-376 Cover Plate, and 41-174 Motor Pulley and 49-156 V-belt (for 60 cy only). 727 lbs. **CAT. NO. 22-183**

13" x 5" Thickness Planer complete. Includes 22-101 Planer, 97-320 3 HP Motor, 1328 Manual Starter for 208-220/440 V (specify voltage) and 49-212 Motor Pulley and 49-156 V-belt (for 60 cy only). 772 lbs. **CAT. NO. 22-173**

13" x 5" Thickness Planer complete. Includes 22-101 Planer, 97-320 3 HP Motor, 49-393 Magnetic Starter for 208-220 V (specify voltage), 49-376 Cover Plate, and 49-212 Motor Pulley and 49-156 V-belt (for 60 cy only). 772 lbs. **CAT. NO. 22-193**

These Features Give You BIG Planer Performance At SMALL Planer Cost

The Delta Planer is a big capacity machine. With it you can easily plane stock 13" wide by 5" thick to a satin smooth finish.

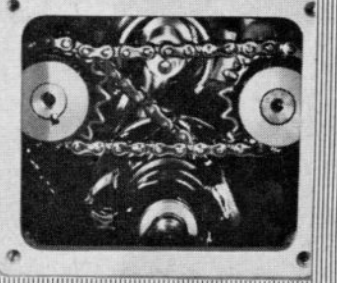
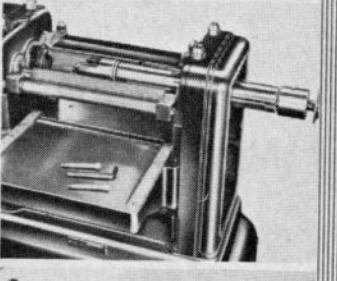
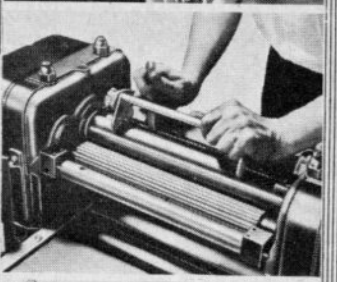
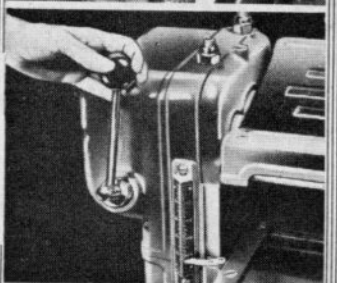
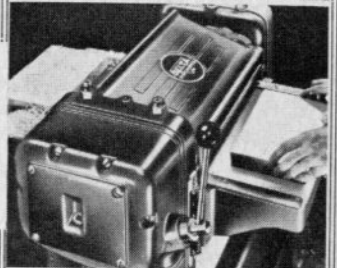
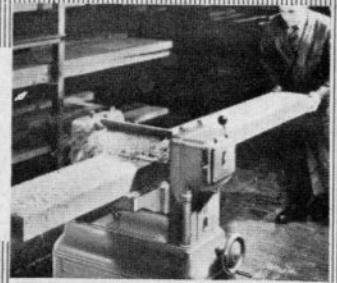
A short piece of stock, only 6" long, can be handled unbutted with the Delta Planer. Makes it possible to salvage material that might otherwise be scrapped.

A Delta Exclusive! Finger-tip clutch control allows you to stop and start feed mechanism without touching motor switch. You can read depth scale from any position.

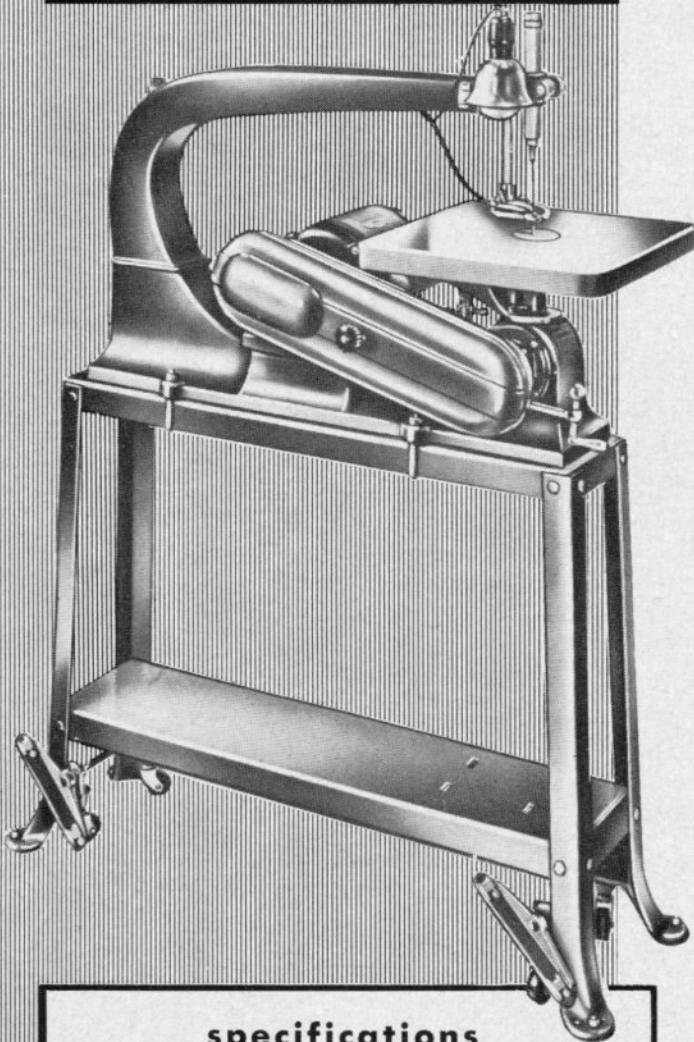
Here's another Delta Exclusive! Individual blade adjustment and simplified measuring device permit quick, accurate adjustment of knives right in cutterhead.

No need for costly shut-down when knives become dull. Simply pull the dull cutterhead out—slip a new one in.

The Double-Worm-gear reduction drive is automatically lubricated as it runs. This feature prolongs the life of your machine.



DELTA 24" scroll saws



specifications

Capacity, arm to saw	24"	
Thickness of cut	1 3/4"	
Table size	14 x 14"	
Table tilts	45° right, 15° left, 45° front	
Table from floor	42 1/4"	
Overall height—55"	width—15"	length—36"
Speeds: Variable-Speed Model	650 to 1700 C.S.M.*	
Four-Speed Model	610, 910, 1255, 1725 C.S.M.*	
Overarm can be removed for unlimited cutting capacity with saber blade.		

*Cutting strokes per minute

give you better performance ... longer life ... faster output!

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 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.

These and other outstanding features make Delta Scroll Saws the finest ever offered!

catalog listing

BASIC MACHINE WITHOUT STAND: 24" Scroll Saw with 1 saber blade and 3 scroll saw blades. Without motor, switch, pulleys, belt or belt guard. 101 lbs. **CAT. NO. 1440**

BASIC MACHINE WITH STEEL STAND (FOUR-SPEED MODEL): Same as No. 1440 except Four-Speed and with No. 50-716 steel stand, No. 720 4-step cone pulley on arbor with 1/2" bore, No. 718 4-step motor pulley, (with 1/2" bore), No. 340 V-belt, No. 1203 belt and pulley guard, 1 saber blade and 3 scroll saw blades. Without motor or switch. 164 lbs. **CAT. NO. 40-205**

BASIC MACHINE WITH STEEL STAND (VARIABLE-SPEED MODEL): Same as No. 1440 except Variable-Speed and with No. 50-716 steel stand, No. 1443 arbor pulley with 1/2" bore, No. 1446 variable-speed motor pulley with 1/2" bore, No. 1447 motor base and bracket, No. 331 V-belt, No. 1442 belt and pulley guard, 1 saber blade and 3 scroll saw blades. Without motor and switch. 163 lbs. **CAT. NO. 40-305**

Note: Items bearing individual catalog numbers as included in No. 40-205 and No. 40-305 can be ordered separately; see price list.

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

Motor, 1/3 HP, 115/230 V, capacitor, AC, 60 cy, 1725 rpm. With on-and-off switch, 115 V 8-foot cord, 3-prong grounding type plug and adapter. 28 lbs. **CAT. NO. 62-110**

FOR 3 PHASE OPERATION

Motor, 1/3 HP, 208-220/440 V, AC, 50/60 cy, 1425/1725 rpm. Without switch or power cord. 23 lbs. **CAT. NO. 66-120**

Starter, Manual. Provides overload protection. Specify motor number and voltage. 6 lbs. **CAT. NO. 1320**

Starter, Magnetic. For 60 cy, 208-220 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number. 6 lbs. **CAT. NO. 49-393**

Starter, Magnetic. For 60 cy, 440 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number. 6 lbs. **CAT. NO. 49-394**

Mounting Bracket for mounting above starters on steel stand. 3 lbs. **CAT. NO. 49-318**

ACCESSORIES

Four-Speed Accessory Group consisting of No. 718 motor pulley (1/2" bore), No. 720 spindle pulley and No. 340 V-belt. 1 3/4 lbs. **CAT. NO. 1207**

Retractable Caster Set for No. 50-310 or No. 50-716 steel stand. 13 lbs. For complete information on casters, see Page 91. **CAT. NO. 49-363**

Steel Stand (special height for schools), 26 1/2" high; top, 7 x 33". 35 lbs. **CAT. NO. 50-310**

Steel Stand, 31 1/2" high; top, 7 x 33". 44 lbs. **CAT. NO. 50-716**

For additional scroll saw accessories, see Page 79.

CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

FOR SINGLE PHASE OPERATION

Four-Speed 24" Scroll Saw complete. Includes 40-205 scroll saw with steel stand and 62-110 1/3 HP motor with switch. 192 lbs. **CAT. NO. 40-211**

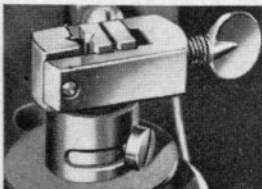
Variable-Speed Scroll Saw complete. Includes 40-305 scroll saw with steel stand and 62-110 1/3 HP motor with switch. 191 lbs. **CAT. NO. 40-311**

FOR 3 PHASE OPERATION

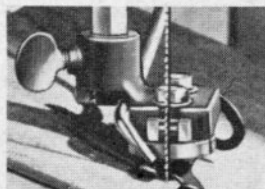
Four-Speed 24" Scroll Saw complete. Includes 40-205 scroll saw with steel stand, 66-120 1/3 HP motor, 1320 starter (specify voltage) and 49-318 mounting bracket. 196 lbs. **CAT. NO. 40-213**

Variable-Speed Scroll Saw complete. Includes 40-305 scroll saw with steel stand, 66-120 1/3 HP motor, 1320 starter (specify voltage) and 49-318 mounting bracket. 195 lbs. **CAT. NO. 40-313**

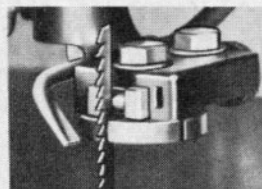
CHECK THESE ADVANCED DELTA SCROLL SAW FEATURES



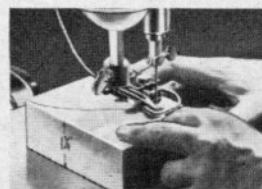
Delta's superior V-jaw, steel chuck assembly positively grips saw blades, saber blades and sanding and filing attachments.



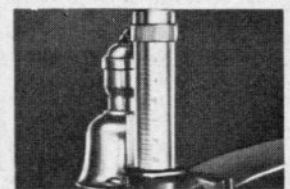
Spring hold-down functions even when table is tilted, giving added accuracy and ease of operation.



Universal blade guide and roller support hold all sizes of blades in true alignment — including saber blades.



Cuts up to 1 3/4" thick. Rips to center of 48" panel with overarm in position. Overarm removable for extra large work.



Tension spring over saw blade is easily adjusted to suit the type of cut or the type of blade used.

You get more value from your scroll saw with these DELTA Accessories

VARIABLE-SPEED ATTACHMENT

With the aid of the No. 1444 Variable-Speed Accessory Group, the Delta Four-Speed 24" Scroll Saw can easily be converted into 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.

Variable-Speed Accessory Group consisting of No. 1446 variable-speed motor pulley (1/2" bore), No. 1447 motor base with bracket, screws and handle, No. 331 special V-belt and No. 1443 special drive pulley (1/2" bore). 11 lbs. **CAT. NO. 1444**

Belt and Pulley Guard for No. 1444 Variable-Speed Assembly. 6 lbs. **CAT. NO. 1442**

LOWER SABER 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.

Lower Guides (2) with post, nut and thumb screw. Blade slots—.030" and .040". 3/8 lb. **CAT. NO. 1204**

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. 15/16" wide, 1/2" thick and 2 1/2" long. 1/4" dia. shank fits universal lower chuck of scroll saw.

Sanding Attachment with one sleeve. 1/2 lb. **CAT. NO. 711**

Six No. 1 grit, medium garnet sleeves. 3/8 lb. **CAT. NO. 841**

Six No. 1/0 grit, fine, garnet sleeves. 1/2 lb. **CAT. NO. 842**

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. **CAT. NO. 1202**

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.

Self-Centering Lower-Jaw Chuck, including special jaw for use with upper chuck. 3/8 lb. **CAT. NO. 715**

LAMP ATTACHMENT

This handy 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.

Lamp Attachment with shade, socket, cord, four flat links, bolts, spacer and attachment bracket. 1 1/2 lbs. **CAT. NO. 882**

MACHINE FILES

With 1/4" shank — Overall length 3 1/4"

Description	Cat. No.
■ Square	726
● Crochet	727
◐ Half Round	728
● Round	729
◄ Triangle	730
▮ Oblong	731
Set of above six. 1/2 lb.	740

With 1/8" shank — Overall length 3 1/4"

■ Square	751
● Crochet	752
◐ Half Round	753
● Round	754
◄ Triangle	755
▮ Oblong	756
◆ Lozenge	757
▼ Knife	758
Set of above eight. 1/2 lb.	760

SCROLL SAW BLADES

A proper blade for every job. All are 5" long with accurately spaced teeth. Heat treated for extra long life. Have 3/8" blank ends for fastening into chuck. 1/2 doz. to a package. 1/8 lb.

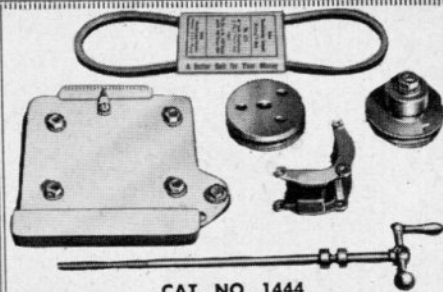
Material	*Blade to Use
HARDWOOD 3/4 in. stock	91. Also 92, 93, 94, 60, 61.
HARDWOOD 1/4 in. stock	85. Also 86, 87, 88, 91, 59, 60, 61.
SOFTWOOD 3/4 in. stock	92. Also 91, 93, 94.
SOFTWOOD 1/4 in. stock	87. Also 81, 82, 83, 85, 86, 88.
PUZZLES, INLAYS, MARQUETRY	84. Also 77, 81, 82, 83.
SOFT METALS (over 1/8 in.)	65, 59. Also 58, 60, 64, 91.
SOFT METALS (under 1/8 in.)	96. Also 95, 97, 98.
IRON AND STEEL	59. Also 60, 61, 64, 65.
PLASTIC, BONE, IVORY (rough cut)	91. Also 59, 64, 65.
PLASTIC, BONE, IVORY (finish cut)	85. Also 86, 87, 88, 96, 97, 58.

