

Atlas Machinery in:



LUMBER

INDUSTRIAL ARTS

VOCATIONAL EDUCATION

CRAFTS AND FINE ARTS

FINISHING SUPPLIES

TOOLS

CERAMICS

BENCHES

METAL

ELECTRICAL SUPPLIES

HARDWARE

MACHINERY

MECHANICAL DRAWING

METAL EQUIPMENT

WELDING EQUIPMENT

BRODHEAD-GARRETT CO.

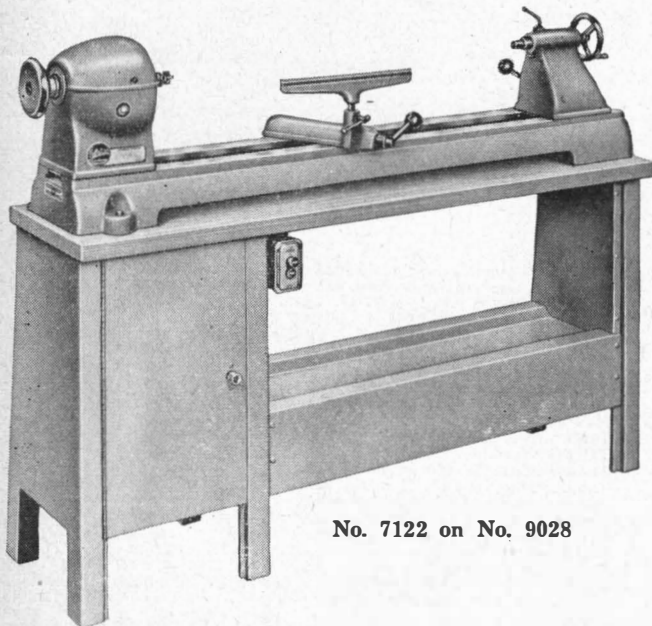
50 years serving the School Shops of America

CLEVELAND 5, OHIO

ATLAS 12" Woodworking Lathe

Features include: new, heavier bed, with ground ways for easier positioning of tailstock and tool support base; sealed-for-life ball bearings; 60 hole indexing mechanism; lever-controlled bed locks for tailstock and tool support base; boy-proof tailstock ram lock. No. 9028 stand, illustrated above, completely encloses motor, pulleys and belt for maximum safety. Has $\frac{1}{4}$ " steel plate ends, 18 gauge steel sides, $1\frac{1}{4}$ " thick wood top, door to motor compartment, convenient storage shelf.

Capacity between centers36"
 Spindle speeds635, 1230, 2430, 4680 RPM
 Taper, headstock and tailstockNo. 2 Morse
 Hole through spindle $\frac{1}{2}$ "
 Spindle threads, both ends1"-10
 Overall dimensions56" x 12 $\frac{1}{2}$ " x 13" high
 Motor recommended $\frac{1}{2}$ or $\frac{1}{4}$ HP, 1725RPM
EQUIPMENT FURNISHED: spur center, cup center, 12" tool rest, V-belt, motor pulley with $\frac{3}{8}$ " bore.



