

Atlas

SHOP EQUIPMENT



GENERAL
CATALOG
No. 28

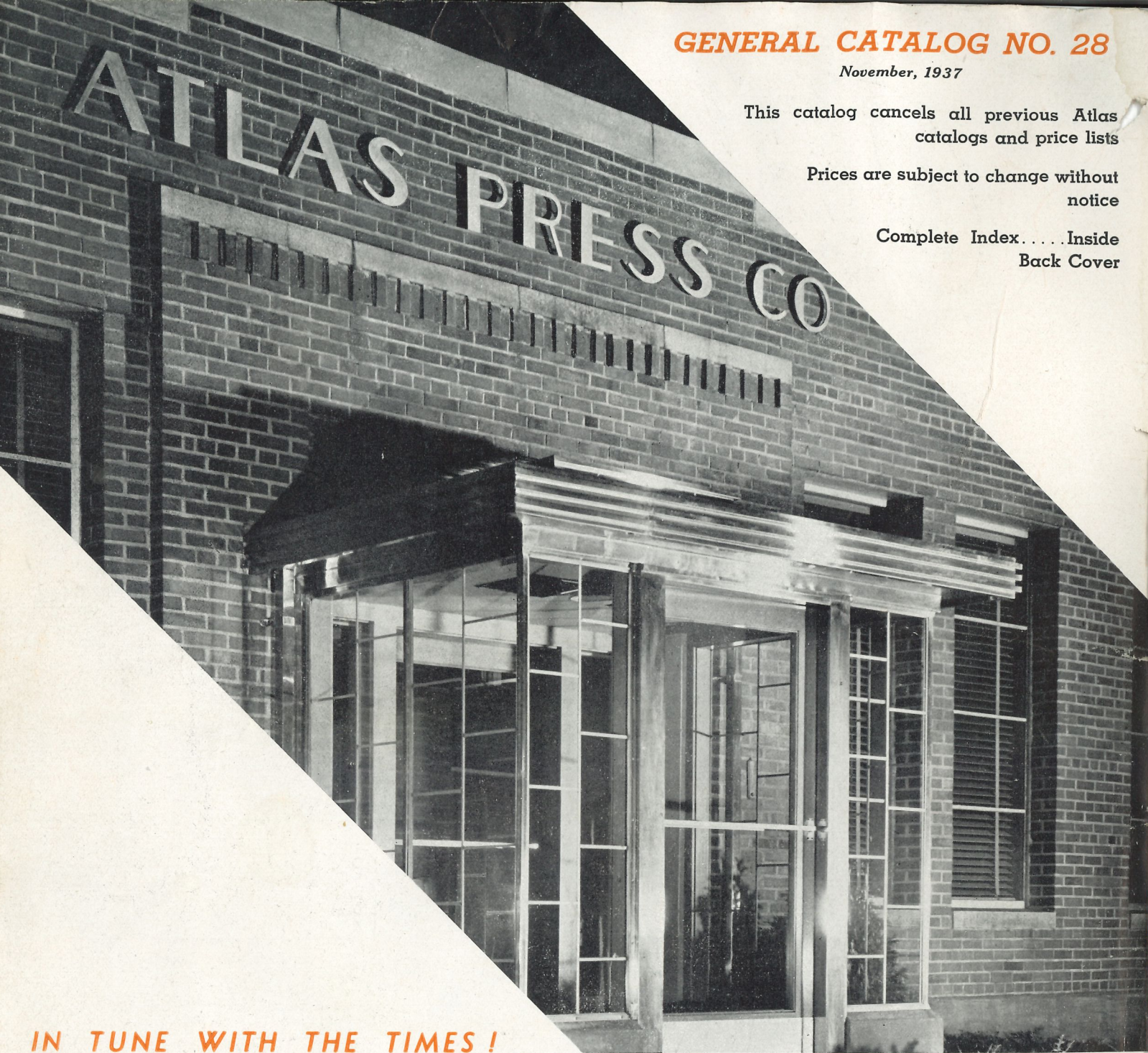
LATHES * DRILL PRESSES * ARBOR PRESSES * SHAPERS

This catalog cancels all previous Atlas catalogs and price lists

Prices are subject to change without notice

Complete Index . . . Inside Back Cover

ATLAS PRESS CO



IN TUNE WITH THE TIMES!

TODAY'S automobiles, airplanes, and railroads show how modern design and new metal alloys increase operating efficiency, increase strength and durability, and lower production costs. Changes equally important were introduced several years ago by Atlas, who pioneered the modern engineering technique in the manufacture of precision metal-working equipment.

Atlas grew up with the automotive industry and supplied it with servicing equipment for over a quarter

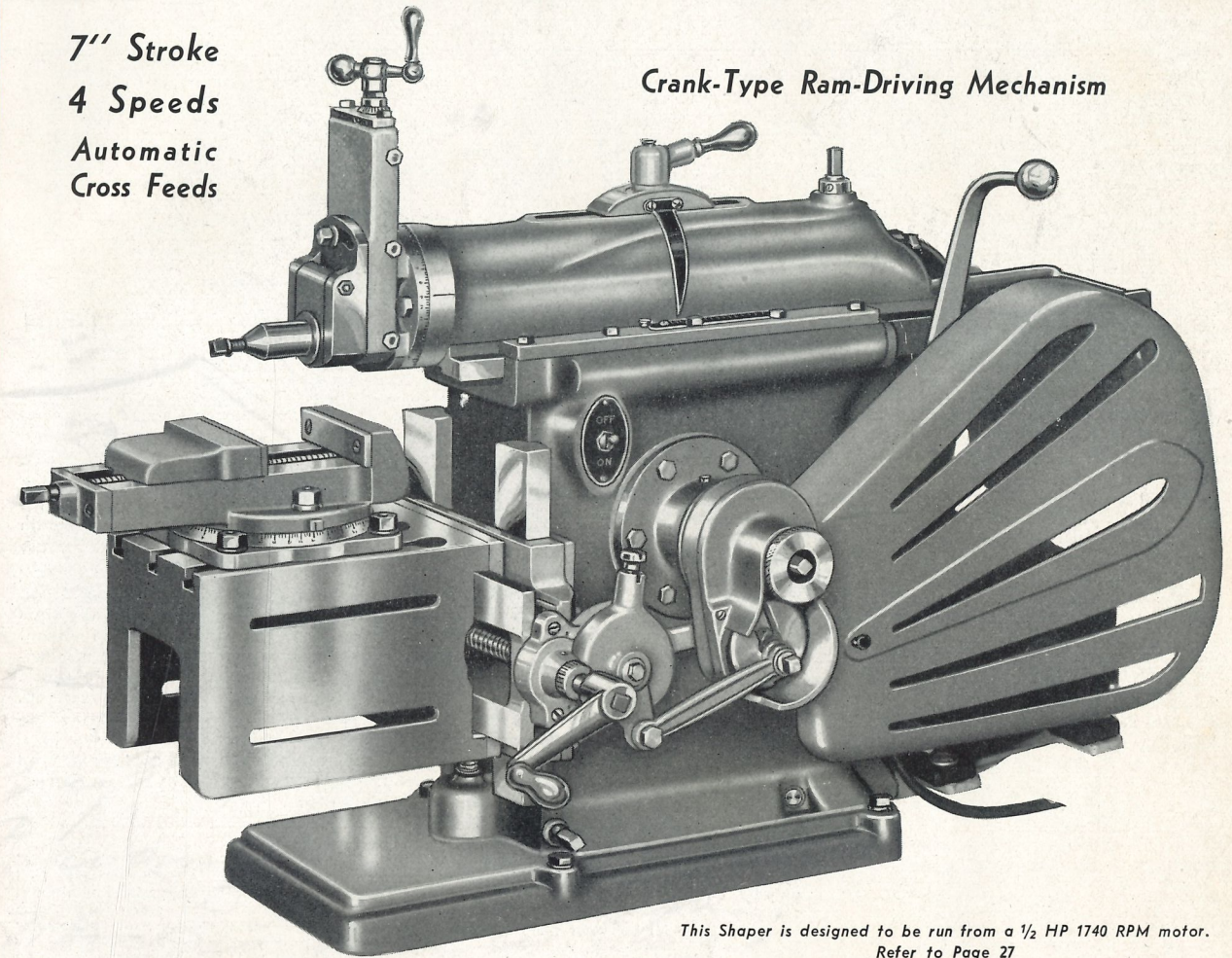
century. It was only natural for us to adapt automotive line-production precision methods to the manufacture of modern shop equipment. As you look over the shaper, lathes, drill presses, arbor presses, tools and attachments shown in this catalog, you will be impressed not only by their up-to-the-minute design, but by the extra measure of value built into each tool. Whatever Atlas Equipment you select, you can buy it with the assurance that in power, precision, versatility, durable strength, and performance on the job, it will satisfy your most enthusiastic expectations.

You'll Find Many Ways to Put the New Atlas Shaper at Work in Your Shop—It Is Rugged, Accurate, and Powerful

THE NEW Atlas SHAPER

7" Stroke
4 Speeds
Automatic Cross Feeds

Crank-Type Ram-Driving Mechanism



This Shaper is designed to be run from a 1/2 HP 1740 RPM motor. Refer to Page 27

SPECIFICATIONS

Length Stroke 1/2" to 7"
Strokes per Minute 45 to 200
Cutting Speeds, Ft. per minute 3 1/2 to 116
Horizontal Table Travel 8 1/2"
Vertical Table Travel 4 1/2"
Maximum Distance Table to Ram 5 1/8"
Minimum Distance Table to Ram 5/8"
Length Overall 34"
Width Overall 19"
Bench Space 18" x 32 1/2"
Height Overall from Bench Base 25"
Floor Space with Stand 18" x 32 1/2"
Height Overall with Stand 59"

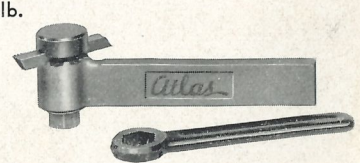
RAM { Length 17"
Bearing in Column, length 24"
Bearing in Column, width 3 3/4"
Position Range 3-15/16"
Diameter 4"
TOOL HEAD { Length Feed 3"
Graduated 0 to 50° right and left—Collar graduated in .000ths—Swivel Clapper.
UNIT DRIVE { "V" Belt 1/2" wide
Gear Ratio 5/3 to 1—1" Face Pinion Shaft and Countershaft Pulleys 4-step Switch Built in Column 15 amp. at 110 volts
CROSS FEED { Reversible—Power and Hand
5 Feeds Available005, .010, .015, .020, .025 inches per stroke
Crank Slot Adjustment for Setting Feeds.
CROSS RAIL { Bearing on Table, length 12"
Bearing on Table, width 4 1/2"
Bearing on Column, length 12"
Bearing on Column, width 6"

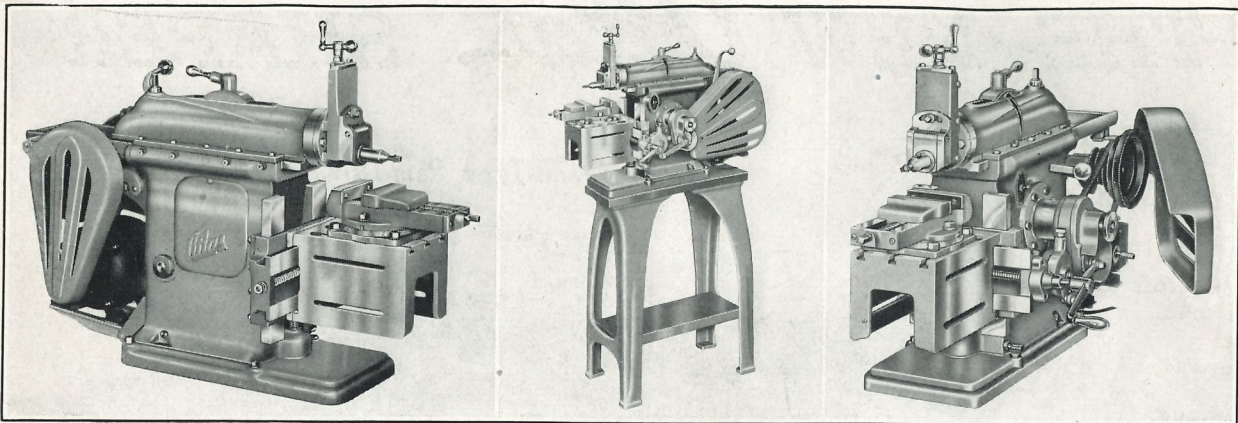
TABLE { Overall Length 8 3/4"
Finished Surface, length 6 3/4"
Width 6"
Depth 6"
3 T-slots on top 3/8"
2 Clamping Slots on each side.
VICE { Jaw Width 4"
Open 4"
Screw Diameter 1/2"
Swivel Base Graduated 0 to 90° Right and Left.
4 Bolts to table T-slots; Key in Center.

THE NEW ATLAS SHAPER

No.	Code Word	Price
7	Atlas Shaper complete with Guards WYWOB	\$215.00
	less motor and stand, shipping weight 310 lb., net weight 250 lb.	
7A	Atlas Shaper less Guards WYWIZ	198.00
	less motor and stand, shipping weight 305 lb., net weight 245 lb.	
S7-442A	Atlas Shaper Stand WYWUC	17.75
	floor legs and table boards, shipping weight 135 lb.	
S7-139	Shaper Tool Holder WYVZO	3.50
	weight 1 1/2 lb.	

TOOL HOLDER
Extremely rigid with extra large clamp screw. Can be swivelled to any one of 8 positions. Includes wrench and high-speed cutter.





CONSTRUCTION FEATURES — THE NEW ATLAS SHAPER

The new Atlas Shaper incorporates the fundamental requirements of modern shaper design and construction—rigidity, accuracy, and power—and includes many features which insure working efficiency and ease of operation. Bearing surfaces are unusually large and full provision is made for thorough lubrication and complete adjustment. These fine bearings assure efficient, accurate performance, and long service life.