*Note. As a general rule always select narrow blades for intricate curve cutting and wide blades for straight and large curve cutting operations. For width of blades, see profiles.

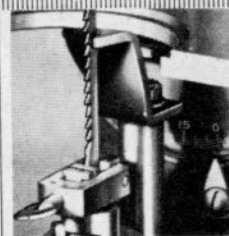
SABER BLADES FOR WOOD

Made of high-grade steel with teeth hardened and accurately set. Are 5" in length. 1/2 doz. to a package. 3/8 lb.

Half dozen, .025" thick, .187" wide, 9 teeth per inch. **CAT. NO. 703**
Half dozen, .035" thick, .250" wide, 7 teeth per inch. **CAT. NO. 704**



CAT. NO. 1444



CAT. NO. 1204



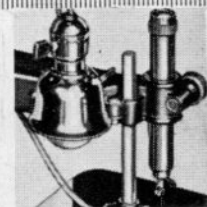
CAT. NO. 1202



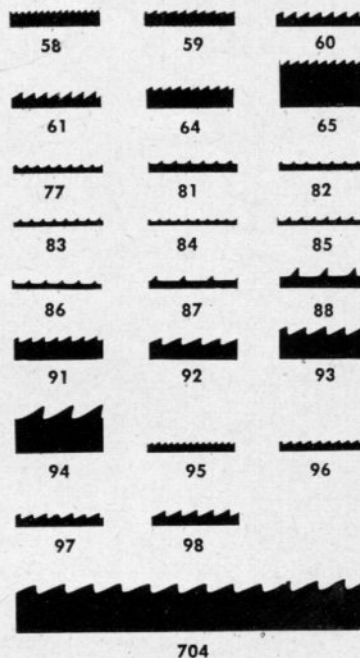
CAT. NO. 711



CAT. NO. 715



CAT. NO. 882



704

DELTA heavy duty wood shaper

specifications

Table Height	34"
Table Size	27" x 28"
Table size with extensions	27" x 36"
Table Opening Diameters	6 3/4", 3 1/2", 3" and 1 3/8"
Spindle Diameters Furnished	1/2" and 3/4"
Other Spindles Available	5/16" standard, 3/4" extra long and 1/2" stub
Capacity, 3/4" Spindle (under nut)	3 1/4"
1/2" Spindle (under nut)	2 1/2"
5/16" Spindle (under nut)	1 1/2"
Spindle Travel	3"
Spindle Speed (r.p.m.)	10,000
Largest table opening	6 1/2"
Fence Size (each side)	3 3/4" x 12 3/8" x 15/16"

catalog listing

BASIC MACHINE WITH ONE EXTENSION WING:

Wood shaper with No. 1354 fence, 3/4" spindle, No. 1347 1/2" spindle, table inserts, starting pin, wrenches, spindle pulley, one No. 1349 8 x 27" table extension, No. 287 30" OC V-belt and No. 5710 7 1/2" motor pulley. Without motor, motor controls or cutters. 265 lbs. **CAT. NO. 1340**

BASIC MACHINE WITH TWO EXTENSION WINGS:

Same as No. 1340 except with two 1349 table extensions. Without motor, motor controls or cutters. 292 lbs. **CAT. NO. 43-205**

Note: Items bearing individual catalog numbers, as included in No. 1340 and No. 43-205, can be ordered separately; see price list.

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

Motor, 1 HP, 115/230 V, repulsion-induction, AC, 60 cy, 3450 rpm. Supplied with integral reversing lever, separate 115 V 8-foot cord, 3-prong grounding type plug and adapter but without control switch. 68 lbs. **CAT. NO. 85-080**

On-and-off Toggle Switch. With lock feature, in special case without cover. Includes 3-wire, 3-foot power cord. 1 1/2 lbs. **CAT. NO. 132**

FOR 3 PHASE OPERATION

Motor, 1 HP, 208-220/440 V, AC, 50/60 cy, 2850/3450 rpm. Without switch or power cord. 43 lbs. **CAT. NO. 86-921**

Motor, 1 1/2 HP, 208-220/440 V, AC, 50/60 cy, 2850/3450 rpm. Without switch or power cord. 50 lbs. **CAT. NO. 87-121**

Starter, Manual. Provides overload protection. Specify motor number and voltage when ordering. 6 lbs. **CAT. NO. 1320**

Reversing Drum Switch. For use with No. 86-921 or No. 87-121 motor. 4 lbs. **CAT. NO. 1325**

Mounting Parts for mounting No. 1320 Starter and No. 1325 Reversing Switch on shaper cabinet for control of No. 86-921 or No. 87-121 motor. 2 lbs. **CAT. NO. 1327**

Starter, Magnetic. For 60 cy, 208-220 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-393**

Starter, Magnetic. For 60 cy, 440 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-394**

ACCESSORIES

Auto-Set Miter Gage. 4 lbs. **CAT. NO. 864**

Clamp Attachment for miter gage with clamp bar, two sliding clamp screws, and front and rear posts. 2 1/4 lbs. **CAT. NO. 865**

Extra Clamp Screw and Bracket for clamp attachment. 1 lb. **CAT. NO. 873**

Stub Spindle, 1/2" dia., for cope cutters with 1/2" hole. 1 lb. **CAT. NO. 1345**

Spindle, 5/16" dia., for 3-lip cutters with 5/16" hole. 1 lb. **CAT. NO. 1346**

Long Shaper Spindle Cartridge Assembly with 3/4 x 10 R.H. thread for use on No. 1340 or No. 43-205 Shaper when only counter-clockwise rotation of spindle is desired. Designed for wide cutters to make fluting and reading possible. Capacity under nut, 4 3/8". 2 lbs. **CAT. NO. 43-826**

Long Shaper Spindle Cartridge Assembly with 3/4 x 10 L.H. thread for use on No. 1340 or No. 43-205 Shaper when only clockwise rotation of spindle is desired. Designed to accommodate wide cutters to make fluting and reading possible. Capacity under nut, 4 3/8". 2 lbs. **CAT. NO. 43-827**

For additional shaper accessories, see Page 81.

CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

FOR SINGLE PHASE OPERATION

Wood Shaper complete. Includes 43 205 shaper, 85-080 1 HP motor and 132 switch. 362 lbs. **CAT. NO. 43-211**

FOR 3 PHASE OPERATION

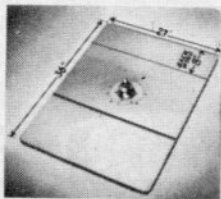
Wood Shaper complete. Includes 43-205 shaper, 86-921 1 HP motor, 1320 starter (specify voltage) and 1327 mounting parts. 352 lbs. **CAT. NO. 43-213**



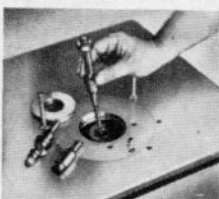
This Delta Shaper is a favorite of the cabinet shop, furniture factory, specialty shop, and sash and door company because it's engineered to accept five interchangeable spindles. It will handle 5/16, 1/2 and 3/4" standard spindles, a 1/2" stub spindle, plus an extra long 3/4" spindle with 4 3/8" capacity under the nut.

You get maximum versatility with this big machine because Delta provides 97 different cutters that may be used singly or stacked to produce an unlimited variety of cuts.

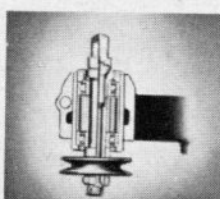
This unmatched versatility, together with Delta's five famous quality features, make this Delta Shaper an unequalled value in its class!



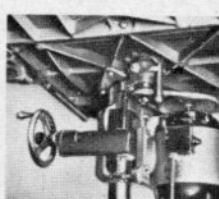
Big 27 x 28" table, with 3/4 x 3/4" groove for miter gage or jigs, may be increased to 27 x 36" by adding extension wing.



Spindles readily interchangeable for use of wide variety of cutters. Note removable table insert with 3 opening sizes.



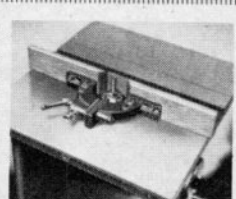
Rugged design of spindle assembly with short, stiff drive spindle; properly spaced bearings . . . eliminates chatter.



Entire mechanism is one unit assembled and bolted to bottom of table . . . keeps in perfect alignment and runs true.



Spindle adjusting hand wheel, starting switch, and spindle height scale grouped for convenient, easy operation.



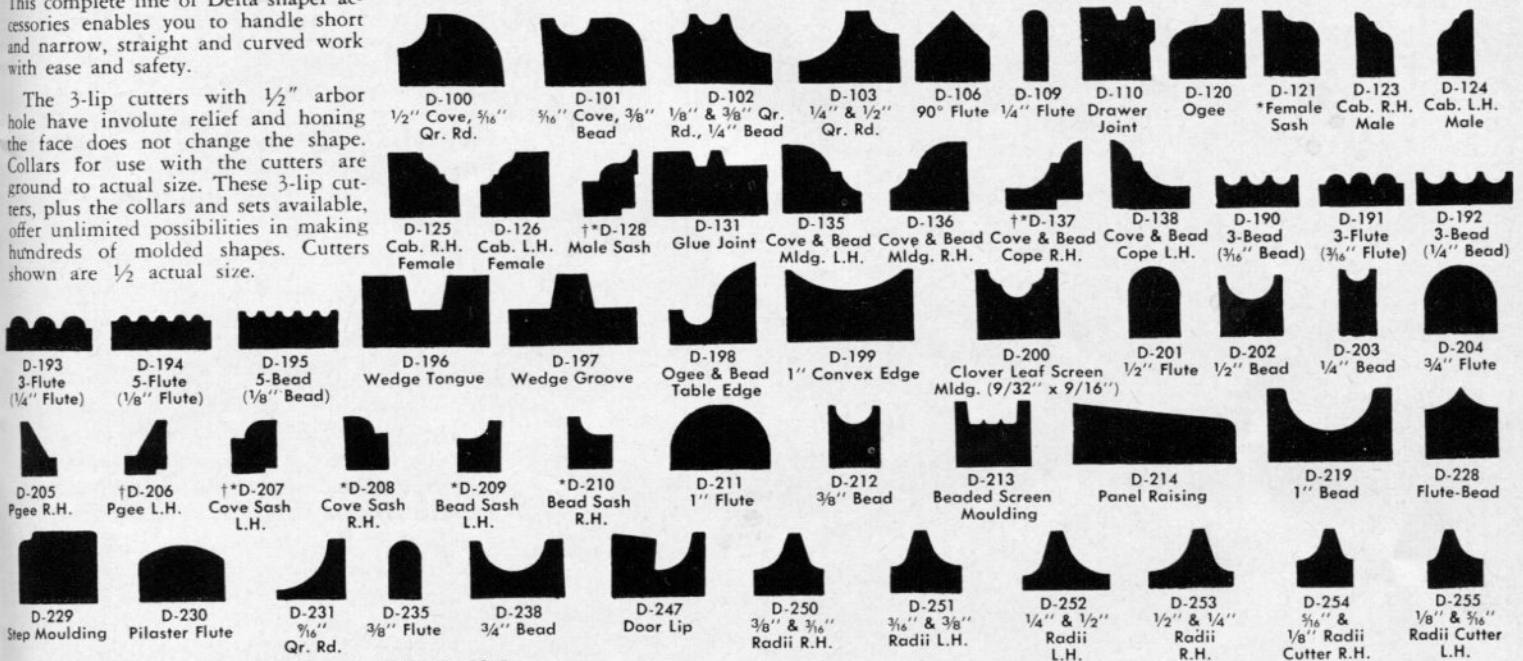
Fully adjustable fence. Both halves adjust independently, also adjust endwise so opening may be made as small as required.



low cost Delta shaper accessories

This complete line of Delta shaper accessories enables you to handle short and narrow, straight and curved work with ease and safety.

The 3-lip cutters with 1/2" arbor hole have involute relief and honing the face does not change the shape. Collars for use with the cutters are ground to actual size. These 3-lip cutters, plus the collars and sets available, offer unlimited possibilities in making hundreds of molded shapes. Cutters shown are 1/2 actual size.



*For sash work. †Counterbored to fit stub spindle No. 1345.

STRAIGHT CUTTERS (1/2" Hole)

Dia.	Thickness	Cat. No.	Dia.	Thickness	Cat. No.
1 1/8"	1/4"	D-256	1 1/8"	1/4"	D-108
1 1/8"	3/16"	D-259	1 1/8"	3/16"	D-248
1 1/8"	1/2"	D-257	1 1/8"	1/2"	D-127
1 1/8"	3/8"	D-258	1 1/8"	3/8"	D-218
1 1/8"	1/2"	D-107	1 1/8"	1/2"	D-139
*1 7/8"	1/2"	D-130	1 7/8"	1/2"	D-249
1 7/8"	3/4"	D-104	1 7/8"	3/8"	D-129
1 7/8"	1 1/2"	D-105			

*For sash work.

SPACING COLLARS FOR SHAPER CUTTERS (1/2" Hole)

Thickness	Outside Dia.	Cat. No.	Thickness	Outside Dia.	Cat. No.
1/8"	1 1/16"	D-133	3/8"	1 1/8"	D-145
3/16"	1 3/16"	D-150	3/8"	1 3/8"	D-132
1/4"	1 3/8"	D-155	3/8"	1 3/4"	D-141
1/4"	1 5/8"	D-217	3/8"	1 7/8"	D-146
1/4"	1 7/8"	D-134	3/8"	1 7/8"	D-174
1/4"	1 7/8"	D-140	3/8"	1 7/8"	D-147
1/4"	1 7/8"	D-215	3/8"	1 7/8"	D-175
1/4"	1 7/8"	D-151	3/8"	1 7/8"	D-148
3/8"	1 3/4"	D-142	3/8"	1 7/8"	D-176
3/8"	1 3/4"	D-171	3/8"	1 7/8"	D-177
3/8"	1 3/4"	D-143	3/8"	1 7/8"	D-178
3/8"	1 3/4"	D-172	3/8"	1 7/8"	D-149
3/8"	1 3/4"	D-144	3/8"	1 7/8"	D-179
3/8"	1 1/16"	D-173	3/8"	1 7/8"	D-180

NEW CARBIDE-TIPPED DOOR LIP SHAPER CUTTER

For clockwise rotation. Cuts with rabbet down, feed left to right, 2 1/16" dia., 3/4" bore with bushings to 1/2". 10 oz. CAT. NO. 43-900

For counter-clockwise rotation. Same as Cat. No. 43-900 except right to left feed. 10 oz. CAT. NO. 43-901



SAFETY RING GUARD

Acts as hold down. Complete with mounting bracket. 8 lbs. CAT. NO. 1348



CAT. NO. 1342 Shown With Blank Knives

3-LIP CUTTERS WITH 5/16" HOLE

Set of 24 edge cutters D-1 to D-80 with No. 978 adapter and 6 collars in wood box. 2 lbs. For use on the No-1346 spindle. (For complete cutter listing see Page 17.) CAT. NO. 980

3-KNIFE SAFETY CUTTERHEAD

Enables circular saw moulding cutter knives to be used on the shaper. Alloy steel head with bushing for use on 1/2" and 3/4" shaper spindles. Furnished without knives. 1 1/2 lbs. (For actual size and shape of cutter, see Page 61.) CAT. NO. 1343

SAFETY CUTTERHEAD AND BLANK KNIVES

For special mouldings that cannot be made with standard shaper cutters. Knives are 1/8" thick with a 30° clamp angle. They are self-hardening and sand-blasted so that cutter design may be drawn directly on them and ground to shape. Head furnished without knives.