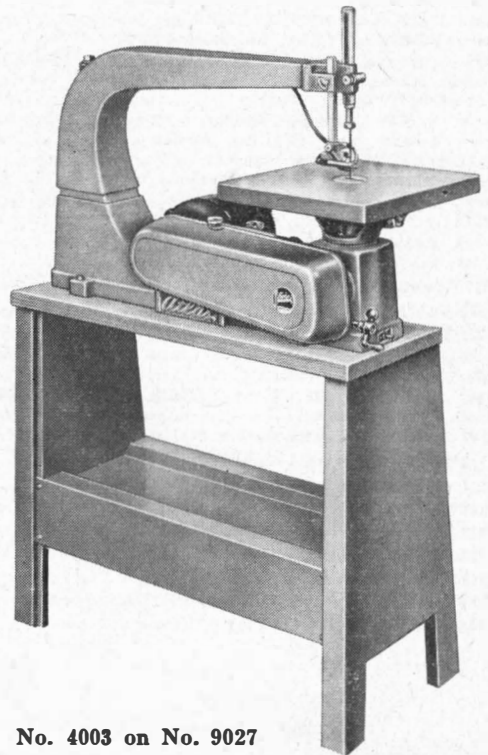
No. 7122 on No. 9028

No. 7122 12" ball-bearing lathe; less motor and stand	\$125.00
No. 9028 Heavy duty safety stand for No. 7122 Atlas lathe	85.00
No. 2720 $\frac{1}{2}$ HP, 1725 RPM, 110/220 volt, 60 cycle, single phase, capacitor start, ball bearing motor; less cord and plug	54.00
No. 9000 2-pole push button switch, for single phase	5.00
No. 9002 Switch Mounting Bracket for No. 9000	1.50
No. 9008 Wiring Kit for No. 9000	5.75
No. 2710 10 ft. rubber covered cable with plug	2.00
No. 5634 Hand wheel for outboard end of spindle; $4\frac{1}{4}$ " dia.; 8 holes	4.50
No. 5651 Motor Hanger required for No. 9028 stand, for 4-speed drive	3.95
No. 5650 16 speed jack shaft assembly for use with No. 7122 lathe and No. 9028 stand. Provides 16 speeds between 220 and 4500 RPM	30.50
No. 5649 16 speed jack shaft assembly for bench mounting	22.50
No. W18A Set of 8 chisels: $\frac{3}{8}$ " gouge, $\frac{5}{8}$ " gouge, 1" gouge, $\frac{1}{2}$ " skew, 1" skew, $\frac{1}{2}$ " round nose, $1\frac{1}{2}$ " spear point, $\frac{5}{8}$ " parting	19.95
No. L-88 Set of 5 chisels: $\frac{3}{8}$ " gouge, $\frac{5}{8}$ " gouge, $\frac{1}{2}$ " skew, $\frac{1}{2}$ " spear point, $\frac{5}{8}$ " parting	13.75
No. 5618 Right angle T-rest	3.50
No. 5620 8" T-rest	3.50
No. 5619 12" T-rest	3.85
No. 40-60 Jacobs key-type drill chuck, No. 70 to $\frac{1}{2}$ " capacity. No. 378 arbor required	9.65
No. 378 Arbor	1.50
No. 5601 9" combination face plate for inboard work	8.75
No. 5602 9" combination face plate for outboard work	8.75
No. M6-365 $5\frac{1}{4}$ " combination face plate for inboard work	5.25
No. 5608 $3\frac{1}{2}$ " face plate for inboard work, has 3 holes for wood screws	4.50
No. 5642 10" sanding disc for No. 7122 lathe	8.75
No. 5102 Medium garnet abrasive sheets, 10" dia., set of 6	2.35
No. 5622 Outboard turning rest, cast iron legs, 12" tool rest	27.50
No. 350 Spur center	2.85
No. L3-147 Extra point for No. 350 spur center50
No. 352 Screw center	4.00
No. 355 Extra point for No. 352 screw center50
No. 851 Cup center	2.85
No. L3-147 Extra point for No. 851 cup center50
No. 856 Crotch center	4.75

ATLAS 24" Jig Saw

A sensational value for the school shop. Smoothest running jig saw ever designed, with new automotive-type drive mechanism, sealed-for-life ball bearings, oil bath lubrication. 14" x 14" precision ground table swivels 90°—tilts 45° right, 15° left on widely spaced trunnions that eliminate flip-over. New, efficient blower delivers continuous stream of air. Chucks are universal, and blades index 90° for cutting long stock from side of saw. Cuts up to $2\frac{1}{4}$ " thickness. Available in four speed and variable speed models as listed below.

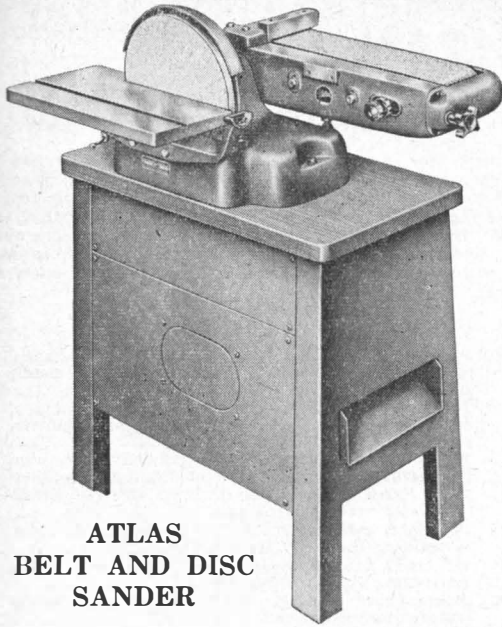
Throat capacity24"
 Maximum depth of cut2 $\frac{1}{4}$ "
 Speeds, C.S.M.570, 860, 1220 and 1660
 Length of stroke1"
 Overall dimensions14" wide x 25 $\frac{1}{2}$ " high x 36 $\frac{5}{8}$ " long
 Blade lengths6" or less
 Motor recommended $\frac{1}{8}$ HP, 1725 RPM



No. 4003 on No. 9027

No. 4003 24" Ball Bearing Jig Saw, less motor and spindle pulleys, V-belt, belt guard and motor	\$105.00
No. 4004 24" Ball Bearing Variable Speed Jig Saw, less guard and motor	125.00
No. 4154 4-speed pulley drive unit. Consists of motor and spindle pulleys, V-belt	6.25
No. 9027 Heavy duty stand for Atlas 24" Jig Saw, same as illustrated above. Comes ready assembled	52.75
No. 4150 Belt Guard for Atlas No. 4003 Jig Saw. Cast aluminum, covers belt and pulleys. Mounting bracket, furnished, bolts to saw base. Guard is hinged for easy access to belt and pulleys	11.50
No. 4153 Belt Guard for use with Atlas No. 4004 Variable Speed Jig Saw. Same as illustrated above	8.75
No. 4170 Variable speed unit for use with Atlas Nos. 4002 and 4003 24" Jig Saws. Less No. 4153 guard	20.50
No. 2730 $\frac{1}{2}$ HP, 1725 RPM, single phase, capacitor start, 115/230V 60C ball bearing motor. Does not have switch, cord or plug	45.00
No. 9319 Toggle switch with cord for single phase motors. Easily installed in ready-drilled hole in jig saw base	1.95
No. 2710 1-foot extension cord and plug for No. 2730 motor	2.00
No. 4152 Special upper chuck and shaft assembly required for use with blades wider than .1406" (9/64") and for those operations where it is desirable to hold files and other accessories in both upper and lower chucks—not recommended for use in holding smaller blades. Holds all blades and sabers up to .2812" ($\frac{1}{8}$ ") wide, accessories up to $\frac{1}{4}$ " dia. shank. Interchanges with shaft assembly furnished with machine	9.50
No. 4121 Jig Saw lamp with 15" flexible cable, ball joint in head, push through switch, 6' rubber cord, mounting bracket and bolts	9.00
No. 4151 Saber blade support. Fits drilled hole in trunnion support bracket	2.00
No. 4100 Set of 12 assorted blades	1.05