RIGIDITY—Heavy semi-steel iron castings are used for column, base, ram, tool head, cross rail, table and vise. Each has adequate bracing, proper weight distribution, and extremely large bearing surfaces, providing the rigidity and strength essential for smooth performance and long service life.

ACCURACY—The accuracy of the Atlas Shaper is the result of modern Atlas methods of machining, assembling, and testing. The ram bearings on the column guides, the cross rail ways, and table bearings are all face-milled and hand-fitted. The unusually large dimensions of these bearings plus provision for thorough lubrication serves to minimize wear. To maintain accuracy and rigidity these bearings are equipped with adjustable gibs,

and have shims with .002" laminations. Careful inspection in every stage of assembly and thorough working tests of the completed shaper assure accuracy in the full range of shaper work.

POWER—The Atlas crank-type ram-driving mechanism, powered by V-belts completely from motor to bull-gear pinion shaft and provided with carefully selected heavy-duty bearings for all shafts, transmits maximum power to the ram with a smooth even action at all speeds. This modern design permits the use of a 1/2 HP motor with its resultant savings in operating costs.

EASE OF OPERATION—The adjustable countershaft, attached directly to the column, is within easy reach. The combination belt tension lever and brake stops or positions the ram without stopping the motor. The Atlas stroke-length adjusting mechanism is operated easily with hand crank and set with grip-lock. Stroke-positioning control is conveniently located on ram top. Direction of automatic cross feed is shifted by lift-and-turn pawl. Crank handle furnished operates all controls: vise jaws, table elevation (with extension furnished), hand cross feed, feed adjustment, stroke-length adjustment, and stroke positioning. All controls are within easy reach.

COLUMN—Massive box-type column heavily ribbed and braced. Cross rail ways and guides for ram ways are cast integral with column. Fully enclosed ram-driving mechanism easily accessible through panel. Bearing bosses for bull-gear pinion and crank-lever link shafts are bored and line-reamed. Heavy base is ribbed and reinforced.

COUNTERSHAFT—Adjustable V-belt countershaft and motor base attached directly to column, making the entire shaper a single compact unit. Countershaft spindle turns on roller bearings. Extra V-drum on countershaft pulley and brake shoe at end of adjusting lever converts this lever into a combination belt tension lever and brake.

V-BELT DRIVE—Complete V-belt drive from motor to pinion shaft. 4-step countershaft and pinion-shaft pulleys provide 4 speeds between 45 and 200 strokes per minute.

RAM-DRIVING MECHANISM—Leverage design assures maximum power. Massive bull-gear is semi-steel iron with 10 pitch teeth and 1" face. Crank arm is special nickel-chrome alloy steel, milled and parallel-ground on outer surfaces and milled and lapped on inner "slide." Upper crank pin runs on "Oilite" bushings—wick oiler in ram clamp screw handle. Block is wear-resisting "Super-Oilite."

Bull-gear is supported by a "Hy-Load" heavy-duty roller bearing housed in the cast iron flange adjacent to bull gear. This fine bearing takes an extremely heavy radial load

and should last indefinitely—oiler at top of flange permits thorough lubrication. Deep-grooved ball bearing at outer end of bull-gear sleeve absorbs all end thrust.

Large housing for bull-gear spindle is bored, counterbored, line-reamed, and faced—6 cap screws hold it securely to the column. Both ends of bull-gear pinion shaft run on roller bearings in hardened and ground steel sleeves lubricated through enclosed oil cups. Crank lever link shaft bearing and crank-lever link pin bearings are Oilite-bushed.

STROKE-LENGTH ADJUSTMENT—Hand crank controls the Tobin Bronze 45° spiral or helical gears which operate stroke-adjusting screw (Acme thread). Tobin bronze nut on this screw adjusts position of crank throw-block.

RAM—Massive, streamlined ram is unusually heavy. Ram ways are wide, thick, and heavy, bearing on the top, side, and bottom of guides. They are accurately machined, face-milled and hand-fitted. Ram ways have oil grooves through their entire length which form a reservoir to assure thorough lubrication. Oil pan is provided. Length of stroke is shown by an indicator on a graduated index plate. Stroke-positioning control on top of ram operates screw through two mitre gears—has thrust take-up collar. Lock handle and clamp secures ram to crank lever yoke.

TOOL POST SWIVEL—Locked rigidly to ram head. Locking mechanism consists of steel anchor and disc, pivoted on an oversized steel

stud clamped to tool post swivel. Base of swivel is graduated 0° to 50° both ways. Tool post slide has dovetail ways with full gib adjustment. Vertical feed screw has Acme threads, ball crank control and micrometer collar with take-up. Clapper head can be swivelled both ways for tool clearance.

CROSS RAIL—Large cross rail way guides bearing on column, and ways bearing on table are accurately machined, face-milled, and hand-fitted. Gibs and laminated shims provide full take-up adjustment for both bearings.

TABLE AND VISE—Table is supported rigidly by large square ways on cross rail. Has 3 T-slots in top and 2 slots in each side for bolting work. Table sides are accurately machined and face-milled. Elevating screw, operated by crank control, has Acme thread. Tobin Bronze helical gears and nut. Top of table is given its final finish cut by the shaper itself.

Base of vise is machined for accurate alignment with ram ways. It can be swivelled and locked at any angle and is graduated 0° to 90° both ways. Vise jaws have steel insert plates. Vise screw has Acme threads, Tobin Bronze nut, and take-up adjustment.

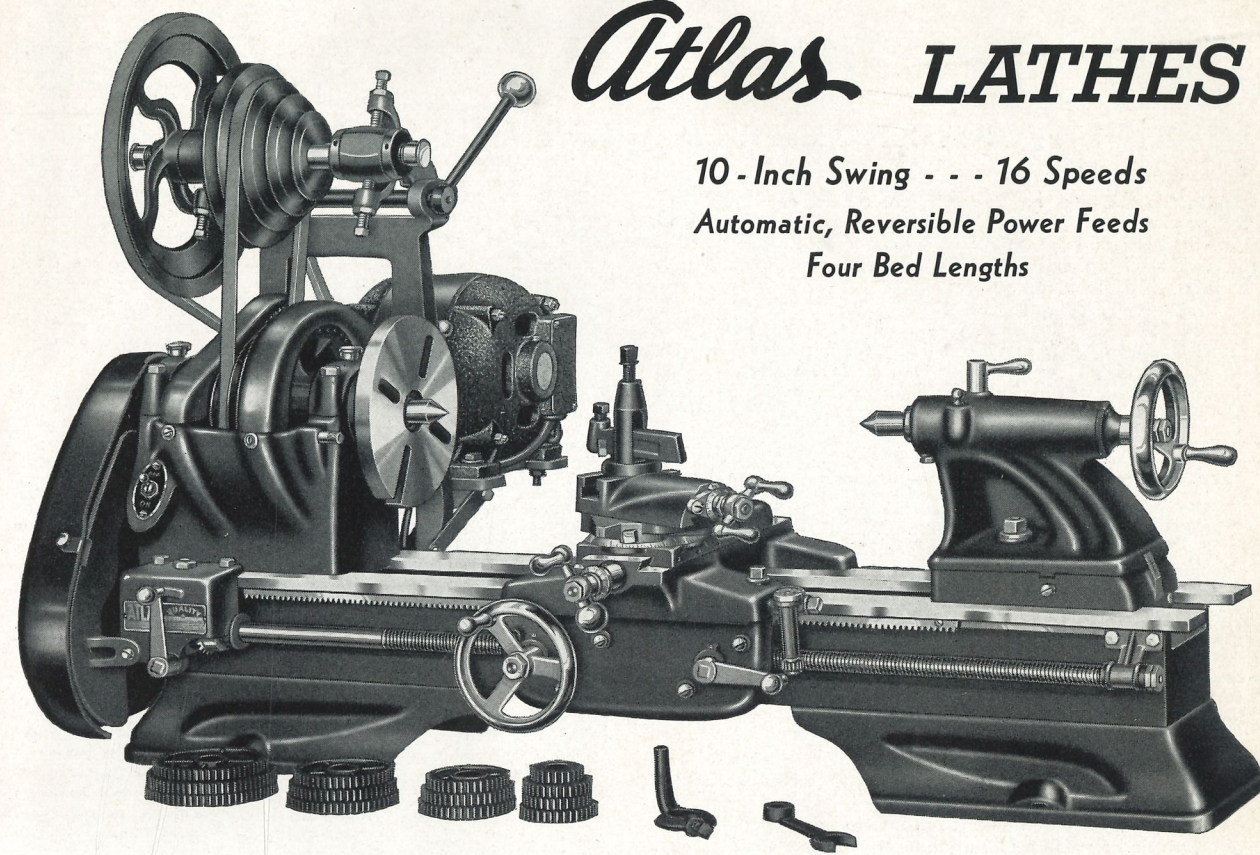
AUTOMATIC CROSS FEED—Engaged by a lift-and-turn pawl. Five feeds are available in either direction: .005, .010, .015, .020, and .025 inches per stroke. Mechanism includes feed gear on bull-gear spindle, slotted gear for adjusting feed per stroke, and ratchet gear connected through two pitman rods to cross slide feed gear.

Here Is the Accuracy, Power, Rigid Strength, and Versatility of Larger Machines Scaled Down for Greater Efficiency on Small Work

Modern Design, Modern Construction to Meet Every Need of Today's Shop

Atlas LATHES

10-Inch Swing - - 16 Speeds
Automatic, Reversible Power Feeds
Four Bed Lengths



Everything you want in a metal lathe is in the modern Atlas — accuracy for the finest work, rugged construction, and many extra features to add versatility and power. These unusual values are the result of Atlas modern efficient production methods, special-built machinery, rigid inspection and testing. Notice

these modern construction features: Built-in adjustable countershaft, precision-ground bed, special custom-bored high-speed babbitt spindle bearings, complete V-belt drive. Automatic reversible power feeds, threading dial, gears, and chart, 10-inch swing, 16 speeds. Complete description, page 6.

SPECIFICATIONS

Swing over Bed 10 1/4"
Swing over Carriage 6 3/8"
Number of Spindle Speeds 16
Speed Range 28, 45, 70, 83, 112, 134, 164, 211, 266, 345;
418, 500, 685, 805, 1270 and 2072 RPM
Thread Cutting Range 4 to 96 Right or Left Hand
Feeds per Spindle Revolution0087", .006", .0043" or .0033"
Lead Screw 8 Acme Threads per inch
Headstock Spindle... 1 1/2" diameter, 8 pitch National Form
threads, 25/32" hole through entire length,
nose bored for No. 3 Morse Taper with
reducing sleeve to take No. 2 Morse Taper.
Spindle Bearings... High-speed Babbitt with full-split cap and
laminated shims with five .002" laminations
on each side. Spindle has thrust take-up
nut and collar—ball bearing for end thrust.
Countershaft Spindle... Hyatt Roller Bearings
Hole through Motor Pulley... 1/2" diameter
Back Gears... 12 Pitch, 7/8" Width
Backgear Shaft Bearings... Oilless Bronze
Cross Feed Travel... 6 3/8"
Cross Feed Screw... 1/2" Diameter, Acme Threads
Tool Post Slide Travel... 2 1/4"
Tool Post... 3/8" x 7/8" slot to take 3/8" Tool Bits
or Tool Holder for 1/4" Tool Bits
Tool Post Swivel... Graduated 0 to 90° right and left
Tailstock Ram Travel... 2 3/4"
Tailstock Ram Graduated... 0 to 3" by 1/16ths
Tailstock Set-Over... 3/4"
Tailstock Ram... No. 2 Morse Taper
Automatic, Reversible Power Feeds, Integral Countershaft,
V-Belt Drive, 60-Hole Indexing Mechanism, Chrome Plated
Control Handles. Finish, Special Atlas Gray.

ATLAS BACK-GEARED SCREW-CUTTING LATHES

Order No.	Length of Bed	Between Centers	Overall Length	Weight less motor	Code Word	Price less motor
1036	36"	18"	40"	242 lbs.	YAACS	\$ 98.50
1042	42"	24"	46"	254 lbs.	YAADT	105.50
1048	48"	30"	52"	262 lbs.	YAAHY	113.50
1054	54"	36"	58"	267 lbs.	YAALC	122.50

All Models: Overall Depth—21", Overall Height—24".

Atlas Back-Geared Lathes are available with Timken Tapered Roller Bearings for the headstock spindle. See page 9.

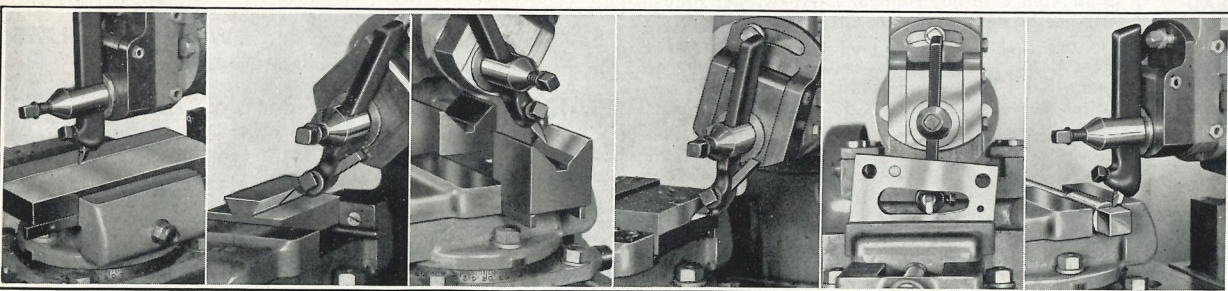


REGULAR EQUIPMENT FURNISHED

Graduated Compound Rest; Tool Post, Ring and Rocker; L. H. Tool Holder, Tool Bit; Complete Set of Change Gears to cut 4 to 96 threads; Threading Chart, Threading Dial; Ready-mounted Countershaft; All Belts and Pulleys; Motor pulley furnished is for 1/2" diameter motor shaft—prices for other size motor shafts on request; 10 Amp. Switch; Switch Cord; Motor Mounting Bracket; 6" Face Plate; Two 60° Lathe Centers; Reducing Sleeve for Headstock Center; Combination Tool Post and Compound Wrench; 1" Lathe Dog; Instruction Book—Atlas "Manual of Lathe Operation," page 12.