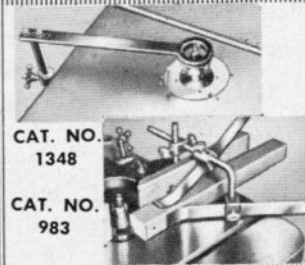
Cutterhead, 2-37/64" high, for 3/4" spindle, with tightening block. 1 1/2 lbs. CAT. NO. 1342
 Cutterhead, 2-37/64" high, for 1/2" spindle, with tightening block. 1 1/2 lbs. CAT. NO. 1192
 Two 1 1/2 x 2 1/2" knives. 3/8 lb. CAT. NO. 1193
 Two 1 3/4 x 2 1/2" knives. 3/8 lb. CAT. NO. 1194
 Two 1 x 2 1/2" knives. 3/8 lb. CAT. NO. 1195
 Two 1 1/2 x 2 1/2" knives. 3/8 lb. CAT. NO. 1196

SPRING HOLD DOWNS

Hold work firmly against fence and table. Accommodate work up to 3 1/2" thick, any length. 2 lbs. CAT. NO. 983

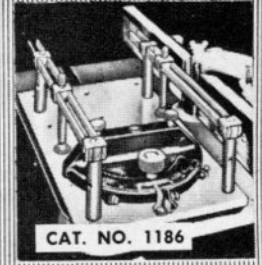
SLIDING SHAPER JIG

For horizontal shaping operations such as cutting tenons and grooves. Holds short, narrow pieces tightly, prevents slipping. 19 lbs. CAT. NO. 1186
 Tenoner for vertical shaping. Used with No. 1186 Sliding Jig. 21 lbs. CAT. NO. 1170



CAT. NO. 1348

CAT. NO. 983



CAT. NO. 1186

DELTA 12" deluxe wood lathe

...variable-speed, gap bed, cabinet model for wood turning, metal spinning and light metal turning

Only DELTA offers you both — Slow-Start Switch for added safety . . . Gap Filler Block for increased job performance.

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.

ENGINEERED FOR SAFETY . . . Completely covered drive mechanism fully protects operator from moving parts. Convenient hand wheels and an inclined, graduated speed indicator reduce operator fatigue. Push button switch plus a new, optional Slow-Start feature (see P. 89 for description) provide user with added safety.

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.

UNEQUALLED VERSATILITY . . . In addition to basic operations such as turning woods, metals and plastics and metal spinning, this new lathe will do dozens of important workshop jobs. With Delta's unmatched line of more than 50 engineered accessories you can do sanding, grinding, buffing, polishing, drilling, reeding, fluting and many other operations

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 outboard spindle. And with Delta's New Gap Filler Block (see P. 89 for description), 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. In addition, the Gap Filler Block can be used to extend the lathe bed at the tailstock end for extra-long turnings. More than this, when you use Delta's *new* tool rest, which features a *graduated*, hardened steel insert, you can make accurate measurements and divisions more easily than ever before.



specifications

Swing over bed	12"
Swing over bed gap	16½" dia. for 3½" stock
Distance between centers	38"
Length of bed (overall)	59¾"
Variable speed drive	340 RPM to 3200 RPM
Spindle diameter	1¼"
Spindle thread	1"-8
Overall length 63", width 22", height 46½"	
Spindle hole	5/8"
Head stock and tail stock tapers	No. 2 M.T.
Height—centerline of spindle to floor	42¾"
Approx. shipping weight	494 lbs.

catalog listing

BASIC MACHINE: 12" Deluxe Cabinet Model, Variable Speed Wood Lathe, including No. 46-431 12" tool support with graduated hardened insert, No. 1461 tool support base, No. 46-430 off-set tool support base, No. 933 drive center, No. 934 cup center, No. 936 3" face plate, No. 937 6" face plate, No. 5300 motor pulley (specify bore— $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ "), No. 49-195 V-belt ($37\frac{1}{8}$ " O.C.), No. 49-196 V-belt ($41\frac{1}{2}$ " O.C.) and wrenches. Without motor and switch, 494 lbs. **CAT. NO. 46-400**

Note: Items bearing individual catalog numbers, as included in No. 46-400, can be ordered separately; see price list.

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

Motor, $\frac{1}{2}$ HP, capacitor start, 115/230 V, 60 cy, AC, 1725 rpm. Includes on-and-off switch, 8-foot cord, 3-prong grounding type plug and adapter. 29 lbs. **CAT. NO. 62-610**

Motor, $\frac{1}{2}$ HP, capacitor start, 115/230 V, 60 cy, AC, 1725 rpm. Includes on-and-off switch, 8-foot cord, 3-prong grounding type plug and adapter. 52 lbs. **CAT. NO. 82-710**

Motor, $\frac{3}{4}$ HP, capacitor start, 115/230 V, 60 cy, AC, 1725 rpm. Includes on-and-off switch, 8-foot cord, 3-prong grounding type plug and adapter. 50 lbs. **CAT. NO. 82-910**

Push Button Manual Control Switch and Wiring Kit for use with Nos. 62-610, 82-710 or 82-910 motor (also can be used on DC motors). 3 lbs. **CAT. NO. 46-471**

Slow-Start Switch Kit. For description, see inside back cover. 6 lbs. **CAT. NO. 46-470**

FOR 3 PHASE OPERATION

Motor, $\frac{1}{2}$ HP, 208-220/440 V, 50/60 cy, AC, 1425/1725 rpm. Without switch or power cord. 25 lbs. **CAT. NO. 66-320**

Motor, $\frac{1}{2}$ HP, 208-220/440 V, 50/60 cy, AC, 1425/1725 rpm. Without switch or power cord. 44 lbs. **CAT. NO. 86-520**

Motor, $\frac{3}{4}$ HP, 208-220/440 V, 50/60 cy, AC, 1425/1725 rpm. Without switch or power cord. 42 lbs. **CAT. NO. 86-720**

Switch, Overload. Used with No. 46-473 Switch Kit. Specify voltage. 3 lbs. **CAT. NO. 49-365**

Starter, Magnetic. For 60 cy, 208-220 V only. Provides low-voltage, no-voltage and overload protection. Used with No. 46-472 Switch Kit. 6 lbs. **CAT. NO. 49-396**

Starter, Magnetic. For 60 cy, 440 V only. Provides low-voltage, no-voltage and overload protection. Used with No. 46-472 Switch Kit. 6 lbs. **CAT. NO. 49-397**

Slow-Start Switch Kit for 208-220 V only. For description, see inside back cover. 6 lbs. **CAT. NO. 46-470**

Relay. For description, see inside back cover. 2 lbs. **CAT. NO. 49-399**

Push Button Manual Control Switch and Wiring Kit for use with Nos. 66-320, 86-520 or 86-720 motor and No. 49-365 overload switch (also can be used on DC motors). 3 $\frac{1}{2}$ lbs. **CAT. NO. 46-473**

Push Button Magnetic Control Switch and Wiring Kit for use with Nos. 66-320, 86-520 or 86-720 motor and No. 49-396 208-220 V magnetic starter or No. 49-397 440 V magnetic starter. 3 lbs. **CAT. NO. 46-472**

WHAT CONTROLS TO ORDER FOR SLOW-START FEATURE

FOR SINGLE PHASE
Motor: No. 62-610, 82-710 or 82-910
Controls: Nos. 46-470 and 46-471

FOR 3 PHASE (208-220 V only)
Motor: No. 66-320, 86-520 or 86-720
Controls:

Manual: Nos. 46-470 and 46-473 (should overload protection be desired, add 49-365)
Magnetic: Nos. 46-470, 46-472, 49-399 and 49-396

CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

FOR SINGLE PHASE OPERATION

12" Deluxe Variable Speed Wood Lathe complete. Includes No. 46-400 lathe, No. 82-910 $\frac{3}{4}$ HP motor and No. 46-471 manual control switch and wiring kit, mounted and wired, ready to plug in on 115 V, 60 cy. 547 lbs. **CAT. NO. 46-411**

FOR 3 PHASE OPERATION

12" Deluxe Variable Speed Wood Lathe complete. Includes No. 46-400 lathe, No. 86-720 $\frac{3}{4}$ HP motor, No. 46-473 manual control switch and wiring kit, mounted and wired. No. 49-365 overload switch also supplied (specify voltage). 543 lbs. **CAT. NO. 46-413**

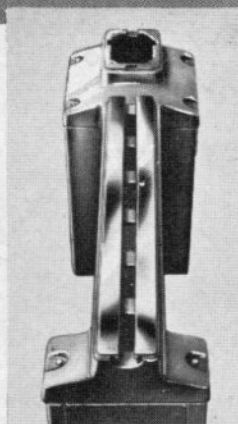
advanced features like these

make the DELTA 12" DELUXE VARIABLE SPEED LATHE UNMATCHED IN ITS CLASS!



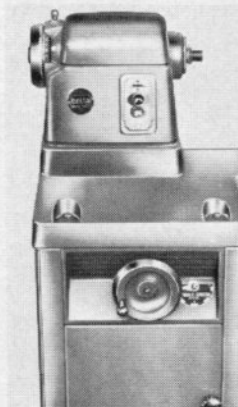
RUGGED HEAD STOCK

Engineered to give extra rigidity for heavy, rough turning. Cover completely encloses belt and pulleys for added safety . . . is easy to remove for changing belt.



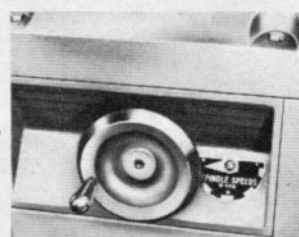
MASSIVE BED

Scientifically ribbed and ruggedly constructed to minimize vibration . . . bed and head stock mounting are precision ground simultaneously for absolute alignment.



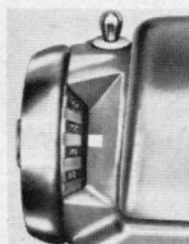
DESIGNED FOR SAFETY

Drive mechanism is fully enclosed . . . a cap covers the threaded portion of the outboard spindle when it is not in use . . . switch has protruding stop button and shrouded start button for quick, safe operation!



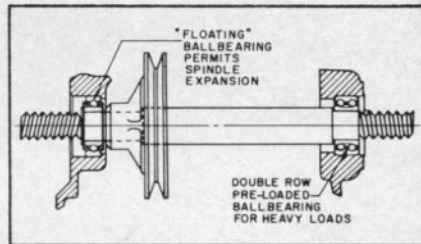
CONVENIENT CONTROLS

Recessed speed changing wheel is conveniently located. Inclined, graduated speed indicator is easy to read permitting quick, accurate setting of the variable speed drive to any desired speed between 340 and 3200 rpm.



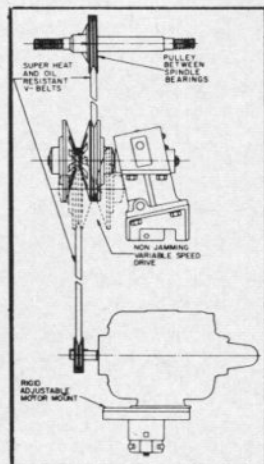
SCIENTIFICALLY DESIGNED HAND WHEEL

Large and easy to grip, the indexing, variable speed control and tail stock 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!



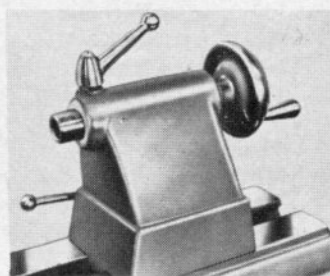
MAXIMUM THRUST HEAD STOCK SPINDLE

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 the spindle warms up!



VARIABLE SPEED DRIVE

A counter shaft between motor and spindle permits steady power transmission to the spindle at all speeds — avoids burning and jamming of belts. Note that spindle drive is applied between the inboard and outboard bearings. This superior construction permits bearings to be spaced widely apart . . . assures better distribution of belt load . . . and, with the drive placed between the bearings, spindle whip is reduced to the absolute minimum. Motor mounting is exceptionally rigid yet fully adjustable to accommodate motors of different recommended frame sizes.



STURDY TAIL STOCK

A quick-acting cam clamp permits rapid positioning and locking of the tail stock to the bed . . . positive 360° wrap-around clamp securely locks the ram . . . non-jamming ram releases automatically and is graduated in 1/16". The No. 2 Morse Taper ram automatically ejects centers when retracted.

NEW DELTA 12" standard variable speed gap bed wood lathe

**Exceptionally low in price
yet ruggedly built
to meet the needs of
industry, commercial
shops and schools.**

An excellent lathe for wood turning, metal spinning, sanding, grinding, polishing, buffing, drilling and dozens of other operations. With the aid of Delta Tungsten Alloy tipped turning chisels, light metals and plastics also can easily be worked. And with the use of Delta's extensive line of more than 50 specially engineered accessories, the New Delta 12" Variable Speed Wood Lathe becomes unequalled in versatility and job performance.

Check the features of this new Delta lathe. See why it will perform dependably year-in and year-out in all types of operations.

MASSIVE CONSTRUCTION . . . Ruggedly built headstock and tailstock; husky, one-piece bed, and welded, steel cabinet assure smoother running. Double row, preloaded ball bearing at the inboard end of the headstock spindle, plus a single row ball bearing at the outboard end permit maximum thrust for heavy turning.

CONVENIENT VARIABLE SPEED DRIVE . . . Up front speed scale and large hand wheel make it easy to dial the exact speed you desire — while the lathe is running. You obtain the right speed — from 660 RPM to 3550 RPM — for every operation.

SAFETY ENGINEERED THROUGHOUT . . . Completely enclosed headstock and cabinet provide 100% protection from pulley and belts. Speed control may be locked at any position desired to prevent incorrect speed adjustment by students. Both inboard and outboard end of spindle have thread protectors for added safety.

These and many other highly desired features make the New Delta 12" Variable Speed, Gap Bed Wood Lathe truly an outstanding value!

specifications

Swing over bed	12"
Swing over bed gap	15½" dia., 4" thick stock
Distance between centers	38"
Variable speed drive	660 RPM to 3550 RPM
Spindle diameter	1"-8 Thread
Spindle hole	5/8"
Head Stock and Tail Stock Tapers	No. 2 M.T.
Height—center line of spindle to floor	42½"
Approx. shipping weight	270 lbs.

OVERALL DIMENSIONS

Height	47"
Width	14½"
Length	60"

catalog listing

BASIC MACHINE, WITHOUT CABINET: 12" Standard Variable Speed Gap Bed Wood Lathe, including No. 933 spur center, No. 934 cup center, No. 46-551 tool support base, No. 690 4" tool support, No. 692 12" tool support, No. 936 3" face plate, one No. 272 V-belt (28½" O.C.), one No. 49-101 V-belt (29½" O.C.) and wrenches. Without motor, motor pulley, switch and base cabinet. 169 lbs.

