Atlas

METAL WORKING MACHINE TOOLS

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ATLAS PRESS COMPANY, KALAMAZOO, MICH., U.S.A.
• Atlas metalworking tools have long been outstanding favorites throughout the world in almost every type of shop — production, maintenance, research, service, automotive, school, farm and home. A study of the features outlined in the following pages will quickly show you why.

Atlas lathes, drill presses, milling machines and shapers are highly accurate and efficient. They're ruggedly built, with large bearing surfaces for long service life. They're easy to set up and operate. And full use of all technological advances in materials, plus unique Atlas-developed production methods, combine to bring these precision tools to you at low cost. Visit your nearest Atlas dealer's display room — inspect the many features that have made Atlas first in modern shop equipment.
Atlas 10" QUICK-CHANGE LATHES

**SPECIFICATIONS**

Swing over Bed .................................................. 10"
Swing over Carriage ........................................... 57 1/8"

**CAPACITY**

Thread Range, 4 to 240 Standard, Right or Left
Collet Capacity .................................................. 1 3/8"

No. of Spindle Speeds ......................... 16 (8 Direct, 8 Backgeared)

8 Direct Spindle Speeds, RPM .............. 154, 266, 418, 500, 685, 805, 1270, 2072

8 Backgeared Spindle Speeds, RPM ........ 28, 45, 70, 83, 112, 134, 211, 345

**SPEEDS AND FEEDS**

Feeds (Left or Right) per Revolution of
Lead Screw .................... ½" Diam., 8 Acme Threads per inch

Spindle Nose ....................... 1 ½" Diameter
Spindle Nose Taper ............. 8 Pitch National Form Threads
with reducing sleeve to take No. 2 Morse Taper

**HEADSTOCK**

Hole through Spindle .............. 25/32"
Back Gear ......................... 12 Pitch, 5/8" Wide
Backgear Shaft Bearings .......... 0.118" O.D., Bronze
Back Gear Ratio (approximate) ........... 6 to 1
Spindle Gear ...................... 16 Pitch, 32 Teeth, 7/8" Wide

**TAILSTOCK**

Tailstock Ram Travel .................. 1 ½" Diameter
Tailstock Ram Graduations ...... 0 to 3" by 1/10ths
Tailstock Set-Over, Forward or Back ...... ¾"

Cross Feed Travel .................. 6 1/2"

**CARRIAGE**

Cross Feed Screw .................. ½" Diameter, Acme Threads
Feed Screw Collar Graduations ........ 0 to 0.1" by .001"

Tool Post Slide Travel .............. 2 3/4"
Tool Post ................... ⅜" x ⅞" slot to take ⅜" Tool Holes
or Tool Holder for ⅜" Tool Bits

Tool Post Swivel .......... Graduated 0 to 90° right and left

Motor Recommended .............. ½ or 1 ½ HP, 1725 RPM

Motor Mounting .................. Adjustable Base

Built-In Motor Control Switch .......... 15 Ampere

Switch is for single phase current only

3-phase switch is No. 57-300 (page 6)

Countershaft Spindle .................. Roller Bearings

V-Belts for Complete Drive ............. ⅞" Wide

Motor Pulleys .................. 2-step Drive Pulleys

**DRIVE UNIT**

The Atlas Quick-Change mechanism speeds up threading
and every lathe operation requiring power feed by
providing instant finger-tip selection of fifty-four threads or feeds.

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Bed Length</th>
<th>Between Centers</th>
<th>Overall Length</th>
<th>Shipping Weight</th>
<th>Code Word</th>
</tr>
</thead>
<tbody>
<tr>
<td>QC42</td>
<td>42&quot;</td>
<td>24&quot;</td>
<td>48&quot;</td>
<td>280 lbs.</td>
<td>ZEODY</td>
</tr>
<tr>
<td>QC54</td>
<td>54&quot;</td>
<td>36&quot;</td>
<td>60&quot;</td>
<td>310 lbs.</td>
<td>ZEOJD</td>
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</tbody>
</table>

Both Models: Overall Depth = 26", Overall Height = 19 ½"

**EQUIPMENT FURNISHED**

Reversible Automatic Power Cross Feed; Reversible Automatic Power Longitudinal Feed; Graduated Compound Rest; Tool Post, Ring, and Rocker; Quick-Change Gear Mechanism; Threading Dial; Rapid-Change Countershaft with Motor Mounting Bracket; Belts and Pulleys for Complete V-Belt Drive; Motor pulley is furnished for ⅜" diameter motor shaft — dealer can supply bushings for ⅜" diam. motor shafts; 15-ampere Motor Control Switch and Cord — switch is for single phase current only, 3-phase switch is No. 57-300 (page 6); 60-Hole Indexing Mechanism; 6" Face Plate; Tool 60° Lathe Centers; Reducing Sleeve for Headstock Center; Wrench; Instruction Book — Atlas "Manual of Lathe Operation."
10" LATHES with STANDARD CHANGE GEARS

- Wide Thread-Cutting Range with Change-Gears Furnished (4 to 96 per inch, Standard; Metric .5 to 7 mm., Standard)
- Headstock Spindle Is Timken Tapered Roller Bearing Equipped for Service and Versatility
- Massive, Precision-Ground Bed Ways
- 16 Spindle Speeds for Efficiency in Every Lathe Job
- Reversible Automatic Power Cross and Longitudinal Feeds are Standard Equipment
- Back Gears for Power on Heavy Cuts
- Complete V-Belt Drive for Efficient Power Transmission
- Operates from a 1/3 or 1/2 HP Motor

SPECIFICATIONS

Swing over Bed: 10"
Swing over Carriage: 7 1/4"

CAPACITY

Threading Range: 4 to 96 Standard, Right or Left
Hand: Metric, .5 to 7mm, Standard
Cutter Capacity: 7/8" (see page 113)

No. of Spindle Speeds: 16 (8 direct; 8 Backgeared)
8 Direct Spindle Speeds: 641, 326, 168, 84, 42, 21, 10.5, 5.25 RPM
8 Backgeared Spindle Speeds: 28, 45, 70, 100, 137, 200, 290, or 355 RPM

SPEEDS AND FEEDS

Spindle: .010", .008", .006", .005", .003", .002", .001"
Feed (Right or Left) per Revolution of Spindle: .010", .008", .006", .005", .003", .002", .001"

Lead Screw: 3/8" Diam., 8 Acme Threads per inch
Change Gears Furnished: 16

Spindle Nose: 8 Pitch National Form Threads
Spindle Nose Taper: Bored for No. 3 Morse Taper

HEADSTOCK

(Continued)

Back Gears: 12 Pitch, 7/8" Wide
Backgear Shaft Bearings: Chrome Bronze
Backgear Ratio, (approximate): 6 to 1
Spindle Gear: 16 Pitch, 32 Teeth, 7/8" Wide

TAILSTOCK

Tailstock Ram: 11/4" Diameter
Tailstock Ram Travel: 2" (2"

Tailstock Ram Graduations: 0 to 3" by 1/16ths
Tailstock Set-Over, Forward or Back: 7/4"

Cross Feed Travel: 6/4"
Cross Feed Screw: 5/8" Diameter, Acme Threads
Feed Screw Collar Graduations: 0 to 0.1" by .001"

CARRIAGE

Tool Post Slide: 5/8" Diameter
Tool Post Swivel: 5/8" x 7/16" slot to take 3/4" Tool Bits or Tool Holder for 1/4" Tool Bits

Drive Unit

Motor Recommended: 1/2 or 1/2 HP, 1725 RPM
Motor Mounting: Adjustable Base
Motor Controls: Built-in Motor Control Switch

DRIVE UNIT

Drive Pulleys: 2-step

ORDERING INFORMATION

Model No. Bed Between Centers Overall Length Overall Depth Overall Weight Shipping Wt. Code
TH42 42" 24" 46" 26" 191/2" 270 Lbs. YEPLA
TH54 54" 36" 58" 26" 191/2" 305 Lbs. YEPOP

EQUIPMENT FURNISHED

Reversible Automatic Power Cross Feed; Reversible Automatic Power Longitudinal Feed; Graduated Compound Rest; Tool Post, Ring and Rocker; Complete Set of Change Gears to Cut Standard Threads from 4 to 96 per inch and standard metric threads from .5 to 7mm.; Threading Chart, Threading Dial; Quick-Change Countershaft with Motor Mounting Bracket; Belts and Pulleys for Complete V-Belt Drive; Motor pulley furnished is for 1/2" diameter motor shaft — dealer can supply bushings for 1/2" diam. motor shafts; 15-Ampere Motor Control Switch and Cord — switch is for single phase current only, 3-phase switch is No. 57-300 (page 6); 50-Hole Indexing Mechanism; 6" Face Plate; Two 60" Lathe Centers; Reducing Sleeve for Headstock Center; Wrench; Instruction Book — Atlas "Manual of Lathe Operation."

Atlas TH-series lathes are equipped with change gears and threading dial for cutting all threads, right or left hand, from 4 to 96 per inch, in these standards: Natl. Coarse (US), Natl. Fine (SAE), Acme, Square and Whitworth.
LOW COST PRECISION LATHES
DESIGNED FOR GREATER ACCURACY
EFFICIENCY AND PRODUCTION

An Atlas back-gared screw-cutting lathe meets every requirement of today's shop. It has accuracy for the finest tool work, strength and power for heavy jobs, rugged materials and large bearing surfaces for long trouble-free service. In addition, it has many modern features for simple, efficient operation. It is the only low-cost lathe that incorporates all of these important features.

TIMKEN EQUIPPED SPINDLE

The Atlas 10" lathe headstock spindle turns on two Timken tapered roller bearings. Specified for continuous production work, these fine bearings, with their tapered design and positively aligned rolls, maintain spindle alignment and carry radial and thrust loads with a minimum of friction. As a result, Atlas lathes are ideal for such high-spindle-speed work as woodturning, metal spinning and plastics machining, as well as turning at normal speeds.

The headstock spindle is machined from a solid bar of fine-grained steel, accurately ground — a perfect surface for the bearings on which it turns.

PRECISION GROUND BED

The bed is a single heavy, massive, close-grained semi-steel casting with box ribs every four inches to brace the ways against torque — wide thick flat-type ways at top and inner ribs at bottom maintain rigid alignment under heavy loads. The ways are first rough-milled, seasoned naturally, finish-milled, then given their final precision finish by special built precision grinding machines. Tops, bottoms and sides of the ways are ground — all eight surfaces are aligned to within .001" in all planes. The Atlas lathe bed is a rugged precision foundation that assures continued accuracy in the complete range of lathe operations.

16 SPINDLE SPEEDS

Two-step pulleys from motor to countershaft and four-step pulleys from countershaft to spindle give 16 speeds between 28 and 2072 RPM with standard 1725 RPM motor — correct speeds for every lathe operation in metals, woods and plastics within the capacity of the machine. 8 speeds are direct, 8 backgeared.

COMPLETE V-BELT DRIVE

A complete V-belt drive is furnished. The combination of V-belts, V-pulleys, and adjustable countershaft delivers maximum power to the spindle.

BACKGEARED POWER

Heavy oversized backgears reduce spindle speed to give extra power for heavy cuts and provide correct surface speeds for large diameter work. The backgear shaft runs on Oifeite bronze bearings. Backgears are covered by an iron safety guard.

POWER CROSS AND LONGITUDINAL FEEDS

The power cross feed speeds up all facing operations. Power longitudinal feeds make quick, easy work of turning operations, and simplify cutting right or left hand threads. These two features are standard equipment on all 10" Atlas lathes. Rotation of lead screw may be reversed instantly while lathe is running, changing travel of both cross and longitudinal power feeds.
FLOOR STANDS

A rigid foundation for accurate lathe work. Legs are heavy iron castings ribbed and cross-braced for rigidity. Legs alone weigh 95 pounds. Lathe mounts with each leg directly over a floor leg, anchoring securely. Height 33 3/4". Bottom board handy for tools and accessories.

Floor Stands for QC and TH Model 10" Lathes WITH HORIZONTAL COUNTERSHAFT

<table>
<thead>
<tr>
<th>No.</th>
<th>For Bed Length</th>
<th>Weight</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>10F-442B</td>
<td>42&quot;</td>
<td>166 lbs.</td>
<td>YEPRY</td>
</tr>
<tr>
<td>10F-442D</td>
<td>54&quot;</td>
<td>176 lbs.</td>
<td>YERAN</td>
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</tbody>
</table>

| No. | FLOOR LEGS ONLY. YEVAR. 110 lbs. |

MOTORS

Atlas heavy duty motors are built especially for the tough job. They are equipped with precision ball bearings — may be operated in any position: horizontal, vertical or inverted. Have 5/8" single-end shaft.

<table>
<thead>
<tr>
<th>No.</th>
<th>HP</th>
<th>Volt</th>
<th>RPM</th>
<th>Cycle</th>
<th>Phase</th>
<th>Wt.</th>
<th>Code</th>
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<tbody>
<tr>
<td>2730</td>
<td>1/2</td>
<td>115-230</td>
<td>1725</td>
<td>60</td>
<td>Single Phase</td>
<td>28</td>
<td>YIDEA</td>
</tr>
<tr>
<td>2720</td>
<td>1/2</td>
<td>115-230</td>
<td>1725</td>
<td>60</td>
<td>Capacitor Start</td>
<td>32</td>
<td>YIGRE</td>
</tr>
<tr>
<td>3831</td>
<td>3/4</td>
<td>220-440</td>
<td>1425-1725</td>
<td>50-60</td>
<td>Three</td>
<td>32</td>
<td>YIHER</td>
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<tr>
<td>3821</td>
<td>1/2</td>
<td>220-440</td>
<td>1425-1725</td>
<td>50-60</td>
<td>Three</td>
<td>32</td>
<td>YIHAJ</td>
</tr>
</tbody>
</table>

| No. | 10 Ft. Extension Cord and Plug for 1/2 and 3/4 HP single phase motors. YIDEG. 1 lb. |

HD REVERSING SWITCH

No. 420HD HEAVY-DUTY REVERSING SWITCH. A 1 HP drum-type switch for voltages up to 550 AC. Complete with mounting bracket, 6 foot heavy cord and plug, installation diagram. YICAD. 3 1/2 lbs.

REVERSING SWITCH

No. 6813 REVERSING SWITCH. 1 HP for voltages up to 550 AC. Ideal for average duty. Mounts on bench. Complete with switch cord, installation diagram. YOKTO. 1 1/2 lbs.

3-PHASE MOTOR SWITCH

No. 57-300 THREE PHASE MOTOR CONTROL SWITCH. A thermal overload 3 pole motor for 3-phase circuits. Complete with mounting bracket and cable-covered motor connection cord. ZEBAR. 8 lbs.

INDEPENDENT CHUCKS

No. 6605 6" MEDIUM DUTY INDEPENDENT CHUCK. Ideal for average shop requirements. Hand fitted reversible jaws and wrench. Threaded for 1 1/2"-8 lathe spindle. YIAGH. 10 lbs.

No. 10-8858 8" LIGHT DUTY INDEPENDENT CHUCK. Hand fitted reversible jaws and wrench furnished. Threaded for 1 1/2"-8 lathe spindle. YIGIK. 15 1/2 lbs.

MEDIUM DUTY UNIVERSAL CHUCK

Has self-centering jaws controlled by turning bevel-gear driven scroll. Ideal for centering round or hexagonal stock. Two sets of jaws (inside and outside) furnished.

No. 8-435 5" MEDIUM DUTY UNIVERSAL CHUCK. Wrench furnished. Body threaded for 1 1/2"-8 lathe spindle. YEZZO. 8 1/2 lbs.

HEAVY DUTY UNIVERSAL CHUCK

Ideal for heavy-duty jobs and production work. Accurate self-centering jaws are controlled by turning bevel-gear driven scroll. Two sets of jaws furnished.

No. 10-7956 6" HEAVY DUTY UNIVERSAL CHUCK. Complete with two sets of jaws and wrench. Body threaded to fit 1 1/2"-8 lathe spindle. YIGLO. 11 1/2 lbs.

DRAW-IN COLLET CHUCK

The draw-in collet chuck attachment is the most accurate method for chucking work between 1/32" and 1/2" in diameter. It is used in making precision tools, instruments, gauges, and in the production of small parts when extreme accuracy is demanded. The attachment consists of a hollow draw-in spindle with handwheel control, tapered closing sleeve.

Hollow construction permits rods to be passed through the lathe spindle — handwheel releases and tightens the collet on the work. Tapered sleeve is ground inside and outside to insure extreme accuracy. Lathe must be stopped to open and close collet.

No. 750 DRAW-IN COLLET CHUCK ATTACHMENT. Includes draw-in spindle, tapered closing sleeve, less split holding collet. YAIRL. 3 lbs.


SPINDLE NOSE CAP

No. 54B SPINDLE NOSE CAP protects lathe spindle threads. Ideal for all collet chuck operations. Does not have to be removed to change collet. YETRE. 12 oz.
**CLAMP DOG**

No. 241 CLAMP-TYPE DOG. For holding square, rectangular, hexagonal, or round work. Clamp bars are forged steel, screws heat treated. Opens 2⅜". YAPGA, 1 lb.

**DOGS**

No. 142A SET OF 4 LATHE DOGS to handle diameters up to 1⅛". Forged steel with heat treated screws. YAPAG, 2 lbs.

**DRILL PAD**

No. 360 DRILL PAD. Mounts in tailstock ram as rigid brace for drilling flat or square work with drill in headstock. No. 2 Morse taper shank. 3½" diameter face. YATOP, 1½ lbs.

**CROC'TH CENTER**

No. 356 CROC'TH CENTER. Automatically centers round work in tailstock ram for accurate cross-drilling. V-slot carefully machined. 2" diameter, 1" slot. Ground steel shank is No. 2 Morse taper. YATRY, 1 lb.

**LATHE CENTER**

No. 9-88 60° LATHE CENTER with No. 2 Morse taper shank for headstock or tailstock. YAVAN, 8 oz.

No. 138 REDUCING SLEEVE. No. 3 to No. 2 Morse taper. YEYNL, 6 oz.