Designed to be run from a 1740 RPM motor, either 1/3 or 1/2 H. P.—see page 27.

HANDLES THE FULL RANGE OF SHAPING OPERATIONS



CONSTRUCTION FEATURES

ATLAS BACK-GEARED SCREW-CUTTING LATHES

Headstock — Heavy cast iron, ribbed and reinforced for permanent rigidity and strength. Accurately machined base fits between bed ways and is anchored securely in position by a steel clamp and large cap screws. An on-off switch is built into headstock casting.

Headstock Spindle — A heavy-duty spindle machined from solid bar of special fine-grained steel—accurately machined and polished to provide a perfect surface for the bearings. Ball bearing absorbs end thrust, assuring almost frictionless rotation and maximum power.

Headstock Bearings — High-speed babbitt of 2-piece split cap type similar to those used in large industrial machine tools and automobile motors. Bearings of each lathe are accurately bored by a special machine mounted on each lathe bed after headstock has been fitted, assuring positive alignment of the spindle with bed ways.

Laminated shims on each side of bearings provide means for quick and simple take-up if ever necessary. Front bearing is 1 5/8" long, rear bearing 1 3/8" long. Large caps assure cool bearings—large-capacity wick oil cups connect to oil grooves in bearing, permitting thorough lubrication. Materials used and custom-built bearing construction result in smooth, accurate operation and many years of service.

Countershaft Assembly — The countershaft assembly including a motor bracket is attached to headstock, making the entire lathe a self-contained compact unit. The whole assembly is within easy reach for changing speeds. Countershaft spindle runs on roller bearings. Two large grease cups permit thorough lubrication. Belt-tension lever has three steps—adjustments are provided to compensate for belt stretch.

Complete V-Belt Drive — V-Belt Drive from motor to countershaft to spindle increases power and reduces belt slippage to an absolute minimum. V-belt drive is standard equipment. V-belts, V-pulleys and the adjustable countershaft result in smooth operation and low operating cost.

Power — The heavy, oversized back gears insure an even flow of power for every type of work. Back gears are quickly engaged by eccentric lever and removal of lock-pin from spindle pulley. Each gear is enclosed by an iron guard. Back-gear shaft runs on oilless bronze bearings.

Indexing Mechanism — There are 60 indexing holes on the face of the front spindle gear, engaged by a pin through the headstock. This arrangement provides a convenient indexing mechanism for fluting, dividing, and many other important operations.

Lathe Bed — Close-grained semi-steel iron of the best quality is used in the construction of the Atlas lathe bed. The entire bed comprising cross ribs, ways and base is made in one casting. Heavy inverted U-shape cross ribs, spaced every four inches, counteract all transverse spindle forces. The heavy ways on top and inner bead at the bottom resist longitudinal stresses. The heavy streamlined legs with cross-braces have a total bearing surface of 48" on bed—this provides a sturdy base for the entire lathe and keeps vibration at a minimum.

Atlas Lathe Beds are accurately machined by the most modern precision equipment. They are first rough-milled on a giant machine especially built for that purpose. After being naturally seasoned for months, the beds are milled again to within 1/64" of final size. Then another special machine grinds, trues and polishes the ways to within .001" of perfect.

Carriage — The heavy carriage casting has large bearing surfaces on the bed ways, providing a broad base and rigid mounting for the compound rest assembly. The accurately machined base has 6 bearing surfaces, each 8 1/2" long—two on top of the bed ways, two on the bottom surfaces, and two on the outside edges. The bottom bearing plates have five .002" laminated shims, and the side bearing on the rear way is gibbed for adjustment. These unusually large bearings assure smooth carriage action and minimize wear. The provision for take-up maintains accurate alignment of the carriage with the headstock and tailstock.

Dovetail ways of the cross-slide are gibbed for take-up—cross feed screw has Acme threads, micrometer graduated collar and convenient ball crank control handle with take-up adjustment. Cast iron guard keeps cross feed screw free from shavings. Lever engages split nut with lead screw for automatic power feeds. Threading dial on carriage meshes with lead screw and insures return of tool to the same starting position for each cut, eliminating the possibility of splitting threads.

Compound Rest — The heavy new-design compound rest has 5 1/2" bearing surface on the carriage cross-slide, providing a rigid support for the tool post. The base casting is machine graduated through 180° and can be swivelled and locked quickly and securely at any angle for taper turning and boring. Two clamp screws control plunger pins of dovetail swivel lock. Milled T-slot holds drop-forged tool post assembly. Cross feed screw has Acme threads with convenient ball crank control and micrometer graduated collar with take-up adjustment.

Tailstock — Heavy streamlined tailstock with a long base provides a sturdy, rigid support for all types of work. The base is machined to fit between the bed ways, maintaining accurate alignment of the tail spindle with the head spindle at any position on the lathe bed—can be set over 3/4" for taper turning. The side tailstock bearing on the rear bed way is gibbed for take-up adjustment—simple tailstock set-over compensates for this adjustment and assures permanent alignment with headstock. Ram has 5" bearing surface on barrel, coordinate position lock, keyway guide, self-ejecting center and handwheel feed control. Handy well and pin is provided for center lubricant.

Automatic, Reversible Power Feeds — Half-nuts are engaged with lead screw for longitudinal power feeds by a convenient lever on the carriage apron. Lead screw is accurately made for a high degree of accuracy in thread cutting. Direction of feed can be changed instantly by lever on gear box. This feature speeds up all turning operations and simplifies the cutting of right or left hand threads.

Change Gears — All threads, either right or left hand, from 4 to 96 per inch in the following standards can be cut with the change gears furnished as standard equipment: all National Form threads including National Coarse (U.S.S.), National Fine (S.A.E.), Acme, Square and Whitworth. Change gears are fully enclosed by self-locking cast iron gear guard. "Easy-to-Read" gear-train chart is mounted on inside of gear guard. Hundreds of additional feeds are available for thread cutting, coil winding and special work—complete instructions for set-ups are described and illustrated in the Atlas "Manual of Lathe Operation," (page 12). A special attachment to cut all standard metric threads from .5 to 7 mm. is available at \$2.50—No. 9-735, Code YACWO. Special bushing and two studs for extra fine carriage feeds—No. 790, \$2.50, Code YAPIJ.

Zamak Alloy Parts — Pulleys, gears, handwheels, handles and other small parts are made of a metal alloy, Zamak. This alloy has a tensile strength of 47,300 pounds per square inch, which is over three times that of cast iron. Its impact strength is five times that of cast iron. Exhaustive laboratory research and the practical experience of Atlas Lathe owners has proved the superior wearing qualities of Zamak.

Each Zamak part is made in an extremely accurate master die, resulting in castings of uniform accuracy. The use of Zamak alloy parts permits a compact modern design, eliminates idle weight and provides greater strength and longer lathe life.

Guaranteed Accuracy — The highest standards of accuracy extend to every operation in the machining of a part for an Atlas Lathe. Each part meets minimum tolerance limits checked by precision instruments and master gauges. Further tests are made in every stage of assembly. After assembly every Atlas Lathe must pass rigid accuracy tests, and the alignment of spindle, tailstock, carriage and bed ways in both horizontal and vertical planes must be to within .001". Before shipment the finished lathe must pass innumerable working tests for accuracy on all lathe operations.

Read This Description Carefully to Get the Complete Picture of Atlas Value — A Sturdy, Powerful, Accurate Machine!

The Unit Plan — A Convenient "Step-By-Step" Method to Purchase a Complete Atlas Back-Geared Lathe

NEW Atlas UNIT PLAN OF PURCHASE

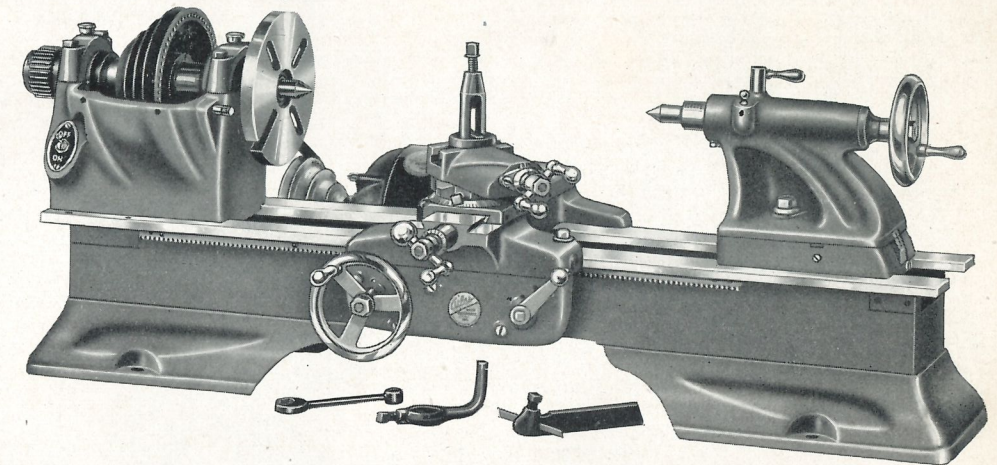
The Atlas Unit Plan provides a convenient "step-by-step" method of purchasing the complete Atlas Back-Geared Screw-Cutting Lathe, pages 5 and 6. The E Model Lathes perform many important opera-

tions and are drilled and tapped for the addition of Unit Assemblies as desired to handle all types of lathe work. Unit Assemblies are listed and described below.

10E LATHES

Have exactly the same carriage, compound rest, headstock, spindle, spindle bearings, bed, tailstock, tool post, and legs as the Atlas back-geared models (page 6). To make the 10E complete, add all Unit Assemblies except carriage and rack and compound rest.

10E Lathes are available with Timken Bearings for headstock spindle—see page 9.



SPECIFICATIONS

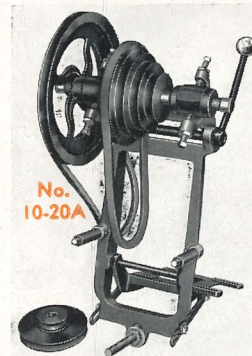
Swing over Bed	10 1/4"
Swing over Carriage	6 5/8"
4 Speeds between	575 and 2875 RPM
Cross Feed Travel	6 5/8"
Cross Feed Screw	1/2" Diameter, Acme Threads
Tool Post Slide Travel	2 1/4"
Tool Post	3/8" x 7/8" slot to take 3/8" Tool Bits or Tool Holder for 1/4" Tool Bits
Tool Post Swivel	Graduated 0° to 180°
Tailstock Ram Travel	2 3/4" Tailstock Set-Over
Tailstock Ram Graduated	.0 to 3" by 1/16ths
Tailstock Ram	No. 2 Morse Taper
Spindle and Spindle Bearings	Same as Back-Geared Lathes, page 5

REGULAR EQUIPMENT FURNISHED

Graduated Compound Rest; Tool Post, Ring and Rocker; L. H. Tool Holder, Tool Bit; All Belts and Pulleys; Motor pulley furnished is for 1/2" diameter motor shaft—prices for other size motor shafts on request; 10 Amp. Switch and Cord; 6" Face Plate; Two 60° Lathe Centers; Reducing Sleeve for Headstock Center; 60-Hole Indexing Mechanism; Combination Tool Post and Compound Wrench; 1" Lathe Dog; Instruction Book—"Atlas Manual of Lathe Operation."

UNIT ASSEMBLIES

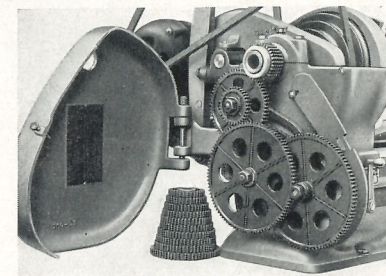
Each Unit Assembly must pass the same working tests as the complete back-geared lathe for accuracy and alignment (page 6). Each assembly is fully described on page 6.



No. 10-20A

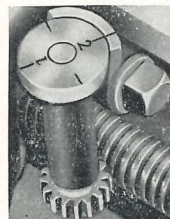
COUNTERSHAFT

No. 10-20A, Code YAATL, \$16.20
Includes pulleys, belts, motor bracket, tension lever, etc.

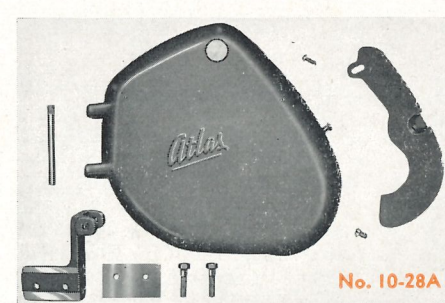


THREADING GEARS AND CHART

No. 10-685, Code YABSE, \$8.30
For cutting 4 to 96 threads per inch.



Threading Dial
No. 9-62A, \$2.00
Code Word YABVO
Assures accurate thread cutting.