CAT. NO. 46-510

BASIC MACHINE WITH CABINET: Same as No. 46-510 but with No. 5300 motor pulley (specify ½, ⅜ or ¾" bore) and No. 50-500 base cabinet. Without motor and switch. 270 lbs.

CAT. NO. 46-500

Note: Items bearing individual catalog numbers, as included in No. 46-510 and No. 46-500, can be ordered separately; see price list.

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

Motor, ½ HP, capacitor start, 115/230V, 60 cy, AC, 1725 rpm, ⅜" shaft. Without switch or power cord. 31 lbs.

CAT. NO. 62-810

Motor, ¾ HP, capacitor start, 115/230V, 60 cy, AC, 1725 rpm, ¾" shaft. Without switch or power cord. 44 lbs.

CAT. NO. 62-830

Toggle Switch, single pole, complete with cord and box. 1 lb.

CAT. NO. 49-369

Push Button Switch, (3-pole, complete with 6-wire cord assembly), switch box, box connector and cover. 1½ lbs.

CAT. NO. 49-378

Cord and Plug Set. Includes 10' #14-3 cord and polarized 115V grounding plug. 2½ lbs.

CAT. NO. 49-357

FOR 3 PHASE OPERATION

Motor, ½ HP, 208-220/440V, 50/60 cy, AC, 1425/1725 rpm, ⅜" shaft. Without switch or power cord. 28 lbs.

CAT. NO. 66-820

Motor, ¾ HP, 208-220/440V, 50/60 cy, AC, 1425/1725 rpm, ¾" shaft. Without switch or power cord. 42 lbs.

CAT. NO. 66-840

Toggle Switch, 3-pole, complete with switch box, cover and box connectors. 1½ lbs.

CAT. NO. 49-377

Push Button Switch, 3-pole, complete with 6-wire cord assembly, switch box, box connector and cover. 1½ lbs.

CAT. NO. 49-378

Switch, Overload. Used with No. 49-377 or 49-378 Switch. Specify motor number and voltage when ordering. 3 lbs.

CAT. NO. 49-365

Starter, Magnetic. Provides low-voltage, no-voltage and overload protection. For use with 208-220V, 60 cy, only. Specify motor number when ordering. 6 lbs.

CAT. NO. 49-393

Starter, Magnetic. Provides low-voltage, no-voltage and overload protection. For use with 440V, 60 cy only. Specify motor number when ordering. 6 lbs.

CAT. NO. 49-394

CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

FOR SINGLE PHASE OPERATION

12" Standard Variable Speed Wood Lathe complete. Includes No. 46-500 lathe, No. 62-810 ½ HP motor, No. 49-357 cord and plug set and No. 49-378 push button switch. 305 lbs.

CAT. NO. 46-511

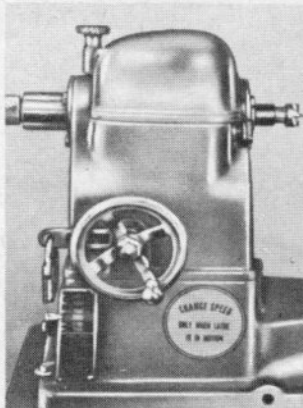
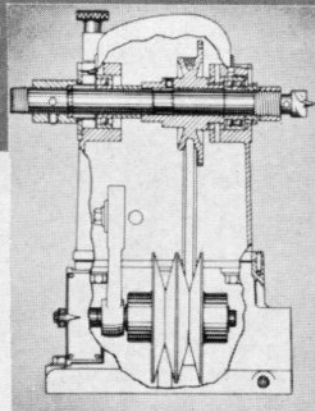
FOR 3-PHASE OPERATION

12" Standard Variable Speed Wood Lathe complete. Includes No. 46-500 lathe, No. 66-820 ½ HP motor and No. 49-378 push button switch. 299 lbs.

CAT. NO. 46-513

the NEW DELTA 12" STANDARD VARIABLE SPEED WOOD LATHE

gives you BIG CAPACITY . . . RUGGEDNESS . . . VARIABLE SPEED DRIVE — features of expensive lathes — all at exceedingly LOW COST!

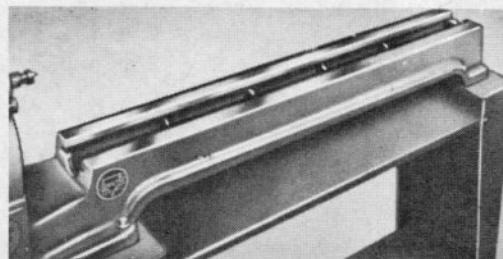


UP-FRONT SPEED CONTROLS

Variable Speed hand wheel is conveniently located on the massive head stock for quick dialing of any speed from 660 RPM to 3550 RPM . . . easy-to-read scale shows the speed at a glance . . . wide speed range enables you to select the *right* speed for every operation. Speed control may be locked at any speed to eliminate possibility of inexperienced operators making incorrect speed adjustments.

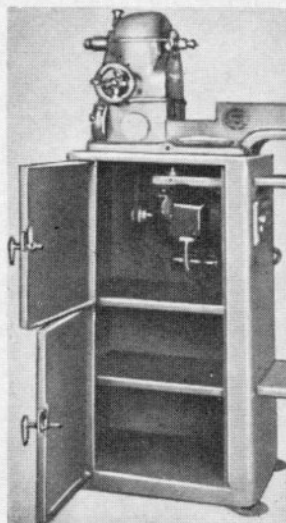
PRECISION ENGINEERED CONSTRUCTION

Double row, pre-loaded ball bearing at the work end plus a single row ball bearing on the outboard spindle, handle heaviest work loads. Spindle drive is applied between the inboard and outboard bearings, virtually eliminating spindle whip and providing better distribution of belt load. Spring loaded indexing plunger near inboard spindle permits quick engaging of any of 48 indexing positions.



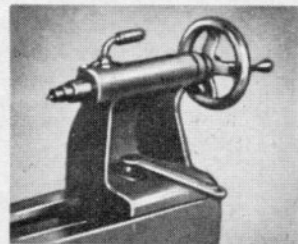
MASSIVE ONE-PIECE BED

Entire bed is accurately cast in one piece. Bed ways are machined on the top, sides and bottom for accuracy and easy movement of tail stock and tool support. Big gap permits turning or spinning of large stock up to 15½" in diameter by 4" thick!



CONVENIENT BASE CABINET

Vibration-free, all steel base cabinet has upper door for quick access to motor . . . completely guards motor and belts, keeps out harmful dust and chips. Observe how closely motor is positioned to headstock to practically eliminate vibration. Lower door opens to convenient tool storage area with shelf. Note the safety designed "on-off" push button switch (available as an accessory), conveniently located on side of cabinet.



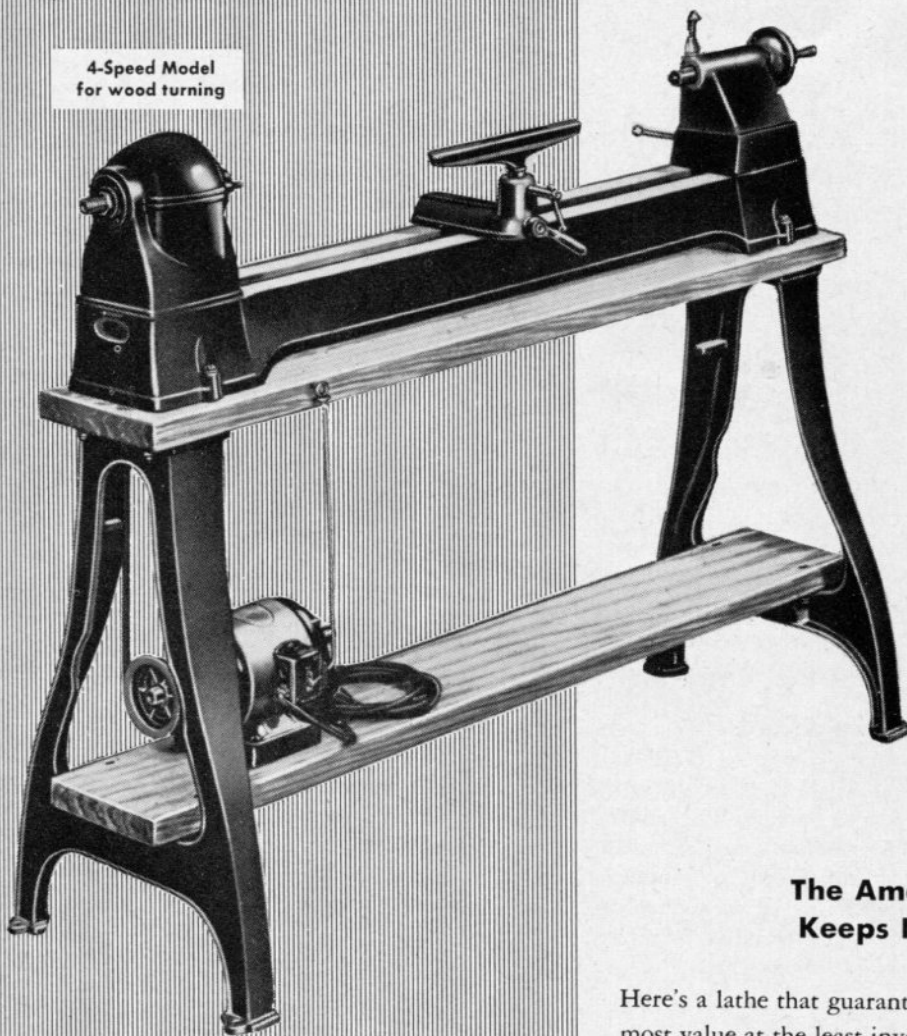
RIGID TAILSTOCK

Tailstock is carefully machined for precision fit between bed ways. No. 2 Morse Taper ram has a big 2¾" travel . . . quickly locks in any position. Center ejects automatically when ram is retracted.

DELTA 12" standard wood lathe

**TWO MODELS—4-speed for wood turning
16-speed for wood & light metal work**

4-Speed Model
for wood turning



Here is a lathe that is *rigid . . . accurate . . . safe . . . dependable*. It is the perfect lathe for general wood working applications.

With the use of Tungsten Alloy tipped turning chisels, light metals can be turned at wood turning speeds. By adding the counter shaft unit, the 4-speed model can be converted into an efficient, accurate 16-speed lathe for light metal turning. And with the addition of the compound slide rest, practically everything except screw cutting can be done. The slower speeds are ideal for large face plate turning of woods, the faster speeds, for sanding, polishing and finishing all types of materials.

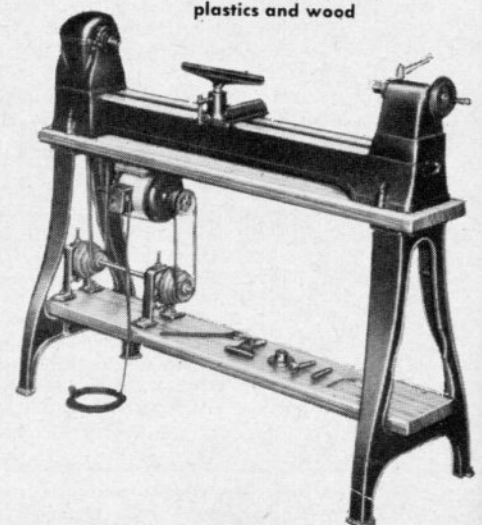
The complete versatility of the Delta 12" Standard Wood Lathe, plus its many built-in quality features, make it the preferred choice in schools, cabinet and millwork shops and furniture factories.

The Amazing Versatility of the Delta 12" Lathe Keeps It Working Full Time In Your Operation

Here's a lathe that guarantees you the most value at the least investment because it can be kept busy doing a wide variety of jobs in your shop. With this one, efficient machine you can do the jobs normally performed by several specialized tools, in addition to normal turning operations.

With the engineered counter shaft unit it becomes an efficient 16-speed lathe ideal for working plastics and light metals in addition to wood turning. Delta's complete line of specially designed, low cost accessories make the Delta 12" Lathe a true multi-purpose tool accurate and efficient in every job.

16-Speed Model
for turning light metals,
plastics and wood



specifications

Speeds: 4-Speed Lathe . . .	915, 1380, 2150, 3260 rpm
16-Speed Lathe	340 to 3400 rpm
Swings Over Bed	12"
Between Centers	37"
Overall Length	57"
Width	10½"
Height	14¾"
Height on Stand	46"
Tool Rest From Floor	42"
Accurately Ground Ways both front and back	2" wide
Spindle Diameter	1¼"
Spindle Hole, No. 2 Morse Taper	5/8"
Spindle Thread	1"—8
Ball Bearings	Pre-Loaded Sealed-for-life

catalog listing

BASIC MACHINE, WITHOUT STAND: 12" Lathe with No. 1461 tool support base, No. 690 4" tool support, No. 692 12" tool support, No. 933 drive center, No. 934 cup center, No. 936 3" face plate, No. 644 66 $\frac{3}{8}$ " OC V-belt and wrenches. Without motor, motor pulley, switch rod and bench. 146 lbs. **CAT. NO. 1460**

BASIC MACHINE WITH STAND FOR 4-SPEED OPERATION: Same as No. 1460 but with No. 932 4-step motor pulley (specify bore) and No. 1463 lathe bench. Without motor and switch rod. 245 lbs.

CAT. NO. 46-305

BASIC MACHINE WITH STAND FOR 16-SPEED OPERATION: Same as No. 1460 but with No. 718 motor pulley (specify bore), No. 1463 lathe bench and No. 1464 countershaft assembly for 16-speed operation. Without motor and switch rod. 267 lbs. **CAT. NO. 46-310**

Note: Items bearing individual catalog numbers, as included in No. 1460, No. 46-305 and No. 46-310 can be ordered separately; see price list.