**CENTER EJECTOR BAR**

No. 790 CENTER EJECTOR BAR, length 13½". Removes center without burring center or sleeve. YEMPY, 2 lbs.

**BALL BEARING**

**TAILSTOCK CENTER**

No. 348 BALL BEARING CENTER. Center rotates on enclosed ball bearing. Recommended for high speed operations. Ideal for the average shop. No. 2 Morse taper shank. YEMMO, 1 lb.

**TIMKEN BEARING CENTER**

No. 349 TIMKEN BEARING CENTER. Pair of matched precision Timken tapered roller bearings absorb radial and thrust loads. Bearings are grease packed, preloaded, and sealed for long service. Ideal for high speeds and deep cuts on heavy work. No. 2 M.T. shank. YIHAY, 1½ lbs.

**FACE PLATES**

No. 365 is 8½" diameter for holding large work. Threaded to fit 1½"-8 spindle. Accurately machined grey-iron casting. 8 slots for clamping work firmly in position.

No. 365 8½" FACE PLATE. YAVSY, 7 lbs.

No. 15 6" FACE PLATE as furnished with Atlas 10" lathe. YEYMP, 3 lbs.

**ANGLE PLATE**

No. 740 ANGLE PLATE. Simplifies off-center work and machining of odd-shaped pieces. Bolts to face plate. Horizontal face is 6" x 4½" x ⅝". Vertical face is 6" x 2½" x ⅝". YAVYS, 10 lbs.

**DRILL CHUCK**

Rugged Jacobs chuck for accurate drilling and countersinking. Heat-treated steel jaws and body. Adapted to 10" lathe headstock and tailstock spindles with No. 378 arbor (below).

No. 40-60 JACOBS DRILL CHUCK, capacity No. 70 drill to ½", complete with key-type wrench. YAHIB, 2 lbs.

No. 40-60 to adapt No. 40-60 chuck to 10" lathe headstock or tailstock. YAHYA, 8 oz.

**CENTER REST CHUCK**

The Jacobs center rest chuck supports centerless shafts in the lathe tailstock — ideal for armatures. Adjustable durable bronze jaws form accurate bearing in which shaft rotates in exact position. No. 377 arbor is required to adapt chuck to No. 2 M.T. lathe tailstock.

No. 445 JACOBS CENTER REST CHUCK, capacity ⅜" to 3¼". YAHOC, 3 lbs.

No. 377 ARBOR to adapt 445 chuck to No. 2 M.T. lathe tailstock. YAHUD, 8 oz.

**HEADSTOCK CHUCKS**

These Jacobs chucks are accurate and convenient for holding small-diameter work. Hollow construction permits handling long shafts through 10" lathe headstock spindle. Heat-treated steel jaws and body. Threaded directly on 1½"-8 lathe spindle — No. 377 can be used in tailstock with 377 arbor (below).

No. 375 JACOBS HEADSTOCK CHUCK, capacity ⅜" to ⅝". Wrench furnished. Can be used in tailstock with 377 arbor. YAGYE, 4 lbs.

No. 377 ARBOR for 375 chuck. YAHUD, 8 oz.

No. 375B JACOBS HEADSTOCK CHUCK, capacity 3/16" to ⅝". Wrench furnished. Not adaptable to tailstock. YAHCO, 5 lbs.

**PIECE CENTER**

No. 755 SET OF PIPE CENTERS for supporting pipe in tailstock. Includes the cones listed below, a tailstock arbor and a thrust bearing. YAWAN, 12 lbs.

No. 757 PIPE CENTERING CONE, capacity ⅞" to 8". YEYTA, 9 lbs.

No. 756 PIPE CENTERING CONE, capacity ¼" to ⅞". YEYUZ, 3 lbs.

No. 758A TAILSTOCK ARBOR, No. 2 M.T. shank. YEYVE, 2 lbs.
Atlas. 10" LATHE ATTACHMENTS

TOOL HOLDERS


No. 139L LH TOOL HOLDER. YAUDZ. 1 lb.
No. 139R RH TOOL HOLDER. YAUHD. 1 lb.
No. 139 STRAIGHT TOOL HOLDER. YAUCY. 1 lb.

1/4" and 3/8" CUTTER BITS

High speed 1/4" cutter bits, ready-ground for use in Atlas tool holders—permits wide range of operations. Set includes R. H. and L. H. turning and facing, round nose, 60° V-threading. 3/8" unground bits listed below are for use in tool post.

No. 386 SET OF 6 FORMED CUTTER BITS 1/4" x 1/4".
Includes bits shown. YARJA. 1 lb.

 CUT-OFF TOOL

Quick, clean cut-offs. Drop-forged holder with 3/8" shank. 3/2" high-speed ready-ground blade.

No. 590 CUT-OFF TOOL with blade. YAUFJ. 1 lb.
No. 592 EXTRA BLADE. YAURM. 4 oz.

THREADING TOOL

Ground to cut 60° threads. Has 5/8" shank. Resharpened easily, accurately by grinding top edge only. Clamp screw holds tool rigidly.

No. 430 THREADING TOOL. YAUXT. 1 lb.

KNURLING TOOL

Floating construction makes rollers self-centering. 3/4" shank. Hardened tool steel rollers form gripping surface for handles, nuts, markers, etc.

No. 345 KNURLING TOOL, medium diamond-shape knurls. YAUSP. 1 lb.
No. 343 EXTRA KNURLS, medium diamond. YEGYJ. 2 oz.

TOOL-POST TOOL SET


BORING TOOL HOLDER

No. 990 BORING TOOL HOLDER. A rigid support for boring tools. Complete with clamp ring with 1 1/2" OD and 1 1/16" ID, V-block, plain block, and one 1/4" high speed boring tool. Clamp ring has 3 slots at different heights to hold 1/8", 1/4", 5/32" and 3/32" diam. tools. YIBOG. 1 lb.

No. 6601 5/8" Boring Tool YOKKY 7 oz.
No. 6602 5/16" Boring Tool YOLAR 6 oz.
No. 6603 1/4" Boring Tool YOLIT 5 oz.
No. 6604 3/16" Boring Tool YOLOV 4 oz.
No. 6605 1/4" Internal Threading Tool YOLRA 5 oz.

TURRET TYPE BORING SET

Provides maximum rigidity. Steel turret head has heavy clamp screw for locking bars in rigid position — replaces lathe tool post. Complete with turret head. 3/8" x 11" boring bar with two 3/8" high-speed cutters, 1/2" x 8" boring bar with two 3/8" high-speed cutters, 3/8" x 6" solid high speed boring tool.

No. 970 TURRET TYPE BORING SET complete as shown. YIBED. 8 lbs.

BORING TABLE and VISE

No. W68-2 A BORING TABLE for 10" lathes. Replaces lathe compound rest. Holds work rigidly while cut is taken with boring bar mounted in headstock or between centers. One jaw can be swiveled to grip irregular work. Vise and wrench furnished. ZEFFZ. 12 lbs.

STEADY REST

No. 10-325A STEADY REST for 10" lathes. A rigid support for accurately machining long pieces. Clamps to bed ways. Top hinged so work may be inserted and removed without disturbing jaw settings. 2-3/8" capacity. YIAWY. 5 lbs.

FOLLOWER REST

No. 425 FOLLOWER REST for 10" lathes. Insures accurate work on long slender rods. Quickly mounted on back of carriage dovetail slide — follows the cutting tool, holding work in rigid position. YAVNE. 3 lbs.
QUICK CHANGE ATTACHMENT

Converts any 10-inch Atlas lathe with standard change gears into a quick-change gear lathe. Speeds up threading and every lathe operation requiring power feed by providing instant fingertip selection of fifty-four threads or feeds — forty-five are obtained by merely shifting two levers on the gear box, and an additional nine by changing the position of a sliding gear.

Work range includes practically every feed from .0042" to .250" per revolution of spindle, and all threads right or left hand from 4 to 240 in the following standards: National Coarse (USS), National Fine (SAE), Acme, Square and Whitworth. Does not in any way limit the odd thread and feeds range capacity of the Atlas lathe. By varying the gear train with standard Atlas change gears, hundreds of additional threads and feeds are available. All gears in box are precision-cut steel. Easy to install.

Important: If attachment is to be used on lathe with 3/8" diameter lead screw, specify this in ordering. Drilling template, washer, and special mounting instructions will be furnished at no extra cost.

No. 6800 QUICK-CHANGE ATTACHMENT for Atlas 10" lathes. Complete as shown with two-piece guard and instructions for installation. YJON. 45 lbs.

METRIC THREAD CUTTING ASSEMBLY

No. 6818 METRIC THREAD CUTTING ASSEMBLY for Atlas 10" quick-change lathes. Consists of 12 change gears for cutting metric threads from .25 to 7 MM. Gear setups are shown on page 60 of Atlas Quick-Change Hand Book. Spacers, nuts, bolts, washers furnished. YIREM. 4 lbs.

CARRIAGE STOP

No. 6810 CARRIAGE STOP. Simplifies accurate duplicate work on turning, boring, facing. Clamps on front bed way. Will not automatically stop carriage. YIDAEI. 1 lb.

CROSS SLIDE STOP

Cross Slide Stop shows depth to stop cross feed. Clamps to cross slide dovetail. Will not automatically stop cross feed.

No. 725 CROSS SLIDE STOP. YAIIBT. 8 oz.

LATHE LAMP

No. 745 LATHE LAMP improves vision by throwing plenty of light directly on the work—eliminates eye glare by proper deflection. 15" flexible cable allows bulb and shade to be moved to any position. 11" rigid post clamps by mounting brackets to base of bed. Bulb joint in shade, push thru switch. Cord, plug furnished. YAIKID. 3 lbs.

TOOL ROOM TAPER ATTACHMENT

No. 700 TOOL ROOM TAPER ATTACHMENT for Atlas 10-inch lathes has the extra weight and rigidity required for extreme accuracy in production taper work. Two sets of graduations show taper both sides of center line, one in degrees, one in inches per foot. Tool is fed by slotted draw bar attached to carriage cross slide. Maximum travel, one setting — 6¼". Range, right or left, is 7° 10' (3" per foot). YAJDO. 15 lbs.

TAPER ATTACHMENT

The No. 760 was developed by Atlas engineers to meet the demand for an accurate, low price taper attachment. Quickly installed, simple to operate. Slotted draw bar connects to carriage cross slide and feeds tool at desired taper. Index plate is graduated 7° and 3° both sides of center line, 6° max. travel, one setting. Range 7° (2½" per ft.) right or left.

No. 750 TAPER ATTACHMENT for Atlas 10" lathes. YAJBE. 11 lbs.

SAFETY BELT GUARDS

No. 10F-720 SAFETY BELT GUARDS for Atlas 10" lathes with horizontal countershaft. Eliminate the hazards of exposed belting — provide a cover for all lathe belts as required by safety codes in many states. Both guards are light, durable casings with pin hinges for quick raising. Ready tapped for easy installation. YEVSE. 22 lbs. Per set.

MANUAL OF LATHE OPERATION

No. 6600 MANUAL OF LATHE OPERATION. Illustrates and describes in easy-to-understand language the operation and care of modern screw-cutting lathes. Indexed and arranged for quick reference. 272 pages, 366 pictures, 89 charts and tables. If manual is to be used with Atlas lathe, give model number when ordering. ZOFKO. 1 lb.
MILLING ATTACHMENT

This attachment equips the Atlas 10-inch lathe for face milling, cutting keyways and slots, milling dovetails, squaring shafts, making dies and moulds, etc. Quickly and easily installed by removing compound rest and clamping base of milling attachment in its place. The milling attachment can be swiveled completely to hold work at any angle. Position of vice is controlled by a feed screw with micrometer graduated collar. Vice slide is graduated, and vise can be swiveled to any desired angle.

No. 500A MILLING ATTACHMENT for Atlas 10-inch lathes. Complete as shown including graduated swivel vise, vertical feed screw with graduated collar, flat block, V-block for round work. YAKBA. 19 lbs.

Vertical Feed .................................... 3/4" Cross Feed .................................... 3/8" Vise Capacity .................................... 2 1/2" x 2 1/2"

CUTTER HOLDING SET

This set holds the milling cutter in headstock spindle. Consists of draw bar, sleeve, and one arbor for 1/2" straight shank cutters.

No. 945 CUTTER HOLDING SET. Includes: draw bar, sleeve and arbor. YERYAT. 3 lbs.

R. H. SPIRAL END MILLS

For general milling operations — slots, facing and reaming, squaring and splitting shafts, cutting straight keyways. Adapted to holding set with end mill bushings below. 4 oz. each.

<table>
<thead>
<tr>
<th>No.</th>
<th>Diameter</th>
<th>Length of Flute</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>576A</td>
<td>1/2&quot;</td>
<td>11/16&quot;</td>
<td>YAKCE</td>
</tr>
<tr>
<td>576B</td>
<td>3/16&quot;</td>
<td>3/16&quot;</td>
<td>YAKD</td>
</tr>
<tr>
<td>576C</td>
<td>7/32&quot;</td>
<td>3/16&quot;</td>
<td>YAKD</td>
</tr>
<tr>
<td>576D</td>
<td>1/8&quot;</td>
<td>7/32&quot;</td>
<td>YAKE</td>
</tr>
<tr>
<td>576E</td>
<td>5/32&quot;</td>
<td>11/32&quot;</td>
<td>YAKB</td>
</tr>
</tbody>
</table>

END MILL BUSHINGS

Required to adapt 576 straight shank end mills to No. 945 holding set. Not required for 576E end mills.

No. 563E FOUR END MILL BUSHINGS. YALE&D. 6 oz.

WOODRUFF KEYWAY CUTTERS

Designed especially for cutting Woodruff keyways — also used for milling slots, grooves, T-slots, etc. Held directly in arbor of No. 945 holding set. 6 oz. each.

<table>
<thead>
<tr>
<th>No.</th>
<th>Diameter</th>
<th>Thickness</th>
<th>Diam. Shank</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>575A</td>
<td>1/4&quot;</td>
<td>1/16&quot;</td>
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<tr>
<td>575B</td>
<td>3/16&quot;</td>
<td>1/16&quot;</td>
<td>1/16&quot;</td>
<td>YAKF</td>
</tr>
<tr>
<td>575C</td>
<td>5/32&quot;</td>
<td>1/16&quot;</td>
<td>1/16&quot;</td>
<td>YAKD</td>
</tr>
<tr>
<td>575D</td>
<td>3/16&quot;</td>
<td>1/16&quot;</td>
<td>1/16&quot;</td>
<td>YAMF</td>
</tr>
<tr>
<td>575E</td>
<td>5/32&quot;</td>
<td>1/16&quot;</td>
<td>1/16&quot;</td>
<td>YAFE</td>
</tr>
</tbody>
</table>

ANGULAR CUTTERS WITH THREADED HOLE

For face-milling, dovetailing, and cutting angles less than 90°. Included angle is 60°. Adapted to holding set with arbors listed below. 6 oz. each.

<table>
<thead>
<tr>
<th>No.</th>
<th>Thickness</th>
<th>Diam. Holes</th>
<th>Throat Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>576A</td>
<td>1/16&quot;</td>
<td>1/16&quot;</td>
<td>1/16&quot;</td>
</tr>
<tr>
<td>574B</td>
<td>9/16&quot;</td>
<td>1/2&quot;</td>
<td>20</td>
</tr>
</tbody>
</table>

ARBORS FOR ANGULAR CUTTERS

Required to adapt 576 angular cutters to No. 945 holding set. 8 oz. each.

<table>
<thead>
<tr>
<th>No.</th>
<th>For Como.</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>572</td>
<td>576A</td>
<td>YEWT</td>
</tr>
<tr>
<td>567</td>
<td>576B</td>
<td>YEWP</td>
</tr>
</tbody>
</table>

HEAVY-DUTY GRINDER

The 10-450 has the extra weight, strength and power for heavy jobs, plus the accuracy and all-round efficiency required to handle the finest internal and external grinding operations on a production basis. Ideal for grinding valves, valve seats, tools, dies, gauges, bushings, bearings, shafts, etc.

The main frame is a heavy casting. One end of the frame supports the motor, mounted on tilting bracket adjustable for belt tension. Mounts in tool post slot of the lathe compound rest. Coordinate-type clamp locks grinder securely in any vertical or radial position. Vertical position is adjusted by raising screw with knob control.

Has two lubricated-and-sealed-for-life ball bearings. Heavy-duty spindle is 5/8" diameter, accurately ground. Spindle takes 4" external wheel with 1/4" hole, and has socket machined to take taper and screw of quill for holding internal grinding wheels. External wheel is encased by iron guard, easily removed for mounting internal quill. Diamond wheel dresser is furnished.

Powered by a 1/2 HP 3450 RPM ball bearing motor — operates on 115 volt 60 cycle AC. Two-step balanced pulleys provide grinding spindle speeds of 4900 and 9100 RPM at full load. Belt is completely covered by safety guard. Note: Grinding operations require the reversing of the lathe spindle. Atlas reversing switch is listed below.

No. 10-450 GRINDER

Grinds External Diameters up to 2 1/2". Grinds Internal Diameters from 1/4" to 2 1/2". Internal Wheels Grind to Depth of 2 1/2". Base Swivels for Angular Grinding: 0 to 90°. Spindle Speeds: 4900 and 9100 RPM. Full load Motor operates on 115V, 60 C. AC. Other motors available on request.

GRINDING WHEELS

Medium Grit, No. 10-475 external wheel mounted on spindle and No. 10-476 internal wheel are furnished as standard equipment with the 10-450 lathe grinder.