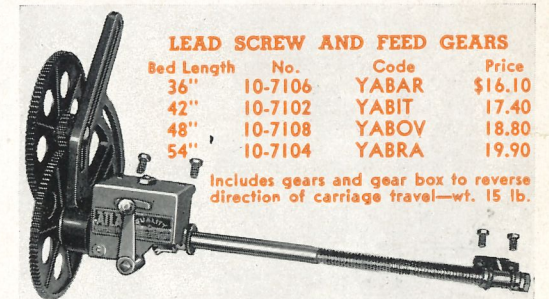


No. 10-28A

ATLAS 10E UNIT PLAN LATHES

Order No.	Length of Bed	Between Centers	Overall Length	Weight less motor	Code Word	Price less motor
1036E	36"	18"	40"	185 lbs.	YAAMD	\$59.50
1042E	42"	24"	46"	197 lbs.	YAANF	66.50
1048E	48"	30"	52"	205 lbs.	YAARJ	74.50
1054E	54"	36"	58"	210 lbs.	YAASK	83.50

10-675 Jackshaft to add 4 speeds between 272 and 2875 RPM.....YACUX 7.75
10E Model Lathes with Countershaft, extra.....\$16.20
All Models: Overall Depth—8" less motor, Overall Height—14"



LEAD SCREW AND FEED GEARS

Bed Length	No.	Code	Price
36"	10-7106	YABAR	\$16.10
42"	10-7102	YABIT	17.40
48"	10-7108	YABOV	18.80
54"	10-7104	YABRA	19.90

Includes gears and gear box to reverse direction of carriage travel—wt. 15 lb.

CARRIAGE AND RACK

For former A and B Unit-Plan Lathes. Same carriage and rack as furnished for back-geared and 10E models—includes lock and engaging lever.

For	Order No.	Code	Price
36" Models	10-6806	YACET	\$16.70
42" Models	10-6802	YACIV	17.00
48" Models	10-6808	YACSA	17.30
54" Models	10-6804	YACTE	17.60

COMPOUND REST

For former A and B Models.

Base casting machine-graduated 0 to 90° right and left—can be swivelled and locked at any angle. Includes tool post, ring, and rocker.

No. 10-300\$14.80
Code YACAS, wt. 8 lb.

Gear Guard (Left)

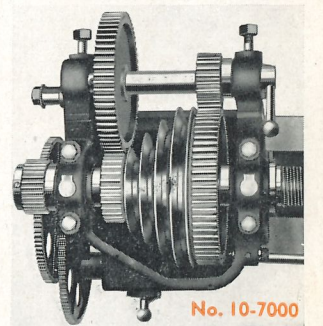
No. 10-28A\$5.55
Code Word.....YAAWN

Iron safety shield which fully incloses change gear train. Wt. 13 lb.

Back Gears (Right)

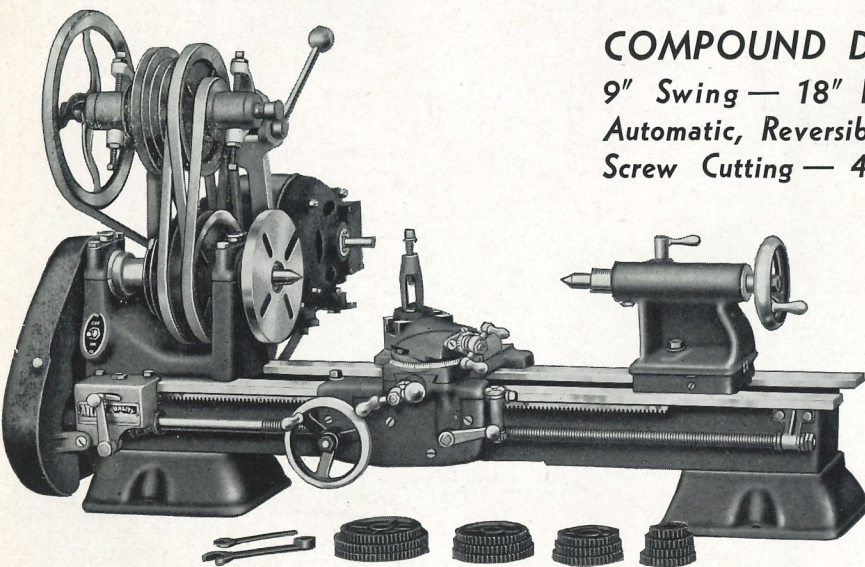
No. 10-7000\$14.40
Code Word.....YABYX

7/8" wide, 12 pitch. Adds to power and increases speed range. Includes iron guards. Wt. 14 lb.



No. 10-7000

Atlas 9-INCH LATHES



COMPOUND DRIVE LATHE
 9" Swing — 18" Between Centers
 Automatic, Reversible Power Feeds
 Screw Cutting — 4 to 96 Threads

Completely V-belt driven with patented compound power drive providing direct drive for light turning and compound drive for heavier work. Clutch shift collar in countershaft. Includes these features of back-geared models (page 6): spindle bearings, precision-ground bed, countershaft, power feeds, switch, tailstock gib, threading gears, dial, and chart, gear guard. Pulley set is available to increase maximum speed to 2760 RPM—No. 426, \$5.50, Code YEGUH.

SPECIFICATIONS

Swing over Bed 9 1/4"
 Swing over Carriage 5 7/8"
 Spindle Speeds 47, 80, 130, 220, 370 and 600 RPM
 Feeds per Spindle Revolution... .0087", .006", .0043" or .0033"
 Headstock Spindle—1 1/2" Diameter, 8-pitch National Form
 Threads, 25/32" hole through entire length, No. 3 Morse
 Taper Nose with reducing sleeve to take No. 2 Morse Taper.
 Cross-Feed Travel 5 1/4"
 Overall Dimensions 42" x 21" x 24" high

Automatic, Reversible Power Feeds, Integral Countershaft, V-Belt Drive, Chromium Plated Control Handles

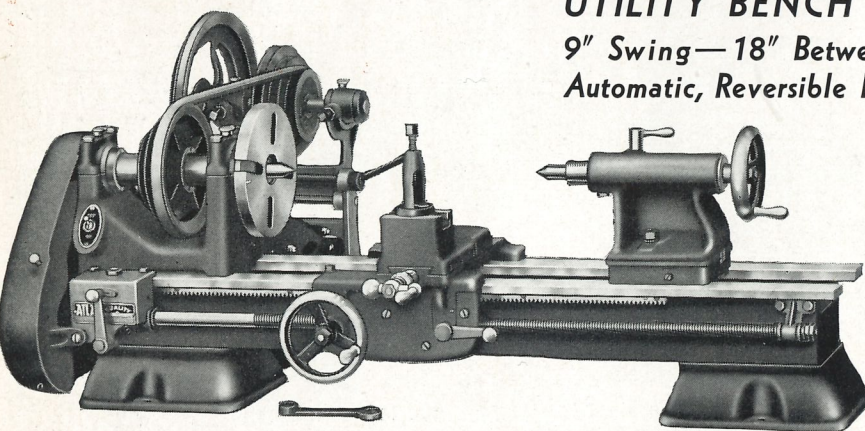
COMPOUND DRIVE LATHE

Order No.	Length of Bed	Between Centers	Weight less motor	Code Word	Price less motor
936	36"	18"	210 lb.	YAEPH	\$84.50

FURNISHED: Compound Rest, Tool Post, Threading Gears, Dial, and Chart, Countershaft, Belts and Pulleys, Switch, Face Plate, Centers, Reducing Sleeve for headstock center, Wrenches, "Manual of Lathe Operation."

UTILITY BENCH LATHES

9" Swing—18" Between Centers
 Automatic, Reversible Power Feed



Modern, efficient production methods make possible these exceptional values. Horizontal drive from motor to bench-type countershaft to spindle. Motor and countershaft are mounted on bench top. Belt tension lever releases both spindle and motor-drive belts. New heavy carriage has long cross feed, heavy tool rest, and drop forged tool post.

SPECIFICATIONS

Length of Bed 36"
 Capacity between Centers 18"
 Swing over Bed 9 1/4"
 Swing over Carriage 5 7/8"
 Spindle Speeds 202, 330, 530, 610, 1015, 1625 RPM
 Feed per Spindle Revolution0087"
 Cross Feed Travel 5 1/4"

Headstock, bearings, bed, power feed, carriage, tailstock and legs are same as No. 936 above.

UTILITY BENCH LATHES

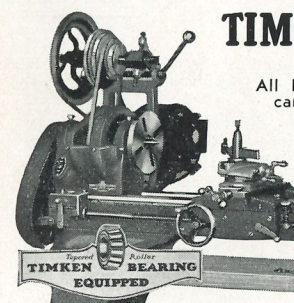
No.	Code Word	Price less motor
918	As Above, weight 195 lb.....YAELD	\$74.50
918A	As Above, plus threading gears, dial and chart .....YAEMF	78.50
918B	As No. 918A plus compound rest.....YAENG	81.50

Compound Rest permits use of Atlas Milling and Taper Attachments and Tool Post Grinder. All other Atlas Lathe Attachments may be used on the No. 918 without Compound Rest.

Atlas 9-Inch Lathes are Ideal for the Average Shop — Rigid, Accurate, Smooth in Operation

Use Atlas Attachments — You'll Do Better Work

ACCESSORIES FOR Atlas 9" AND 10" LATHES



TIMKEN TAPERED ROLLER BEARINGS

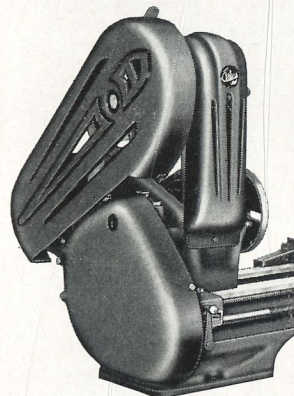
All 10-inch Atlas Lathes (pages 5 and 7) can be supplied with Timken Tapered Roller Bearings for the headstock spindle. These bearings are recommended whenever the lathe spindle speed must be exceptionally high for long intervals—ideal for continuous production work, wood turning, metal spinning, and normal-speed work. **ADDITIONAL COST.....\$15.00** Timken Bearings must be installed before lathe is shipped from factory. Atlas 9-inch Lathes are not available with Timken Bearings.

Atlas Timken-Equipped Back-Geared Lathes

Order No.	Between Centers	Weight less Motor	Code Word	Price less Motor
1036T	18"	242 lbs.	YACZY	\$113.50
1042T	24"	254 lbs.	YADAT	120.50
1048T	30"	262 lbs.	YADEV	128.50
1054T	36"	267 lbs.	YADDO	137.50

For Timken-Equipped Atlas 10E Lathes, see page 7.

SAFETY BELT GUARDS



Atlas Safety Belt Guards may be installed on any Atlas 9 or 10 Series Lathes with self-contained countershaft. The addition of these modern streamlined shields means that the entire transmission of any recent Atlas Lathe is completely enclosed.

Both guards are light, durable aluminum castings with pin-hinges for quick-raising and speed changes. It is not necessary to remove guards to change belts. The entire assembly is ready-tapped for easy installation.

PRICE PER SET.....\$14.25

Lathe	Order No.	Code Word
10-Series	10-720	YADUZ
No. 936	9-720	YADTA

Not available for 918 Lathes.

LATHE FLOOR STANDS

A permanently rigid and level lathe support — saves valuable floor space. Grey iron legs alone weigh 95 pounds — may be purchased separately.

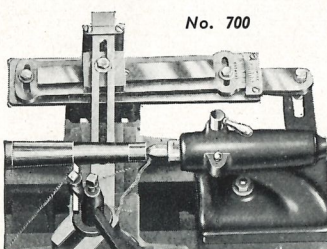
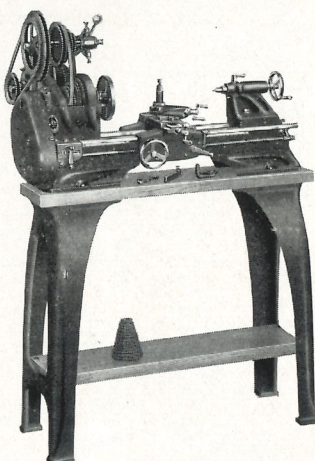
Please give serial number stamped on lathe bed.

FLOOR LEGS WITH TABLE BOARDS

No.	For Bed	Code	Price
10D-442A	36"	YADYO	\$17.75
10D-442B	42"	YAEB5	18.50
10D-442C	48"	YAECT	19.25
10D-442D	54"	YAEGY	20.00

FLOOR LEGS ONLY

No. 10D-441 — Code YADVE — Per Set\$12.25



No. 700

ATLAS TAPER ATTACHMENTS

NO. 700 TAPER ATTACHMENT (Left): Graduated dovetail slide bar is installed parallel to bed—has adjustable gib. Slotted draw bar connects to carriage across slide. All recent Atlas Metal Lathes are ready-tapped to take this attachment. Maximum taper length 7 1/4" in one setting—Range 7° to 10° (3" per ft.) right or left. No. 700—Code YAJDO—wt. 18 lb.—\$42.50. Give serial number on lathe bed.

NEW 760 TAPER ATTACHMENT (Right): An entirely new attachment of simple design, quickly installed. Rectangular slide bar has rigid grey iron supports to bed and slotted draw bar to cross slide. Easy-to-read index plate is graduated 7° and 3" both sides of center line. Maximum travel in one setting 7 1/2". No. 760—Code YAJBE—wt. 9 1/2 lb.—\$14.75



DRAW-IN COLLET CHUCK

FOR MAXIMUM ACCURACY

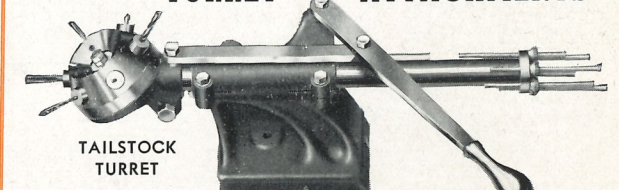
The most accurate method for chucking diameters between 1/32" and 1/2"—consists of hollow draw-in spindle, tapered closing sleeve, and split holding collets. **DRAW-IN SPINDLE:** hollow construction permits rods to be passed through lathe spindle—hand wheel releases and tightens collet on work. **SPLIT COLLETS:** collet wheel steel, heat treated and ground inside and outside. Tapered on one end to fit draw-in spindle—ground on other end to fit tapered sleeve.