MOTORS AND MOTOR CONTROLS

FOR SINGLE PHASE OPERATION

Motor, 1/2 HP, 115/230 V, capacitor, AC, 60 cy, 1725 rpm. Includes on-and-off switch, 115 V 8-foot cord, 3-prong grounding type plug and adapter. 29 lbs. **CAT. NO. 62-610**

Motor, 1/2 HP, 115/230 V, capacitor, AC, 60 cy, 1725 rpm. Includes on-and-off switch, 115 V 8-foot cord, 3-prong grounding type plug and adapter. 52 lbs. **CAT. NO. 82-710**

Motor 3/4 HP, 115/230 V, capacitor, AC, 60 cy, 1725 rpm. Includes on-and-off switch, 115 V 8-foot cord, 3-prong grounding type plug and adapter. 50 lbs. **CAT. NO. 82-910**

Switch Rod with mounting parts for use with No. 46-305 lathe. 1 lb. **CAT. NO. 1334**

FOR 3 PHASE OPERATION

Motor, 1/2 HP, 208-220/440 V, AC, 50/60 cy, 1425/1725 rpm. Without switch or power cord. 25 lbs. **CAT. NO. 66-320**

Motor, 1/2 HP, 208-220/440 V, AC, 50/60 cy, 1425/1725 rpm. Without switch or power cord. 44 lbs. **CAT. NO. 86-520**

Motor, 3/4 HP, 208-220/440 V, AC, 50/60 cy, 1425/1725 rpm. Without switch or power cord. 42 lbs. **CAT. NO. 86-720**

Starter, Manual. Provides overload protection. Specify motor number and voltage when ordering. 6 lbs. **CAT. NO. 1320**

Starter, Magnetic. For 60 cy, 208-220 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-393**

Starter, Magnetic. For 60 cy, 440 V only. Provides low-voltage, no-voltage and overload protection. Specify motor number when ordering. 6 lbs. **CAT. NO. 49-394**

ACCESSORIES

Four-Step Motor Pulley (specify bore). 2 lbs. **CAT. NO. 932**

Lathe Bench, complete with top, shelf, cast iron legs and bolts. 97 lbs. **CAT. NO. 1463**

Countershaft Unit, consisting of two No. 49-370 hangers, No. 378 3/4 x 20" shaft, No. 718 pulley (specify bore for motor), No. 720 pulley (3/4" bore for shaft), No. 932 pulley (3/4" bore), No. 284 V-belt, two collars, bolts and nuts. 22 lbs. **CAT. NO. 1464**

CONVENIENT ALL-INCLUSIVE CATALOG NUMBERS

FOR SINGLE PHASE OPERATION

4-Speed 12" Lathe complete. Includes 1460 lathe, 1463 lathe bench, 932 motor pulley, 82-710 1/2 HP motor and 1334 switch rod. 298 lbs. **CAT. NO. 46-311**

16-Speed 12" Lathe complete. Includes 1460 lathe, 1463 lathe bench, 1464 countershaft assembly, 82-710 1/2 HP motor and 1334 switch rod. 318 lbs. **CAT. NO. 46-321**

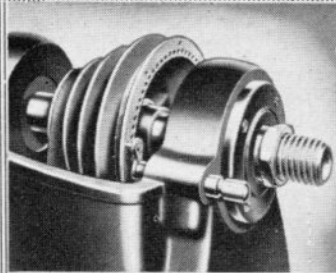
FOR 3 PHASE OPERATION

4-Speed 12" Lathe complete. Includes 1460 lathe, 1463 lathe bench, 932 motor pulley, 86-520 1/2 HP motor and 1320 starter (specify voltage). 295 lbs. **CAT. NO. 46-313**

16-Speed 12" Lathe complete. Includes 1460 lathe, 1463 lathe bench, 1464 countershaft assembly, 86-520 1/2 HP motor and 1320 starter (specify voltage). 315 lbs. **CAT. NO. 46-323**

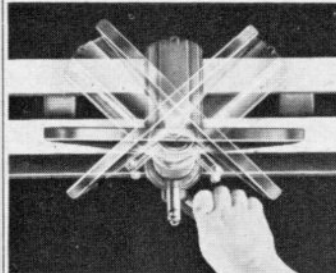
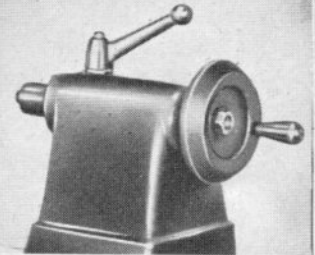
For complete listing of motors and switches, see inside back cover.

These Features Guarantee Accurate, Safe Dependable Operation!



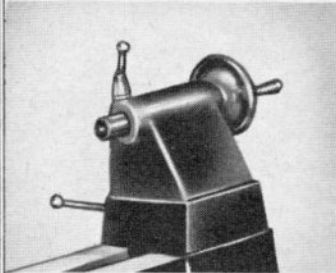
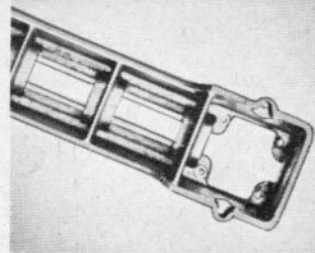
FAMOUS INDEXING MECHANISM — two rows of holes in headstock pulley, 8 holes and 60 holes, can be engaged at will by the unique indexing pin. You can now obtain the maximum number of index divisions.

HEAVY DUTY TAILSTOCK — made of fine-grained cast iron, this massively constructed tailstock provides all the support and rigidity needed for accurate lathe work. It has been perfectly aligned with the headstock, at the factory, to guarantee precision lathe performance.



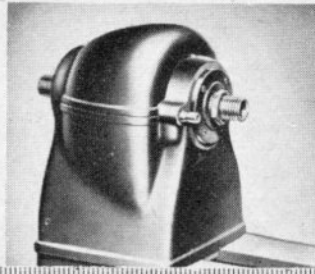
UNIVERSAL TOOL SUPPORT — is exceptionally handy and fast in action. Heavy and substantial, it locks to bed at any position or angle with convenient lever at the front where it does not interfere with work.

MASSIVE LATHE BED — made of fine-grained cast iron, heavily ribbed to provide the greatest rigidity and accuracy. 53 1/2" long, 8 1/2" wide, 4 7/8" high. Finely machined ways 2" wide front and back.

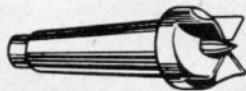


MODERN TAILSTOCK CONTROLS — quick-acting cam clamp firmly locks tailstock to bed, positive 360° wrap-around clamp securely holds ram in position selected, non-jamming No. 2 Morse Taper ram automatically ejects centers when retracted.

SAFETY HEADSTOCK — completely encloses pulley and belt from front and top of lathe. Belt drive can be taken from either the bottom or the rear — an added convenience.



DELTA WOOD LATHE ACCESSORIES



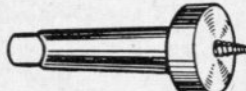
CAT. NO. 933



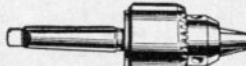
CAT. NO. 939



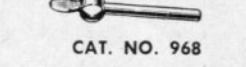
CAT. NO. 934



CAT. NO. 940



CAT. NO. 968



CAT. NO. 935



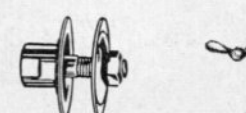
CAT. NO. 1461



CAT. NO. 46-551



CAT. NO. 694



CAT. NO. 144



CAT. NO. 3101



CAT. NO. 4005



CAT. NO. 690



CAT. NO. 130



CAT. NO. 697



CAT. NO. 695



CAT. NO. 692



CAT. NO. 937



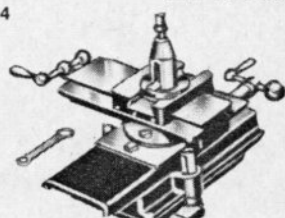
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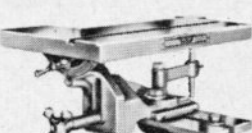
CAT. NO. 1468



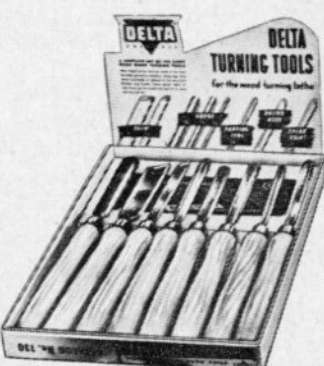
CAT. NO. 938



CAT. NO. 46-961



CAT. NO. 46-432



CAT. NO. 130

DRIVE CENTER

Fits any lathe headstock with No. 2 Morse Taper hole. Has replaceable center pin, four accurately milled teeth. $\frac{3}{8}$ lb. **CAT. NO. 933**

PLAIN CENTER

60-degree for metal turning. Fits any lathe headstock with No. 2 Morse Taper hole. Hardened and ground. $\frac{3}{8}$ lb. **CAT. NO. 939**

CUP CENTER

Fits any tailstock with No. 2 Morse Taper hole. Has replaceable center pin. Hardened and polished. $\frac{3}{8}$ lb. **CAT. NO. 934**

SCREW CENTER

Fits any lathe headstock with No. 2 Morse Taper hole. Excellent for turning small, delicate work. With 1-5/16" long, replaceable screw. Has 1 1/2" dia. face. $\frac{1}{2}$ lb. **CAT. NO. 940**

GEARED CHUCK

With key. Fits any lathe headstock with No. 2 Morse Taper hole. Invaluable for drilling on the lathe. Capacity—0 to 1 1/2". 2 1/2 lbs. **CAT. NO. 968**

SCREW-ON ARBOR

With 1/2" shaft for grinding wheels, buffing wheels, wire brushes, etc. Flanges are trued for accuracy. For 1" diameter—8 thread shaft. 1 lb. **CAT. NO. 144**

Screw-on Arbor, right hand. **CAT. NO. 145**

TOOL SUPPORT BASES

For 12" Deluxe Variable Speed and 4 and 16-Speed Wood Lathes. Has V-shaped hole for 1" dia. shanks. With universal locking mechanism. 5 lbs. **CAT. NO. 1461**

For 12" Standard Variable Speed Wood Lathes only. 5 lbs. **CAT. NO. 46-551**

STANDARD TOOL SUPPORT

12" wide with 1" dia. shank. Heavy and strong. Designed for minimum interference with tools and hands. 3 lbs. **CAT. NO. 692**

TOOL SUPPORT

4" wide with 1" diameter shank. Very strong. Made for doing small, fine work. 1 3/4 lb. **CAT. NO. 690**

TOOL SUPPORT

Right angle. Has 1" diameter shank. Heavy and sturdy. Especially useful for face plate work. 3 lbs. **CAT. NO. 695**

TOOL SUPPORT

24" wide. For extra long turnings. Has two 1" diameter shanks. Requires an extra No. 1461 Tool Support Base for use on lathe. 7 lbs. **CAT. NO. 694**

STEADY RESTS

Prevent spring and vibration when working long, thin stock. Have heavy cast iron base with sliding arms of steel.

For 12" Deluxe Variable Speed, also 4 and 16-Speed Wood Lathes. Capacity up to 2 1/4" dia. 7 lbs. **CAT. NO. 1468**

For 12" Standard Variable Speed Wood Lathes. Capacity up to 2 3/4" dia. 10 lbs. **CAT. NO. 46-550**

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. 43 lbs. **CAT. NO. 697**

HAND WHEEL

5" dia. Fits L.H. end of lathe spindle with 1"—8 thread. Ideal for large face plate turnings, quick positioning of work or rapid stopping of lathe. 3 lbs. **CAT. NO. 938**

FACE PLATE

3" dia. For small and medium face plate work. Faced true. Provided with three holes for screws. Right-hand thread only. For 1"—8 thread shaft. 1 1/2 lbs. **CAT. NO. 936**

FACE PLATE

6" diameter. For doing large face plate work. Has special thread to fit both right and left-hand threaded spindles and for use on either end. For spindle with 1"—8 thread. 3 lbs. **CAT. NO. 937**

ADAPTER

Has No. 2 Morse Taper shank on one end with other end 1/2" diameter by 1 1/8" long. Permits use of all attachments with 1/2" bore. $\frac{3}{8}$ lb. **CAT. NO. 935**

WIRE WHEELS

For removing rust and burrs, etc., from metals. Two sections. 6" diameter with 1/2" hole. 1 lb. **CAT. NO. 3113**

Wire Wheel, coarse. **CAT. NO. 3114**

Wire Wheel, fine. **CAT. NO. 3115**

Fiber Brush. **CAT. NO. 3115**

GRINDING WHEELS

6" diameter by 1/2" wide with 1/2" hole to fit No. 144 and 145 arbors. High quality and fast cutting. 1 3/4 lbs. **CAT. NO. 3101**

Grinding Wheel, 46 grit. **CAT. NO. 3102**

Grinding Wheel, 60 grit. **CAT. NO. 3102**

BUFFING WHEEL

For polishing plated parts and for cleaning and buffing all types of metal. 6" dia. by 1/2" wide with 1/2" hole. 1 lb. **CAT. NO. 4005**

COMPOUND SLIDE REST

For 12" Deluxe Variable Speed and 4 and 16-Speed Wood Lathes only. 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. 33 lbs. **CAT. NO. 46-961**

SANDING TABLES

Ideal for finishing, sanding plain and compound miters, boring and routing work. Supported both front and back. Table raises and lowers to suit needs. Has graduations to show angle of tilt. Table has a 3/16" x 1/2" slot to accommodate No. 34-903 Miter Gage. **CAT. NO. 46-948**

Sanding Table complete with adjustable bracket and clamps for 12" 4 and 16-Speed Wood Lathes only. 15 lbs. **CAT. NO. 46-948**

Sanding Table for 12" Deluxe Variable Speed Wood Lathes only. Same as No. 46-948 except has longer base plate. 16 lbs. **CAT. NO. 46-432**

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 firmly join the 10 1/4" long handles and steel tongs to give long tool life. Blades are 6" long—overall length, 17". 1 1/4 lbs. **CAT. NO. 130**

1" Skew Chisel **CAT. NO. 121**

3/4" Gouge **CAT. NO. 122**

1/4" Gouge **CAT. NO. 123**

1/2" Skew Chisel **CAT. NO. 124**

1/8" Parting Tool **CAT. NO. 125**

1/2" Gouge **CAT. NO. 126**

1/2" Spear Point **CAT. NO. 127**

1/2" Round Nose **CAT. NO. 128**

Set of above 8 tools. 6 lbs. **CAT. NO. 130**

FOR STANDARD AND CABINET MODELS

SLOW-START SWITCH KIT

For 12" Deluxe Variable Speed Wood Lathes only. Provides maximum safety for lathe operators in schools, training institutions, etc., because with it the lathe can be started by the student *only* at the slowest speed. In case of emergency, stop button can be pressed to stop lathe immediately. Start button may be put in "off" position and cover locked to prevent unauthorized use. For complete electrical description, see inside back cover. 6 lbs. **CAT. NO. 46-470**

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 Delta No. 697 Floor Stand is recommended for this operation.

Filler Block for mounting *in gap or beyond* bed of 12" Deluxe Variable Speed Wood Lathe only. For lathes below Serial No. 124-9001. 7 lbs. **CAT. NO. 46-441**

Filler Block for 12" Deluxe Variable Speed Wood Lathes bearing Serial No. 124-9001 and higher. 6 lbs. **CAT. NO. 46-440**

BALL BEARING CENTER

Accurate, husky and true running with no chatter. Has double-row, sealed, lubricated-for-life ball bearings. Takes exceptionally heavy radial and thrust loads. Shank has a No. 2 Morse Taper.

Ball Bearing Center with three replaceable centers and wrench. 1½ lbs. **CAT. NO. 1490**

TOOL REST

For use with metal spinning tools. Has multiple openings for positioning of fulcrum pin. **CAT. NO. 46-491**

CALIBRATED TOOL SUPPORT

12" wide with 1" diameter shank. Has a calibrated, hardened steel insert for making accurate measurements and divisions on work. 3½ lbs. **CAT. NO. 46-431**

OFF-SET TOOL SUPPORT BASE

9" long with 1" diameter shank. Ruggedly built. Facilitates both front and back face plate turning on extra large stock over the gap. **CAT. NO. 46-430**

TUNGSTEN ALLOY TIPPED TURNING CHISELS

For cutting metals such as brass, bronze, aluminum, silver and steel free-hand as easily as wood and plastic. Two of these diamond-lapped tools will do the work of a regular set of turning tools. Two styles — square nose and round nose. Two sizes — ⅛" for fine work and ¼" for large, heavy work. Have an extremely long life with little or no sharpening required. 1½ lbs.