<table>
<thead>
<tr>
<th>No.</th>
<th>Dia.</th>
<th>Grit</th>
<th>Wt. Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-475</td>
<td>2 1/2&quot;</td>
<td>1 lb.</td>
<td>YENKA</td>
</tr>
<tr>
<td>10-476</td>
<td>2 1/2&quot;</td>
<td>1 lb.</td>
<td>YENKJ</td>
</tr>
<tr>
<td>477/1</td>
<td>2 1/2&quot;</td>
<td>3 oz.</td>
<td>YANOH</td>
</tr>
<tr>
<td>477/2</td>
<td>2 1/2&quot;</td>
<td>3 oz.</td>
<td>YANKJ</td>
</tr>
<tr>
<td>477/3</td>
<td>2 1/2&quot;</td>
<td>5 oz.</td>
<td>YANOJ</td>
</tr>
<tr>
<td>477/4</td>
<td>2 1/2&quot;</td>
<td>5 oz.</td>
<td>YANOK</td>
</tr>
</tbody>
</table>

SPECIAL CUP WHEELS FOR O.D. of Reamers

2 1/2" 8 oz. YEVI

SPECIAL SQUARES Wheels for Face of Solid Reamers 3/16" 3 oz. YAOHY

REAMER-GRINDING ATTACHMENT

No. 550 REAMER-GRINDING ATTACHMENT. Use with No. 10-450 grinder for sharpening spiral, tipped or straight reamers and side teeth of spiral or straight end mills. Includes holder fixture, index finger, guide, and tension clamp. YAOLG. 4 lbs.

VALVE STEM and CUTTER GRINDING ATTACHMENT

No. 550 VALVE STEM and CUTTER GRINDING ATTACHMENT. Use with No. 10-450 grinder for grinding valve stems, taper screws, and valve seat cutting cutters. Includes V-block for valve stems, cutter clearance gauge. YAONJ. 3 lbs.

REVERSING SWITCH — Required for Grinding

No. 6813 REVERSING SWITCH. 1 HP for voltages up to 550 AC. Ideal for average duty. Mounts on bench. Complete with switch cord, installation diagram. YOKTO. 1 1/2 lbs.

SP-101 Blueprint for making Boring Bar, held between centers and driven by lathe dog. For boring work held in milling attachment or on boring table. YEROE.

BP-102 Blueprint for Gear Cutting Attachment. Mounts in milling vice, holds blank at one end, indexing gear at other. YERNA.
LEVER-TYPE CARRIAGE TURRET

Converts the Atlas 10-inch lathe into an efficient turret lathe. Screw machine for the manufacture of small parts on a production basis.

Composed of a four-way tool post turret, backslide tool post mounted on double tool cross slide. Double tool cross slide replaces the standard compound rest automatically and adapts the turret to the carriage cross slide dovetails.

The feed lever, furnished, is simply installed in place of the standard screw feed, cuts operating costs by speeding up all cross-carriage turret action.

Four-way tool post turret head may be released by the convenient lock handle and rotated quickly to any one of four operating positions, automatically indexed. Back-slide tool post permits a fifth position. Tool posts take 1/4" cutter bits. Adjustable stops at front and back of double tool cross slide may be set to indicate correct depths of cut. No. 690 "Multi-stop" (below) is recommended for quickly gauging length of cut.

No. 800 LEVER-TYPE CARRIAGE TURRET complete as shown above — feed lever, double tool cross slide, four-way turret, and backslide tool post. YIBF. 28 lbs.

No. 710 FEED LEVER ONLY for Carriage Turret, with connections. YIBFY. 8 lbs.

No. 671A DOUBLE TOOL CROSS SLIDE only. YAJUF. 10 lbs.

No. 673A FOUR-WAY TURRET only. YAJYG. 9 lbs.

No. 676A BACK SLIDE TOOL POST only. YAJZA. 3 lbs. Cutter bits not furnished.

No. 3855 SET OF 6 UNGROUND 3/4" CUTTER BITS. YARFY. 1 lb.

PLAIN-TYPE CARRIAGE TURRET

No. 670 PLAIN-TYPE CARRIAGE TURRET. Consists of the double tool cross slide, four-way tool post turret, and backslide tool post. Same as No. 800 except that it operates by the standard hand or power cross feed of the lathe. Turret head is located with tool instantly. Adjustable stops gauge depth of cuts. YAJOD. 22 lbs.

"MULTI-STOP"

No. 690 MULTI-STOP ATTACHMENT with mounting bracket and six adjustable stop screws for accurately gauging length of each cut. Mounts on front bed way near headstock. YHEFE. 3 lbs.

TAILSTOCK TURRET

Semi-automatic indexing head has six 1/4" holes for tool holders, each permitting a separate operation. Moving quick-acting hand-feed lever to extreme right unlocks turret head so next tool may be positioned; advancing feed lever locks head in position. Six adjustable stop screws at end of feed ram index automatically. Turret travel, 3-7/16".

No. 600 TAILSTOCK TURRET with head finish bored. Complete with special tailstock, lever feed, and stops. YAJEB. 39 lbs.

No. 600A TAILSTOCK TURRET with head unbored. Complete with special tailstock, lever feed, and stops. YAJEC. 39 lbs.

LEVER-TYPE TAILSTOCK

Speeds up any single production operation from the tailstock. Feed lever advances ram to work in an instant. Stop collar may be adjusted to gauge depth of cut.

Travel of Ram: 3/4" 
Ram Diameter: 1/4" 
Ram Bored for No. 2 M.T. 
Ram Graduations: 0 to 3" by 1/16ths 
Setover, Forward or Back: 3/4" 

No. 695 LEVER-TYPE TAILSTOCK as shown. YIBGO. 29 lbs.

LEVER-TYPE COLLET CHUCK

The ideal chucking method for fast, accurate duplicate work on hard stock between 1/32" and 1/8" diameter. Tapered with four turret attachments (shown on this page), it converts the Atlas ten-inch lathe into a high-speed high-feed production screw machine.

No. 9008 LEVER-TYPE COLLET CHUCK ATTACHMENT for Atlas QC and TH model 10" Lathes. Furnished complete as shown with hollow torque tube, hand lever control, tapered closing sleeve, spindle nose cap, support bracket, mounting instructions, less split holding collet. YIBAC. 6 lbs.

No. 751 SPLIT HOLDING COLLET for round work — specify diameters.


LATEX COOLANT SYSTEMS

An Atlas coolant system helps boost production, cut tool wear, and improve work finish at low cost. The complete system can be installed on any machine in a few minutes, and switched from one machine to another if desired. Parts are gearless, centrifugal design, engineered for long service. Tanks are heavy gauge steel.

No. W89 UNIVERSAL PUMP and 5 gallon tank. Universal motor: 115 V, AC/DC. 6000 RPM. Capacity: 216 to 450 GPH, soluble oil (50% solution) — 54 to 120 GPH, lard oil (70 F.) — 144 x 280° x 454° tank. ZEJAZ. 245 lbs.

No. W88 INDUCTION PUMP and 3½ gallon Tank. Induction-type motor: 115 V, 60 cycle AC, 3400 RPM. Capacity: 114 to 225 GPH, soluble oil (50% solution) — 10 to 90 GPH, lard oil (70 F.) ZEJIZ. 21 lbs.

Both pumps furnished with extension cord, push switch, plug.

Feed and Return Systems

No. W96 FEED and RETURN UNIT for Atlas 10" lathes. Furnished with 3/8 x 3/8" (ID) plastic feed line and 4 x 3/8" (ID) plastic return hose and nipple. 3/8" flexible metal tubing for setting nozzle position, control valve, 3/8" adjustable tee pipe plug, with thumb screw. ZEJFM. 4 lbs.

No. W97 FEED and RETURN UNIT same as above but without universal mount for other lathes, screw machines, etc. ZEJRG. 45 lbs.

Complete Units

No. W114 COOLANT SYSTEM complete with No. W89 pump and tank, and No. W96 feed and return unit. ZELED. 31 lbs.

No. W115 COOLANT SYSTEM complete with No. W89 pump and tank and No. 97 feed and return unit. ZEKYH. 21 lbs.

No. W111 COOLANT SYSTEM complete with No. W88 pump, tank and No. 96 feed and return unit. ZELAC. 21 lbs.

Oil Pans for Atlas 10" Lathes.

Heavy-gauge steel with splash guard. Have outlet nipple for 3/8" ID return hose.

No. For Bed Lengths Code Wt.

6642 36" & 42" ZEKAB 20 lbs.

6654 48" & 54" ZEJZ 25 lbs.
AUTOMOTIVE SERVICING EQUIPMENT

There's good profit in automotive machine work — when you can handle it in your own shop. And an Atlas lathe is "King of All Profit Tools" for automotive work — it handles more jobs than any other dozen service tools — and it handles them better, faster. As the manager of one of the South's largest service shops put it, "Now that we have an Atlas, we get most of our machining jobs out of the way in one-tenth of the time ... and we've speeded up our work on generators and starters 50%.

An Atlas lathe, with attachments listed below and on preceding pages, equips the garage to handle 44 profitable service jobs, saves time, speeds service — it quickly pay for itself.

MICA UNDERCUTTER

For servicing armatures. Attaches to back of carriage cross slide where it can be put in action in a second or moved out of way when not in use. Saw is fed through mica by turning lathe carriage handwheel — the new grooves are always clean, square, parallel, and uniform in depth. Height of cutter arbor is adjusted by elevation screw with hand-wheel control. Saw arbor driven by a 7500 RPM motor. Capacity under arbor, 5".

No. 510A MICA UNDERCUTTING ATTACHMENT for Atlas 10" lathes, complete as shown. Motor, 115 volt, universal AC or DC. Furnished: Set of 5 high speed undercutting saws (.015", .020", .025", .030" and .035"), extension cord, switch, plug. YOBIHA. 11 lbs.


ARMATURE CHUCK KIT

Provides a quick accurate method for holding centered or centerless armature shafts. Jacobs headstock (driving) chuck has heat treated jaws and body. Center rest chuck supports shaft in tailstock — has adjustable, durable bronze jaws that form accurate bearing in which shaft rotates in exact position.

No. 9-441 ARMATURE CHUCK KIT. Complete with two Jacobs chucks, key-type wrench, arbors for No. 2 M.T. spindles, attractive case. YEJOJ. 8 lbs.

COIL WINDING ATTACHMENT

No. 780 COIL WINDING ATTACHMENT. Simplifies accurate coil winding, replaces tool post — has fibre wire guide and spring adjustment on spool for correct tension. Quickly mounted and removed. YAWEP. 2 lbs.

WOODWORKING ATTACHMENTS

WOODTURNING CHISELS

Professional-type chisels with forged steel blades. Handles are polished maple, extra long, with strong brass ferrules. Approximate length, 17 inches.

No. W13A SET OF 8 CHISELS, as shown, consisting of one each of the following: 3/16" gouge, 5/16" gouge, 1" gouge, 1/8" skew, 1" skew, 1/2" round nose, 3/8" spear point, 5/8" parting. YAYRO. 6 lbs.

No. L33 SET OF 5 CHISELS consisting of one each of the following: 3/16" gouge, 5/16" gouge, 1/2" skew, 1/2" spear point, 5/8" parting. YIKYR. 3 lbs.

FACE PLATE

No. L5-365 COMBINATION FACE PLATE for 10" lathe. An 81/2" diameter face plate for wood and metal operations. Threads on 10" lathe spindle; has holes for wood screws and four 1/2" slots for metal work. YAVUR. 8 lbs.

No. L87-15 WOODWORKING FACE PLATE. 3/8" face plate for woodwork, threads on 10" lathe spindle. Three holes for wood screws. YEOLO. 2 lbs.

SPUR CENTER

For driving work mounted between centers, replaceable center point. Morse taper shank.

No. Shank Wt. Code
350 No. 2 Morse Taper 1 lb. YAWY
L3-147 Extra Point for No. 350 2 oz. YEFIV

CUP CENTER

Supports work in tailstock, ground and hardened steel with replaceable center point. Morse taper Shank:

No. Shank Wt. Code
351 No. 2 Morse Taper 1 lb. YAWUS
L3-147 Extra Point for No. 351 2 oz. YEWIV

SCREW CENTER

For facing and hollowing operations. Alloy steel with replaceable center. Morse taper shank. Diameter 2":

No. Shank Wt. Code
352 No. 2 Morse Taper 1 lb. YAYYT
355 Extra Center Point 2 oz. YFEVE

HAND REST

Clamps to bed and furnishes rigid support for chisel. Has sliding clamp plate to protect bed. T-rest can be swiveled to any position. One 4" and one 12" T-rest furnished.

No. For Wt. Code
330 10" Lathes 6 lbs. YAWOR

HAND REST SWIVEL

No. W37A HAND REST SWIVEL for 10" lathes. Clamps to carriage in place of compound rest — can be turned and locked at any angle. Furnished complete with 4", 8" and 12" T-rests. When ordering, please give lathe serial number when ordering, YOCKET, 4 lbs.

EXTENSION BED

No. 6112 EXTENSION BED. For handling extra long wood work. 18" long. For Atlas 10" lathes. Please give lathe serial number when ordering, YOBBE, 40 lbs.
**SPECIFICATIONS**

**CAPACITY**

- Swing Over Bed: 6"  
- Swing Over Carriage: 3½"  
- Capacity between Centers: 18"  
- Threading Range: 8 to 96 Standard, Right or Left Hand—Metric, .5 to 3 mm. Standard  
- Collet Capacity: 9/32" (see page 14)  
- Overall Dimensions: 33½" x 27" x 12" high

**SPEEDS AND FEEDS**

- Feeds (Left or Right) per Revolution of Spindle: .0078", .0048", .0039" or .0024"  
- Lead Screw: ½" Diam., 16 Acme Threads per inch

**DRIVE UNIT**

- Motor Recommended: 1/4 or 1/2 HP, 1725 RPM  
- Motor Mounting: Bench  
- Countershaft Spindle Bearings: Oiltite Bronze

**HEADSTOCK**

- Spindle Bearings: Timken Tapereu  
- Roller Bearings with Thrust Take-up Collar and Nut  
- Spindle Nose: 1" Diameter, 10 Pitch NS Threads  
- Spindle Nose Taper: No. 2 Morse Taper  
- Hole through Spindle: 17/32"  
- Back Gears: 20 Pitch, 3/8" Wide  
- Backgear Shaft Bearings: Oiltite Bronze  
- Spindle Gear: 24 Pitch, 32 Teeth, 7/16" Wide

**CARRIAGE**

- Cross Feed Travel: 4½"  
- Cross Feed Screw: ¼" Diameter, Acme Thread  
- Tool Post Slide Travel: 13/32"  
- Tool Post: 13/32" x 3/8" slot to take 3/8" bits or tool holder for 3/16" bits

**TAILSTOCK**

- Tailstock Ram: 3/8" Diam. Bored for No. 1 Morse Taper  
- Tailstock Ram Travel: 11/4"  
- Tailstock Set-Over, Forward or Back: 9/16"
Atlas 6" LATHE ATTACHMENTS

FLOOR STAND
No. M6-800A FLOOR STAND. Provides a permanently rigid support for your lathe. Legs are heavy grey-iron castings, thickly ribbed and cross braced. Table board is 1 5/8" thick, thoroughly seasoned, shellacked, varnished, and ready-drilled for quick lathe mounting. Large bottom board is convenient for holding tools and accessories. Complete as shown including motor mounting bracket and countershaft support. YELYN, 140 lbs.

DRILL CHUCK
No. 40-60 JACOBS DRILL CHUCK with key-type wrench. Holds drills for extreme accuracy in drilling and countersinking. Ruggishly built, precisely machined. Requires arbor No. 378 for headstock, No. L2-378 for tailstock. Capacity No. 70 drill to 1/2". YAHIB. 2 lbs.

CENTER REST CHUCK

CHUCK ARBORS
No. M6-377 CHUCK ARBOR to adapt No. 445 Center Rest Chuck to 6" lathe tailstock. YEELJ. 8 oz.
No. L2-378 CHUCK ARBOR to adapt No. 40-60 Jacobs Drill Chuck to 6" lathe tailstock. YECOC. 8 oz.
No. 378 CHUCK ARBOR to adapt No. 40-60 Jacobs Drill Chuck to 6" lathe headstock. YAHYA. 8 oz.

REVERSING SWITCH
Essential for grinding, tapping, nut-setting, finishing. Operates on single phase, capacitor and 3-phase induction motors (not 4-phase) — also both shunt-wound and compound wound DC.
No. 6813 REVERSING SWITCH complete with cable connections and installation diagram. YOKTO. 1 1/2 lbs.

4" INDEPENDENT CHUCK
No. M6-8448 4-JAW INDEPENDENT CHUCK, 4" DIAMETER, threaded for 1"-10 lathe spindle. Holds work of all shapes in headstock. Body is high-strength semi-steel casting. 4 jaws — operated independently — are special steel, hand-fitted. Jaws may be reversed for holding large stock. Wrench furnished. YIALM. 6 lbs.

4" UNIVERSAL CHUCK
No. M6-8458 3-JAW UNIVERSAL CHUCK, 4" DIAMETER, threaded for 1"-10 lathe spindle. For quickly centering and holding round and hexagonal work. Jaws are self-centering, controlled by a single screw. Handles rods up to 1/2" through headstock. Complete with inside and outside jaws and wrench. YIAJK. 5 lbs.

HEADSTOCK CHUCK
No. M6-375 JACOBS HEADSTOCK CHUCK, complete with key-type wrench. An accurate and convenient chuck for holding small diameter work. Hollow construction for handling long rods from No. 70 drill up to 17/32" thru headstock spindle. YEBBY. 3 lbs.

DRAW-IN COLLET CHUCK ATTACHMENT
The most accurate method of chucking work between 1/32" and 9/32". Hollow construction permits rods to be passed through lathe spindle. Handwheel control releases and tightens collet on work. Closing sleeve is ground inside and outside to assure maximum accuracy. Atlas split collets are collet tool steel. One end threads on draw-in spindle. Other end is ground to fit tapered sleeve.
No. M6-750 DRAW-IN COLLET CHUCK ATTACHMENT with draw-in spindle, tapered closing sleeve, less split holding collet. YEHYY. 2 lbs.
No. M6-348 SPINDLE NOSE CAP to protect lathe spindle threads. YELLO. 8 oz.

LATHE LAMP
No. M6-745 LATHE LAMP. Throws plenty of light on your work. Has 14" flexible cable and bulb joint at shade. Mounting bracket clamps to base of bed. Durable, attractive. 6-foot rubber cord, plug furnished. YEEP. 2 lbs.
Atlas 6" LATHE ATTACHMENTS

3/16" CUTTER BITS

Six high-speed cutters, ready ground to shapes shown: R.H. turning and L.H. turning, R.H. facing, L.H. facing, round nose, 60° V-threading.