ATLAS DRAW-IN COLLET CHUCK ATTACHMENT WITH ONE SPLIT COLLET LISTED BELOW.
 No. 750, Code YAIRL, \$21.50, wt. 3 lb.

SPLIT HOLDING COLLETS

SPLIT HOLDING COLLETS in 1/32nds between 1/32" and 1/2" as follows: 1/32", 1/16", 3/32", 1/8", etc. — No. 751.....\$4.00 each Code YAJAZ, wt. 4 oz. Specify Collet Diameter.

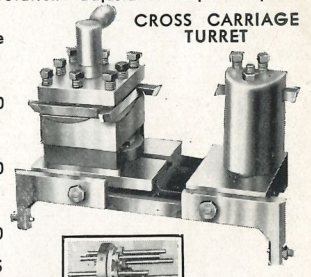
TURRET ATTACHMENTS



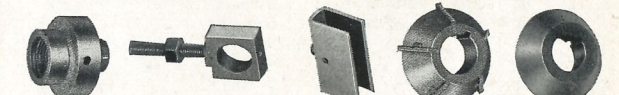
TAILSTOCK TURRET

Tailstock Turret has semi-automatic indexing head with six 3/4" bored holes for six operations and stop screws for gauging depth of each operation. Cross Carriage Turret including Back-Slide Tool Post and Double Tool Cross Slide replaces compound rest and provides 5 separate operations. Indexed for quick rotation—adjustable depth stops at front and back—3/8" tool bits.

No.	Description	Price
600A	Tailstock Turret (un-bored) with special tailstock, lever feed and stops.....	\$43.50
	Code YAJEB.	
600	Tailstock Turret (bored) with special tailstock, lever feed and stops.....	49.50
	Code YAJIC.	
670	Cross Carriage Turret Attachment Complete Wt. 22 lb.	45.50
	Code YAJOD.	
671A	Double Tool Cross Slide	16.85
	Code YAJUF.	
673A	4-Way Tool Post Turret	23.15
	Code YAJYG.	
676A	Back Slide Tool Post... ..	8.85
	Code YAJZA.	



"Multistop" for quick gauging of cut-length—6 positions. No. 690—Code YEHFE—\$16.00



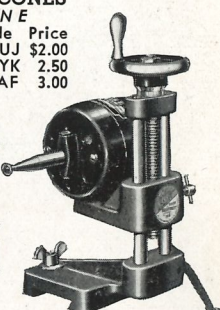
PISTON MACHINING EQUIPMENT for pistons between 2 1/4" and 5 1/8" consists of 3-piece driving unit, skirt reamers and self-centering cones. **Driving Unit No. 400.....Code YAMHO, Wt. 4 lb.....\$6.75** Includes adapter for lathe spindle, driving dog, and extension for large sizes.

SKIRT REAMERS AND CONES

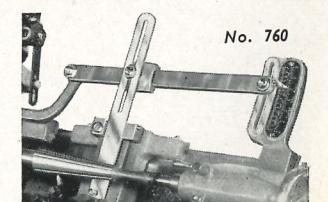
Capacity	No. Code	Price	No. Code	Price
2-1/4" to 3-1/4"	408 YAMIG	\$6.50	405 YAMUJ	\$2.00
3-3/16" to 4-3/16"	409 YAMKY	8.35	406 YAMYK	2.50
4-1/8" to 5-1/8"	410 YAMOH	9.75	407 YANAF	3.00

MOTOR DRIVEN UNDERCUTTER

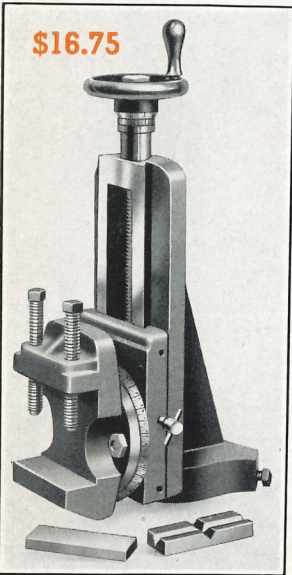
Takes guesswork out of mica undercutting and saves valuable time. Mounts on carriage dovetails, goes into action without removing tool after trueing cut, and can be moved easily out of the way when not in use. No. 510, Code YAMFE, wt. 11 lb., \$21.50. Furnished: Dumore Universal Motor, 5 high-speed undercutting saws (.015", .020", .025", .030", and .035"), extension cord with switch and plug. Can be used with any Atlas 9" or 10" Lathe except A and B Unit-Plan Models.



No. 760



Atlas MILLING ATTACHMENT



\$16.75

Converts any 9 or 10-Series Atlas metal lathe into a small milling machine for face milling, cutting keyways and slots, milling dovetails, squaring off shaft ends, making dies and moulds and many other important operations. It is quickly and easily installed, replacing compound rest.

The Milling Attachment can be swivelled completely to hold work at any angle. Extra heavy castings — gib take-up — micrometer-graduated feed screw. Vise is graduated and can be swivelled to any angle.

For holding extra large work, order Clamping Plate No. 502A — Wt. 5 lb. — Code Word YEHAD—\$4.50. Includes accurately machined grey iron casting, T-slot for bolt, bolt, and drop forged clamp.

ATLAS MILLING ATTACHMENT

No.	For	Code Word	Price
500A	10" lathes with serial nos. following 3970	YAKBA	\$16.75
500	All 9" lathes, and 10" lathes with serial numbers lower than 3970	YAKAB	16.75
Vise capacity 2 3/8", jaw depth 7/8", jaw width 2 1/2", vertical feed, 3 3/4", cross feed 5", wt. 17 lb. Includes graduated swivel vise, flat block, V-block for holding round work, graduated vertical feed screw.			

R. H. SPIRAL STRAIGHT SHANK END MILLS

For General Milling Operations—Wt. 4 oz. each.

No.	Diameter	Flute	Code Word	Price
No. 576A	1/4"	5/16"	YAKCE	\$1.50
No. 576B	5/16"	11/16"	YAKEC	1.60
No. 576C	3/8"	3/4"	YAKFO	1.80
No. 576D	7/16"	7/8"	YAKID	1.95
No. 576E	1/2"	15/16"	YAKOF	2.15
No. 576F	3/8"	1/2"	YAKUG	2.50

STRAIGHT SHANK WOODRUFF KEYWAY CUTTERS

No.	Diameter	Thickness	Shank	Code Word	Price
575A	1/2"	1/8"	1/2"	YALUH	\$2.25
575B	3/8"	3/16"	1/2"	YALYJ	2.50
575C	1"	1/4"	1/2"	YAMAD	3.00
575D	1 1/8"	5/16"	1/2"	YAMDA	3.50
575E	1 1/4"	3/8"	1/2"	YAMEF	3.95

Shipping Weight—6 oz. each.

ANGULAR CUTTERS WITH THREADED HOLE

For face milling or dovetailing.
 1 1/4" diameter x 7/16" thick; 3/8" hole, 24 thread.
 No. 574A—Code Word YALIF.....\$3.75
 1 1/8" diameter x 9/16" thick, 1/2" hole, 20 thread.
 No. 574B—Code Word YALJY.....\$4.25
 Shipping Weight—6 oz. each.

HOLDING COLLET SET

For holding straight shank cutters. Includes 3 arbors—one for straight shank cutters and two for threaded angular cutters.
 No. 565.....\$5.75
 Code YALOG, wt. 3 lb.

COLLET BUSHINGS

To adapt 576 straight shank end mills to 565 Holding Collet Set.

No.	Diameter	Code Word	Price
563D	1/4"	YAKYH	\$.25
563C	5/16"	YALAC	.25
563B	3/8"	YALCA	.25
563A	7/16"	YALDE	.25

No. 563E Set of four above Bushings—Code Word YALD.....\$.90
 No. 564 Arbor for 3/8" diameter end mills—Code Word YALGO.....\$ 1.60
 Shipping Weight—4 oz. each.
 No adapter bushing is required for No. 576E 1/2" diameter end mill.

Atlas Tool Post GRINDER



FOR INTERNAL AND EXTERNAL GRINDING

No. 450

Set up this versatile tool in the tool post slide and it will handle all kinds of finishing work requiring precision and a polished surface—valves and cutters at any angle, valve stems, pistons, bushings, tools, lathe centers, spiral, taper or straight reamers. Mica undercutting saws are attached to internal quill.

Spindle runs on deep-grooved SKF ball bearings sealed against dust. Novel raising screw and clamp adjust vertical position. Motor furnished is a 1/8 H.P. Dumore—a cool, quiet, powerful motor dynamically balanced. Wheel is easily removed for attaching quill to hold internal grinding wheels. The diamond dresser for keeping wheels true and sharp is furnished as standard equipment.

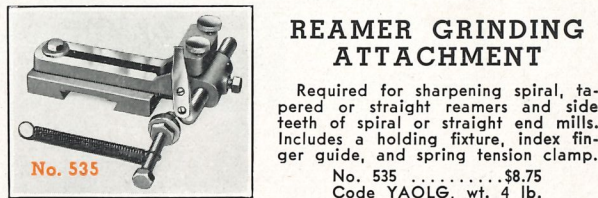
No. 450 ATLAS LATHE GRINDER—\$48.75
 Code Word YANEG.....Wt. 35 lb.

EQUIPMENT FURNISHED: 1/4 H. P. Dumore Universal Motor 105-120 Volt AC or DC; 2-Step Balanced Pulleys; SKF Ball Bearing Spindle (spindle speeds—6800 and 10400 RPM full load); 1 External Grinding Wheel and 1 Internal Grinding Wheel (see table below and specify sizes desired); Quill for Internal Grinding and Mica Undercutting; Set of 5 Undercutting Saws (.015", .020", .025", .030", .035"); Complete Diamond Dresser; Extension Cord with Switch and Plug. Odd-voltage motors available—prices on request.

SEE ATLAS REVERSING SWITCHES, PAGE 11.

GRINDING WHEELS AND SAWS

No.	Description	Code Word	Price
475	External Wheel for Steel, 2 1/2" diam.	YANFA	\$1.00
476	External Wheel for Cast Iron, 2 1/2" diam.	YANGE	1.00
477 1/4	Internal Wheel, 1/2" diam. } grind to	YANJO	.70
477 1/2	Internal Wheel, 1/2" diam. } depth	YANLY	.75
477 3/4	Internal Wheel, 3/4" diam. } of 2 3/8"	YANOK	.75
477-1	Internal Wheel, 1" diam.	YANUK	.90
478	Special Wheel for O.D. of Reamers	YANYL	1.60
479	Special Wheel for Face of Solid Reamers	YAODY	.75
523A	Set of 10 Mica Undercutting Saws (2 each of 5 thicknesses)—.015", .020", .025", .030", .035"....	YAOJD	3.60



REAMER GRINDING ATTACHMENT

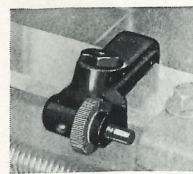
Required for sharpening spiral, tapered or straight reamers and side teeth of spiral or straight end mills. Includes a holding fixture, index finger guide, and spring tension clamp.
 No. 535.....\$8.75
 Code YAOLG, wt. 4 lb.

VALVE STEM AND CUTTER GRINDING ATTACHMENT

Required for grinding valve stems, tappet screws, and valve reseating cutters. Consists of V-block for valve stems, cutter clearance gauge, index finger, and cutter arbor with centering pin for grinding reseating cutters.
 No. 550.....\$7.00
 Code YAONJ, wt. 3 lb.



ATTACHMENTS FOR Atlas 9" AND 10" LATHES



Carriage Stop
 Clamps to lathe bed and indicates stopping point of carriage — essential for accurate work. Will not automatically stop carriage.
 No. 315.....\$3.50
 Code YAHZE, wt. 1 lb.

Cross Slide Stop

Clamps to cross slide dovetail and sets accurately the depth of duplicate cuts.
 No. 725—Code YAI8T—\$2.25—wt. 8 oz.

420C Reversing Switch

A newly designed drum type switch with handy lever control, large heavy contacts, mounting bracket. Includes 6 ft. cable, wiring diagram. Compact and easily installed.
 No. 420C—Code YAIGZ—\$4.25—wt. 5 lb.

420 Reversing Switch

A drum-type switch with hard-rolled copper contacts, knobbed lever, mounting bracket. Includes 6 ft. cable, wiring diagram.
 No. 420—Code YAIFY—\$7.50—wt. 5 lb.

8 1/2" Face Plate

For handling large work. Threads on Atlas 9" and 10" metal lathe spindles — has 8 clamp slots.
 No. 365.....\$4.00
 Code YAVSY, wt. 7 lb.
 L5-365 FACE PLATE (Right)



For off-center work and pieces not workable with face plate or chuck. Horizontal face 5" long.
 No. 740.....\$3.90
 Code YAVYS, wt. 8 lb.

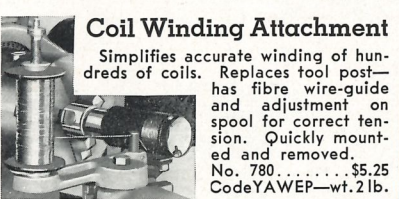
Clamp Type Dogs

Have wide adjustment range on many work-shapes—V-slots for round work. Hardened steel forgings with heat-treated screws.

No.	Capacity	Wt.	Code	Price
741	2 1/4"	1 lb.	YAPGA	\$3.00
742	3 1/2"	2 1/2 lb.	YAPHE	5.25

Pipe Centers

For accurate support of work when cutting pipe-type threads. Includes 2 accurately ground centering cones, bushing, and holder with No. 2 M. T. shank. Cone capacities: Large 4" to 8", small 1/4" to 4".
 No. 755, YAWAN, wt. 13 lb., \$18.25



Simplifies accurate winding of hundreds of coils. Replaces tool post—has fibre wire-guide and adjustment on spool for correct tension. Quickly mounted and removed.
 No. 780.....\$5.25
 Code YAWEP, wt. 2 lb.