Square Nose, ⅛" **CAT. NO. 46-801**

Round Nose, ⅛" **CAT. NO. 46-802**

Square Nose, ¼" **CAT. NO. 46-803**

Round Nose, ¼" **CAT. NO. 46-804**

METAL SPINNING TOOLS

Made of exceptionally high grade hardened steel to assure long spinning edge life. Blades have specially designed tongs which wedge firmly into handles. Overall length approximately 30".

Flat Tool **CAT. NO. 46-492**

Pointed Tool **CAT. NO. 46-493**

Cut-Off Tool **CAT. NO. 46-494**

Beading Tool **CAT. NO. 46-495**

Set of above four tools. **CAT. NO. 46-496**

MITER GAGE

Used with No. 46-948 and No. 46-432 Sanding Tables to make both plain and compound miters. Pivots 60°, both right and left. 3 lbs. **CAT. NO. 34-903**

SANDING DISK

8½" in diameter. Threaded to fit headstock spindle with 1" — 8 R.H. thread only. With one garnet disk. 5 lbs. **CAT. NO. 46-934**

ABRASIVE PAPER DISKS

Garnet paper, 8½" diameter, fine and coarse, for use with No. 46-934 Sanding Disk.

Garnet Paper Disks, No. 40 Grit (coarse), one dozen. 2 lbs. **CAT. NO. 46-815**

Garnet Paper Disk, No. 80 Grit (fine), one dozen. 2 lbs. **CAT. NO. 46-817**

DISK ADHESIVE

With Disk Adhesive you have no messy glueing, no removal of metal disks from machine, no waiting overnight for new abrasive disk to dry. You can change from one abrasive disk to another every few minutes. 2 lbs. **CAT. NO. 49-503**

SANDING DRUMS

3" x 3", with No. 2 Morse Taper shank. 2½ lbs. **CAT. NO. 163**

1¾" x 2", with No. 2 Morse Taper shank. 1¾ lbs. **CAT. NO. 164**

See Page 67 for Sanding Sleeves Nos. 831, 832, 833, 836, 837 and 838.

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.

Holder for Boring Bar and Tool Bits. 1½ lbs. **CAT. NO. 46-963**

Boring Bars, set of three, ⅛", 3/16" and ¼". ½ lb. **CAT. NO. 46-966**

Tool Bits, set of four, high-speed steel, ¼" x ¼" x 1⅛", includes roughing, finishing, right corner and left corner. 1 lb. **CAT. NO. 46-954**

CHUCKS

4", 3-jaw universal type. Has three internal and three external jaws. **CAT. NO. 46-950**

4", 4-jaw Independent type. Has one set of jaws, reversible for internal or external work. **CAT. NO. 46-951**

DRAW BOLTS

For holding No. 2 Morse Taper attachments, including sanding drums and screw centers. With ¼" — 20 thread.

For 12" Deluxe Variable Speed Wood Lathes. 1 lb. **CAT. NO. 46-916**

For 12" 4 and 16-Speed Wood Lathes. 1 lb. **CAT. NO. 46-850**

KNOCKOUT BAR

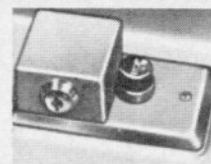
For removing centers and other attachments. 2 lbs. **CAT. NO. 46-905**

BENCH LEGS

For 12" 4 and 16-Speed Lathes only. Made of solid, heavy cast iron, they prevent bench twist. Has bracket for bottom shelf. Can also be used for other benches and tables. All holes are ⅜".

Bench Legs, one pair. 65 lbs. **CAT. NO. 945**

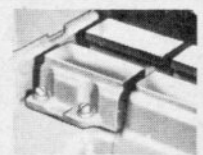
Board Shelves, upper and lower, with hardware for use with No. 945 Bench Legs. 33 lbs. **CAT. NO. 46-970**



CAT. NO. 46-470



CAT. NO. 1490



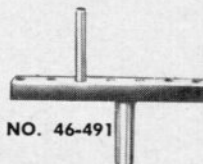
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CAT. NO. 46-430



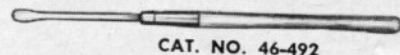
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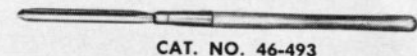
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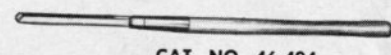
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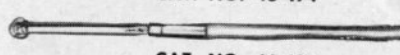
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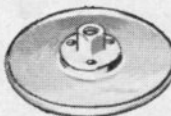
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CAT. NO. 46-494



CAT. NO. 46-495

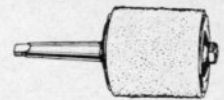


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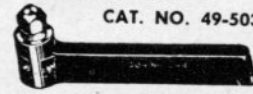
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CAT. NO. 49-503



CAT. NO. 163



CAT. NO. 46-963



CAT. NO. 46-954



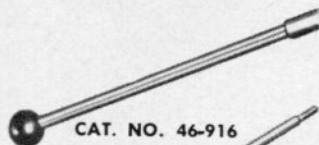
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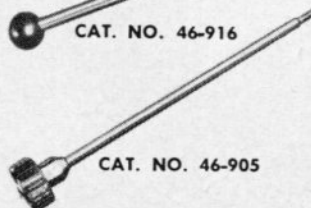
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CAT. NO. 46-950



CAT. NO. 46-916

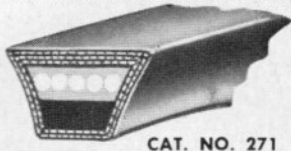


CAT. NO. 46-905



CAT. NO. 945

DELTA ENGINEERED ACCESSORIES



CAT. NO. 271



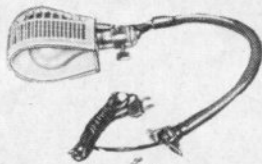
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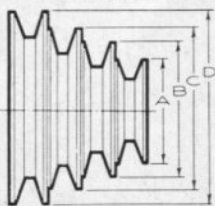
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CAT. NO. 49-358



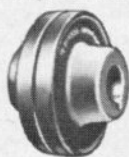
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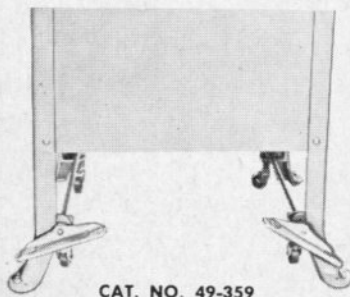
CAT. NO. 718



CAT. NO. 49-370



CAT. NO. 49-379



CAT. NO. 49-359

V-BELTS

Designed to make perfect contact with side of V-groove, these V-belts transmit maximum power with minimum slip. Cords are saturated with pure liquid rubber, imbedded in special rubber stock which resists fatigue and carries off heat.

Cat. No.	Out. Cir.	Cat. No.	Out. Cir.
271	25 ¹ / ₈ "	†49-111	41" & 58 ³ / ₈ "
272	28 ¹ / ₈ "	VF49-115	39 ⁵ / ₈ "
273	32 ¹ / ₈ "	*49-124	26 ³ / ₈ "
284	31 ⁵ / ₈ "	49-130	58 ¹ / ₈ "
287	31 ¹ / ₈ "	†49-132	25 ¹ / ₈ "
*289	46 ¹ / ₈ "	SC49-135	57 ¹³ / ₃₂ "
*291	29 ¹ / ₈ "	†49-140	59 ¹ / ₂ "
*294	51 ¹ / ₈ "	49-141	60 ¹ / ₈ "
331	35 ¹ / ₄ "	49-142	51 ¹ / ₈ "
340	36 ¹ / ₂ "	49-144	56 ¹ / ₈ "
387	40 ¹ / ₂ "	49-146	65 ¹ / ₂ "
410	42 ¹ / ₈ "	49-148	62 ¹ / ₈ "
430	44 ¹ / ₈ "	49-149	33 ¹ / ₈ "
453	47 ⁵ / ₈ "	†49-150	28 ³ / ₈ "
501	52"	49-152	36 ¹ / ₈ "
510	53 ¹ / ₄ "	49-153	34 ¹ / ₈ "
520	54 ¹ / ₈ "	49-154	40 ¹ / ₈ "
530	55 ³ / ₈ "	SC49-156	68 ¹³ / ₃₂ "
560	58 ¹ / ₁₆ "	SC49-157	70 ¹³ / ₃₂ "
588	63 ¹ / ₈ "	SC49-160	44 ¹³ / ₃₂ "
595	62 ¹ / ₈ "	49-162	24 ¹ / ₈ "
618	65 ³ / ₈ "	VF49-167	45 ¹ / ₈ "
644	66 ³ / ₈ "	VF49-168	41 ¹ / ₈ "
x14-833	39"	49-170	27 ¹ / ₈ "
x14-834	39 ¹ / ₂ "	49-172	59 ¹ / ₂ "
25-500	34 ³ / ₈ "	49-173	57 ¹ / ₂ "
SC,HOR,†25-502	50 ⁵ / ₁₆ "	49-177	27 ¹ / ₈ "
49-101	29 ¹ / ₈ "	49-178	26 ¹ / ₈ "
49-102	24 ¹ / ₈ "	49-179	94 ³ / ₁₆ "
49-103	28"	HOR49-195	37 ¹ / ₈ "
49-105	30 ¹ / ₈ "	HOR49-196	41 ¹ / ₂ "
SC49-108	62 ¹³ / ₃₂ "		
SC49-109	64 ¹³ / ₃₂ "		

*Matched set of three.

†Matched set of two.

SC—Specially constructed.

HOR—Heat and oil resistant.

xFlat Belt.

‡Matched set of four.

VF—Vibration free.

Flexible Type. For use on radial saws, drill presses, lathes, jointers. Can be attached to flat surfaces such as walls or benches. Includes steel shade, 5-foot cord and plug (less bulb). Uses std. 60-watt bulb. 2¹/₂ lbs.

CAT. NO. 49-358

Deluxe Flexible Type. For use on 20" Metal-Wood Band Saw, 6" Tool Grinder, Tool-maker Grinder, drill presses, metal lathes and in other shop locations. With 15" flexible gooseneck. Includes nylon shield, mounting bracket, switch and 8-foot cord with 2-prong plug. Uses std. bulb (not included) up to 100 watts. 2 lbs.

CAT. NO. 25-857

FOUR-STEP CONE PULLEYS

Made for same size V-belts as plain pulleys. May be used in pairs as listed in table below and will provide speeds listed in third column when used with 1725 rpm motor. All available with 1/2", 5/8" and 3/4" bores. 5/8" and 3/4" bores have a 3/16" keyway. 1/2" bore furnished unless otherwise specified.

Cat. No. of Pulley	Pulley (outside) Dimensions —Inches			
	A	B	C	D
718	1.750	2.230	2.700	3.150
720	3.150	3.620	4.060	4.500
932	2.500	3.156	3.875	4.500
985	2.156	3.109	4.250	5.250

Driver	Driven	Speeds			
		905	1410	2100	3340
718	718	905	1410	2100	3340
720	720	1180	1520	2000	2530
718	720	610	910	1255	1725
720	718	1725	2370	3290	4900
932	932	915	1380	2150	3260
985	985	656	1240	2400	4500

LINE-SHAFT HANGER

This sturdy, practical Line-Shaft Hanger is self-aligning in every direction and is adjustable up and down from 4 to 5" in height. Oil wells hold a large supply of lubricant to keep bronze bearings properly lubricated. For 3/4" shafting only. 6 lbs.

CAT. NO. 49-370

FLEXIBLE COUPLINGS

Necessary where motors are connected directly to the end of line shafts or to the shafts of machines. One side has 3/4" bore to suit line shafts, other side bored to 1/2", 5/8" or 3/4". Specify bore when ordering. 1 lb.

CAT. NO. 49-379

RUBBER FEET FOR STEEL STANDS

Provide smoother, quieter operation of machines. With metal plates to fit into recesses of stand feet. Drilled and tapped for machine screws. Cannot be used with Delta Retractable Casters.

Set of four rubber feet with plates and screws. 1 lb.

CAT. NO. 50-353

V-BELT PULLEYS

Safety disc type. Have 5/16" hollow head set screw. 5/8" and 3/4" bores have a 3/16" keyway. All sizes can be furnished in 1/2", 5/8" and 3/4" bores. 1/2" bore furnished unless otherwise specified. Maximum bore available on Nos. 5200 to 5300 is 3/4".

Cat. No.	Out. Dia.	Cat. No.	Out. Dia.
5200	2"	5550	5 ¹ / ₂ "
5225	2 ¹ / ₄ "	5600	6"
5250	2 ¹ / ₂ "	5650	6 ¹ / ₂ "
5275	2 ³ / ₄ "	5700	7"
5300	3"	*5710	7 ¹ / ₂ "
5350	3 ¹ / ₂ "	5800	8"
5400	4"	6100	10"
5450	4 ¹ / ₂ "	6200	12"
5500	5"	*3/4" bore only.	

LAMP ATTACHMENTS

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. 1¹/₂ lbs.

CAT. NO. 882

AND ATTACHMENTS FOR ALL SHOPS

BENCH

Height, 30". Top, 30 x 60", 1 1/8" thick, of 3/4" Northern Hard Maple edge-grained laminations, electronically glue welded for maximum strength and flatness. Clear lacquer finish. Legs and shelf with wide apron are made of heavy gauge metal to make this bench excellent for machine shops, assembly areas, school shops and as a machine stand. 120 lbs. **CAT. NO. 25-801**

DRAWER

Size, 14" wide x 23 1/2" front to back x 5" deep. Has a padlock feature, ball bearing rollers, drawer stop and large handle. Although recommended for the No. 25-801 Bench, it is used with other benches, tables, desks or counters. Includes a removable 13 1/2 x 8 x 1" sliding tray, attachment hanger and screws for mounting to under side of bench top. 26 lbs. **CAT. NO. 25-802**

BACK AND SIDE STOPS

For No. 25-801 Bench. When assembled to the bench top, this kit provides a "fence" about 3" high around the sides and back of the wooden top. Includes mounting hardware. 14 lbs. **CAT. NO. 25-803**

BENCH UNIT COMPLETE

Consists of Nos. 25-801 Bench, 25-802 Drawer and 25-803 Back and Side Stops. Not assembled. 153 lbs. **CAT. NO. 25-807**

RETRACTABLE CASTER SETS

Make your Delta Power Tools 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.

Retractable Caster Set to fit steel stand: No. 33-630 for 9" Radial Saw. **CAT. NO. 49-359**

Retractable Caster Set to fit steel stand: No. 50-432 for Disk Sander, No. 50-810 for 9" Circular Saw. **CAT. NO. 49-362**

Retractable Caster Set to fit steel stands: No. 50-891 for No. 28-297 and 28-387 Band Saws, No. 50-656 for No. 37-221 6" Jointer, No. 50-406 for Belt Finishing Machine, No. 50-716 for 24" Scroll Saw. **CAT. NO. 49-363**

Retractable Caster Set to fit steel stands: No. 50-315 for 10" Bench Saws, No. 50-320 for No. 37-605 Saw-Jointer Combination Unit. **CAT. NO. 49-364**

GRAY MACHINE ENAMEL

A high quality gray enamel that is color blended to match the production finish of Rockwell-built Delta Power Tools. Ideal for covering scratches, nicks, chips, etc., to make machine surfaces look like new. Prevents bare surfaces from rusting.