ATLAS 6" JOINTER



**ATLAS
BELT AND DISC
SANDER**

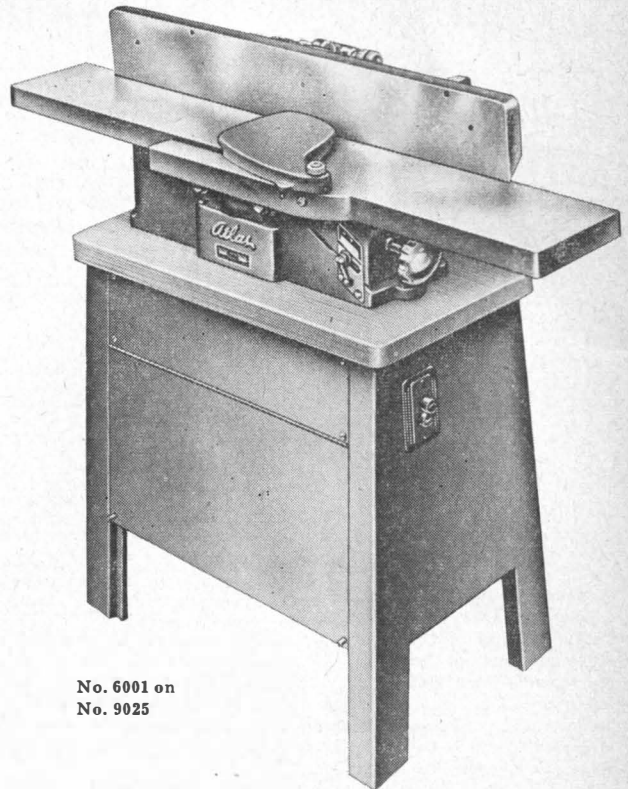
The No. 5010 belt and disc sander finishes work of practically any shape or size—flat surfaces, curves, angles, double angles, edges, irregular shapes—in metals and plastics as well as wood. Base, frame and tables are heavy gray-iron. Disc spindle and drum spindles turn on sealed-for-life ball bearings. Disc table tilts 45° down—may be used with either belt or disc. Belt operates in both vertical and horizontal positions—guards and stop may be removed for sanding curved pieces on either drum. Disc and disc guard are easily removable for sanding wide boards on belt.

New pyramid design stand is a rugged, safe, convenient mount for the sander. Motor, motor pulley and belt are enclosed in base. End sections are $\frac{1}{8}$ " steel plate, and top and shelf are $1\frac{1}{4}$ " thick gumwood. Built-in dust chute, opening for flush-type switch, inclined motor mount for easy belt tensioning. Comes assembled, ready for installation of machine and motor.

Specifications

Disc Size	10" dia.
Sanding Belt Size	37 $\frac{1}{2}$ " x 4" wide
Table	7 $\frac{7}{8}$ " x 15"
Belt Support Table	4 $\frac{1}{4}$ " x 11 $\frac{7}{8}$ "
Belt Drums	3 $\frac{1}{4}$ " dia. rubber faced driver, 3" dia. tension drum, both 4" long
Distance Between Centers of Belt Drums	14"
Spindle Speed	1360 RPM
Belt Speed	1150 FPM
Overall Dimensions	28 $\frac{1}{4}$ " x 20 $\frac{1}{2}$ " x 12" high
Base Mounting Dimensions	9" x 14 $\frac{3}{8}$ "
Shipping Weight, less motor	73 lb.

No. 5010 BELT AND DISC SANDER, 10" disc, 4" wide belt, 14" between drum centers, 7 $\frac{7}{8}$ " x 15" table. With V-belt and $\frac{5}{8}$ " dia. bore motor pulley, medium garnet belt and disc; less motor, stand, switch. 73 lb.	\$99.50
No. 9026 SAFETY STAND with built-in dust chute, inclined motor mount, opening for switch box. Less switch. 13" x 25" x 26" high. 92 lb.	55.00
No. 2720 $\frac{1}{2}$ HP, 1725 RPM, Single Phase, Capacitor Start, Ball Bearing Motor. 115/230 V, 60 C. 34 lb.	54.00
No. 2821 $\frac{1}{2}$ HP, 1425/1725 RPM, 3-Phase, Ball. 220/440 V, 60 C. 28 lb.	51.00
No. 9000 2-pole Push Button Switch for single phase current. 110/220 volt	5.00
No. 9001 3-pole Push Button Switch for 3-phase current. 220/440 volt	13.25
No. 9003 WIRING KIT for use with No. 9000 single phase switch and No. 9027 stand. Complete with 10' cord and plug to carry power to switch, 44" cord and plug to carry power from switch to motor, box connectors, and screw-on connectors for solderless installation. 3 lb.	5.75
No. 9013 OPEN STEEL STAND. 13" x 27" x 27" high. 38 lb.	23.75
No. 6101 SANDING BELT FENCE. 6 lb.	11.95
No. 3227 MITRE GAUGE, 1 lb.	3.75
No. 3261 EXTENSION STOP ROD ASSEMBLY for Mitre Gauge. 10 oz.	1.75



No. 6001 on
No. 9025

For maximum safety with unequalled accuracy, finish and ease of operation, specify the big Atlas 6" jointer.