No. M6-386 SET OF 6 FORMED CUTTER BITS, 3/16". YEGCA. 1 lb.

UNGROUND CUTTER BITS

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Wt.</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6-3865</td>
<td>Six 3/16&quot;</td>
<td>1 lb.</td>
<td>YEZAV</td>
</tr>
<tr>
<td>M6-3867</td>
<td>Twelve 3/16&quot;</td>
<td>1 1/2 lbs.</td>
<td>YEZIX</td>
</tr>
<tr>
<td>3855</td>
<td>Six 5/8&quot; (for tool post)</td>
<td>1 lb.</td>
<td>YARFY</td>
</tr>
</tbody>
</table>

TOOL-POST TOOL SET

Seven high-speed boring and turning tools ground as shown: 3/8" external 60° V-threading, 3/16" external turning, 3/16" boring, 1/4" internal threading, 1/4" boring, 5/8" boring, 1/4" boring, 3/8" boring, spacer and V-block.

No. M6-380 TOOL-POST TOOL SET complete: 5 internal tools, 2 heavy-duty external tools, V-block, height spacer. YEFYH. 2 lbs.

BORING TOOL HOLDER


BORING TOOLS

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Wt.</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 6601</td>
<td>3/16&quot; Boring Tool</td>
<td>7 oz.</td>
<td>YOKKY</td>
</tr>
<tr>
<td>No. 6602</td>
<td>5/16&quot; Boring Tool</td>
<td>6 oz.</td>
<td>YOLAR</td>
</tr>
<tr>
<td>No. 6603</td>
<td>1/4&quot; Boring Tool</td>
<td>5 oz.</td>
<td>YOLIT</td>
</tr>
<tr>
<td>No. 6604</td>
<td>3/16&quot; Boring Tool</td>
<td>5 oz.</td>
<td>YOLV</td>
</tr>
<tr>
<td>No. 6605</td>
<td>5/8&quot; Internal Threading Tool</td>
<td>5 oz.</td>
<td>YOIR</td>
</tr>
</tbody>
</table>

TOOL HOLDERS

Shank fits tool post, head broached for 3/16" cutter bits shown above. 4 oz. each.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6-139L Left Hand YEFAB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M6-139R Right Hand YEFFR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M6-139S Straight YEFWT</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

KNURLING TOOL

Self-centering floating construction — heavy steel shank.

No. M6-340 KNURLING TOOL with medium diamond-shaped knurls. YEFEC. 8 oz.

No. 343 Extra Knurls, medium diamond. YEGYJ. 2 oz. per pair.

CUT-OFF TOOL

Drop-forged holder with 3/4" high speed replaceable blade for quick, clean cut-offs.

No. M6-590 CUT-OFF TOOL with blade. YEFCE. 8 oz.
No. M6-592 Extra Blade. YEHDA. 4 oz.

THREADING TOOL

Drop-forged L.H. holder with blade ground to cut 60° threads. Resharpen top edge only.

No. M6-430 THREADING TOOL YEFFO. 8 oz.

DRILL PAD

No. L2-360 DRILL PAD. Mounts in tailstock ram as support for drilling flat or square work with drill in headstock. Ground steel shank is No. 1 Morse taper. 3/8" diam. face. YATPO. 12 oz.

CROTCH CENTER

No. L2-356 CROTCH CENTER. Automatically centers round work in tailstock ram for accurate cross-drilling. Ground steel shank is No. 1 Morse taper. 2" diam., 1" slot. YATYR. 12 oz.

BALL BEARING TAILSTOCK CENTER

No. M6-348 BALL BEARING TAILSTOCK CENTER. Center rotates on enclosed ball bearing. Recommended for high-speed operations. No. 1 Morse taper. YEJJO. 8 oz.

60° LATHE CENTERS

No. 2 Morse taper for headstock, No. 1 Morse Taper for tailstock. 8 oz. each.

<table>
<thead>
<tr>
<th>No.</th>
<th>Morse taper</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>L2-80</td>
<td>No. 1</td>
<td>YAVEN</td>
</tr>
<tr>
<td>9-88</td>
<td>No. 2</td>
<td>YAVAM</td>
</tr>
<tr>
<td>M6-138</td>
<td>No. 2 to 1 Sleeve</td>
<td>YEHDO</td>
</tr>
</tbody>
</table>

CENTER EJECTOR BAR

Removes center from spindle without burring. Steel shaft has knurled ball grip — brass head cannot damage center or spindle.

No. M6-790 CENTER EJECTOR BAR. Length 10". YETWY. 1 1/2 lbs.
DOGS

No. 142A SET OF 4 DOGS for diameters up to 1 1/2". Drop-forged steel. Hold work firmly. YAPAG, 2 lbs.

<table>
<thead>
<tr>
<th>Opening</th>
<th>Wt.</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>4 oz.</td>
<td>YAOFK</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>5 oz.</td>
<td>YAKRM</td>
</tr>
<tr>
<td>7/16&quot;</td>
<td>7 oz.</td>
<td>YAOVR</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>10 oz.</td>
<td>YAO2T</td>
</tr>
</tbody>
</table>

CLAMP DOG

No. 741 CLAMP TYPE DOG. Handles square, rectangular, hexagonal, or round work. Clamp bars are steel forgings, carefully machined and hardened—screws are heat treated. Jaws open to 2 1/2". YAPGA. 1 lb.

STEADY REST

No. M6-325 STEADY REST. Clamps to bed ways to support long pieces and insure accuracy in turning, boring and threading. Bronze jaws prevent scoring work. Capacity 2 3/8" diameter. YEFHY. 3 lbs.

FOLLOWER REST

No. M6-395 FOLLOWER REST. Insures accurate work on long slender rods. Mounts on back of carriage dovetail slide, follows the cutting tool, holds work in rigid position. YEFID. 2 lbs.

TAPER ATTACHMENT

No. M6-700 TAPER ATTACHMENT. Quickly installed, easy to operate. Rectangular slide bar has rigid grey-iron bracket supports. A slotted draw bar connects to carriage cross slide and feeds tool at desired taper. Easy-to-read index plate is graduated 7° and 3° both sides of center line. Maximum travel, one setting—7 1/8". Range, right or left—7° (2-15/16" per ft.) YETIS. 4 1/2 lbs.

CROSS SLIDE STOP

No. M6-725 CROSS SLIDE STOP. Clamps to cross slide dovetail to set depths of duplicate cuts. YEMKE. 8 oz.

CARRIAGE STOP

No. 6810 CARRIAGE STOP. Clamps to bed way, indicates accurate carriage stopping point. YIDAF. 1 lb.

MILLING ATTACHMENT

This attachment equips the Atlas 6-inch lathe for face milling, cutting keyways and slots, milling dovetails, squaring shafts, making dies and moulds and many other important operations. Installed quickly and easily by removing the compound rest and clamping base of attachment in its place.

The Atlas milling attachment is built extra-heavy to minimize vibration. Can be swiveled completely to hold work at any angle. Vise position is controlled by a feed screw with micrometer graduated collar—a gib take-up assures permanent accuracy. Vise slide is graduated and vise can also be swiveled to any desired angle.

SPECIFICATIONS: Vertical Feed 1 1/2", Overall Height 11 1/2", Jaw Depth 3/4", Cross Feed 3 1/2", Vise Capacity 4", Jaw Width 2 1/4".

No. M6-500 MILLING ATTACHMENT complete as shown with flat block, and V-block. YEIKL. 10 lbs.

CUTTER HOLDING SET

No. M6-945 CUTTER HOLDING SET. Holds milling cutter in headstock spindle. Includes draw bar, sleeve, arbor for 1 1/2" shank cutters. YEYBD. 2 lbs.

R.H. SPIRAL END MILLS

For general milling, Straight shank—adapted to holding sets with end mill bushings below, 4 oz. each.

<table>
<thead>
<tr>
<th>No.</th>
<th>Lgth. Flute</th>
<th>Diam.</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>576A</td>
<td>1 1/4&quot;</td>
<td>1/2&quot;</td>
<td>YAKE</td>
</tr>
<tr>
<td>576B</td>
<td>1 1/2&quot;</td>
<td>1/2&quot;</td>
<td>YAKF</td>
</tr>
<tr>
<td>576C</td>
<td>1 1/4&quot;</td>
<td>5/16&quot;</td>
<td>YAKF</td>
</tr>
<tr>
<td>576D</td>
<td>1 1/4&quot;</td>
<td>7/32&quot;</td>
<td>YAKF</td>
</tr>
<tr>
<td>576E</td>
<td>1 1/4&quot;</td>
<td>1/2&quot;</td>
<td>YAKF</td>
</tr>
</tbody>
</table>

END MILL BUSHINGS

No. 5634 FOUR END MILL BUSHINGS. Required to adapt 576 end mills to M6-945 holding sets. Not required for 576K end mill. YALED. 6 oz.

WOODRUFF KEYWAY CUTTERS

For Woodruff keyways, slots, grooves, T-slots. 1/2" straight shank—held in arbor of M6-945 set. 6 oz. each.

<table>
<thead>
<tr>
<th>No.</th>
<th>Diameter</th>
<th>Thickness</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>575A</td>
<td>1/8&quot;</td>
<td>1/16&quot;</td>
<td>YALUH</td>
</tr>
<tr>
<td>575B</td>
<td>3/16&quot;</td>
<td>1/16&quot;</td>
<td>YALYJ</td>
</tr>
<tr>
<td>575C</td>
<td>1&quot;</td>
<td>5/32&quot;</td>
<td>YAMA</td>
</tr>
<tr>
<td>575D</td>
<td>1 1/8&quot;</td>
<td>5/32&quot;</td>
<td>YAMAD</td>
</tr>
<tr>
<td>575E</td>
<td>1 1/4&quot;</td>
<td>5/32&quot;</td>
<td>YAMEF</td>
</tr>
</tbody>
</table>

ANGULAR CUTTERS

For face-milling, dovetailing, and cutting angles less than 90°. Threaded hole—adapted to M6-945 set with arbors listed below. 6 oz. each.

<table>
<thead>
<tr>
<th>No.</th>
<th>Thickness Diam. Hole Thread</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>574A</td>
<td>7/16&quot; 1/16&quot; 1/8&quot; 24</td>
<td>YALF</td>
</tr>
<tr>
<td>574B</td>
<td>9/16&quot; 1/16&quot; 1/8&quot; 20</td>
<td>YALF</td>
</tr>
</tbody>
</table>

ADAPTER ARBORS required

<table>
<thead>
<tr>
<th>No.</th>
<th>For No.</th>
<th>Wt.</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>572</td>
<td>574A</td>
<td>8 oz.</td>
<td>YEWTE</td>
</tr>
<tr>
<td>567</td>
<td>574B</td>
<td>8 oz.</td>
<td>YEUXW</td>
</tr>
</tbody>
</table>
Atlant 6" LATHE ATTACHMENTS

COMPLETE Atlas ARMATURE OUTFITS

An Atlas outfit puts the full armature profit in your own pocket, in less than 10 minutes it finishes the complete job — truing, undercutting, and polishing. It is always ready to run, and just one setup handles any armature, centered or centerless . . . quickly, easily, and accurately.

Only on a rigid, accurate lathe is it possible to turn out accurate armature work. The Atlas outfits are built around the 618 lathe — a rugged, precision-built machine tool. The armature, held in Jacobs chucks, is trued on its bearings — the motor-driven undercutter cuts clean, square, parallel grooves of uniform depth. Result — a perfect contact for the brushes.

Equipment includes everything you need to start work at once — lathe, undercutter, chucks, tools, and motors — nothing else to buy.

No. 13A ARMATURE OUTFIT. Includes Atlas 618 lathe with No. 2730 1/2 HP 1725 RPM motor and No. 2710 motor cord, No. M6-510A mica undercutter and 5 high-speed saws, No. M6-141 armature chuck kit, No. M6-139L LH tool holder, No. M6-186G 5/16" armature bit, No. 144 1" lathe dog. YEJUK, 146 lbs.

No. 16A ARMATURE OUTFIT. Same as above without motor and motor cord. YEJVL, 117 lbs.

No. 11A ARMATURE OUTFIT. Same as 15A except that No. M6-843B 4" universal chuck is substituted for No. M6-375 Jacobs headstock chuck. YEIZY, 148 lbs.

No. 12A ARMATURE OUTFIT. Same as 11A without motor and motor cord. YEJFG, 119 lbs.

MICA UNDERCUTTER

Unsurpassed for quick, easy, profitable precision workmanship on reconditioning armatures. Mounts on carriage cross slide — out of the way while you use regular lathe tools to true and polish the armature, moved into position instantly for undercutting. Five saws furnished, give you correct width cuts for various size armatures.

No. M6-510A MICA UNDERCUTTER includes motor, 115 volt universal AC or DC 3 high speed saws (.015", .025", .030" - 0.035"), extension cord, switch, plug. YOBIK, 9 lbs.

No. 523A SET OF 10 HIGH SPEED SAWS 2 each of above thickness. YLTUV, 2 oz.

No. M6-780 COIL WINDING ATTACHMENT. Replaces coil post — has fiber wire guide and spring adjustment on spool for correct tension. Quickly mounted and removed. YEMIL, 1/2 lbs.

ARMATURE CHUCK KIT

No. M6-441 ARMATURE CHUCK KIT. Holds centerless armatures in lathe. Complete in metal case. Includes headstock chuck with No. 2 M.T. arbor, center rest chuck with No. 1 M.T. arbor. YEJLY, 8 lbs.

WOODTURNING CHISELS

No. W13A SET OF 8 CHISELS. All have forged steel blades, long maple handles with strong brass ferrules. Approximate length, 17 inches. Set consists of one each of the following: 3/4" gouge, 5/8" gouge, 1" gouge, 1/2" skew, 1" skew, 1/2" round nose, 1/2" spear point, 5/8" parting. YAZWY, 6 lbs.

No. 133 SET OF 5 CHISELS consisting of one each of the following: 5/8" gouge, 5/8" gouge, 1/2" skew, 1/2" spear point, 5/8" parting. YIKYR, 3 lbs.

HAND REST

No. 6910 HAND REST. Clamps to bed and provides a rigid tool support. T-rest can be swivelled to any position and locked securely. Furnished with two T-rests, 4" and 8". YOJSO, 3 lbs.

SPUR CENTER

For driving work mounted between centers. Replaceable center point. Morse taper shank.

No. L2-16 Shank Wt. Code
352 No. 2 M.T. 1 lb. YAWYY
L2-16 No. 1 M.T. 8 oz. YEADZ

No. M6-138 SLEEVE, No. 2 to 1 M.T. YEHKO, 8 oz.
No. L2-147 EXTRA POINT for No. 350. YEWIV, 2 oz.
No. 147 EXTRA POINT for No. L2-16. YEWSA, 2 oz.

CUP CENTER

Supports work in tailstock. Replaceable center point. Morse taper shank.

No. L2-17 CUP CENTER with No. 1 Morse taper shank. YEAC, 8 oz.
No. 147 EXTRA POINT for No. L2-17. YEWSA, 2 oz.

SCREW CENTER

For facing and hollowing operations. Alloy steel with replaceable center. Morse taper shank. Diameter 2".

No. Wt. Code
352 No. 2 M.T. 1 lb. YAWYY
L2-352 No. 1 M.T. 8 oz. YEAHY
M6-138 No. 2 to 1 Sleeve 8 oz. YEHKO
355 Extra Point 2 oz. YFYFY

EXTENSION BED

No. M6-1E EXTENSION BED. For handling extra long wood work. Machined and finished to same specifications as lathe bed. Length 16½". YEMEK, 24 lbs.
**Atlas 7" SHAPER**

**COLUMN**
Column is massive, box-type, heavily ribbed and braced. Cross rail ways and guides for upper ways are cast integrally with column. Heavy base casting is ribbed and reinforced. Cross rail ways are precision-ground.

**RAM**
Unusually heavy, massive ram. Ram ways are wide and thick, bearing on top, sides and bottoms of guides. They are precision-ground and hand-fitted. Length of stroke in inches is shown by indicator on graduated index plate. Stroke positioning control at top of ram operates screw through two mitre gears. Thrust collar provides for full take-up.

**CRANK-TYPE DRIVE**
An important factor in the Atlas shaper's unusual power and long-lived accuracy is its crank-type ram driving mechanism. The bull-gear is supported by two heavy-duty Timken tapered roller bearings, one housed in the shaper frame and the other at outer end of bull-gear sleeve flange. These fine bearings take extremely heavy radial loads and absorb all end thrust. The bull-gear is semi-steel iron with 10 pitch teeth and 1-inch face, driven by a steel pinion gear. Pinion gear shaft runs on Timken tapered roller bearings. Crank arm is a special nickel-chrome-vanadium alloy steel forging, parallel-ground on outer surfaces and milled and lapped on inner "slide." Crank block is wear-resisting super-Oilite.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length of Ram Stroke</td>
<td>1/2&quot; to 7&quot;</td>
</tr>
<tr>
<td>Strokes per Minute</td>
<td>45-76-122-186</td>
</tr>
<tr>
<td>Cutting Speeds, Feet per Minute</td>
<td>.35 to 116</td>
</tr>
<tr>
<td>Distance Table to Ram</td>
<td>Maximum 5 1/2&quot;, Minimum 1/2&quot;</td>
</tr>
<tr>
<td>Overall Dimensions</td>
<td>17&quot; x 36&quot; x 26&quot;</td>
</tr>
<tr>
<td>Ram Length, less Tool Head</td>
<td>17&quot;</td>
</tr>
<tr>
<td>Ram Bearing in Column, each</td>
<td>3/4&quot; x 3/8&quot; x 12&quot;</td>
</tr>
<tr>
<td>Ram Position Range</td>
<td>4&quot;</td>
</tr>
<tr>
<td>Tool Head Diameter</td>
<td>4&quot;</td>
</tr>
<tr>
<td>Tool Head Feed Length</td>
<td>3&quot;</td>
</tr>
<tr>
<td>Tool Post Length</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>Tool Post Feed Length</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>Gear Ratio</td>
<td>5 1/2 to 1 - 1 1/4</td>
</tr>
<tr>
<td>Pinion Shaft and Countershaft Pulleys</td>
<td>4-step, V-type</td>
</tr>
<tr>
<td>Cross Feeds Available, Both directions</td>
<td>.005, .010, .015, .020, .025</td>
</tr>
<tr>
<td>Table, Overall Dimensions</td>
<td>8 1/4&quot; x 6&quot; x 6&quot;</td>
</tr>
<tr>
<td>Table Finished Surface, length</td>
<td>.916&quot; horizontal, .5&quot; vertical</td>
</tr>
<tr>
<td>Table has 3 T-Slots on Top</td>
<td>3/4&quot; x 3/8&quot; x 7&quot;</td>
</tr>
<tr>
<td>Table has 2 Clamping Slots on Each Side</td>
<td>1/2&quot; x 3/8&quot;</td>
</tr>
<tr>
<td>Vise Jaw</td>
<td>4&quot; x 1/2&quot; x 9&quot;</td>
</tr>
<tr>
<td>Vise Swivel Base Graduated 0 to 90&quot; right and left</td>
<td>9&quot; x 1/2&quot; x 9&quot;</td>
</tr>
</tbody>
</table>

MOTORS recommended are listed on page 19. See page 35 for complete details.
Atlas SHAPER ATTACHMENTS

FLOOR STAND
Provides a rigid foundation for accurate shaper work. Legs are massive iron castings. Table and shelf are thoroughly seasoned wood 1 3/8" thick—shelf board is a handy place for tools and wrenches. Overall: 14" x 51" x 33 1/2" high.