Quart size. 5 lbs. **CAT. NO. 49-333**
Gallon size. 14 lbs. **CAT. NO. 49-334**

Push Button Self Spray Can (12 av. ozs.) for easy retouching of Delta Power Tools. (Dealers note: Single cans are not shipped from the factory. Order Cat. No. 49-324.) 1 lb. **CAT. NO. 49-323**

Carton of 12 each of Cat. No. 49-323. 12 lbs. **CAT. NO. 49-324**

STOP RUST

Pint can. 1 1/4 lbs. **CAT. NO. 109**
Case of 12 pints. 16 lbs. **CAT. NO. 110**

RUST REMOVER

Half pint bottle. 1 1/2 lbs. **CAT. NO. 49-320**
(Dealers note: Single bottles are not shipped from the factory. Order Cat. No. 49-304.)
Carton of 10 each of Cat. No. 49-320. 15 lbs. **CAT. NO. 49-304**
Gallon bottle. 15 lbs. **CAT. NO. 49-322**

GUM AND PITCH REMOVER

Keeps tools clean, new looking. Improves their cutting performance. 1/2 lb. **CAT. NO. 4051**

DUST COLLECTOR

Operated by a dynamically balanced 1 HP, 750 watts, AC or DC motor that features a fully protected mechanism which moves more than 60 cubic feet of air per minute—powerful enough to pick up 1" solid steel balls. Drum holds 2.83 bushels of waste. Unit can be converted in seconds into a blower for paint spraying and similar jobs. Adapters permit it to be used with many machines. **CAT. NO. 49-576**

Dust Collector complete: 1 HP, 750-watt, AC/DC motor, switch and cord, 2.83 bushel capacity drum and 6-foot hose. 27 lbs. **CAT. NO. 49-576**

Casters for portability. 4 lb.

Adapter for No. 34-600 9" and No. 34-425 10" Circular Saws. **CAT. NO. 49-587**

Adapter for No. 37-290 4" and No. 37-220 6" Jointers. **CAT. NO. 49-588**

Adapter for No. 1400 6" Abrasive Belt Finishing Machine and for Belt Unit of No. 31-700 Combination Belt and Disc Finishing Machine. **CAT. NO. 49-589**

Adapter for No. 1426 12" Abrasive Disk Finishing Machine. **CAT. NO. 49-590**

Adapter for Disc Unit of No. 31-700 Combination Belt and Disc Finishing Machine. **CAT. NO. 31-680**

Adapter for No. 33-916 9" and No. 33-582 10" Portable Radial Saws. **CAT. NO. 49-594**

Adapter for connecting two lengths of old style swivel hose. **CAT. NO. 49-595**

Adapter for connecting two 6-foot lengths of new plastic hose. **CAT. NO. 49-598**

12-inch Tube with clamp for Band and Scroll Saws. **CAT. NO. 49-591**

GENERAL ACCESSORIES

Crevise Tool for hard-to-reach places. **CAT. NO. 49-580**

Fan Tail, 3-inch, for flat even surfaces. **CAT. NO. 49-581**

Fan Tail, 8 1/2-inch, with brush insert, for large, level surfaces. **CAT. NO. 49-582**

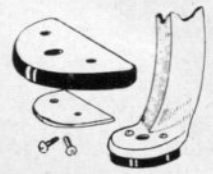
Round Brush for irregular surfaces. **CAT. NO. 49-592**

Replaceable Filter Bags, package of 5. **CAT. NO. 49-586**

Six-foot standard hose. **CAT. NO. 49-596**

Extension Tubes, set of 2, for floor cleaning. **CAT. NO. 49-583**

Spray Attachment. **CAT. NO. 49-584**



CAT. NO. 50-353



CAT. NO. 25-807



CAT. NO. 25-802



CAT. NO. 109



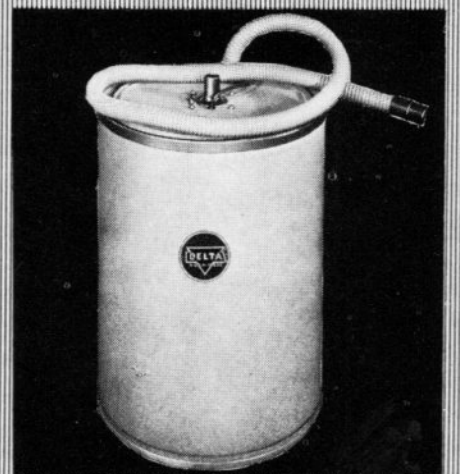
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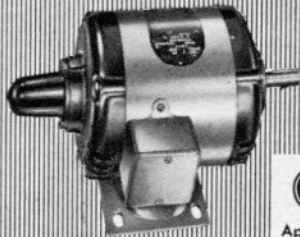
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CAT. NO. 49-322



CAT. NO. 49-324



CAT. NO. 49-576



Approved
in Canada

DELTA Motors

Designed Specifically for Delta Products

These dependable 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 obtainable at anywhere near their price!

- ✓ All ball bearings are sealed and lubricated for life. Bearing designs permit Delta Motors to be mounted either vertically or horizontally.
- ✓ Motor enclosures are designed to offer the maximum safety possible under all operating conditions.
- ✓ All Delta General Purpose Motors comply with or exceed the maximum motor manufacturing power standards (breakdown torque) as established by the National Electrical Manufacturers Association (NEMA).
- ✓ All double-shaft motors are supplied with one shaft guard for maximum safety to the operator.
- ✓ Motor windings have high grade insulation and are carefully wound and tested.
- ✓ 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 DELTA SINGLE PHASE MOTORS

(Now — 115 V cord and plug set supplied with motor is grounding type with 3-prong plug and adapter)

Catalog Number	H.P.	R.P.M.	Volts	Cycles	Shaft	Frame Size	Switch	Cord & Plug	Temp. Rise	Enclosure	Usage	Wt. Lbs.
SPLIT PHASE												
x60-013	1/8	1725	115	60	1/2" Single	6"	None Order 49-311	None—Included with 49-311	50°C	Guarded Drip-proof	Gen. Purp.	18
CAPACITOR START												
†62-110	1/8	1725	115/230	60	1/2" Double	6"	DPST	Yes	40°C	Guarded Drip-proof	Gen. Purp.	28
*62-253	3/8	3450	115	60	5/8" Double	6"	§SPST	Yes	50°C	"	Gen. Purp.	31
*62-273	1	3450	115	60	3/4" Double	6"	§SPST	Yes	50°C	"	"	34
*62-413	1/2	1725	115	60	1/2" Single	6"	SPST	Yes	50°C	"	"	23
†62-610	1/2	1725	115/230	60	1/2" Double	6"	DPST	Yes	40°C	"	"	29
†*62-653	1/2	1725	115	60	5/8" Double	6"	SPST	Yes	50°C	"	"	37
†62-680	1/2	1725	115/230	60	1/2" Single	6"	DPST	Yes	40°C	"	"	39
82-710	1/2	1725	115/230	60	3/4" Double	8 1/2"	DPST	Yes	40°C	"	"	52
82-910	3/4	1725	115/230	60	3/4" Double	8 1/2"	DPST	Yes	40°C	"	"	50
83-112	1	1140	115/230	60	3/4" Double	8 1/2"	DPST	Yes	40°C	"	20" Drill Press	70
83-311	1	3450	115/230	60	3/4" Double	8 1/2"	None Order 34-881	Yes	40°C	"	10" Bench TAS	51
#83-411	1 1/2	3450	115/230	60	3/4" Double	8 1/2"	None Order 34-881	Yes	40°C	"	10" Bench TAS	61
83-510	1	1725	115/230	60	3/4" Double	8 1/2"	DPST	Yes	40°C	"	Gen. Purp.	70
#83-560	1	1725	115/230	60	3/4" Double	8 1/2"	§DPST	Yes	40°C	"	20" M-W Band Saw 8" Jointer	75
#83-611	1 1/2	3450	115/230	60	3/4" Single	Special	§DPST	Yes	55°C	TENV	10" Unisaw	65
93-410	3	1725	115/230	60	1 1/8" Single	NEMA 213	None	None	40°C	Guarded Drip-proof	Gen. Purpose	122
93-510	5	1725	230	60	1 1/8" Single	NEMA 215	None	None	60°C	Guarded Drip-proof	12" C-O Mach.	185
93-610	2	1725	115/230	60	3/4" Single	8 1/2"	None Order 1328	None	60°C	"	Planer	79
98-161	3	3450	230	60	1" Single	NEMA 225	None	None	50°C	Open	14" TAS	100
REPULSION INDUCTION												
†85-080	1	3450	115/230	60	3/4" Single	8 1/2"	None Order 132	Yes	40°C	Open	Heavy Duty Wood Shaper	68
85-110	1 1/2	3450	115/230	60	3/4" Single	Special	§DPST	Yes	55°C	TENV	10" Unisaw	79
98-111	3	3450	115/230	60	1" Single	NEMA 225	None Order 49-325	None	55°C	TEFC	12" TAS	147

SPECIFICATIONS FOR DELTA 3 PHASE MOTORS

Catalog Number	H.P.	R.P.M.	Volts	Cycles	Shaft	Frame Size	Switch	Cord & Plug	Temp. Rise	Enclosure	Usage	Wt. Lbs.
66-120	1/2	1425/1725	208-220/440	50/60	1/2" Double	6"			40°C	Guarded Drip-proof	Gen. Purp.	23
†66-320	1/2	1425/1725	208-220/440	50/60	1/2" Double	6"			40°C	"	"	25
†66-340	1/2	1425/1725	208-220/440	50/60	1/2" Single	6"			40°C	"	"	31
86-520	1/2	1425/1725	208-220/440	50/60	3/4" Double	8 1/2"			40°C	"	"	44
86-720	3/4	1425/1725	208-220/440	50/60	3/4" Double	8 1/2"			40°C	"	"	42
86-920	1	1425/1725	208-220/440	50/60	3/4" Double	8 1/2"			40°C	"	"	56
86-921	1	2850/3450	208-220/440	50/60	3/4" Double	8 1/2"			40°C	"	"	43
86-922	1	1140	208-220/440	60	3/4" Double	8 1/2"			40°C	"	"	55
87-010	1	1425/1725	208-220/440	50/60	3/4" Single	Special			40°C	"	"	62
87-120	1 1/2	1425/1725	208-220/440	50/60	3/4" Double	8 1/2"			55°C	TENV	10" Unisaw	52
87-121	1 1/2	2850/3450	208-220/440	50/60	3/4" Double	8 1/2"			40°C	Guarded Drip-proof	Gen. Purp.	50
87-210	1 1/2	1425/1725	208-220/440	50/60	3/4" Single	Special			40°C	"	"	50
87-310	2	2850/3450	208-220/440	50/60	3/4" Single	Special			40°C	"	"	57
96-320	2	1425/1725	208-220/440	50/60	3/4" Single	8 1/2"			55°C	TENV	10" Unisaw	60
96-620	3	1425/1725	208-220/440	50/60	1 1/8" Single	NEMA 213			40°C	Guarded Drip-proof	Gen. Purp.	101
96-670	3	1425/1725	208-220/440	50/60	1 1/8" Single	NEMA 215			55°C	TENV	Gen. Purp.	165
96-720	5	1425/1725	208-220/440	50/60	1 1/8" Single	NEMA 215			40°C	Guarded Drip-proof	12" C-O Mach.	125
96-770	5	1425/1725	208-220/440	50/60	1 1/8" Single	NEMA 215			75°C	TENV	12" C-O Mach.	135
97-320	3	1425/1725	208-220/440	50/60	1" Single	NEMA 225			40°C	Guarded Drip-proof	Gen. Purp.	104
97-420	3	1425/1725	208-220/440	50/60	1" Single	NEMA 225			55°C	TENV	Gen. Purp.	135
98-321	5	2850/3450	208-220/440	50/60	1" Single	NEMA 225			55°C	TEFC	12" TAS	133
98-421	5	3450	208-220/440	60	1" Single	NEMA 225			50°C	Open	14" TAS	90

Not supplied. For recommended switch for particular motor application, refer to product page listing.

Not supplied. For recommended wiring for particular motor application, refer to product page listing.

Write for information on available motors not listed. Such motors, when ordered special, are not subject to cancellation.

• Motors supplied with 1/2" diameter shafts have flats; all other shafts have keyways and keys

† Motor supplied with wood shim blocks

* Supplied with integral, manual reset and thermal overload protection

x With sleeve bearings

Cord and plug set supplied with motor is grounding type with 3-prong tandem plug for 230V operation

§ Switch wired for remote control

‡ Supplied with integral reversing lever

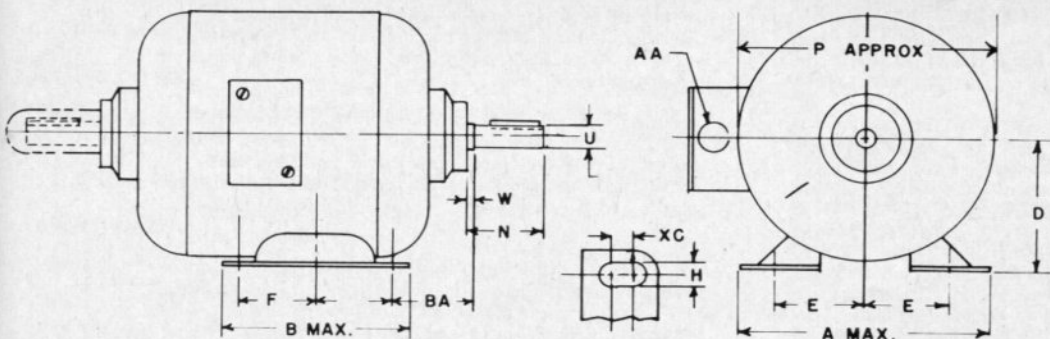
DPST—Double pole, single throw

SPST—Single pole, single throw

TENV—Totally enclosed, non-ventilated

TEFC—Totally enclosed, fan cooled

DIMENSIONAL DATA ON DELTA MOTORS



Motor Frame	A Max	AA	B Max	BA	D	E	F	H	N-W	P	U	XC
Delta 6"	6 5/16	1/2*	4 3/4	2	3 1/4	2 1/2	1 13/16	3/8	1 7/8	6	1/2**	1 17/32
Delta 8 1/2"	8 5/8	1/2†	5	3 17/32	4 1/2	3 9/16	1 7/8	7/16	2 1/4	8 1/2	3/4†	3/8
NEMA 182	9	3/4	6 1/2	2 3/4	4 1/2	3 3/4	2 1/4	1 13/32	2 1/4	8 1/2	7/8	—
NEMA 184	9	3/4	7 1/2	2 3/4	4 1/2	3 3/4	2 3/4	1 13/32	2 1/4	8 1/2	7/8	—
NEMA 213	10 1/2	3/4	7 1/2	3 1/2	5 1/4	4 1/4	2 3/4	1 13/32	3	10 1/8	1 1/8	—
NEMA 215	10 1/2	3/4	9	3 1/2	5 1/4	4 1/4	3 1/2	1 13/32	3	10 1/8	1 1/8	—
NEMA 225	11	3/4	9 1/2	3 1/2	5 1/2	4 1/2	3 3/4	1 13/32	3	10 1/2	1	—

*Delta 6" frame motors Nos. 60-013, 62-213, 62-253, 62-413 and 62-653 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.