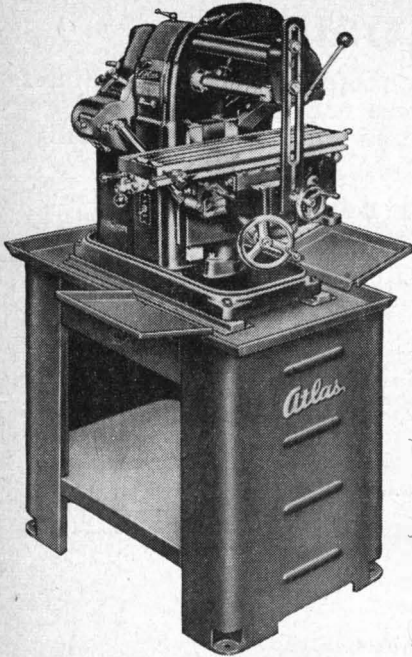
Has 42" table, precision ground to align to within .005" throughout entire length. 32" x 4 $\frac{1}{2}$ " fence is rigidly supported at the cutter head. One piece, precision cutter-head-spindle is machined from solid steel for perfect balance, smoother cutting—spins on sealed-for-life ball bearings. Cutter head is removable to permit sharpening blades without disturbing their setting. Cutter head is completely guarded both sides of fence. And for added safety, convenience the rear table is stationary and fence always touches rear table regardless of angle of tilt.

Specifications

Cutting capacity, width	6"
Cutting capacity, depth	$\frac{1}{2}$ "
Table surface overall	42" x 61 $\frac{1}{8}$ "
Fence tilts 45° from vertical, both directions.	
Fence	32" x 4 $\frac{1}{2}$ "
Cutter head	2 $\frac{3}{4}$ " diameter, 5 $\frac{7}{8}$ " long
Overall dimensions, less motor	42" x 16 $\frac{1}{4}$ " x 11 $\frac{1}{4}$ " high

$\frac{1}{2}$ or $\frac{3}{4}$ HP, 3450 RPM motor is recommended.

No. 6001 6" Atlas jointer with V-belt and motor pulley. Less motor and stand	\$137.50
No. 9025 Safety stand with belt guard. Illustrated above.	\$59.95
No. 6110 Belt guard for Atlas 6" jointer	\$10.50
No. 6115 Set of 3 matched cutter blades. Tool steel, ground in sets	\$6.75
No. 2751 $\frac{3}{4}$ HP, 3450 RPM, 115/230 V, 60 C, enclosed ball bearing motor	\$65.00
No. 2851 $\frac{3}{4}$ HP, 3450 RPM, 220/440 V, 50/60 C, 3-phase, enclosed ball bearing motor	\$70.00
No. 2712 10 ft. extension cord and plug for $\frac{3}{4}$ and 1 HP single phase motors	\$3.00
No. 3225 Motor control switch. Thermal overload, manual starter, with mounting bracket and cord	\$9.75
No. 9000 2-pole, push button switch for flush mounting. For use with single phase current only	\$5.00
No. 9001 3-pole, push button switch for flush mounting. For 3-phase current	\$13.25
No. 9003 Wiring kit for use with No. 9000 switch	\$5.75



No. MFC on No. 9050

ATLAS Milling Machine

SPECIFICATIONS

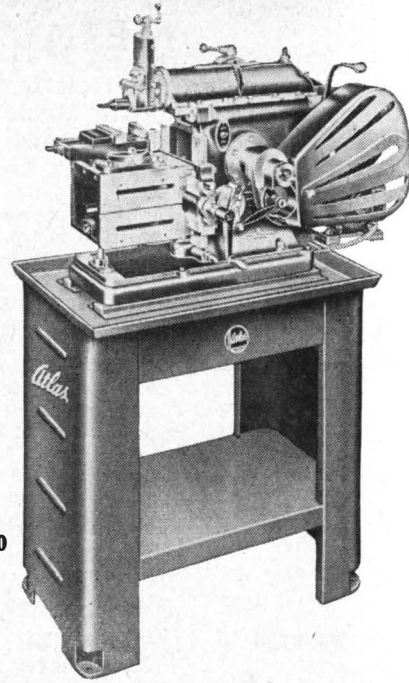
Longitudinal Table Travel9A"
 Reversible Automatic Longitudinal Power Feeds: per Revolution of Spindle, 0.008", .006", .0125", or .025". Range, 0.186" to 11.250" per minute
 Cross Table Travel, Hand-Operated8 3/4"
 Vertical Table Travel, Hand-Operated6"
 Center of Spindle to Table in Lowest Position6"
 Table Working Surface, Precision-Ground, 4 1/2" x 18"
 Table Dimensions4 1/2" x 18" x 1 1/8" thick
 Table T-SlotsTop, 3/8" x 3/8" x 16"; Side, 3/8" x 3/8" x 18"
 Eight Spindle Speeds between . . . 62 and 2870 RPM
 Timken Tapered Roller Bearings