No. 57-442C FLOOR STAND for Atlas shaper. ZEHEZ. 158 lbs.

FLOOR CABINET
No. 9050 SHAPER FLOOR CABINET. An attractive, rigid support. Legs, top and shelf are heavy 13 gauge steel with spot welded joints. Sides of top are flared to catch oil. Shelf is handy storage space for tools, attachments. 28" long x 18" wide x 32 3/8" high. ZEPOK. 80 lbs.

MOTORS

<table>
<thead>
<tr>
<th>No.</th>
<th>Phase</th>
<th>HP</th>
<th>Volt</th>
<th>Cycle RPM</th>
<th>Shaft Dia. Lbs.</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>2720</td>
<td>Single</td>
<td>1/2</td>
<td>115/230</td>
<td>60</td>
<td>1175</td>
<td>3 1/4</td>
</tr>
<tr>
<td>2921</td>
<td>Three</td>
<td>1/2</td>
<td>230/440</td>
<td>60</td>
<td>1435/1725</td>
<td>3 1/4</td>
</tr>
<tr>
<td>No. 2710</td>
<td>10 Ft. Extension Cord and Plug for 1/2 HP single phase motors. YIDEG. 1 lb.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

THREE PHASE SWITCH
No. 57-300 thermal overload 3-pole manual starter switch is required for 3-phase circuits. Cord to motor and bracket for mounting are furnished. ZEBAR. 8 lbs.

CUTTER BITS
No. 57-386 SET of 7 FORMED CUTTER BITS shown above for use in 57-139 tool holder. 1/8" x 1/4". ZEDEV. 1 lb.

UNGROUNDED CUTTER BITS

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>No. in Set</th>
<th>Wt. (set)</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>3865</td>
<td>1/2&quot;</td>
<td>6</td>
<td>8 oz.</td>
<td>YARKE</td>
</tr>
<tr>
<td>386T</td>
<td>1/2&quot;</td>
<td>6</td>
<td>1 lb</td>
<td>YARMO</td>
</tr>
<tr>
<td>3855</td>
<td>5/8&quot; (for tool post)</td>
<td>6</td>
<td>12 oz</td>
<td>YARPY</td>
</tr>
</tbody>
</table>

EXTENSION TOOL
Provides extra clearance for internal work. Cuts many shapes. Drop-forged holder, 1/2" x 1/2" polished steel bar with broached hole for 5/16" high-speed cutter bit.

No. 57-315 EXTENSION TOOL with cutter bit and wrench. WYZZA. 2 lbs.

No. M6-3665 SIX EXTRA 3/16" CUTTER BITS unground. YEZAV. 1 lb.

TOOL HOLDER
No. 57-129 SHAPER TOOL HOLDER with 1/4" tool bit. For working at all angles. Extremely rigid. Head can be swiveled and locked at any one of eight positions. Uses 1/4" high-speed cutter bits. WYVZO. 2 lbs.

ANGLE PLATE
For holding small pieces and irregular shapes. Outer faces precision ground, have four holes for bolting work and two holes for bolting plate to shaper table T-slots. Base and face each are 21/4" x 6" x 7 1/8".

No. 57-430 ANGLE PLATE with bolts. ZEHU. 3 lbs.

INDEX CENTERS
For dividing operations required in splining, fluting, gear cutting, and squaring shafts. Heavy base casting is held to T-slots in shaper by cap screws—support for inner center is cast with base. Outer center support may be positioned for work up to 8 inches long. Screw with ball crank operated adjustable center. Two index plates are furnished, each with two circles of indexing holes engaged by a lock pin. Spindle is locked in position by coordinate clamp.

No. 57-400 INDEX CENTERS for Atlas Shaper. ZEHIB. 21 lbs.

SPECSIFICATIONS: 6" maximum distance between centers; maximum swing 3 1/2"; base 14 1/4" x 6" x 7 1/8" thick.

FURNISHED: Two index plates (30 and 36 holes, 28 and 40 holes); 1/2" clamp dog, dog driver, bolts.

ROTARY INDEX TABLE
For quick, accurate spacing and dividing operations. Table is precision ground. Has three T-slots for positioning and locking work—can be swiveled to any angle and locked with two bolts to circular T-slots in base. Holes spaced around edge of table permit indexing table every 30° with plunger and knob. Swivel base is graduated 0 to 90° left and right.

No. 57-420 ROTARY INDEX TABLE for Atlas Shaper, with four base-clamping bolts and wrench. ZEHMC. 14 lbs.

SPECSIFICATIONS: Table Diameter 3 1/2", Height to Top of Table 17/4".

LAMP
No. 1238 SHAPER LAMP. Improves vision by throwing plenty of light directly on your work. Has 15" flexible cable, universal mounting bracket with clamp screws for fastening to ram plate, push-thru switch. ZODUK. 2 lbs.
**SPECIFICATIONS**

- **Longitudinal Table Travel**: 9 7/8"  
- **Reversible Automatic Longitudinal Power Feeds**: per Revolution of Spindle. .0005", .006", .0125", or .025" Range. .0186" to 11.250" per minute  
- **Cross Table Travel, Hand-Operated**: 5 7/8"  
- **Vertical Table Travel, Hand-Operated**: 6"  
- **Center of Spindle to Table in Lowest Position**: 6"  
- **Table Working Surface, Precision-Ground**: 4 1/2" x 18"  
- **Table Dimensions**: 4 1/2" x 18" x 18" thick  
- **Table T-Slots**: Top, 5/8" x 5/8" x 16"; Side, 5/8" x 5/8" x 18"  
- **Eight Spindle Speeds between**: 62 and 2870 RPM  
- **Timken Tapered Roller Bearings**: Spindle 1" diameter, 10-pitch N.S. threads, 17/32" hole through entire length, nose bored for No. 2 Morse taper Arbor Diameter 7/8" or 1" (see page 22)  
- **Center of Arbor to Underside of Overarm**: 2 1/8"  
- **Backgear Ratio (approximate)**: 61 1/2 to 1  
- **Backgear shaft and countershaft spindle bearings**: Oilite Bronze  

**Change-O-Matic TABLE FEEDS (Inches per Minute)**

<table>
<thead>
<tr>
<th>SPINDLE SPEEDS</th>
<th>FEED PER REVOLUTION OF SPINDLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>B, P, U</td>
<td>.039&quot;</td>
</tr>
<tr>
<td>62</td>
<td>165&quot;</td>
</tr>
<tr>
<td>125</td>
<td>200&quot;</td>
</tr>
<tr>
<td>212</td>
<td>236&quot;</td>
</tr>
<tr>
<td>400</td>
<td>320&quot;</td>
</tr>
<tr>
<td>650</td>
<td>3.350&quot;</td>
</tr>
</tbody>
</table>

This table summarizes data appearing on the Change-O-Matic chart, listing 20 different table feeds in inches per minute.

**MILLING MACHINES**

**EQUIPMENT FURNISHED**: Atlas "CHANGE-O-MATIC" Controls for Instant Selection of Reversible Automatic Longitudinal Table Feeds; Integral V-Belt Couplings; Belts and Pulleys for Complete V-belt Drive; Motor Pulley furnished for 5 1/8" diameter; motor shaft — dealer can supply bushings for 5 5/8" diam., motor shafts; Motor Mounting Bracket; 15-Ampere Control Switch and Cord — switch is for single phase current only; 3-phase switch is No. S7-300 (page 22); Operating Instructions; less arbor and motor.

**SPINDLE SPEEDS**

- **DIRECT CONE DRIVE**
  - MOTOR BELT: SPINDLE BELT POSITION
  - 1: 450  
  - B: 1400  
  - 2: 870  
  - 2870

- **BACK GEAR DRIVE**
  - MOTOR BELT: SPINDLE BELT POSITION
  - 1: 62  
  - B: 212  
  - 2: 130  
  - 440

This chart, located on the left side of the Atlas milling machine, shows belt setups for eight spindle speeds.
ATLAS MILLING MACHINE with MANUAL CONTROLS

M1C Atlas Milling Machine is equipped with hand-operated screw feeds for table movement. Large front handwheel operates knee and table vertically. Small front handwheel controls cross feed. Ball crank at each end of table permits maximum longitudinal travel of 12". Accurate feed gauging is assured by the feed screw collars, micro-kev-straightened in .0001ths, with a knurled screw for setting zero position at the witness mark. Dog-type stop in front table T-slot can be set to stop longitudinal table travel at any point.

No. M1C ATLAS MILLING MACHINE, complete with safety belt guards and hand-operated table controls, less arbor and motor. ZEVNE, Net weight 194 pounds, shipping weight 267 pounds.

FEED RANGE

| Longitudinal table travel, hand-operated | 12" |
| Cross table travel, hand-operated        | 3½" |
| Vertical table travel, hand-operated     | 6"  |
| Center of spindle to table in lowest position | 6"  |

ATLAS MILLING MACHINE with PRODUCTION LEVER CONTROLS

The quick-acting lever controls on the MHC Atlas milling machine increase production by speeding up both longitudinal and vertical table movement. One setting of the left lever permits 4½" longitudinal travel, while second lever moves table 1½" vertically at one setting. Each lever operates a rack-and-pinion feed. Lever shafts have squared ends for quick table positioning. Longitudinal travel is set with a dog-type stop in front table T-slot. Vertical travel is fixed by two sets of lock nuts on a screw anchored to base casting.

No. MHC ATLAS MILLING MACHINE, complete with safety belt guards and rapid-production lever controls, less arbor and motor. ZEVUR, Net weight 202 pounds, shipping weight 275 pounds.

FEED RANGE

| Max. long. travel, 1 setting lever operated | 4½" |
| Cross table travel, hand-operated          | 3½" |
| Max. vertical travel, 1 setting lever operated | 1½" |
| Center of spindle to table in lowest position | 6"  |

COLUMN

A massive grey-iron casting, ribbed and reinforced to provide rigid support for spindle head, knee and countershaft. Knee bearing ways, cast integrally with column, are precision-ground for smooth, accurate knee and table action. Front of base is shaped to retain oil, portion below column forms reservoir for automatic coolant system.

KNEE AND TABLE

Heavy knee casting travels vertically on ground column ways, rigidly supported by full 5½" long bearings, and by telescoping elevation screw. Have laminated shims and gib. Thick, heavy saddle has dovetail bearings 5" long on knee and 6" long on table for rigid table support. Table is a solid grey-iron casting, top and sides are precision-ground.

TIMKEN BEARINGS

Timken tapered roller bearings maintain accurate spindle alignment, carry both radial and thrust loads with minimum friction, and permit the wide range of spindle and surface speeds for all types of work and cutters.

RUGGED OVERARM and ARBOR SUPPORT

Overarm, support bracket and outboard arbor support insure accurate work by maintaining the rigid horizontal position of arbor and cutters. Overarm is a solid bar of stress-proof steel, 1½" in diameter. Support bracket is grey-iron—has Oiflote bronze bearing for arbor. Overarm and support bracket can be removed easily. Outboard arbor support locks arbor, overarm and knee together rigidly—easy to remove and mount.
**Atlas MILLING MACHINE ATTACHMENTS**

**FLOOR CABINET**

No. 0950 MILLING MACHINE FLOOR CABINET. Provides the rigid mounting required for accurate miller work. Legs, top and shelf are heavy 13 gauge steel, with spot welded joints. Sides of top are flared to catch oil, top has hole for coolant system. Shelf is handy storage space for tools and attachments. 28" long x 18" wide x 32½" high. Less side pans. ZEPOK. 80 lbs.

No. 9051 SIDE PANS. Attach to each side of No. 9050 to catch oil drippings as miller table moves from side to side. Heavy gauge steel, with flared sides. Clamp brackets and bolts furnished. 11" x 8" wide. ZERAJ. 5 lbs. per pair.

**MOTORS**

<table>
<thead>
<tr>
<th>No.</th>
<th>Phase</th>
<th>Volt</th>
<th>Cycle</th>
<th>RPM</th>
<th>Wt.</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>2730</td>
<td>One</td>
<td>115/230</td>
<td>60</td>
<td>1725</td>
<td>28</td>
<td>YIDEA</td>
</tr>
<tr>
<td>2831</td>
<td>Three</td>
<td>220/440</td>
<td>50/60</td>
<td>1425/1725</td>
<td>26</td>
<td>YIHEK</td>
</tr>
</tbody>
</table>

All motors listed above are ½ HP, have ½" single-end shaft.

No. 2710 Cord and Plug for single-phase motor. YIDEG. 1 lb.

**3-PHASE MOTOR SWITCH**

No. 57-300 THREE PHASE MOTOR CONTROL SWITCH. A thermal overload 3 pole manual starter for 3-phase circuits. Complete with mounting bracket and cable-covered motor connection cord. ZEBAR. 8 lbs.

**MILLER LAMP**

No. 1238 MILLER LAMP. Improves vision by throwing plenty of light directly on your work. Has 15" flexible cable, universal mounting bracket. Push-through switch. ZODUK. 2 lbs.

**OUTBOARD ARBOR SUPPORT**

Locks arbor, overarm and knee together rigidly — improves work finish on heavy cuts by reducing chatter and vibration to a minimum. Fits any Atlas milling machine. Quickly and easily installed or removed — bolts to overarm support bracket and cross feed screw bearing (furnished). Support has heavy iron casting, slotted and machined for quick height adjustment.

No. M1-450 OUTBOARD ARBOR SUPPORT for Atlas MF series milling machines. ZIACY. 7 lbs.

No. M1-450 OUTBOARD ARBOR SUPPORT for Atlas M1 and M4 series milling machines. ZIADZ. 7 lbs.

Series numbers are shown on nomenclature plate.

**CUTTER ARBORS**

Ground stressproof steel with full length keyway and No. 2 Morse taper shank. Driver threaded for spindle nose. Collars 1½" diameter, precision-ground — two 2", one 1", one ¾", one ½" and one ¼" furnished. Length, shoulder to nut, 3½". No. M1-576 draw-in bar is required.

No. M1-560 7/8" diam. CUTTER ARBOR for Atlas milling machine, complete with nut, six collars and driver. ZETYR. 5 lbs.

No. M1-560L 1" diam. CUTTER ARBOR for Atlas milling machine, complete with nut, six collars and driver. ZEWAN. 6 lbs.

**DRAW-IN BAR**

No. M1-576 DRAW-IN BAR. Required to hold M1-560 or M1-560L cutter bars, and M1-577 shank cutter adapter, in spindle taper. ZEYAM. 1½ lbs.

**CRANK HANDLE**


No. S7-100 CRANK HANDLE. ZEVYS. 1½ lbs.

**AUTOMATIC COOLANT SYSTEMS**

These coolant systems, designed especially for use with Atlas milling machines, reduce tool wear, improve work finish, and meet peak production demands. Their simple construction assures smooth, trouble-free performance and long service life.

The modern centrifugal-type pump — engineered for continuous service with any cutting fluid — is installed in 3-pint reservoir compartment in base of the Atlas miller. The coolant stream can be easily directed to any point on cutter with the adjustable outlet nozzle and a sliding arm that supports the rubber feed line. Control valve regulates flow — from slow drip to fast washing action. No priming necessary. Built-in switch.

**PUMPING CAPACITY (Gallons per Hour)**

<table>
<thead>
<tr>
<th></th>
<th>Soluble Oil</th>
<th>Lard Oil</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. M1-600A</td>
<td>198</td>
<td>78</td>
</tr>
<tr>
<td>No. M1-600B</td>
<td>350</td>
<td>108</td>
</tr>
</tbody>
</table>

No. M1-560A COOLANT SYSTEM complete as shown. Motor: induction, 3450 RPM, 115 volt, 60 cycle AC. ZEJBIE. 12 lbs.


**COOLANT TANK**

This gravity-flow tank is a simple, inexpensive coolant device. Capacity approx. 1 qt. Sliding support arm and adjustable nozzle to direct coolant stream. Valve regulates flow. Nozzle has extruded plastic tip.

No. M1-550 COOLANT TANK. ZETAL. 8 lbs.
INDEX CENTERS

For dividing operations. Headstock and tailstock lock to T-slot in table. Centers position for work up to 9" long, lock with coordinate clamps. Maximum swing, 6". Headstock spindle nose has 1" diam. 10-pitch R.S.S. threads, 17/32" hole through spindle. (See chucks below, threaded to fit the headstock spindle nose.)

No. M1-300 INDEX CENTERS for Atlas milling machine. ZESLE: 12 lbs. Fitted with 9 indexing gears (36, 40, 44, 48, 52, 54, 56 and 64 teeth); 1½" dog, driver, bolts; two 60° centers — M.T. for headstock. No. 2 Morse taper for headstock.