**All Delta 6" frame motors except Nos. 62-253 and 62-653 are supplied with a 1/2" diameter shaft with a flat. Motor Nos. 62-253 and 62-653 are supplied with a 5/8" diameter shaft and 3/16 x 3/16 x 1 1/4" key. † Supplied with 3/16 x 3/16 x 1 1/2" key. ‡ Motors No. 83-210 and 86-920 are supplied with 1/2" and 3/4" knockouts.

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.

DELTA SWITCH KITS—Single Phase



132

Manual Control Toggle Switch Kit. Two-pole type switch for use with single phase and DC motors up to 1½ HP, AC-DC, 125-250 V, in special case without cover. Can be locked with padlock. Kit includes switch, switch case, 3-wire 3-foot power cord and everything needed for mounting on the following: No. 28-295 and 28-385 14" Band Saws, No. 31-506 Belt Sander, No. 37-222 6" Jointer, No. 37-316 and 36-317 8" Jointers, and No. 43-205 Wood Shaper. **CAT. NO. 132**

Manual Control Toggle Switch Kit. Single-pole type switch for use with single phase motors up to 1 HP, AC, 125-250 V. Kit includes on-and-off switch, 8 foot 115 V cord, 3-prong grounding type plug, adapter and switch lead. **CAT. NO. 49-311**

Manual Control Toggle Switch Kit. Two-pole type switch for use with single phase and DC motors up to 1½ HP, AC-DC, 125-250 V. Kit includes on-and-off switch, 8-foot 115 V cord, 3-prong grounding type plug, adapter, clamp, switch mounting plate and everything needed for mounting on Coolant Pump. **CAT. NO. 49-312**

Manual Control Toggle Switch Kit. Two-pole switch for use with single phase and DC motors up to 1½ HP, AC, 125-250 V. Kit includes on-and-off switch, 8-foot 230 V cord, 3-prong grounding type plug, clamp, switch mounting plate and everything needed for mounting on Coolant Pumps. **CAT. NO. 49-313**

Manual Control Toggle Switch Kit. Single-pole type switch for use with single phase and DC motors up to 1½ HP, 125-250 V, AC-DC. Kit includes on-and-off switch, 2-wire cable, box and everything needed for use with single phase motors on 12" Standard Variable Speed Wood Lathe. **CAT. NO. 49-369**

Manual Control Toggle Switch Kit. Includes box, clamp, cover, 2-wire cable, wiring diagram and everything needed for providing remote control of Delta single phase motors. No. 1115 Toggle Switch (not supplied) must be used with this kit. **CAT. NO. 49-385**

Manual Control Push Button Switch Kit. Two-pole type switch for use with single phase and DC motors up to 1 HP, AC-DC, 125 V and 1½ HP, AC-DC, 250 V. Kit includes switch, 4-wire cable, wiring diagram and everything needed for use with the No. 62-110 and No. 62-680 14" and 15" Drill Press Motors. **CAT. NO. 15-811**

Manual Control Push Button Switch Kit. Two-pole type switch for use with single phase and DC motors up to 1 HP, AC-DC, 125 V and 1½ HP, AC-DC, 250 V. Kit includes switch, 4-wire cable, wiring diagram and everything needed for use with 82-510, 82-710 and 82-910 17" Drill Press Motors and 83-112 and 83-510 20" Drill Press Motors. **CAT. NO. 20-611**

Manual Control Push Button Switch Kit. Two-pole type switch for use with single phase and DC motors up to 1 HP, AC-DC, 125 V and 1½ HP, AC-DC, 250 V. Kit includes switch, 4-wire cable, wiring diagram and everything needed for use with No. 83-311 and No. 83-411 10" Tilting Arbor Bench Saw Motors. **CAT. NO. 34-881**

Manual Control Push Button Switch Kit. Two-pole type switch for use with single phase and DC motors up to 1 HP, AC-DC, 125 V and 1½ HP, AC-DC, 250 V. Kit includes switch, 4-wire cable, wiring diagram and everything needed for use with 62-610, 82-710 or 82-910 12" Deluxe Variable Speed Wood Lathe Motors. **CAT. NO. 46-471**

Manual Control Push Button Switch Kit. Switch is 3-pole type for use with single phase and DC motors up to 1 HP, 115 V and 1½

HP, 230 V, AC-DC. Kit includes switch, 6-wire assembly, box cover and everything needed for use with single phase motors on 12" Standard Variable Speed Wood Lathe and 4" Belt and 12" Disc Finishing Machine. **CAT. NO. 49-378**

Slow-Start Switch Kit for manual or magnetic control. For use with single phase, three phase and DC motors up to 1 HP, AC-DC, 125-250 V. Kit includes limit switch with operating mechanism, cable, switch cover with lock assembly, and wiring diagrams recommended for use with 12" Deluxe Variable Speed Wood Lathe motors and controls. **CAT. NO. 46-470**

DELTA SWITCH KITS—3 Phase

Manual Control Toggle Switch Kit. Three-pole switch kit for use with 3 phase motors up to 1 HP, 208-550 V. Kit includes switch, box, cover and box connectors for use with No. 66-820 Motor on the 12" Standard Variable Speed Wood Lathe. **CAT. NO. 49-377**

Manual Control Push Button Switch Kit. Switch is 3-pole type for use with 3 phase motors up to 2 HP, 208 to 550 V. Kit includes two 3-wire cables, wiring diagram and everything needed for use with No. 66-120 and 66-340 14" and 15" Drill Press Motors and No. 49-365 Overload Switch. **CAT. NO. 15-813**

Manual Control Push Button Switch Kit. Switch is 3-pole type for use with 3 phase motors up to 2 HP, 208 to 550 V. Kit includes switch, 6-wire flexible conduit assembly, wiring diagram and everything needed for connecting between No. 86-520, 86-720 or 86-920 Motor and switch on 17" Drill Press and between No. 86-920, 86-922 or 87-120 Motor and switch on 20" Drill Press. **CAT. NO. 20-613**



34-882

Manual Control Push Button Switch Kit. Switch is 3-pole type for use with 3 phase motors up to 2 HP, 208 to 550 V. Kit includes switch, 3-wire cable, wiring diagram and everything needed to connect No. 86-921 or 87-121 Motor to switch on 10" Tilting Arbor Bench Saw. **CAT. NO. 34-882**

Manual Control Push Button Switch Kit. Switch is 3-pole type for use with 3 phase motors up to 2 HP, 208 to 550 V. Kit includes switch, 3-wire cable, wiring diagram and everything needed to connect No. 66-320, 86-520 or 86-720 Motor and switch on 12" Deluxe Variable Speed Wood Lathe. **CAT. NO. 46-473**

Manual Control Push Button Switch Kit. Switch is 3-pole type for use with 3 phase motors up to 2 HP, 208-550 V, AC. Kit includes switch, 6-wire assembly, box cover and everything needed for use with three phase motors on 12" Standard Variable Speed Wood Lathe and 4" Belt and 12" Disc Finishing Machine. **CAT. NO. 49-378**

Magnetic Control Push Button Switch Kit. Includes switch, 3-wire cable, wiring diagram and instructions for connecting No. 66-120 or 66-340 Motor, the magnetic control switch and No. 49-396 or 49-397 Magnetic Starter on 14" or 15" Drill Press. **CAT. NO. 15-812**

Magnetic Control Push Button Switch Kit. Includes switch, 3-wire flexible conduit assembly, wiring diagram and everything needed for connecting No. 86-520, 86-720, 86-920, 86-922 or 87-120 Motor, the magnetic control switch and No. 49-396 or 49-397 Magnetic Starter on 17" or 20" Drill Press. **CAT. NO. 20-612**

Magnetic Control Push Button Switch Kit. Includes wiring diagram and instructions for connecting No. 86-921 or 87-121 Motor, the magnetic control switch and No. 49-396 or 49-397 Magnetic Starter on 10" Tilting Arbor Bench Saw. **CAT. NO. 34-883**

for DELTA MOTORS

Magnetic Control Push Button Switch Kit. Includes switch, wiring diagram and instructions for connecting No. 86-920 or 86-922 Motor, the magnetic control switch and No. 49-396 or 49-397 Magnetic Starter on 12" Deluxe Variable Speed Wood Lathe.

CAT. NO. 46-472

Slow-Start Switch Kit. For description, see catalog listing under DELTA SWITCH KITS—SINGLE PHASE.

CAT. NO. 46-470

DELTA RELAY

Relay, 2-pole, NEMA type 1 enclosure, rated 1 HP, 110-550 volts, for use on 208-220 V, 60 cy power systems. For use on 12" Deluxe Variable Speed Wood Lathes only.

CAT. NO. 49-399

DELTA WIRING KITS

Armoured Cable Kit. Three-wire type, 3-foot long, for connection of 3 phase motor to control switch. Complete with necessary clamp fittings. Also can be used for single phase and DC motors.

CAT. NO. 49-315

Wiring Kit. Consists of 10-foot, #14—3 conductor cord with a 3-prong, 115V grounding plug. For use with No. 62-810 or 62-830 Motor on 12" Standard Variable Speed Wood Lathe.

CAT. NO. 49-357

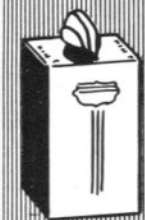
DELTA SWITCHES — SINGLE PHASE



1115

Manual Control Toggle Switch. Single-pole type, single-hole mounting, with hole in toggle, rated 1 HP, 115/230 V, AC. For replacement use on No. 62-253, 62-273, 62-653 and 62-413 Motors and No. 49-311 Switch Kit.

CAT. NO. 49-331



1325

Manual Control Toggle Switch. Two-pole type, two-hole flush mounting, with hole in toggle, rated 1½ HP, 125/250 V, AC-DC. For replacement use on No. 62-110, 62-610, 62-680, 82-710, 82-910, 83-112 and 83-510 Motors.

CAT. NO. 1115

DELTA SWITCHES — 3 PHASE

Manual Control Reversing Drum Switch. Rated 2 HP, 208 to 550 V, AC. For control of No. 86-921 and 87-121 Heavy Duty Wood Shaper Motors.

CAT. NO. 1325

DELTA OVERLOAD SWITCH — SINGLE AND 3 PHASE

Overload Switch. Two-pole type, rated single-phase 1½ HP, 115 V; 3 HP, 230 V; rated 3 phase, 5 HP, 208 to 550 V. To insure that correct heater coils are supplied, specify motor number, RPM, phase and voltage when ordering.

CAT. NO. 49-365

DELTA MANUAL STARTERS — SINGLE PHASE

Manual Starter, single phase, size 1P, NEMA type 1 enclosure, rated 3 HP, 115 V; 5 HP, 230 V.

CAT. NO. 49-500

DELTA MANUAL STARTERS — 3 PHASE

These manual starters provide control and accurate overload protection for Delta 3 phase motors. Have start and stop-reset buttons. To insure that correct heater coils are supplied, specify motor number, RPM, and voltage when ordering.

Manual Starter, 3 phase, size 0, NEMA type 1 enclosure, rated 2 HP, 208 to 550 V, AC.

CAT. NO. 1320

Manual Starter, 3 phase, size 1, NEMA type 1 enclosure, rated 5 HP, 208-220 V; 7½ HP, 440 to 550 V, AC.

CAT. NO. 1328



1320

DELTA MAGNETIC STARTERS

These magnetic starters provide across-the-line control, low-voltage, no-voltage and accurate overload protection for Delta single and 3 phase motors. To insure that correct heater coils are supplied, specify motor number, RPM, phase and voltage when ordering.

Single Phase

Magnetic Starter, single phase, size 1P, NEMA type 1 enclosure, rated 3 HP, 115 V; 5 HP, 230 V; 60 cy, AC. Supplied with start, stop and reset buttons.

CAT. NO. 49-325

3 Phase

Magnetic Starter, 3 phase, size 0, NEMA type 1 enclosure, rated 3 HP, 208-220 V, 60 cy, AC. Supplied with reset button only. Separate start-stop control station must be used.

CAT. NO. 49-396

Magnetic Starter, 3 phase, size 0, NEMA type 1 enclosure, rated 5 HP, 440 V, 60 cy, AC. Supplied with reset button only. Separate start-stop control station must be used.

CAT. NO. 49-397

Magnetic Starter, 3 phase, size 0, NEMA type 1 enclosure, rated 3 HP, 208-220 V, 60 cy, AC. Supplied with start and stop-reset buttons.

CAT. NO. 49-393

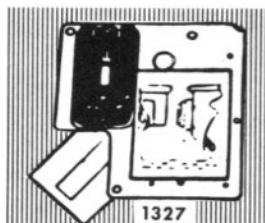
Magnetic Starter, 3 phase, size 0, NEMA type 1 enclosure, rated 5 HP, 440 V, 60 cy, AC. Supplied with start and stop-reset buttons.

CAT. NO. 49-394

Magnetic Starter, 3 phase, size 1, NEMA type 1 enclosure, rated 7½ HP, 208-220 V, 60 cy, AC. Supplied with start, stop and reset buttons.

CAT. NO. 49-381

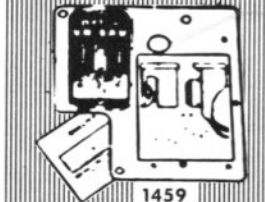
MOUNTING PARTS FOR DELTA ELECTRICAL CONTROLS



1327

Mounting bracket for mounting overload switch, manual or magnetic starters on 14" Utility, 15" and 17" Single and Multiple-Spindle Drill Presses (not Power Feed Models), also 14" Super-Hi Single Spindle Drill Presses and steel stands. Used with Nos. 1320, 49-393, 49-394, 49-395, 49-396, and 49-397 Starters and 49-365 Overload Switch.

CAT. NO. 49-318



1459

Mounting Bracket for mounting overload switch, manual or magnetic starters on right-hand side only of 17" Single and Multiple Spindle Power Feed Drill Presses and Steel Stands. Used with Nos. 1320, 49-393, 49-394, 49-395, 49-396 and 49-397 Starters and 49-365 Overload Switch.

CAT. NO. 49-317

Mounting Bracket for mounting overload switch or magnetic starters on 20" Single and Multiple-Spindle Drill Presses. Used with 49-396, 49-397 Starters and 49-365 Overload Switch.

CAT. NO. 20-614

Mounting Parts for mounting No. 1320 Manual Starter and No. 1325 Reversing Switch on Heavy Duty Wood Shaper. Includes mounting plate, screws and instructions.

CAT. NO. 1327

Mounting Parts for mounting No. 1320 Manual Starter on 10" Tilt-Ing Arbor Unisaw. Includes mounting plate, screws and instructions.

CAT. NO. 1459

Cover Plate. For use with Magnetic Starters No. 49-325, 49-393 and 49-394 on the 13" x 5" Planer.

CAT. NO. 49-376

FOR CATALOGING OF SWITCH RODS, SEE INDIVIDUAL MACHINES.

For Dimensional Data on Delta Motors, See Page 93

**DELTA
POWER
TOOLS
ARE
ROCKWELL
BUILT**



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