Spindle1" diameter, 10-pitch N.S. threads 17/82" hole through entire length, nose bored for No. 2 Morse Taper
 Arbor Diameter7/8" or 1"
 Center of Arbor to Underside of Overarm2 1/2"
 Backgear Ratio (approximate)6 1/2 to 1
 Backgear shaft and countershaft spindle bearingsOilite Bronze
 No. MFC Atlas Milling Machine complete with safety belt guards and "Change-O-Matic" power feeds, less arbor and motor\$495.00
 No. 9050 Floor Cabinet 69.75
 No. 9051 Side Pans for 9050 cabinet. Per pair 9.25
 No. 2780 Atlas Single-Phase Motor, 1/2 H.P., 1725 R.P.M., 110-220 Volt, 60-Cycle, A.C. No cord or plug. A toggle switch for this motor is furnished with the Milling Machine 45.00
 No. 2710 10-Foot Rubber covered cable with plug 2.00
 No. 2891 Atlas Three-Phase Motor, 1/2 H.P., 1725 R.P.M., 220-Volt, 60-Cycle, A.C. No cord, plug or switch 44.00
 No. S7-300 Control switch for Three-Phase motors 26.25

RECOMMENDED ACCESSORIES

No. M1-200 Index Center\$72.50
 No. M1-300 Swivel Vise 45.00
 No. M1-560 Cutting Arbor with collars 39.25
 No. M1-580 Slab Milling Cutter 10.35
 No. S7-480 Angle Plate 8.95
 No. 574-A Angular Cutter—1/4" 9.75
 No. 574-B Angular Cutter—1/2" 10.90
 No. M1-577 Shank Cutting Adapter 6.75
 No. 572 Arbor for Angular Cutter 2.75
 No. 567 Arbor for Angular Cutter 2.75
 No. 576A Spiral End Mill 3.60
 No. 576B Spiral End Mill 3.80
 No. 576C Spiral End Mill 4.10
 No. 576D Spiral End Mill 4.30
 No. 576E Spiral End Mill 4.75
 No. 563E Set of (4) End Mill Bushings 3.00
 No. M1-581 Side Milling Cutter 10.00
 No. M1-582 Metal Slitting Saw—1/8" 6.00
 No. M1-583 Metal Slitting Saw—1/4" 6.00
 No. M1-584 Metal Slitting Saw—1/2" 6.00
 No. 8625 Draw Bar 4.85
 No. M1-585 R. H. Spiral End Mill 14.00
 No. M1-570 Shell End Mill Driver 12.50
 No. 575A 1/2" Woodruff Keyway Cutter 4.50
 No. 575B 3/4" Woodruff Keyway Cutter 4.95
 No. 575C 1" Woodruff Keyway Cutter 6.15
 No. 575D 1 1/4" Woodruff Keyway Cutter 7.25
 No. 575E 1 1/2" Woodruff Keyway Cutter 8.15

ATLAS 7" Shaper



No. 7B on No. 9050

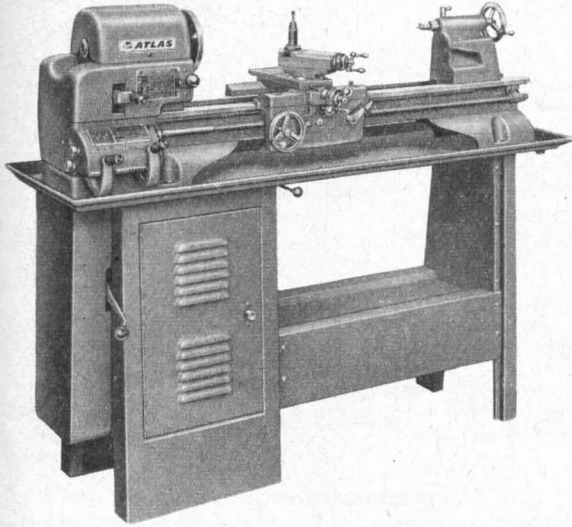
The Atlas 7" Shaper is a low-cost, rugged, precision machine—the safest and most practical 7" shaper for school shop training.

Exclusive features include: semi-steel iron bull gear with 1" face, steel pinion gear, Timken tapered roller bearing drive, outside stroke adjusting mechanism, crank control for stroke positioning, completely guarded V-belt drive, combination belt-tension lever and brake, 4 speeds, 5 automatic cross feeds, built-in switch.

SPECIFICATIONS

Length of Ram Stroke1/2" to 7"
 Strokes per Minute45-78-122-184
 Cutting Speeds, Feet per Minute7 to 187
 Distance Table to RamMaximum 5 1/2", Minimum 1/2"
 Overall Dimensions17" x 86" x 26"
 Ram Length, less Tool Head17"
 Ram Bearing in Column8" x 24" long
 Ram Position Range4"
 Tool Head Diameter4"
 Tool Head Feed Length3"
 Tool PostTakes 3/8" tool bits or holder for 1/4" tool bits
 Tool Head graduated 0 to 50° right and left. Collar graduated in .001ths—swivel clapper
 Gear Ratio5 1/2 to 1—1" Face
 Pinion Shaft and Countershaft Pulleys4-step, V-type
 Cross Feeds Available. Both Directions005, .010, .015, .020, .025 inches per stroke
 Table, Overall Dimensions8 3/4" x 6" x 6" deep
 Table, Finished Surface Length7"
 Table Travel9 3/8" horizontal, 5" vertical
 Table has 3 T-Slots on Top3/8" x 3/8" x 7"
 Table has 2 Clamping Slots on Each Side1 1/2" x 5 1/2"
 Vise Jaw—4" x 7/8"; opens 4" vise Swivel Base Graduated 0 to 90° right and left
 No. 7B Atlas Shaper complete with safety guards, vise, countershaft, V-Belt drive, crank handle, wrenches, operating instructions; less motor and stand\$550.00
 No. 2720 Atlas Single-Phase Capacitor Start Motor, 1/2 H.P., 1725 R.P.M., 115/230 Volt, 60-Cycle, A.C. No cord or plug; A toggle switch for use with this motor is furnished with the Shaper 54.00
 No. 2710 10-Foot Rubber covered cable with plug 2.00
 No. 2821 Atlas Three-Phase Motor, 1/2 H.P., 1725 R.P.M., 220/440 V., 50/60 C., A.C. No cord, plug or switch 51.00
 No. S7-800 Overload Protective Switch for three-phase motors 26.25
 No. S7-442C Atlas Floor Stand—Cast-Iron Legs—Wood Top 54.50
 No. 9050 Floor Cabinet 69.75
 No. S7-180 Shaper Tool Holder with 1/4" bit 8.50
 No. S7-886 Set of (7) Formed Cutter Bits 1/4" x 1/4" 7.00
 No. S7-816 Shaper Extension tool with butter bit and wrench 8.50