ROTOR INDEX TABLE

Holds work for accurate angular indexing and spacing operations. Table is precision-ground on all surfaces, can be swiveled to any angle and locked to base. 3 T-slots in top of table for positioning and locking work. Swivel base is graduated 0 to 90° left and right. Indexing holes every 30°.

No. M1-350 ROTARY INDEX TABLE for Atlas milling machines, complete with two clamping bolts and wrench. ZESNO: 15 lbs. Table Diameter: 5½" Height To Top of Table: 1½" Three T-Slots, Top of Table: ½" x ½" x ½"

SWIVEL VISE

Grips work rigidly. Vise and base are heavy, machined castings — overall height 3½". Machined bolt slot at each end and long key in bottom maintain alignment with table T-slot. Vise locks in any position — base graduated 0-90° left and right. Jaws are ½" wide, ¾" high, open 3½" — operated by crank handle furnished.

No. M1-300 SWIVEL VISE with bolts. ZESON: 15 lbs.

ANGLE PLATE

No. 57-430 ANGLE PLATE with bolts. Holds irregular shapes that cannot be gripped in vise or bolted to table. A solid, well-braced iron casting, accurately machined to a right angle and precision-ground on the outer faces. Base and face each measure 2½" x 4" x 7½/16". ZEHUD: 3 lbs.

CHUCKS

No. M6-375 JACOBS CHUCK capacity No. 70 to 17/32", complete with key-type wrench. For convenient, accurate holding of small work on spindle of Atlas milling machines, headstock spindle nose of No. M1-200 index centers, above. Handles ½" shafts through spindle. YEBIE: 3 lbs.

No. M6-845B 4½ JAW UNIVERSAL CHUCK for No. M1-200 Index Centers. Complete with 2 sets of jaws (inside and outside) and wrench. YIAJK: 5 lbs.


SHELL END MILL DRIVER

No. M1-570 SHELL END MILL DRIVER. Required for No. M1-585 shell end mill. Threaded for spindle nose and has two driving pins for slot in back of cutter, ground pilot for cutter hole, large retainer screw. ZEVMA: 2 lbs.

ARBORS FOR ANGULAR CUTTERS

No. 573 For No. 574B 20 8 oz. YEWXY

SHANK-CUTTER ADAPTER


ANGULAR CUTTERS

For face-milling and dovetailing. Threaded hole — adapted to No. M1-577 shank-fitter adapter with arbors listed above.

No. Thick Diam. Hole Wt. Code

<table>
<thead>
<tr>
<th>No.</th>
<th>Thick Diam. Hole Wt. Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>574A</td>
<td>1¼&quot; 1/16&quot; ¾&quot; 6 oz. YALF</td>
</tr>
<tr>
<td>574B</td>
<td>1½&quot; 1/16&quot; ¾&quot; 6 oz. YALY</td>
</tr>
</tbody>
</table>

WOODRUFF KEYWAY CUTTERS

For cutting Woodruff keyways, slots, grooves, T-slots, etc. Straight shank — held directly in No. M1-577 shank-fitter adapter.


<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>575A</td>
<td>1&quot; 1/16&quot; 4 6 YALH</td>
</tr>
<tr>
<td>575B</td>
<td>1½&quot; 1/16&quot; 4 6 YALJ</td>
</tr>
<tr>
<td>575C</td>
<td>2&quot; 1/16&quot; 4 6 YAMD</td>
</tr>
<tr>
<td>575D</td>
<td>2½&quot; 1/16&quot; 4 6 YAMC</td>
</tr>
<tr>
<td>575E</td>
<td>3&quot; 1/16&quot; 2 6 YAMF</td>
</tr>
</tbody>
</table>

R. H. SPIRAL END MILLS

For slots, straight keyways, facing, routing, squaring and splining shafts. Straight shank — held in No. M1-577 shank-fitter adapter with bushings below.

No. Length Flute Diam. Wt. Oz. Code

<table>
<thead>
<tr>
<th>No.</th>
<th>Length Flute Diam. Wt. Oz. Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>576A</td>
<td>¾&quot; 1/4&quot; 4 YAKCE</td>
</tr>
<tr>
<td>576B</td>
<td>1½&quot; 1/4&quot; 4 YAKFD</td>
</tr>
<tr>
<td>576C</td>
<td>2½&quot; 1/4&quot; 4 YAKGD</td>
</tr>
<tr>
<td>576D</td>
<td>1½&quot; 1/16&quot; 4 YAKOF</td>
</tr>
<tr>
<td>576E</td>
<td>2½&quot; 1/16&quot; 4 YAKOF</td>
</tr>
</tbody>
</table>

END MILL BUSHINGS

No. 563E Set of 4 End Mill Bushings. Required to adapt all 576 end mills (except No. 576E) to No. M1-577 shank-fitter adapter. YALEJ: 6 oz. each.

METAL SLITTING SAWs

Sides taper-ground for proper clearance. Held on M1-560 arbors, 7/8" hole.


<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>M1-582</td>
<td>2½&quot; 1/32&quot; 8 ZETOP</td>
</tr>
<tr>
<td>M1-583</td>
<td>2½&quot; 1/16&quot; 8 ZETOP</td>
</tr>
<tr>
<td>M1-584</td>
<td>2½&quot; 1/4&quot; 8 ZETOP</td>
</tr>
</tbody>
</table>

SIDE MILLING CUTTER

No. M1-581 2½" diam., 1/4" face, 7/8" hole. Teeth have cutting edges on three sides. Held on M1-560 arbors. ZETME: 1 lb.

R. H. SPIRAL SHELL END MILL

For wide facing cuts, surfacing, end milling. R.H. spiral teeth. Bock is slotted to fit driving pins of M1-570 driver (required).


<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>M1-585</td>
<td>2½&quot; 1½&quot; 2 lbs. ZEVIP</td>
</tr>
</tbody>
</table>

SLAB MILLING CUTTER

Atlas 15" FLOOR TYPE DRILL PRESSES

HIGH SPEED AND SLO SPEED DRILLS

* Floating Drive with Six Splined Spindle and Steel Drive Sleeve Supported by Two Sealed-for-Life Ball Bearings.
* Two more Sealed-for-Life Ball Bearings Float Spindle Free from Quill — 4 Ball Bearings in All.
* Extra-Heavy Head, Table, Column and Base for Accurate Work.
* 41" Work Capacity over Table, 46" over Base.
* Quick-Positioning Direct-Reading Depth Control Stop.
* Available in High Speed and Slo Speed Models, with Choice of Full Tilting or Production Oil Table, No. 70 to 1/2" Jacobs Chuck or No. 2 M.T. Spindle.
* High Speed Model Has 4-Step Pulleys, Slo Speed Has 5-Step.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Machine Number</th>
<th>High Speed</th>
<th>SLO Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>1060</td>
<td>1080</td>
</tr>
<tr>
<td>Drills to Center of Circle, diam.</td>
<td>15&quot;</td>
<td>15&quot;</td>
</tr>
<tr>
<td>Speeds</td>
<td>four, 580-5200</td>
<td>five, 400-4400</td>
</tr>
<tr>
<td>Spindle Travel</td>
<td>4&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>Maximum Distance to Chuck</td>
<td>41&quot;</td>
<td>41&quot;</td>
</tr>
<tr>
<td>Maximum Distance Base to Chuck</td>
<td>46&quot;</td>
<td>46&quot;</td>
</tr>
<tr>
<td>Table Travel</td>
<td>1&quot;</td>
<td>1&quot;</td>
</tr>
<tr>
<td>Size of Table</td>
<td>10&quot; x 10&quot;</td>
<td>10&quot; x 10&quot;</td>
</tr>
<tr>
<td>Ground Steel Column, diam.</td>
<td>2 3/4&quot;</td>
<td>2 3/4&quot;</td>
</tr>
<tr>
<td>Overall Dimensions (with motor)</td>
<td>16&quot; wide</td>
<td>16&quot; wide</td>
</tr>
<tr>
<td>Net Weight (less motor)</td>
<td>155 lbs.</td>
<td>158 lbs.</td>
</tr>
<tr>
<td>Shipping Weight (less motor)</td>
<td>175 lbs.</td>
<td>178 lbs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Machine Number</th>
<th>High Speed</th>
<th>SLO Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>1065</td>
<td>1085</td>
</tr>
<tr>
<td>Drills to Center of Circle, diam.</td>
<td>15&quot;</td>
<td>15&quot;</td>
</tr>
<tr>
<td>Speeds</td>
<td>four, 580-5200</td>
<td>five, 400-4400</td>
</tr>
<tr>
<td>Spindle Travel</td>
<td>4&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>Maximum Distance to Chuck</td>
<td>40 3/8&quot;</td>
<td>40 3/8&quot;</td>
</tr>
<tr>
<td>Maximum Distance Base to Chuck</td>
<td>46 3/8&quot;</td>
<td>46 3/8&quot;</td>
</tr>
<tr>
<td>Table Travel</td>
<td>1&quot;</td>
<td>1&quot;</td>
</tr>
<tr>
<td>Size of Table</td>
<td>10 1/2&quot; x 15 1/2&quot;</td>
<td>10 1/2&quot; x 15 1/2&quot;</td>
</tr>
<tr>
<td>Ground Steel Column, diam.</td>
<td>23 3/4&quot;</td>
<td>23 3/4&quot;</td>
</tr>
<tr>
<td>Overall Dimensions (with motor)</td>
<td>20&quot; wide</td>
<td>20&quot; wide</td>
</tr>
<tr>
<td>Net Weight (less motor)</td>
<td>200 lbs.</td>
<td>203 lbs.</td>
</tr>
<tr>
<td>Shipping Weight (less motor)</td>
<td>220 lbs.</td>
<td>223 lbs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Machine Number</th>
<th>With 1/2&quot; Jacobs Chuck</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>With 1/2&quot; Jacobs Chuck</td>
</tr>
<tr>
<td>ZIBWA</td>
<td>ZIBBO</td>
</tr>
<tr>
<td>ZICAY</td>
<td>40 3/8&quot;</td>
</tr>
<tr>
<td>ZIBYE</td>
<td>40&quot;</td>
</tr>
<tr>
<td>ZICCO</td>
<td>45 3/8&quot;</td>
</tr>
</tbody>
</table>

With No. 2 Morse Taper Spindle

<table>
<thead>
<tr>
<th>Machine Number</th>
<th>With No. 2 Morse Taper Spindle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>With No. 2 Morse Taper Spindle</td>
</tr>
<tr>
<td>ZIBWA</td>
<td>ZICAY</td>
</tr>
<tr>
<td>ZIBYE</td>
<td>40 3/8&quot;</td>
</tr>
<tr>
<td>ZICCO</td>
<td>45 3/8&quot;</td>
</tr>
</tbody>
</table>

All other specifications same as above.

Equipped with the attachments described on page 30, the Atlas is an ideal machine for repetitive drilling and tapping operations. Woodworking attachments, pages 32 and 33, equip the Atlas drill press for quick, easy handling of such jobs as shaping, mortising, routing, carving and sanding — give you seven tools in one for your shop.

Safety belt guard illustrated on page 30 may be ordered installed when ordering drill press from factory.

EQUIPMENT FURNISHED includes built-in switch — 15 amperes at 125 volts — for single phase current only. 3 phase switch is described on page 29. 4-step pulley with high speed models and 5-step with slo speed are for 5/8" diameter motor shaft — dealer can supply bushings for 5/8" diam. motor shafts. Motor mounting bracket, less motor.
NEW DRIVE

FOUR SEALED-FOR-LIFE BALL BEARINGS

NEW HIGH SPEED AND SLO SPEED MODELS

Economical to buy and economical to operate — available in high and slo speeds, with a choice of full-tilting or production oil table, Jacobs chuck or No. 2 Morse taper spindle — there's an Atlas drill press that will save time and money in every type of shop and application within the machine's capacity. Lasting accuracy is assured by the extra heavy construction of the Atlas head, table, column and base, and the Atlas "floating drive" design.

The new floating drive, exclusive with Atlas, consists of a six-splined spindle and a steel drive sleeve that floats on two large sealed-for-life ball bearings for longer service life. This floating drive transmits turning power only to the spindle — all belt pull is taken to the head through the drive unit. Two more sealed-for-life ball bearings float the spindle free from the quill. Steel quill is precision-ground.

The Atlas drill press head is a heavy, well-braced casting — a strong, rigid housing for the spindle assembly, with widely spaced column bearing surfaces for maximum rigidity. The three quill guides and two drive-bearing housings are precision bored for perfect concentricity of the quill with the drive unit, for accurate spindle alignment.

The Atlas depth control stop is another exclusive feature that improves accuracy and keeps setup time at a minimum. To set, you merely press the release lever, slide stop to the approximate position, and turn vernier screw until the indicator points to exactly the depth required.

The table and base are heavy, well-braced grey-iron castings. Column is centerless ground thick-walled tube steel. Adjustable feed tension, three-spoke feed wheel, built-in 15-ampere motor control switch and adjustable motor mounting bracket are included in the equipment furnished.

THE HIGH SPEED MODELS have 4-step pulleys that provide these speeds: 580, 1300, 2440 and 5200 RPM.

SLO-SPEED MODELS have 5-step pulleys with speeds of 400, 680, 1370, 2570 and 4400 RPM.
Atlas 15" BENCH TYPE DRILL PRESSES

- High Speed and Slow Speed Models.
- 4 Sealed-for-Life Ball Bearings.
- Floating Drive with Six Spline Spindle and Steel Drive Sleeve Supported by Two Sealed-for-Life Ball Bearings.
- Two Sealed-for-Life Ball Bearings Float Spindle Free from the Quill.
- Head, Table, Column and Base Are Extra Heavy for Accurate Work.
- Top of Base Is Precision-Ground and Slotted to Serve as Auxiliary Table.
- Choice of Full-Tilting or Production Oil Table, No. 70 to 1/2" Jacobs Chuck or No. 2 M.T. Spindle.
- High Speed Drill Has 4-Step Pulleys, Slow Speed 5-Step.

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Machine Number</th>
<th>HIGH SPEED</th>
<th>SLO SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>1020</td>
<td>1040</td>
</tr>
<tr>
<td>Drill to Center of Circle, diam.</td>
<td>ZICUD</td>
<td>ZIDBE</td>
</tr>
<tr>
<td>Speeds</td>
<td>four, 580-5200</td>
<td>five, 400-400</td>
</tr>
<tr>
<td>Spindle Travel</td>
<td>4&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>Maximum Distance Table to Chuck</td>
<td>12&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>Maximum Distance Base to Chuck</td>
<td>16&quot;</td>
<td>16&quot;</td>
</tr>
<tr>
<td>Table Travel</td>
<td>12&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>Size of Table</td>
<td>10&quot; x 10&quot;</td>
<td>10&quot; x 10&quot;</td>
</tr>
<tr>
<td>Ground Steel Column, diam.</td>
<td>133/4&quot;</td>
<td>133/4&quot;</td>
</tr>
<tr>
<td>Overall Dimensions (with motor)</td>
<td>243/4&quot; deep 243/4&quot; deep</td>
<td></td>
</tr>
<tr>
<td>Net Weight (less motor)</td>
<td>112 lbs.</td>
<td>115 lbs.</td>
</tr>
<tr>
<td>Shipping Weight (less motor)</td>
<td>130 lbs.</td>
<td>133 lbs.</td>
</tr>
</tbody>
</table>

With No. 70 to 1/2" Jacobs Chuck

### BENCH TYPE WITH FULL-TILTING TABLE

<table>
<thead>
<tr>
<th>Machine Number</th>
<th>HIGH SPEED</th>
<th>SLO SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>1025</td>
<td>1045</td>
</tr>
<tr>
<td>Drill to Center of Circle, diam.</td>
<td>ZICYA</td>
<td>ZIDDO</td>
</tr>
<tr>
<td>Speeds</td>
<td>four, 580-5200</td>
<td>five, 400-400</td>
</tr>
<tr>
<td>Spindle Travel</td>
<td>4&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>Maximum Distance Table to Chuck</td>
<td>113/8&quot;</td>
<td>113/8&quot;</td>
</tr>
<tr>
<td>Maximum Distance Base to Chuck</td>
<td>16&quot;</td>
<td>16&quot;</td>
</tr>
<tr>
<td>Table Travel</td>
<td>133/8&quot;</td>
<td>133/8&quot;</td>
</tr>
<tr>
<td>Size of Table</td>
<td>10 1/2&quot; x 10 1/2&quot;</td>
<td>10 1/2&quot; x 10 1/2&quot;</td>
</tr>
<tr>
<td>Ground Steel Column, diam.</td>
<td>2 1/2&quot;</td>
<td>2 1/2&quot;</td>
</tr>
<tr>
<td>Overall Dimensions (with motor)</td>
<td>20&quot; wide 20&quot; wide</td>
<td></td>
</tr>
<tr>
<td>Net Weight (less motor)</td>
<td>167 lbs.</td>
<td>170 lbs.</td>
</tr>
<tr>
<td>Shipping Weight (less motor)</td>
<td>185 lbs.</td>
<td>188 lbs.</td>
</tr>
</tbody>
</table>

With No. 2 Morse Taper Spindle

### BENCH TYPE WITH PRODUCTION OIL TABLE

<table>
<thead>
<tr>
<th>Machine Number</th>
<th>HIGH SPEED</th>
<th>SLO SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>1400</td>
<td>1410</td>
</tr>
<tr>
<td>Drill to Center of Circle, diam.</td>
<td>ZIYTA</td>
<td>ZIYVE</td>
</tr>
<tr>
<td>Maximum Distance Table to Spindle</td>
<td>115/8&quot;</td>
<td>115/8&quot;</td>
</tr>
<tr>
<td>Maximum Distance Base to Spindle</td>
<td>155/8&quot;</td>
<td>155/8&quot;</td>
</tr>
</tbody>
</table>

All other specifications same as above.

NOTE: Safety belt guard illustrated on page 30 may be ordered installed when ordering drill press from factory.