Boring Tool Holder

Extra rigid support—drop-forged holder has reversible yoke for right or left hand work. Includes hi-speed 1/4" boring tool and wrench.
 A-2030, \$3.25
 YATME, wt. 1 1/2 lb.

L A T H E D O G S

New lightweight design. Hardened drop-forged steel for durability and strength. Heat-treated set screw. Wt. 2 lb. (set).

No.	Opening	Code	Price
142	1/2"	YAOPK	\$.50
143	3/4"	YAORM	.60
144	1"	YAOWR	.70
145	1 1/2"	YAOZT	.80
142A	Set of 4 Dogs	YAPAG	2.60



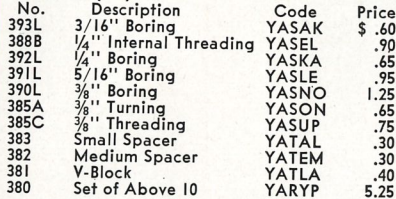
1/4" Hi-Speed Cutter Bits

No.	Description	Code	Price
386A	R. H. Turning	YAPMY	\$.30
386B	L. H. Turning	YAPOK	.30
386C	R. H. Facing	YAPUL	.30
386D	L. H. Facing	YARAJ	.30
386E	Round Nose Turning	YAREK	.30
386F	Threading	YARIL	.40
386	Set of Above 6	YARJA	1.60
386S	Set of 6 Unground 1/4"	YARKE	.85
386T	Set of 12 Unground 1/4"	YARMO	1.60
386S5	Set of 6 Unground 3/8"	YARPY	2.10

Tool-Post Tools

Hi-speed ready-ground tool steel, for use directly in lathe tool post. 10 pieces in complete set.
 Wt. 2 lb. (set).

No.	Description	Code	Price
393L	3/16" Boring	YASAK	\$.60
388B	1/4" Internal Threading	YASEL	.90
392L	1/4" Boring	YASKA	.65
391L	5/16" Boring	YASLE	.95
390L	3/8" Boring	YASNO	1.25
385A	3/8" Turning	YASON	.65
385C	3/8" Threading	YASUP	.75
383	Small Spacer	YATAL	.30
382	Medium Spacer	YATEM	.30
381	V-Block	YATLA	.40
380	Set of Above 10	YARYP	5.25



Drop-forged steel with heat-treated alloy set screw.

No.	Description	Wt.	Code	Price
139	Straight	1 lb.	YAUCY	\$1.25
139L	LH Offset	1 lb.	YAUDZ	1.25
139R	RH Offset	1 lb.	YAUID	1.25

CUT-OFF TOOL

Drop-forged holder with 3/2" hi-speed ready-ground blade.
 No. 590.....\$1.65
 No. 592.....\$1.65
 Extra Blades 4 oz. YAURN .55

THREADING TOOL

Ready-ground to 60° — to re-sharpen grind top edge only.
 No. 430—Code YAUXT—\$2.75—wt. 1 lb.

Knurling Tool

Self-centering hardened tool steel rollers (medium knurl).
 No. 340—Code YAUSP—\$3.25—wt. 1 lb.
 Extra Knurls, No. 343, Code YEGYJ, \$1.30.

STEADY REST (Left)

For accurate work on long pieces. Wt. 5 lb.\$5.25
 No. 10-325 10" lathes YAVMA
 No. 9-325 9" lathes YAVIP



For long, slender work.
 No. 425.....\$3.75
 Code YAVNE, wt. 3 lb.

4-JAW INDEPENDENT CHUCKS

The Atlas 370 6" Chuck (right) is rugged and accurately built for holding work of all shapes. Has 4 hand-fitted reversible jaws — rigid semi-steel body—entire face ground. No. 370 6" Chuck threads directly on Atlas 9" and 10" spindles—other sizes require adapter.
 No. 370, 6" DIAM.....\$12.75
 Code YAEWP — WT. 9 LB.

4" AND 8" INDEPENDENT CHUCKS
 Complete, with Adapter Without Adapter

Diam.	No.	Code	Price	No.	Code	Price
4"	370-4B	YAFIX	\$12.75	370-4	YAFAV	\$ 8.75
8"	370-8B	YAFUB	22.75	370-8	YAFOV	17.75

3-JAW UNIVERSAL CHUCKS

Accurate self-centering jaws for round and hexagonal work. Heat-treated jaws are controlled by bevel gear-driven scroll. Furnished with 2 sets of jaws (inside and outside). No. 435 5" Chuck threads directly on Atlas 9" and 10" spindles—other sizes require adapter.
 No. 435, Code YAEK, \$18.95 — WT. 11 LB.

4" AND 6" UNIVERSAL CHUCKS

Complete, with Adapter Without Adapter

Diam.	No.	Code	Price	No.	Code	Price
4"	435-4B	YAFWE	\$16.95	435-4	YAFVA	\$12.95
6"	435-6B	YAGBO	28.50	435-6	YAGVO	23.50

ADAPTER PLATES ONLY

Bored and threaded to fit Atlas 9" and 10" lathe spindles, face semi-finished for fitting chuck.

No.	Chuck	Wt.	Code	Price
370-4A	4" Independent	4 lb.	YAGIZ	\$2.75
370-8A	8" Independent	9 lb.	YAGOB	3.25
435-4A	4" Universal	4 lb.	YAGUC	2.75
435-6A	6" Universal	6 lb.	YAGWA	2.75

HEADSTOCK CHUCKS

These Jacobs Chucks are extremely accurate and convenient for holding small diameter work—hollow construction permits handling of long shafts through spindle. Ideal for valve refacing. Thread directly on Atlas 9" and 10" lathe spindles. No. 375 (NOT 375B) can be used in tailstock with Arbor 377.

No.	Capacity	Wt.	Code	Price
375B	1/4" to 3/8"	5 lb.	YAHCO	\$14.00
375	1/8" to 3/8"	4 lb.	YAGYE	11.75
377	Arbor (for 375 only)	8 oz.	YAHUD	1.00

DRILL CHUCKS

Rugged Jacobs Chucks for accurate drilling and countersinking — heat-treated steel. Used with 378 Arbor in headstock and tailstock of 9" and 10" lathes. Countersink drills are shown on page 19.

No.	Capacity	Wt.	Code	Price
BD1-60	1/16" to 1/2"	2 lb.	YAEHZ	\$ 5.75
40-60	0 to 1/2"	2 lb.	YAHIB	6.75
378 Arbor (Required)	8 oz.		YAHYA	1.00

Center Rest Chuck

Jacobs Chuck for supporting centerless armature shafts in tailstock. Essential for accuracy. Used with Arbor 377 for 9" and 10" lathes.

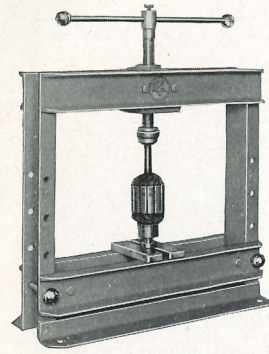
No.	Capacity	Wt.	Code	Price
445	1/4" to 3/8"	3 lb.	YAHOC	\$ 9.50
377 Arbor (Required)	8 oz.		YAHUD	1.00

DRILL PAD CROTCH CENTER

No. 2 Morse Taper Shank.

No.	Code	Wt.	Price
356	YATRY	8 oz.	\$2.15
360	YATOP	8 oz.	2.15

P-10 GENERAL PURPOSE PRESS



The special design and rugged construction of the Atlas P-10 assure quick action in handling pressures up to 10 tons on both large and small work diameters. Recommended for all types of general press work, bending, straightening, removing bushings, veneering, glueing, etc.

Frame and table are solidly constructed of heavy structural steel channels—table may be set quickly in any one of 4 positions. Screw is special steel, free fitting for speedy ram travel. Ram nose has ball thrust bearing.

Largest diameter of work 18"
 Maximum capacity over base... 16 1/2"
 Largest arbor 3"
 Ram travel 5"

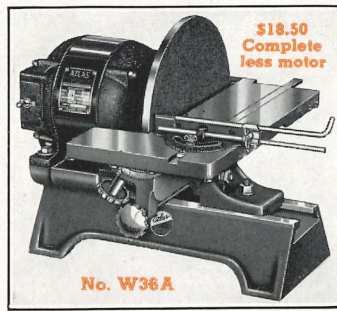
No.	Code	Wt.	Price
P-10 General Purpose Press	WYOHL	80 lb.	\$18.50
P10-14 Two V-Blocks (1 3/4"x7"x3 3/4")	WYOJM	6 lb.	2.00
P10-13 Table Block (4"x6"x3 3/4")	WYOLP	6 lb.	1.30

P-10 Press is furnished with 2 table blocks (1 3/4"x7"x3 3/4").

DISC SANDER

Speeds up all wood and metal finishing operations. Consists of motor bracket, sanding disc, table bed, type base. Table tilts 45° clockwise and 15° counter-clockwise. Mitre gauge with extension rods fits into table slot. Aluminum disc is balanced. Disc and table may be purchased separately.

Length of Base 15"
 Overall Height 13"
 Ov'l Lgh. (inc. motor) 17 1/2"
 Overall Depth 14"
 Table 13 1/2" x 5" wide



ATLAS DISC SANDER COMPLETE AS SHOWN, LESS MOTOR
 No. W36A—CODE WYDOH—\$18.50—WT. 40 LB.
 Includes base, sanding table, 10" disc with medium garnet abrasive, motor bracket, tilting table, mitre gauge with extension rods.
 Motor required is 1/4 H.P. 3450 RPM. See Atlas Motor No. 2580, page 27 — motor base is drilled for this motor.
 No. 2580 Motor—Code WYJMO—\$15.85—Wt. 26 lb.

Sanding Table Only including Tilting Table and Mitre Gauge with Extension Rods, less Motor, Base, Disc. Table Base is machined to fit bed of any Atlas Metal or Wood Lathe except Nos. 612 and 618.
 No. W36—CODE WYDUJ—\$9.75—WT. 17 LB.

No.	Diam.	For	Code	Wt.	Price
W36-9	10"	1250 Wood Lathe	WYEGH	2 1/2 lb.	\$3.75
W36-9A	10"	1050 Wood Lathe	WYEJK	2 1/2 lb.	3.75
387	8"	9" and 10" Metal Lathes	WYELM	2 lb.	3.50
W36-9B	10"	No. 2580 Motor	WYOYZ	2 1/2 lb.	3.75

Abrasive furnished is medium garnet.

No.	For	Diam.	Code	Wt.	Half Doz.
W36-26	Wood	10"	WYEMN	8 oz.	\$.95
W36-27	Metal	10"	WYENP	8 oz.	.95
389	Wood	8"	WYERS	8 oz.	.65
389A	Metal	8"	WYEWY	8 oz.	.65

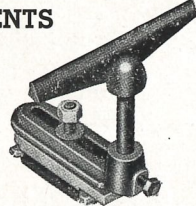
WOODWORKING ATTACHMENTS

For Atlas 9 and 10 Series Lathes.

WOODWORKING HAND REST

Consists of 2 Tee Rests (4" and 12") for chisel support, and sturdy base which clamps to lathe bed. Sliding clamp plate protects bed—hand clamp screw locks rest in any position.

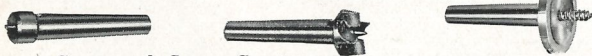
No. 330 \$2.75
 Code YAWOR, wt. 5 lb.



HAND REST SWIVEL

Clamps to carriage in place of compound rest—can be turned and locked at any angle. Furnished complete with 3 Tee rests—4", 8", and 12". When ordering please give lathe serial number or year purchased.

No. W27 \$4.60
 Code YAWRO, wt. 4 lb.



Cup and Spur Centers

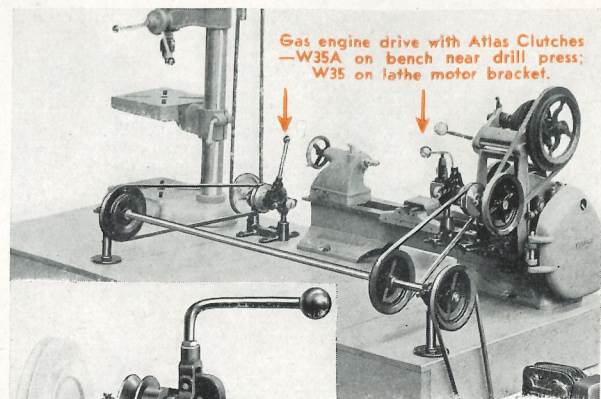
Ground and hardened steel with replaceable center point and No. 2 Morse Taper. Cup center (left) used in tailstock. Spur center (right) used as driver in headstock.

No. 351 Cup Center YAWUS 8 oz. \$1.10
 350 Spur Center YAWTY 8 oz. 1.10

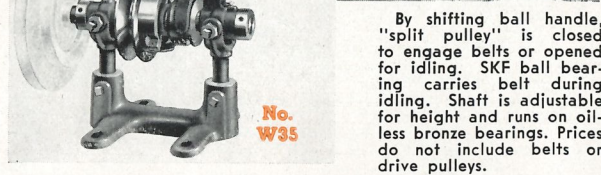
EXTENSION BED (Woodworking)

For extra long work—machined and finished exactly like Atlas Lathe Bed, pg. 6, 18 1/4" long.
 No. 1-18, Code YAILF, wt. 40 lb. \$9.50

NEW LINE-SHAFT CLUTCH



Gas engine drive with Atlas Clutches—W35A on bench near drill press; W35 on lathe motor bracket.