ATLAS 12" LATHES WITH PEDESTAL BASE UNDERNEATH DRIVE COUNTERSHAFT



Atlas 12" lathes with pedestal base have enclosed underneath drive countershaft that provides 16 spindle speeds from 20 to 2075 RPM, 8 speeds direct, 8 back geared. Two V-belts turn spindle. Lever on base releases belts for position changes.

Headstock spindle has $\frac{3}{8}$ " bore, $1\frac{1}{2}$ " - 8 threaded nose, $\frac{3}{8}$ " thru hole. Spindle turns on Timken tapered roller bearings. Back gears are enclosed in headstock casting—guard covers top of headstock. Quick change mechanism provides instant selection of 54 threads, feeds—has steel gears. Power cross and longitudinal feeds standard equipment—all gears in apron are steel. Heavy bed has precision ground ways.

Pedestal base is $\frac{1}{8}$ " steel plate—a rigid foundation for accurate work. Top is chip pan.

EQUIPMENT FURNISHED includes: pedestal base with chip pan; underneath drive countershaft installed in cabinet; complete V-belt drive; quick change mechanism; threading dial; two 60° centers; reducing sleeve for headstock center; face plate; wrenches; instruction book; less motor and switch.

Atlas 12" Lathes with Pedestal Cabinet, Underneath Drive Countershaft

No.	Swing	Centers	Bed	Ship Wt.	Price
3990	12"	24"	42"	505 lb.	\$535.00
3991	12"	36"	54"	545 lb.	575.00

ACCESSORIES FOR LATHES

High Speed Tool Bits — Rex AA Grade Unground

Preferred by many users because of all around efficiency at reasonable cost. Careful hardening methods insure close size tolerances and smooth finish.

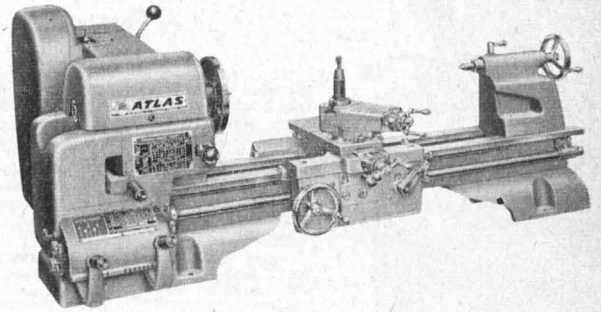
Size	No. per lb.	Price per lb.	Price per doz.	Price each
$\frac{1}{8}$ " square	36	\$5.49	\$ 1.83	\$.17
$\frac{1}{4}$ " square	20	4.58	2.75	.25
$\frac{3}{8}$ " square	13	4.22	3.90	.35
$\frac{1}{2}$ " square	8	4.03	6.04	.55
$\frac{3}{4}$ " square	5	4.03	9.67	.88
$1\frac{1}{2}$ " square	3	3.67	14.68	1.33

LATHE DOGS

No. 142A Set of 4 Lathe Dogs to handle diameters up to $1\frac{1}{2}$ ". Set \$6.40

No.	Opening	Weight	Price Each
142	$\frac{1}{8}$ "	4 oz.	\$1.20
143	$\frac{3}{8}$ "	5 oz.	1.50
144	1"	7 oz.	1.75
145	$1\frac{1}{2}$ "	10 oz.	1.95

ATLAS 12" BENCH LATHES WITH HORIZONTAL COUNTERSHAFT



Atlas 12" bench lathes have a horizontal countershaft that provides 16 spindle speeds from 20 to 2075 RPM, 8 direct, 8 back geared. Power is transferred from motor to countershaft thru 2-step V-belt pulleys, and from countershaft to spindle thru 4-step V-belt pulleys. Lever releases both belts for quick position changes. Belts and pulleys are completely covered by hinged safety guards. Available with quick change mechanism or standard change gears. Has built-in motor control switch for single phase current. Other features same as described in adjoining column.