EQUIPMENT FURNISHED includes depth control stop, built-in motor control switch — 15 amperes at 125 volts, 3-spoke feed wheel, V-belt, motor pulley for 3/8" diameter motor shaft—dealer can supply bushings for 1/2" diam. motor shafts, motor mounting bracket, less motor.
The installations pictured on this page are typical of hundreds where Atlas drill press heads have solved difficult production setups. They show how expensive, awkward jobs can be simply converted into profitable operations. The possibilities for multiplying drilling efficiency with these heads are practically unlimited.

Atlas drill heads often eliminate the need for a costly special drilling machine or intricate fixture. They are compact, portable, easily adapted to the job, and may be operated in any position. Exclusive Atlas “floating drive” with deep grooved ball bearings insures long, accurate service. Head is a heavy, well-braced casting—a strong, rigid housing for the spindle assembly.

Available in two sizes: the 15" and 12 3/4"—complete specifications below. Note: We do not manufacture special drilling machines.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Drills to Center of Circle</th>
<th>15&quot; diam.</th>
<th>12 3/4&quot; diam.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spindle Travel</td>
<td>4&quot;</td>
<td>3&quot;</td>
</tr>
<tr>
<td>Bored for Column</td>
<td>2 3/4&quot;</td>
<td>2 1/4&quot;</td>
</tr>
<tr>
<td>Speed Range, RPM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High Speed Drills</td>
<td>four, 580-5200</td>
<td>four, 580-5200</td>
</tr>
<tr>
<td>Slow Speed Drills</td>
<td>five, 400-4400</td>
<td></td>
</tr>
<tr>
<td>Ball Bearings</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Weight</td>
<td>72 lbs.</td>
<td>57 lbs.</td>
</tr>
</tbody>
</table>

**NOTE:** Safety belt guard, page 30, may be ordered installed when ordering head from factory.

**Furnished:** Complete as shown above, with built-in switch—15 amperes at 125 volts—for single phase current only, 3-spoke feed wheel, motor mounting bracket, belt and pulley, less motor and column. 4-step motor pulley furnished with high speed drill, 5-step with slow-speed for 3/8" diam. motor shaft—dealer can supply bushing for 1/2" diam. motor shafts. 15" drill heads available with choice of Jacobs chuck or No. 2 M.T. spindle.

<table>
<thead>
<tr>
<th>Machine Number</th>
<th>Center of Circle</th>
<th>Speed</th>
<th>Spindle</th>
<th>Weight</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1015</td>
<td>12 3/4&quot; diam.</td>
<td>High</td>
<td>Jacobs Chuck</td>
<td>57 lbs.</td>
<td>ZIVIT</td>
</tr>
<tr>
<td>1180</td>
<td>15&quot; diam.</td>
<td>High</td>
<td>Jacobs Chuck</td>
<td>69 lbs.</td>
<td>ZIVOV</td>
</tr>
<tr>
<td>1190</td>
<td>15&quot; diam.</td>
<td>Slow</td>
<td>Jacobs Chuck</td>
<td>72 lbs.</td>
<td>ZIVSE</td>
</tr>
<tr>
<td>1485</td>
<td>15&quot; diam.</td>
<td>High</td>
<td>No. 2 M.T.</td>
<td>69 lbs.</td>
<td>ZIYEV</td>
</tr>
<tr>
<td>1495</td>
<td>15&quot; diam.</td>
<td>Slow</td>
<td>No. 2 M.T.</td>
<td>72 lbs.</td>
<td>ZIYHK</td>
</tr>
</tbody>
</table>

Built around an Atlas drill press head, column and two radial arms, this economical setup at the Safety Vulcanizing Company, Chicago, tripled the production rate for drilling holes in aluminum matrices (to prepare them for the zinc die-casting of tire tread designs).
Atlas. MULTIPLE SPINDLE DRILL PRESSES

In almost every small-part production setup there are operations where Atlas multiple spindle drill presses can save time. They eliminate waste operator motion on series of drilled and tapped holes. They reduce parts handling, boost output.

The massive production tables provide plenty of "elbow room" for smooth movement of jigs and fixtures. Each drill head is equipped with its own motor mounting and the unique Atlas-developed control positions each head as desired with a few turns of the crank.

Note the weight of the units, which insures stability - the 1/2 or 1/2 HP motor requirement that cuts power cost. These units are built to give you important production savings. Any special questions about adapting them for your particular needs will get prompt attention from the Atlas Engineering Staff.

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### HIGH SPEED DRILL PRESSES

<table>
<thead>
<tr>
<th>Machine No.</th>
<th>No. of Spindles</th>
<th>Type of Spindle</th>
<th>Weight (lbs.)</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1120</td>
<td>2</td>
<td>1/2&quot; Jacobs Chuck</td>
<td>660</td>
<td>ZISOS</td>
</tr>
<tr>
<td>1450</td>
<td>2</td>
<td>No. 2 Morse Taper</td>
<td>660</td>
<td>ZIUMN</td>
</tr>
<tr>
<td>1140</td>
<td>3</td>
<td>1/2&quot; Jacobs Chuck</td>
<td>1100</td>
<td>ZISSO</td>
</tr>
<tr>
<td>1460</td>
<td>3</td>
<td>No. 2 Morse Taper</td>
<td>1100</td>
<td>ZIUST</td>
</tr>
<tr>
<td>1160</td>
<td>4</td>
<td>1/2&quot; Jacobs Chuck</td>
<td>1200</td>
<td>ZISVY</td>
</tr>
<tr>
<td>1470</td>
<td>4</td>
<td>No. 2 Morse Taper</td>
<td>1200</td>
<td>ZIVAR</td>
</tr>
</tbody>
</table>

### SLO SPEED DRILL PRESSES

<table>
<thead>
<tr>
<th>Machine No.</th>
<th>No. of Spindles</th>
<th>Type of Spindle</th>
<th>Weight (lbs.)</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1130</td>
<td>2</td>
<td>1/2&quot; Jacobs Chuck</td>
<td>660</td>
<td>ZITUUV</td>
</tr>
<tr>
<td>1455</td>
<td>2</td>
<td>No. 2 Morse Taper</td>
<td>660</td>
<td>ZIURS</td>
</tr>
<tr>
<td>1150</td>
<td>3</td>
<td>1/2&quot; Jacobs Chuck</td>
<td>1100</td>
<td>ZIUGH</td>
</tr>
<tr>
<td>1465</td>
<td>3</td>
<td>No. 2 Morse Taper</td>
<td>1100</td>
<td>ZIUZB</td>
</tr>
<tr>
<td>1170</td>
<td>4</td>
<td>1/2&quot; Jacobs Chuck</td>
<td>1200</td>
<td>ZIJUK</td>
</tr>
<tr>
<td>1475</td>
<td>4</td>
<td>No. 2 Morse Taper</td>
<td>1200</td>
<td>ZIWAS</td>
</tr>
</tbody>
</table>

### SPECIFICATIONS

- **Number of Spindles**: 2, 3, 4
- **Center to Center of Spindles**: 12", 17", 13"
- **Maximum Distance Table to Chuck**: 26" (2x)
- **Maximum Distance Table to No. 2 M.T. Spindles**: 295/8" (2x)
- **Column to Center of Spindle**: 71/2"
- **Column Support Bracket to Center of Spindle**: 67/8"
- **Chuck Capacity**: 1/2" (2x), 1/2" (2x)
- **Spindle Travel**: 4" (2x)
- **Table Working Surface**: 21" x 49" (2x) x 49"
- **High Speed Drills**: 580 to 5200 RPM
- **Slow Speed Drills**: 400 to 4400 RPM
- **Overall Height**: 761/4" (2x)
- **Overall Depth with Motors**: 311/2" (2x)
- **Overall Width**: 53" (2x)
- **Floor to Top of Table**: 31" (2x)
- **Wood Shelf**: 14" x 521/4"
- **Net Weight Less Motor**: 960 lbs. (2x) 860 lbs.
- **Shipping Weight (Approximate)**: 1200 lbs. (2x) 1100 lbs.

1/2 or 1/2 HP Motor is recommended — Atlas Nos. 2720, 2730, 2821 or 2831. See page 29.

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NOTE: The safety belt guard illustrated on page 30 may be ordered installed at the factory when ordering the drill press.

STANDARD EQUIPMENT: Each unit is furnished complete as shown with floor legs, less motors. Equipment includes head raising mechanism described on page 27, Jacobs No. 70 — 1/2" chuck or Morse taper spindle, motor mounting bracket, V-belt, built-in switch (15 amperes at 125 volts, single phase), and 3/4" diameter bore motor pulley — four-step with high speed, five-step with slo speed. Dealer can supply bushings for 1/2" diam. motor shafts.
The Atlas 12\(\frac{3}{4}\)" drill press is an excellent general purpose machine for any type of shop. It has the construction, accuracy and performance features of more costly drills. Makes quick easy work of the full range of drill press operations — from precision drilling and tapping of metal to such woodworking jobs as mortising, shaping, sanding, carving and routing.

It has a new floating drive unit — with six splined spindle and drive sleeve and large double row ball bearing mounted in the pulley — that insures smooth, quiet operation. The drive bearing turns on an independent ground steel sleeve anchored in the head. And two more ball bearings float the spindle free from the quill. This floating drive transmits turning power only to the spindle — all belt pull is taken to the head through the drive unit.

The head is a heavy, rugged casting — a strong housing for the spindle and bearings. Matched and balanced pulleys, combined with floating drive, practically eliminate vibration. Full tilting table is accurately ground. Precision Jacobs chuck, quick-positioning direct-reading depth control stop, three spoke feed wheel, built-in 12 amperes motor control switch and adjustable motor mounting bracket are furnished. Drive pulley and splined spindle are enclosed by iron guard. Head, quill and table support clamp locks are coordinate type. Heavy base is a rugged support — base is ground and slotted to serve as auxiliary table.

**No. 1010** BENCH TYPE DRILL PRESS with No. 70 to \(\frac{1}{2}\)" Jacobs Chuck complete as shown with belt and motor pulley with \(\frac{5}{8}\)" diameter bore, less motor. ZICOY 100 lbs.

**SPECIFICATIONS**

Drills to Center of Circle .................. 12\(\frac{3}{4}\)" diameter

Drill Capacity .................................. \(\frac{3}{4}\)"

Spindle Travel .................................. 3"

Maximum Distance Table to Chuck ....... 11"

Maximum Distance Base to Chuck ......... 14\(\frac{1}{2}\)"

Table Travel .................................. 11"

Size of Table .................................. \(8\times9\)"

Ground Steel Column ....................... 2\(\frac{1}{4}\)" diameter

Bearings ...................................... Ball Bearings

4 Speeds between 580 and 5200 RPM

With Hi-Lo Speed Attachment Low Speed 210 RPM

Overall Height ................................ 36"

Overall Width ................................ 11"

Overall Depth with Motor ................... 24"

Net Weight, less Motor ...................... 82 lbs.

Shipping Weight, less Motor .............. 100 lbs.

\(\frac{1}{4}\) or \(\frac{1}{2}\) HP, 1725 RPM Motor is recommended — Atlas Nos. 2720, 2730, 2821, or 2831 at bottom of page.

**EQUIPMENT FURNISHED:** Built-in switch (15 amp., at 125 volts for single phase current), pulley guard, V-belt, motor pulley with \(\frac{5}{8}\)" diameter bore — dealer can supply bushings for \(\frac{1}{2}\)" diam. motor shafts, motor mounting bracket.

**MOTORS**

Atlas Capacitor-Starr Motors have high starting and pull-out torque, developing full power instantly under load without drawing excess current. Have large ball bearings — may be operated in any position: horizontal, vertical or inverted. \(\frac{3}{4}\)" single-end shaft. 60 Cycle. Do not have switch, cord or plug.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Code</th>
<th>HP</th>
<th>Volts</th>
<th>RPM</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2720</td>
<td>YIDGE</td>
<td>(\frac{1}{2})</td>
<td>115-230</td>
<td>1725</td>
<td>32 lbs.</td>
</tr>
<tr>
<td>2730</td>
<td>YIDFA</td>
<td>(\frac{1}{2})</td>
<td>115-230</td>
<td>1725</td>
<td>28 lbs.</td>
</tr>
</tbody>
</table>

No. 2710 10-4; Extension Cord and Plug for \(\frac{1}{2}\) and \(\frac{1}{4}\) HP single phase motors, YIDEY, 1 lb.

Atlas Three Phase Motors are 50-60 cycle — have ball bearings, \(\frac{3}{4}\)" single-end shaft, terminal box — do not have switch, cord or plug.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Code</th>
<th>HP</th>
<th>Volts</th>
<th>Cycle</th>
<th>RPM</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2821</td>
<td>YIHAJ</td>
<td>(\frac{1}{2})</td>
<td>220-440</td>
<td>50-60</td>
<td>1425/1725</td>
<td>52 lbs.</td>
</tr>
<tr>
<td>2831</td>
<td>YIHEK</td>
<td>(\frac{1}{2})</td>
<td>220-440</td>
<td>50-60</td>
<td>1425/1725</td>
<td>26 lbs.</td>
</tr>
</tbody>
</table>

No. W67 Three Phase Switch for single spindle drill presses. Furnished with switch cord and mounting bracket. ZEKE, 6 lbs.

No. W85 Three Phase Switch for multiple spindle drill presses. Furnished with switch cord and mounting bracket. ZEIKD, 6 lbs.

**MACHINES STAND**

The Atlas 12\(\frac{3}{4}\)" drill press stand is heavy gauge steel — carefully designed and built to provide a permanently rigid machine support. Top is ready drilled for bolting drill in place. Shelf is adjustable up and down — provides a handy place for drills and accessories. Assembles quickly and easily with bolts furnished.

**No. 9022** MACHINE STAND for Atlas 12\(\frac{3}{4}\)" Drill Press. 16" x 16" x 32" high. YUSOY, 32 lbs.
SAFETY GUARD

No. 1240 SAFETY GUARD for any Atlas 15" drill press shown in this catalog. A light, durable safety shield that covers the entire drill press drive mechanism as required by safety codes. Pin hinges permit quick raising for speed changes — unnecessary to remove guard to change belting. Usable with any Atlas drill press attachment. May be ordered separately or with drill. Ready tapped for easy installation, ZEZTO, 7 lbs.

IMPORTANT: For previous model drill presses, 60 and 70 series, order Safety Guard No. 62-7A.

PRODUCTION OIL TABLE

No. 1235 PRODUCTION OIL TABLE for Atlas 15" bench and floor type drill presses. For production work with jigs and fixtures. Can be ordered separately or with press in place of full-tilting table. Heavy grey-iron with 10½" x 16½" precision-ground working surface. Has drain channel for oil. ZABUR. 65 lbs.

FOOT LEVER FEED CONTROL

No. W33 FOOT LEVER FEED CONTROL for single spindle Atlas floor type drill presses. Speeds up any repetitive operation. Improves accuracy by freeing operator's hands to hold and guide work. Includes adjustable draw rod, foot pedal, spindle arm, adjustable return spring. (Note: not recommended for production mortising.) ZAETH. 31 lbs.

TAPPING ATTACHMENTS

Converts any Atlas 15" drill press into a sensitive, high-speed production tapping machine. Spindle turns on ball bearings. Reverse speed is twice forward speed. No adapters necessary.

HI-LO SPEED ATTACHMENT

For High Speed Drill Presses Only

The 'Hi-Lo' provides a low speed of 210 RPM for heavy metal work and higher than standard speeds for woodworking.

It can be mounted or removed in less than three minutes. Base is accurately machined to fit inside the top of drill press column. Balanced pulley runs on a large double-row ball bearing. Eccentric mounting of pulley with base permits quick release of belt tension for speed changes.

W-122 For 15" High Speed Drills shown in this catalog 2½" ZEMHO
W-121 No. 1010 and 54-series 2" ZEKO
W-120 64- and 74-series 2½" ZEKID
W-148 55-series 2½" ZFEO
W-15 60- to 63-series and 70- to 73-series 2½" ZAFTO

Low speed 210 RPM. Weight 6 lbs. — V-belts furnished.

QUICK-CHANGE BELT RELEASE

Permits instant release of belt tension, speeds up belt changes, and assures correct tension adjustment at all times. Motor, on hinged base, is moved toward drill press head by rocker shaft with ball handle control. Easily installed, replacing regular motor bracket. May be ordered separately or with drill press.

No. 52-50A QUICK-CHANGE BELT RELEASE for Atlas 15" high speed drill presses. ZECWO. 12½ lbs.

No. 1236 QUICK-CHANGE BELT RELEASE for Atlas 15" slo speed drill presses. ZEMDA. 12½ lbs.

RADIAL ARM

Increases Throat Capacity to 24"

Converts any Atlas 15" drill press into a small radial drilling machine with work range which permits drilling of extra large pieces. Increases chuck-to-column capacity to a full 24", and the auxiliary column furnished adds 15" to chuck-to-base capacity. Can be mounted in an upright or inverted position.

Massive arm casting is ribbed and reinforced to maintain rigidity. Holes for drill press column and auxiliary column are precision bored. The 19" auxiliary column is 2½" diameter ground steel tubing — allows travel of the drill head up to 6½" — also permits drill head to be mounted above or below arm.

No. W79 RADIAL ARM for Atlas 15" drill presses. ZAJAT. 46 lbs.

COLUMN COLLAR

Simplifies raising, lowering, swinging drill press head or table. Furnished with 15" drill presses.

No. 61-755 Drill Press Collar Code
15 inch 3½ lbs. ZEHTA 61-755
12½ inch 3½ lbs. ZEHZE

No. 1235 TAPPING ATTACHMENT for No. 2 M.T. drill presses. Specifications same as No. W39A above. ZEYLJ. 13 lbs.
**Atlas DRILL PRESS ACCESSORIES**

**UNIVERSAL COMPOUND VISE**

All types of accurate indexing, layout, and spacing work — straight lines, radial, circular — are handled by this versatile fixture. Built rigidly to adapt drill presses to light milling operations . . . ideal for use with shapers, milling machines, lathes, and grinders for any jobs requiring accurate feeds in two directions.