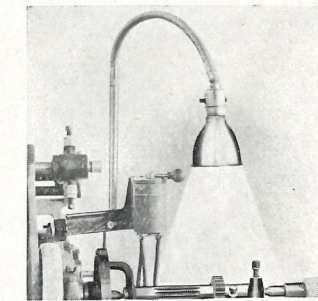
By shifting ball handle, "split pulley" is closed to engage belts or opened for idling. SKF ball bearing carries belt during idling. Shaft is adjustable for height and runs on oil-less bronze bearings. Prices do not include belts or drive pulleys.

No.	For	Code	Wt.	Price
W35	Lathes	YAWNA	10 1/2 lb.	\$12.30
W35A	Drill Presses	ZAYEL	10 1/2 lb.	12.30

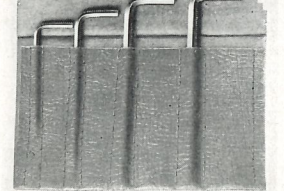
Length Shaft 9"
 Maximum Height Overall 12 1/2"
 Outside Diameter — Split Pulley 3 1/2"
 Shaft Diam. 3/4" turned to 1/2" at outer end

LATHE LAMP

Improves vision by throwing plenty of light directly on the work without eye glare. 15" flexible cable, mounting bracket, post, ball joint at shade, "push-thru" switch, 6 ft. cord and plug. Attractive satin-chrome finish.



No. 745 \$2.75
 Code YAIKD, wt. 3 lb.



ALLEN WRENCHES

This set includes Allen Wrenches to fit set screw sizes No. 10, 1/4", 5/16", and 3/8". Essential for adjusting Atlas Lathe countershaft pulleys and collars, spindle pulley, back gear; drill press spindle pulley.

No. W44 \$.35
 Code WUYIR, wt. 6 oz.

SURFACE PLATE

Patterned after industrial master surface plates—indispensible for many different types of checking and truing. Made from one well-seasoned grey-iron casting—accurately planed surface.

No. K-25 \$10.50
 Code WYOPS, wt. 58 lb.

ATLAS PACKAGED STEEL

Cold rolled steel in 7 diameters: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1".

No.	Lth.	Wt.	Code	Price
W45	12"	9 lb.	WUYYS	\$1.80
W46	24"	17 lb.	WUYAP	3.05
W47	36"	26 lb.	WUYGD	4.70

Other sizes available, prices on request.

LATHE MANUAL

A book for every shop — 272 pages of up-to-date facts on the care and operation of the modern lathe. Detailed instruction for machining all types of metals, composition materials and woods. Metal-bound—index tabs—over 300 illustrations. Furnished free with Atlas metal lathes. Mailed postpaid on receipt of \$1.00 or sent COD for \$1.00 plus postage and charges.

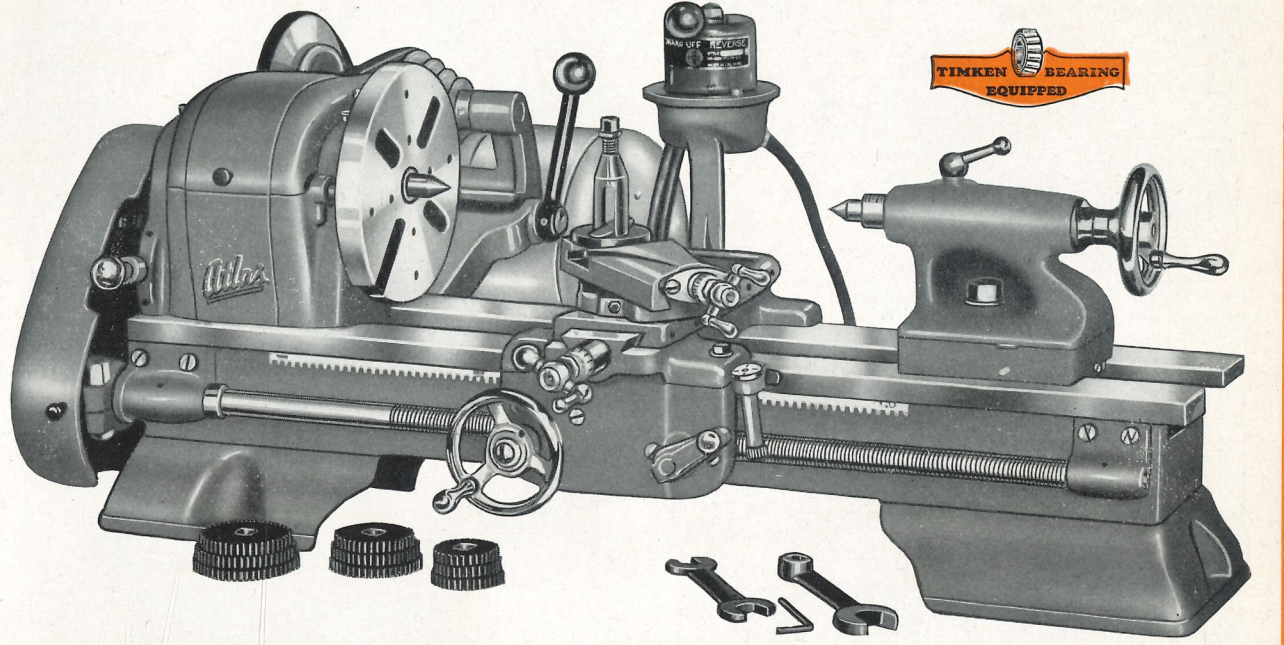


\$1.00 in U.S.

Atlas — A Dependable Source for Complete Modern Metal-Working Shop Equipment — Lathes, Drill Presses, Arbor Presses, Shapers

The First Small Precision Lathes at a Popular Price

NEW SMALL Atlas BACK GEARED LATHES



6 Inch Swing -- 16 Speeds -- Reversible Power Feeds -- Two Bed Lengths

Here is the machine tool that is the sensation of the season—a completely new lathe with all the features of the larger Atlas models scaled down for the machining of small work. It swings diameters up to 6 inches, and is available with 12 or 18 inch capacity between centers. It has the strength, power, versatility, accuracy, and performance which have placed the Atlas Lathe in the front rank of modern machine tools.

The new Atlas Small Lathes are built of the same fine materials as all Atlas Lathes, machined on the same precision equipment, and before shipment must pass the same strict working tests for alignment and accuracy.

CONSTRUCTION FEATURES

The 6-inch Lathes include the distinctive construction features which identify the modern Atlas Lathe: Built-in Adjustable Countershaft Attached Directly to Lathe; Complete V-Belt Drive from Motor to Countershaft to Spindle; Bed Ways Precision Ground to .001" of Perfect. The following features add to versatility and ease of operation: Reversible power feeds to

control carriage travel; 16 speeds between 54 and 3225 RPM; threading dial, gears, and chart to cut 8 to 96 threads per inch; tumbler-type reversing lever for quick feed-direction changes; 60-hole indexing mechanism, graduated tailstock ram, conveniently located reversing switch with knobbed lever control, handy belt tension lever, micrometer graduated feed screw collars. Headstock spindle is machined from a solid bar of special fine-grained steel, accurately ground and polished. Timken Tapered Roller Bearings for the headstock spindle mean that both radial and thrust loads are carried with a minimum of friction. Carriage bearings, tailstock bearing, and cross slide and tool post slide dovetails have gibs or laminated shims to take-up adjustment to maintain permanent accuracy. Full provision is made to permit thorough lubrication.

Headstock, bed, legs, carriage, compound rest, tailstock, gear guards, countershaft support, and switch bracket are heavy gear iron castings. Pulleys, gears, handwheels, handles, and other small parts are made of Zamak, a rugged durable metal alloy. For complete information on Zamak, refer to page 6.

SPECIFICATIONS

Swing over Bed	6"
Swing over Carriage	4 1/8"
Number of Spindle Speeds	16
Speed Range	54, 82, 122, 140, 187, 287, 317, 365, 481, 550, 820, 940, 1250, 1925, 2125, 3225 RPM
Thread Cutting Range	.8 to 96 Right or Left Hand
Feed per Spindle Revolution	.0026", .0042", .0052", or .0083"
Lead Screw	.16 Acme Threads per inch
Headstock Spindle	1" diameter, 10 pitch National Form threads, 17/32" hole through entire length, nose bored for No. 2 Morse Taper.
Spindle Bearings	Timken Tapered Roller Bearings with thrust take-up nut and collar.
Countershaft Spindle	Oilless Bronze Bearings
Motor Mounting	Bench Hole through Motor Pulley
Back Gears	.20 pitch, 3/8" wide
Backgear Shaft Bearings	Oilless Bronze
Cross Feed Travel	.33 1/2"
Cross Feed Screw	3/8" diameter, National Form Threads
Tool Post Slide Travel	1 3/4"
Tool Post	3/8" x 3/4" slot to take 3/8" tool bits or tool holder for 1/4" bits
Tool Post Swivel	Graduated 0 to 90° right and left
Tailstock Ram Travel	1 1/4"
Tailstock Ram Graduated	0 to 1 1/2" by 1/16ths
Tailstock Setover	9/16"
Tailstock Ram	No. 1 Morse Taper
Reversible Power Feeds	Integral Countershaft, V-Belt Drive, 60-Hole Indexing Mechanism, Chrome Plated Control Handles. Finish—Special Atlas Gray.

ATLAS SIX-INCH BACK-GEARED LATHES

Order No.	Bed Length	Between Centers	Overall Length	Weight less motor	Code Word	Price less motor
612	24"	12"	26 1/2"	90 lb.	YEDOD	\$59.50
618	30"	18"	32 1/2"	98 lb.	YEDUF	64.50

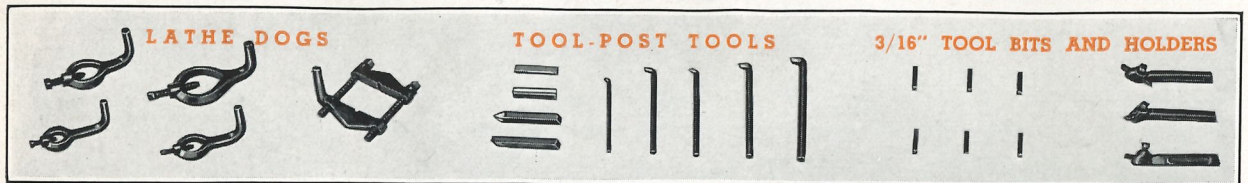
Both Models: Overall Depth less Motor 18", Overall Height 11"

REGULAR EQUIPMENT FURNISHED

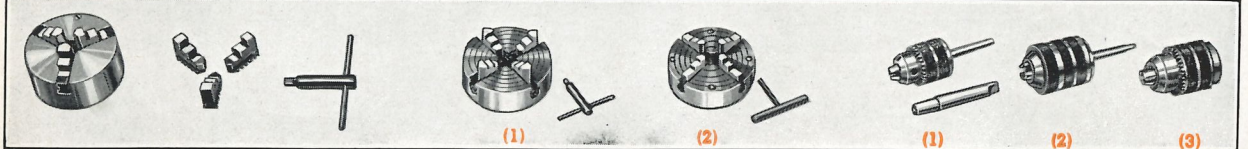
Graduated Compound Rest; Tool Post, Ring and Rocker; 3/8" Tool Bit; Complete Set of Change Gears to cut 8 to 96 threads per inch; Threading Chart, Threading Dial; Ready-mounted Countershaft; All Belts and Pulleys; Motor Pulley furnished is for 1/2" diameter motor shaft—prices for other size motor shafts on request; Reversing Switch; Switch Cords; 5/4" Face Plate; Two 60° Lathe Centers—No. 2 Morse Taper for headstock, No. 1 Morse Taper for tailstock; 3 Wrenches; Instruction Folder.

Tools and attachments for the new 6-inch lathes are on page 14. Motors are on page 27—these lathes are designed to be run from a 1/4 HP motor.