Atlas 12" Bench Lathes with Quick Change Gears

No.	Swing	Centers	Bed	Ship Wt.	Price
3980	12"	24"	42"	350 lb.	\$410.00
3981	12"	36"	54"	372 lb.	450.00

Atlas 12" Bench Lathes with Standard Change Gears

No.	Swing	Centers	Bed	Ship Wt.	Price
3982	12"	24"	42"	335 lb.	\$325.00
3983	12"	36"	54"	357 lb.	365.00

Recommended Accessories for Atlas 12" Lathe

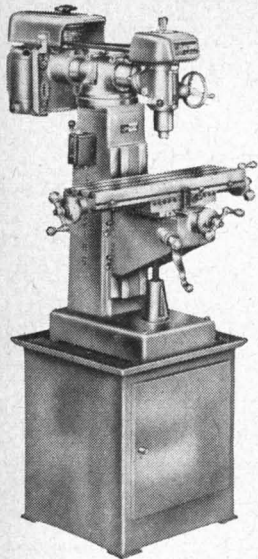
No. 6606 Independent 4-jaw Chuck, 6" medium	\$37.00
No. 6612 Medium Duty Universal Chuck, 5", threaded for $1\frac{1}{2}$ " - 8 Lathe Spindle	50.00
No. 375B Jacobs Headstock Chuck, capacity $\frac{3}{8}$ " to $\frac{3}{4}$ "	23.75
No. 377 Arbor for Headstock Chuck No. 375B	1.50
No. 40-60 Jacobs Tailstock Chuck, capacity 0" to $\frac{1}{2}$ "	9.65
No. 378 Arbor for Tailstock Chuck No. 40-60	1.50
No. 6660 Tool Holder, Straight	2.85
No. 6662 Tool Holder, Right Hand	2.85
No. 661 Tool Holder, Left Hand	2.85
No. 142A Set of (4) Lathe Dogs, $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1", $1\frac{1}{2}$ "	6.40
No. 386 Set of (6) Formed Cutter Bits, $\frac{1}{4}$ " x $\frac{1}{4}$ "	4.25
No. 6664 Threading Tool	5.80
No. 6663 Knurling Tool	6.85
No. 6680 Extra Knurls, Medium Diamond Shape, pair	2.75
No. 590 Cut-off Tool	3.40
No. 592 Extra Blade for Cut-off Tool	1.50
No. 741 Clamp Type Dog	7.00
No. 356 Crotch Center	4.75
No. 360 Drill Pad	4.85

Extra Equipment

No. 6681 Floor Stand for lathe with 24" centers	\$64.75
No. 6682 Floor Stand for lathe with 36" centers	69.50
No. 6642 Heavy Gauge Welded Oil Pan for lathes with 24" centers	24.50
No. 6654 Heavy Gauge Welded Oil Pan for lathes with 36" centers	27.75
No. 2720 Atlas Single Phase Capacitor Start Motor, $\frac{1}{2}$ HP, 1725 RPM, 110-220 Volt, 60 Cycle, AC. No cord or plug. Toggle switch for this motor is furnished with lathe	54.00
No. 2710 10-foot Rubber covered cable with plug	2.00
No. 2821 Atlas Three Phase Motor, $\frac{1}{2}$ HP, 1725 RPM, 220 Volt, 60 Cycle. No cord, plug or switch	51.00
No. 6685 Reversing Switch for single and three phase motors	16.75

Other Atlas Lathe Accessories

No. 380 Tool Post Set, with 5 internal tools, two heavy duty external tools, V-block, height spacers	\$13.95
No. 970 Turret Type Boring Set with turret head, two boring bars, cutters and one solid boring tool	28.75
No. 790 Center Ejector Bar	3.00
No. 375 Jacobs Headstock Chuck, $\frac{1}{8}$ " to $\frac{5}{8}$ " capacity	20.00
No. 365 $8\frac{1}{2}$ " Face Plate for Atlas 12" Lathes	9.35
No. 9-88 60° Lathe Center	2.75
No. 138 Reducing Sleeve for lathe centers, No. 3 to No. 2 MT. Each	2.50
No. 348 Ball Bearing Center, No. 2 MT shank	21.75



CLAUSING Vertical Milling Machine

F. O. B. Factory

The Clausing Vertical Milling Machine is a heavy duty machine tool of amazing versatility. It drills, bores, mills, reams and forms at any angle without special fixtures or attachments, and without disturbing work setting—the spindle head can be swiveled 180° in a vertical plane and set at any angle, and turret head rotated in a horizontal plane.

The heart of the Clausing mill is its rigid, high precision spindle head. Drive and spindle have 7 ball bearings. Spindle is chrome nickel steel, hardened and ground. Quill, ground and hard chrome plated, has full-length honed bearing seat in head. Overarm is an electric furnace grey iron casting, with ¼" thick wall.

Quill has micrometer depth control stop accurate to .001", and two feeds—rack controlled by lever for fast feed, and a gear controlled by handwheel for fine feed. All feed

screws have ground threads, turn on ball bearings, have large micrometer dials.

Table surfaces and dovetail ways on table, saddle, knee and column are precision ground—bearing surfaces are gibbed for long, accurate service.

CONDENSED SPECIFICATIONS: 6" x 24" table; table travel—15" longitudinal, 5" transverse, 1 1/8" vertical; spindle, No. 7 B & S or No. 2 MT, optional; 3" quill travel; 1 1/8" maximum spindle to table, 8 3/4" spindle to column; 6 speeds—180, 350, 600, 1000, 1900 and 3250 RPM; overall—36" x 40" x 86" high. 1/2 or 3/4 HP, 1725 RPM motor recommended.

EQUIPMENT FURNISHED, both models: Floor cabinet and reversing switch (with switch cord) to accommodate both single and three phase motors; less motor.