Base casting is a rigid, accurate foundation for the attachment and work. Upper slide is graduated 90° right and left so vise table may be set at any angle. The transverse (upper) and cross (lower) slides travel on dovetail ways, carefully machined and hand fitted — have full-length gib plates for take-up. One vise jaw swivels to grip irregular work, other has movable face to tighten on work.

**No. W68 UNIVERSAL COMPOUND VISE** complete as shown above with wrench and bolts. ZIFWE. 233½ lbs.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross Feed Travel (lower)</td>
<td>6½”</td>
</tr>
<tr>
<td>Transverse Feed Travel (upper)</td>
<td>6” x 7”</td>
</tr>
<tr>
<td>Size of Base</td>
<td>6” x 7”</td>
</tr>
<tr>
<td>Size of Table</td>
<td>7” x 7”</td>
</tr>
<tr>
<td>Jaw Width</td>
<td>3”</td>
</tr>
<tr>
<td>Jaw Opening</td>
<td>4½”</td>
</tr>
<tr>
<td>Jaw Height</td>
<td>1½”</td>
</tr>
<tr>
<td>Height, Base to Table</td>
<td>4½”</td>
</tr>
</tbody>
</table>

**VERNIER DRILL STOP**

Cuts setup time, improves accuracy. To set, press the release lever, slide stop to approximate position, and turn vernier screw until indicator points to depth required.

**No. 1273 VERNIER DRILL STOP** as furnished with 12½” drill presses. ZOCPE. 12 oz.

**HEAD and TABLE POSITIONING MECHANISM**

For Atlas 15” Floor-Type Drill Presses

Makes fast, easy work of raising or lowering drill press head or table. Quickly installed on Atlas 15” floor model drill press. Simply turning the crank handle raises or lowers the drill head or table. One revolution of the crank gives 1/8” travel — maximum travel at one setting is 12”.

**No. W76 HEAD and TABLE POSITIONING MECHANISM** for 15” Floor-Type Drill Presses. ZAIRG. 18 lbs.

**COOLANT SYSTEMS**

For Floor-Type, Bench-Type, and Multiple Spindle Drills


**No. W99 OIL PAN** for single spindle floor-type drill presses. Size: 16” x 22” x 2” deep. ZEKBA. 10 lbs.

**No. W91 OIL PAN** for single spindle floor-type drill presses and others with 2½” diameter columns. Adjustable column bracket. Size: 16” x 10” x 2” deep. ZEKCE. 12 lbs.

Both of above pans are leak-proof welded, heavy-gauge steel, have outlet nipple for return hose.

**No. W116 COOLANT SYSTEM** for Two-Spindle drill presses. ZELF. 32 lbs.

**No. W117 COOLANT SYSTEM** for Three-Spindle drill presses. ZELOG. 34½ lbs.

**No. W118 COOLANT SYSTEM** for Four-Spindle drill presses. ZELUH. 56½ lbs.

Systems 116, 117 and 118 are complete with nozzles, clamps, universal-type pump, feed and return tubes. Specifications: pumping capacity 450 G.P.M.; tank capacity 5 gals.; universal motor 6000 RPM, 115 volts, AC-DC.
SHAPING ATTACHMENT

The W80 Shaping Attachment converts any Atlas drill press with Jacobs chuck spindle into an accurate, efficient shaping machine. By combining the cutters shown below, almost any shape or contour may be formed.

The fence casting is accurately machined grey-iron — a rigid support for the seasoned hardwood faces. Base of fence is slotted to permit 7/16" adjustment — feed screw moves right hand in and out for planing operations. Two adjustable spring steel clips, furnished, hold work securely against fence and table during entire length of cut. Cutters, except for portion engaging work, are enclosed by the heavy fence casting which has an opening in back for easy chip removal.

W80 SHAPING ATTACHMENT. Includes table, fence, hold-downs, less cutters, adapter and collars. YUZOP, 13 lbs.

W80F SHAPING FENCE only. Includes wood facings, bolts, washers and nuts. YUZPO, 5 1/2 lbs.

W80T EXTENSION TABLE only, with screws and guide pin for irregular work. YUZBY, 6 lbs.

W80H HOLD-DOWNS only, with clamps and stud. YUZYR, 1 1/2 lbs.

SHAPING BLADE COLLARS

No. 3660 SHAPE BLADE COLLARS. Equip Atlas drill presses and others, with Jacobs No. 33 tapered spindle for a wide variety of moulding and dadoing operations with the blades shown and listed below. Collars are accurately machined steel, have unique "lock-in" design that holds cutters securely for accuracy in every type of cut. No. W6-6A adapter, see next page, is required. ZOECE, 4 oz.

CUTTER BLADES

Blades are 1/4" thick — precision machined from special alloy steel — have exclusive "lock-in" design that prevents them from working loose.

No. 3320 1/4" Blank Cutters. Pr. ZOAWY, 3 oz.
No. 3321 1/4" Blank Cutters, Pr. ZOAZYB, 3 oz.
No. 3322 1" Blank Cutters, Pr. ZOBAC, 3 oz.
No. 3326 Joint and 1/2" Rad. Cove Cutters. Pr. ZOBDE, 3 oz.
No. 3327 1/2" Rad. Bead and 45° Cutters. Pr. ZOBED, 3 oz.
No. 3328 1/3" Rad. Bead and 1/2" Rad. Cove Cutters. Pr. ZOBGO, 5 oz.
No. 3330 Glue Joint Cutters. Pr. ZOBYJ, 3 oz.
No. 3331 1/4" Rad. Flute and 1/4" Rad. Cove Cutters. Pr. ZOBGR, 3 oz.
No. 3332 1/4" Rad. Reed Mould Cutters. Pr. ZOBUH, 3 oz.
No. 3333 45° Flute Cutters. Pr. ZOBYJ, 3 oz.
No. 3334 1/2" Rad. Flute Cutters. Pr. ZOSA, 3 oz.
No. 3335 3/16" Rad. Half Round Bead and Cove Cutters. Pr. ZOCAD, 2 oz.
No. 3336 Tongue Cutters. Pr. ZOCYK, 3 oz.
No. 3337 Groove Cutters. Pr. ZODAF, 3 oz.
No. 3338 Door Lip Cutters. Pr. ZODQJ, 3 oz.

3-WING SHAPING CUTTERS

Atlas shaping cutters are made of select high carbon steel, carefully heat-treated and ground for clean cutting and long service. All have 1/2" hole, 1 7/8" in diameter. Adapted to drill press spindle with No. W6-6A, illustrated on next page.

No. 3620 SET OF 11 CUTTERS, consisting of one each of 11 cutters shown directly below. ZILLO, 1 1/2 lbs.

SASH AND DOOR CUTTER

The Sash and Door Cutter and Set of Four Spacers (at right, above) equip the drill press for quick, accurate handling of door, window, and storm and screen sash work. Cutter has 1/2"-24 thread — threads directly on No. W6-6A adaptor, shown at right, above.

No. 3675 SASH AND DOOR CUTTER AND SET OF FOUR SPACERS, shown at right, above. ZIMPY, 4 1/2 oz.
No. 3645 SASH AND DOOR CUTTER only. 1/2"-24 thread. ZIMMO, 11/2 oz.
CUTTER ADAPTER

For Shaper Cutters, Blade Collars, and Drum Sander

No. W6-6A SHAPING CUTTER ADAPTER for all Jacobs Chuck spindles, complete with nut and washer. ZALUC. 7 oz.

DEPTH COLLARS

For Shaper Cutters and Blades


SPACERS FOR SASH CUTTER

No. 3670 SET OF FOUR SPACERS. Shoulder No. 367A cutter at desired position on spindle. All are 3/4" diameter, have 1/2" hole. One of the following lengths: 1/4", 5/16", 1/2", 1". ZIMPY. 3 oz.

ROUTER BITS

Complete set equips drill press for fast, accurate work on carving, inlaying, round-end mortising, dovetailing, reeding, round edging, boring, and general routing. Bits are alloy steel, ready-sharpened to shape. Shanks are 5/16" in diameter. Held in drill press with No. W31 adapter listed below.

SET OF 11 BITS

No. 1200 SET OF 11 ROUTER BITS, consisting of one each of the bits listed below. ZIPPO. 2 lb.

No. 1201 1/8" Mortising ZINKA
No. 1202 1/4" Mortising ZINLE
No. 1203 3/16" Mortising ZINNO

No. 1204 3/16" Dovetailing ZINON
No. 1205 5/32" Dovetailing ZINU
No. 1206 1/8" Dovetailing 5/32" Mortising ZIOXY
No. 1207 1/8" Mortising ZIPIAL

No. 1208 3/32" Mortising ZIPEM
No. 1209 1/8" Mortising ZIPLA
No. 1210 1/8" Carving ZIPEM
No. 1211 3/32" Carving ZIPOP

ROUTER BIT ADAPTER

No. W31 ADAPTER. Fits drill press spindle in place of Jacobs Chuck. 5/16" hole. ZANEB. 8 oz.

MORTISING ATTACHMENT

Converts any Atlas drill press with Jacobs chuck spindle into a mortising machine for cutting clean, accurate mortise-and-tenon joints.

Fence can be adjusted after table bracket has been bolted to drill press table — an exclusive Atlas feature. It permits adjusting work for mortises larger than the regular chisel range. Fence always moves parallel to the chisel sides. The hold-down foot is quickly adjusted for work between 1/2" and 6" high. Capacity between fence and sideclamp arm is 5 1/2", but arm can be turned out of the way for wider work.

No. W1B MORTISING ATTACHMENT as illustrated, less chisel and bit. ZALWA. 10 lb.

No. W1-4 MORTISING CHISEL SOCKET ONLY — for all Atlas drill presses. ZAMY. 3 lb.

No. W1F MORTISING HOLD-DOWN AND FENCE ATTACHMENT ONLY. ZALEY. 8 lb.

MORTISING CHISELS

Have superior cutting qualities, long life. Made of select high-carbon steel, carefully heat-treated.

<table>
<thead>
<tr>
<th>Size</th>
<th>Depth of Mortise</th>
<th>Weight</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC-25</td>
<td>1/8&quot; x 1/16&quot;</td>
<td>1 1/2 oz.</td>
<td>ZIGOG</td>
</tr>
<tr>
<td>MC-37</td>
<td>3/16&quot; x 3/32&quot;</td>
<td>2 oz.</td>
<td>ZIGUIH</td>
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<tr>
<td>MC-50</td>
<td>1/4&quot; x 1/16&quot;</td>
<td>3 1/2 oz.</td>
<td>ZIGYJ</td>
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MORTISING CHISEL BITS


<table>
<thead>
<tr>
<th>Size</th>
<th>Diameter Shank</th>
<th>Weight</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-25</td>
<td>1/8&quot;</td>
<td>3/16&quot;</td>
<td>1/4 oz.</td>
</tr>
<tr>
<td>MB-37</td>
<td>3/32&quot;</td>
<td>19/64&quot;</td>
<td>1 oz.</td>
</tr>
<tr>
<td>MB-50</td>
<td>1/8&quot;</td>
<td>19/64&quot;</td>
<td>2 oz.</td>
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DRUM SANDER

The drum sanding attachment saves time and effort on fine wood, metal and plastic finishing. Abrasive sleeves are easily changed, and are available in garnet and alumoxite as listed below. Adapted to drill press spindle with No. W6-6A, above.

No. W6A DRUM SANDER — 2-3/16", 3" high — complete with one medium garnet abrasive sleeve. ZAKWE. 2 lbs.

No. W6-2A Six ALOXITE abrasive sleeves for metal. ZALOB. 8 oz. (Package contains 6 sleeves.)

No. W6-2C Six COARSE GARNET abrasive sleeves. ZALIZ. 6 oz. (Package contains 6 sleeves.)

No. W6-2F Six FINE GARNET abrasive sleeves. ZAKZO. 4 oz. (Package contains 6 sleeves.)

No. W6-2M Six MEDIUM GARNET abrasive sleeves. ZALBO. 4 oz. (Package contains 6 sleeves.)
Atlas HEAVY DUTY GRINDERS

Rugged, powerful, fast and smooth-running — these Atlas grinders meet every need of the modern shop. They are built around a 3450 RPM cool-running ball bearing motor with precision balanced rotor. Shaft turns on over-sized ball bearings, sealed against wheel dust. Motors are completely enclosed. Two wheels are furnished — one for roughing, the other for finishing. All grinders are equipped with adjustable work rests and adjustable safety wheel guards.

Atlas grinders can be equipped with floor pedestal and eyeshields. The No. 2915 drill grinding attachment (below) converts the Atlas grinder into an accurate, efficient drill grinding machine.

1/3 AND 1/2 HP — 3450 RPM

No. 2800 1/3 HP BENCH GRINDER — 6" wheels (3/4" thick), 1/2" shaft. Overall: 173/4" x 10" x 103/4"
high. MOTOR: Split phase, 115 volt, 50-60 cycle, 3450 RPM. Ball bearings, built-in switch, cord and plug. YIFIK. 72 lbs.

No. 2770 1/2 HP BENCH GRINDER — 7" wheels (1" thick), 3/8" shaft. Overall: 203/4" x 111/2" x 53/4"
high. MOTOR: Single phase full capacitor, 115 volt, 50-60 cycle, 3450 RPM. Ball bearings, built-in switch, cord and plug. YIFKO. 100 lbs.

Also available — 1/2 HP, 3-Phase, 220 Volt Bench Grinder — Price on Application.

1/4 HP — 3450 RPM

No. 2773 1/4" HP BENCH GRINDER — 6" wheels (3/8" thick), 1/2" shaft. Overall: 13/4" x 8" x 91/2"
high. MOTOR: Split phase, 115 volt, 50-60 cycle, 3450 RPM. Ball bearings, built-in switch, cord and plug. YIFOK. 40 lbs.

SAFETY EYE SHIELDS

No. W37-58 SAFETY EYE SHIELDS for 1/4, 1/3 and 1/2 HP grinders. Special shatterproof glass protects operator’s vision as required by industrial and vocational safety codes. Mounted on wheel guards. (Give year purchased.) WYMIP. 5 lbs. per pair.

DRILL GRINDING ATTACHMENT

Fast, clean, accurate drilling is an easy job when the drill point has been sharpened on the Atlas drill grinder. It takes just two minutes to sharpen, any drill between 3/32" and 3/4" in diameter, and BOTH LIPS ARE ALWAYS GROUNDED IDENTICALLY, ensuring maximum accuracy and prolonging drill life. Novel chuck and V-block center the drill—shank stop, micrometer graduated feed, and special lip stop assure accurate rechecking for grinding second lip. Radial movement of chuck provides scientific lip clearance. Swivel base allows wide range; 40° to 80° (60° to 160° included angle) — 39° and 41° positions are indicated.

No. 2915 DRILL GRINDING ATTACHMENT for any grinder and wheel thickness. WUVNE. 7 lbs.

No. W30-35A DIAMOND POINT for dressing wheel. True face of dressing wheel for maximum accuracy. Held in chuck of drill grinding attachment. ZEBRK. 4 oz.

RECESS WHEELS

No. W30-40 RECESS WHEEL for drill grinding. Recessed one side. 6" diam., 1/5" hole. WUVSY. 2 lbs.

No. W30-41 RECESS WHEEL for drill grinding. Recessed one side. 7" diam., 3/8" hole. WUVUR. 2½ lbs.
Atlas motors are powerful, quiet, smooth-running—economical in operation—compact, dependable and efficient. Built to exacting Atlas standards, their sound design and rugged construction insure long service life at peak motor performance. Windings are fully insulated and protected for long-time operating efficiency. Frame is extra heavy for maximum protection. Oversize fan insures cool running. Statically and dynamically balanced plus deep-grooved ball bearings assure smooth, quiet operation and minimum vibration. Ball bearings enable motor to operate in any position—horizontal, vertical or inverted.

SINGLE PHASE CAPACITOR START
BALL BEARING MOTORS — ¼ TO 1 HP

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<tbody>
<tr>
<td>2720</td>
<td>YIDGE</td>
<td>½</td>
<td>115/230</td>
<td>60</td>
<td>1725</td>
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<tr>
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<td>YIDFA</td>
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<tr>
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<td>YIDJO</td>
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All motors listed above are 60 cycle, ball bearing, have single-end shaft with 3/16" x 3/32" keyway—not have switch, cord or plug. All operate satisfactorily on a 10% voltage variation.

No. 2710 10 ft. Extension Cord and Plug for ¼, ½ and ½ HP single phase motors. YIDEG. 1 lb.

No. 2712 10 ft. Extension Cord and Plug for ¾ HP single phase motors. YIECF. 2½ lbs.

THREE PHASE
BALL BEARING MOTORS — ⅓ TO 1 HP
For 3-Phase Current Only

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<td>5/8&quot;</td>
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<tr>
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<td>1425/1725</td>
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<td>2840</td>
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<td>1425/1725</td>
<td>5/8&quot;</td>
<td>48</td>
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<td>50/60</td>
<td>2850/3450</td>
<td>5/8&quot;</td>
<td>48</td>
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All motors listed above are 50/60 cycle, ball bearing, have single-end shaft with 3/16" x 3/32" keyway—not have switch, cord or plug. All operate satisfactorily on a 10% voltage variation.

No. 57-300 THREE PHASE SWITCH for all machine tools other than drill presses. A thermal overload 3-pole manual starter switch required for 3-phase circuits. Switch cord and bracket for mounting on bench or stand are furnished. ZEBAR. 8 lbs.

No. W67 THREE PHASE SWITCH for single spindle drill presses. Furnished with switch cord and mounting bracket. ZECET. 6 lbs.

No. W86 THREE PHASE SWITCH for multiple spindle drill presses. Furnished with switch cord and mounting bracket. ZERKID. 6 lbs.
Important to many tool buyers is the long record of successful manufacturing experience that is behind every Atlas tool. It guarantees many things. It is proof that machinery users, through the years, have been well satisfied with Atlas tools and have bought again and again. It means that Atlas—who pioneered in the development of low-priced precision machine tools—has maintained its leadership through continuous engineering and manufacturing improvements.

It is definite assurance that the Atlas products you buy today are the result of using every known method to produce high-quality full-value tools at reasonable cost. These trade-marks on the tools you buy are your guarantee of long, dependable service.