No. 8520 Clausing Vertical Milling Machine with No. 2 MT spindles, less motor, 650 lbs. each \$835.00

No. 8525 Clausing Vertical Milling Machine with No. 7 B & S spindle, less motor, 650 lbs. each 835.00

HEAVY DUTY MOTORS

No.	HP	Volts	Cycle	RPM	Shaft	Ship. Wt.	Each
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SINGLE PHASE, CAPACITOR START

2720	1/2	115/230	60	1725	5/8"	38 lb.	\$51.00
2790	3/4	115/230	60	1725	3/4"	50 lb.	70.00

THREE PHASE

2821	1/2	220/440	50/60	1425/1725	5/8"	35 lb.	49.00
2840	3/4	220/440	50/60	1425/1725	3/4"	48 lb.	68.00

All motors listed above are ball bearing equipped, have single end shaft with 5/16" x 5/32" keyway, will operate satisfactorily on a 10% voltage variation, and are available with other voltages and cycles—information sent on request. Do not have switch, cord or plug.

CHUCK

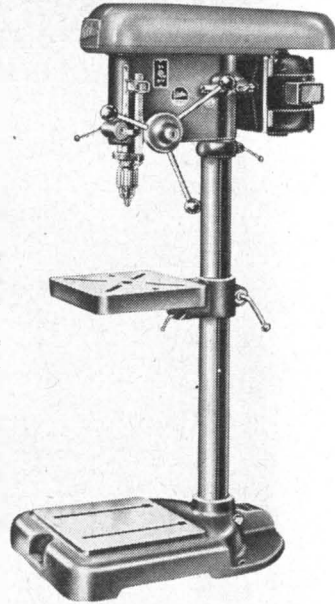
No. 8615 Ball Bearing Chuck, capacity No. 70 drill to 1/2". Furnished with key type wrench and 1/2" straight shank arbor. 2 1/2 lbs. \$13.50

SPLIT HOLDING COLLETS

Ground inside and outside, and threaded for 5/16"-16 draw bar. Handle round shank tools, diameters shown below. 1 lb. each.

Size	Order No. for MT Spindle	Order No. for B&S Spindle	Each
1/8"	8601	8608	\$6.25
3/16"	8602	8609	6.25
1/4"	8603	8610	6.25
5/16"	8604	8611	6.25
3/8"	8605	8612	6.25
7/16"	8606	8613	6.25
1/2"	8607	8614	6.25

ATLAS 15" Drill Presses



Included among the many features that make Atlas 15" Drill Presses outstanding values for the school shop are: heavier head, with wider spaced column bearings for greater rigidity; new long-life drive with four ball bearings and fixed-spindle construction.

Other outstanding features include full tilting table, 3 spoke feed wheel, built-in switch, quick-positioning depth control stop, coordinate-type locks, cast-iron motor mounting bracket.

SPECIFICATIONS (Both Models)

Drills to Center of Circle	15" diameter
Chuck Capacity	No. 70 to 1/2"
Spindle Travel	4"
Size of Table	10" x 10"
4 Speeds between	580 and 5200 R.P.M.
With Hi-Lo Speed Attachment	Low Speed 210 R.P.M.
Ground Steel Column	2 1/2" diameter
Motor Recommended	1/2 or 3/4 H.P., 1725 R.P.M. (Ball Bearing)
Built-in Switch Furnished	10 Ampere at 110 Volt (Switch is for single-phase current only)
Motor Pulley	For 5/8" diameter motor shaft

BENCH MODEL

Maximum Distance Table to Chuck	12"
Maximum Distance Base to Chuck	16"
Table Travel	12"
Over-all Height	36"
Over-all Width	13 1/2"
Over-all Depth with Motor	24 1/2"

FLOOR MODEL

Maximum Distance Table to Chuck	41"
Maximum Distance Base to Chuck	46"
Table Travel	41"
Over-all Height	66"
Over-all Width	16"
Over-all Depth with Motor	27"

MODEL LISTING

No. 1020 Atlas 15" Bench Model Drill Press with Jacobs Chuck, 70 to 1/2" capacity. Including: Belt and Motor Pulley	\$118.75
No. 1060 Atlas 15" Floor Model Drill Press with Jacobs Chuck, 70 to 1/2" capacity. Including: Belt and Motor Pulley	132.75
No. 62-7A Safety belt guard for either model	25.00

MOTORS AND ACCESSORIES

No. 2720 Atlas Single-Phase Capacitor Start Ball Bearing Motor, 1/2 H.P., 1725 R.P.M., 110-220 Volt, 60-Cycle, A.C. No cord, plug. Toggle switch for use with this motor is furnished with the Drill Press	\$51.00
No. 2710 10-Foot Rubber covered cable with plug	2.00
No. 2821 Atlas Three-Phase Ball Bearing Motor, 1/2 H.P., 1725 R.P.M., 220-Volt, 60-Cycle, A.C. No cord, plug or switch	49.00
No. 1240 Safety Guard, covers entire drive as illustrated above	22.00
No. W80 Atlas Shaping attachment complete including table, fence and hold-downs, less cutters	25.85
No. W6-6A Shaping cutter adapter for Jacobs Chuck	3.85
No. 3620 Set of (11) shaping cutters	30.50
No. LS-31 Set of (6) depth collars	2.25
No. W1B Mortising Attachment including chisel socket	14.00
No. W1F Mortising hold-down and fence attachment	9.75
Mortising chisels 1/4", 5/8", 1/2". Each	4.00
Mortising chisel bits, 1/4", 5/8", 1/2". Each	4.00
No. W122 "Hi-Lo" Speed Attachment, with 2 V-belts	17.50