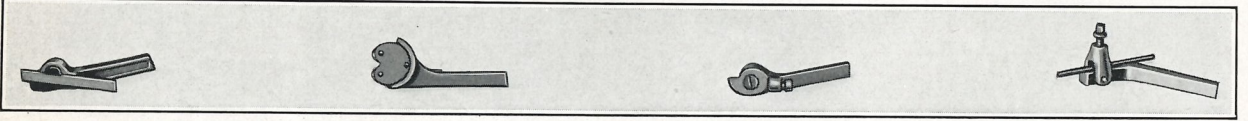
ATTACHMENTS FOR NEW Atlas SMALL LATHES



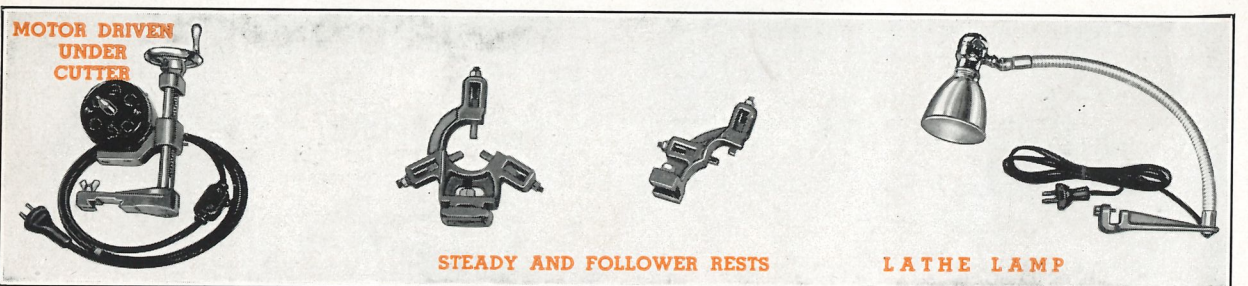
No.	Opening	Code	Price	No.	Description	Code	Price
142	1/2"	YAOPK	\$.50	393L	3/16" Boring	YASAK	\$.60
143	3/4"	YAORM	.60	388B	1/4" Internal Threading	YASEL	.90
144	1"	YAOWR	.70	392L	1/4" Boring	YASKA	.65
145	1 1/2"	YAOZT	.80	391L	5/16" Boring	YASLE	.95
142A	Set of 4 Dogs Above	YAPAG	2.60	390L	3/8" Boring	YASNO	1.25
	Wt. 2 lb. per set.			385A	3/8" Turning	YASON	.65
				385C	3/8" Threading	YASUP	.75
				382	Medium Spacer	YATEM	.30
				M6-381	V-Block	YEEGD	.40
				M6-380	Set of Above 9	YEFYH	5.25



No.	Capacity	Wt.	Code	Price	(1) DRILL CHUCKS (Page 11)
741	2 1/4"	1 lb.	YAPGA	\$3.00	No. Capacity Wt. Code Price
					BDI-60 1/16" to 1/2" 2 lb. YAHEZ \$ 5.75
					40-60 0 to 1/2" 2 lb. YAHIB 6.75
					L2-378 Arbor (tailstock) 8 oz. YECOC 1.00
					378 Arbor (headstock) 8 oz. YAHYA 1.00



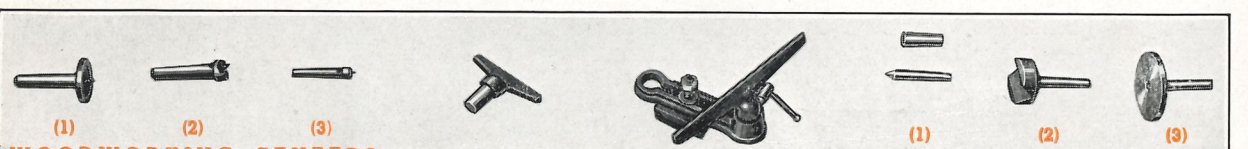
No.	Code	Price	(2) CENTER REST CHUCK (Page 11)	(3) HEADSTOCK CHUCK (Page 11)
M6-590	Holder with blade YEFCE	\$1.50	M6-377 Arbor (Required) 8 oz. YEELJ	1.00
M6-592	Extra blades YEHDA	.50	M6-375 0 to 17/32" 5 lb. YEEBY	\$ 9.50



MOTOR DRIVEN UNDER CUTTER
A time-saving attachment built to fit carriage of Atlas 6" lathes. Eliminates guess-work and makes undercutting profitable. No. M6-510, Code YEEVS, \$17.75, wt. 10 lb. FURNISHED: Dumore Motor 105-130 volt AC or DC, 25-60 cycle. 5 hi-speed saws (.015", .020", .025", .030", .035"), cord, switch, plug.

STEADY AND FOLLOWER RESTS
No. M6-325 Steady Rest, Code YEFHY, \$3.75. Insures accurate work on long pieces. Capacity 2 3/4" diameter—adjustable bronze jaws. No. M6-395 Follower Rest, Code YEFID, \$2.75. For long slender work. Mounts on carriage dovetail and follows tool. Adjustable hardened steel jaws.

LATHE LAMP
No. M6-745 \$2.60. Code YEERP, wt. 2 lb. Throws plenty of light on work without eyeglare. Flexible cable, ball joint at shade, 6 ft. rubber cord and plug. Attractively finished in satin-chrome plate with polished shade.



(1)	(2)	(3)	(1) WOODWORKING HAND REST	(1) LATHE CENTERS
			Two Tee Rests (4" and 8") for chisel support. Clamping base has sliding clamp plate to protect bed—hand clamp screw locks tee rest in any position.	Hardened and ground high-carbon tool steel. Wt. 8 oz.
			No. M6-330 \$2.50. Code YEFOP, wt. 3 lb.	No. Morse Taper Code Price
				L2-80 No. 1 YAVEN \$1.00
				9-88 No. 2 YAVAM 1.25
				M6-136 No. 2 to No. 1 Sleeve YEHHO 1.10
				No. M. T. No. 1 Code Price
				L2-356 Crotch Center (2) above YATYR \$1.90
				L2-360 Drill Pad (3) above YATPO 1.90

Attachments Designed Especially for the New Atlas Small Lathes — They Insure Accuracy in Every Operation

Atlas DRILL PRESSES

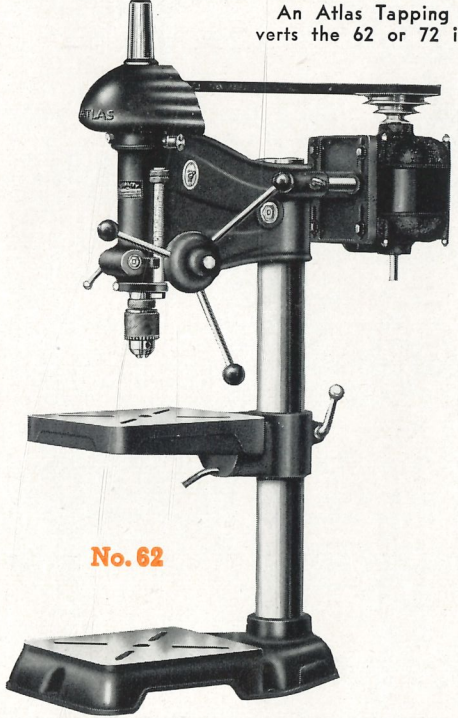
The "heart" of the drill press is its bearing construction. Atlas pioneered definitely superior bearing and spindle design in popular priced sensitive drill presses. More than any other single factor, these fine bearings insure long, accurate service under the most severe operating conditions.

The Atlas 62 and 72 are heavy-duty precision drill presses. Their modern design and rugged construction are the reason why many manufacturers have installed entire batteries of these machines for high speed production work. Their all-round utility also makes them preferred for general shop use.

Only the finest materials are used in Atlas Drill Presses. Head, table and base are heavy grey iron castings; column is a 2 3/4" ground steel tubing; spindle and quill are alloy steel accurately machined and ground to extremely close tolerances; Jacobs Chucks, the finest obtainable, are supplied as standard equipment.

Motor and spindle pulleys are matched and balanced to reduce vibration. New spindle has 6 splines, assuring perfect balancing, smooth feeding and vibrationless performance. Both table and base are machine-ground. Coordinate type locks hold head and quill in any desired position; 10-Amp. switch is mounted directly in head.

The No. 72 Drill Press has a rugged floor-type mounting and exactly the same fine head as the 62. The base serves as an auxiliary table for long or odd-shaped work.



No. 62



No. 72

An Atlas Tapping Attachment (page 16) converts the 62 or 72 into a high-speed production tapping machine. The "Hi-Lo" Attachment allows a wide speed range (low speed 200 RPM) — see page 18. Foot Lever Feed Control for the 72 is described on page 16.

Specifications—62 and 72 Drill Presses

Drill to Center of Circle	15" diameter
Range of Speeds	600-5200 RPM
With Hi-Lo Attachment (page 18)	Low Speed 200 RPM
Ground Steel Column	2 3/4" diameter
Hole through Motor Pulley	1/2" diam.
Slots in Table	Diagonal (Rectangular slots optional)
Number of Speeds	9 Spindle Travel
Size of Table	10" x 10" No. SKF Ball Bearings
Spindle, 6 splines	3/8" diam.
Chuck Capacity	33/64"

	No. 62	No. 72
Maximum Distance Table to Chuck	12"	42"
Maximum Distance Base to Chuck	17"	48"
Table Travel	12"	42"
Overall Height	41"	71"
Overall Width	12"	14"
Overall Depth with Motor	24"	30"
Shipping Weight	122 lb.	163 lb.

The No. 72 is the No. 62 Drill Press with a floor-type mounting.

PRICES 62 and 72 Drill Presses

Order No.	No. 62		No. 72	
	Code	Price	Code	Price
Complete with Jacobs 0 to 1/2" Chuck	62	ZABAM \$40.75	72	ZACAN \$45.75
With Jacobs 1/16" to 1/2" Chuck	62A	ZABEN 39.75	72A	ZACEP 44.75
With No. 1 Morse Taper in place of Chuck	62-1M	ZABIP 40.75	72-1M	ZACNA 45.75
With No. 2 Morse Taper in place of Chuck	62-2M	ZABMA 40.75	72-2M	ZACOR 45.75
Hi-Lo Speed Attachment (page 18), extra	W-15	ZAFTO 5.95	W-15	ZAFTO 5.95
With Safety Belt Guard (Below), extra		9.00		9.00
With Idler Pulleys in place of standard Direct Drive, extra		2.75		2.75
Oil Table (Below) in place of standard Table, extra		9.50		9.50

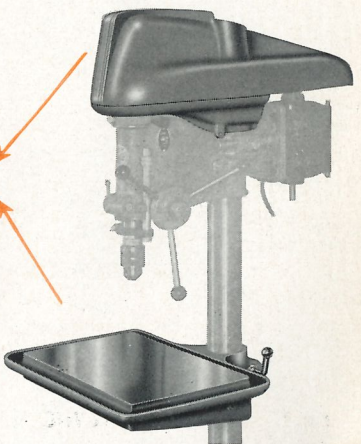
OIL TABLES — SAFETY BELT GUARD

OIL TABLE — Available for 72, 62, and 52 Drill Presses in place of full-tilting table furnished as standard. Has ground working surface and drain trough to remove oil or cutting compound. Can be ordered with drill press or separately.

SAFETY BELT GUARD — Available for 62 and 72 Drill Presses. Light durable aluminum casting with pin hinges for quick raising and speed changes. Not necessary to remove guard to change belts. Can be ordered with drill press or separately.

For No.	Grd. Surface	Wt.	Extra	ORDERED WITH DRILL PRESS
62 & 72	10 1/2" x 16 1/2"	65 lb.	\$9.50	
52	9 1/4" x 15 1/4"	55 lb.	7.50	

No.	For	Code	Wt.	Price	ORDERED SEPARATELY
61-25	62 & 72	ZABUR	65 lb.	\$11.75	
52-25	52	ZAASF	55 lb.	9.50	



Superior Performance with Atlas Drill Presses — the Result of Modern Design and Superior Construction

Atlas TAPPING ATTACHMENTS

The Atlas Nos. 62 and 72 Drill Presses can be converted into sensitive, high-speed production tapping machines by the addition of one of the Atlas Tapping Attachments. The W33 Foot Lever Feed Control shown at the left increases production with the 72 Drill Press.

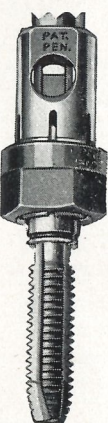
W39A TAPPING ATTACHMENT (Right)

The new Atlas Tapping Attachments meet the modern demand for a light, compact, accurate tapper. The lightweight durable aluminum housing includes a 3-point, balanced, heat-treated gear reversing mechanism which distributes pull to three gears, minimizing wear and eliminating torsion. Reverse speed is twice the forward speed. Double-cone friction clutch with cork facing—ball bearing spindle.

No. W39A TAPPING ATTACHMENT... \$58.00
Code Word ZAERF — Wt. 10 lb.

Has tapered socket for drill press spindle and cover which clamps directly to drill press quill. Furnished with Tap Holder complete with 7 collets for Nos. 8, 9, 10, 1/4", 5/16", 3/8" (shank .381" diam), 7/16" and 1/2" taps. Capacity: No. 8 Tap to 5/16" in steel, 3/8" in cast iron, and 1/2" in brass. No Adapters necessary.

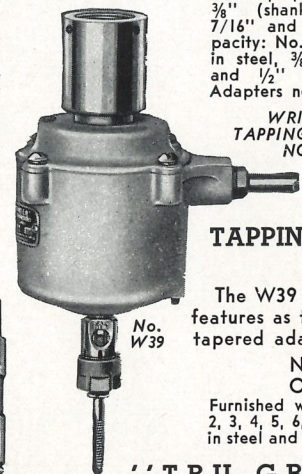
(Left) Atlas 72 Drill Press equipped with W39A Tapping Attachment and W33 Foot Lever Feed Control. Production Oil Table and Safety Belt Guard are described on page 15.



FOOT LEVER FEED CONTROL

Speeds up any repetitive operation. Accuracy is improved because the operator has both hands free to hold and guide the work. Includes draw rod mounted between two arms, one for foot pedal and one for drill press spindle. Heavy duty return spring has 3 positions on spindle arm and tension nut for quick adjustment. Draw rod has 3 positions on foot lever arm—changes are made quickly with adjustable nut.

No. W33 \$15.00
Code ZAETH, wt. 31 lb.



W39 TAPPING ATTACHMENT (Left)

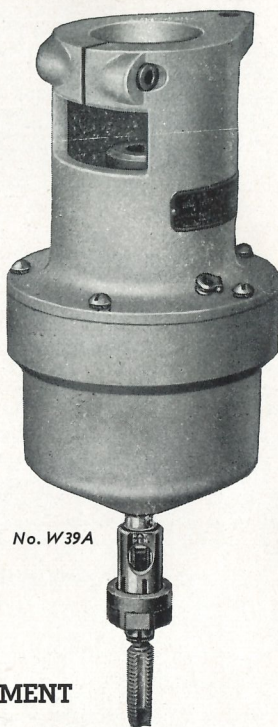
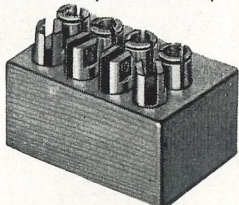
The W39 Tapping Attachment has the same construction features as the W39A above, a 1/4" tie rod, threaded and tapered adapter.

NO. W39 TAPPING ATTACHMENT
CODE ZAEMZ—\$40.00—WT. 5 LB.

Furnished with Tap Holder complete with 4 collets for Nos. 2, 3, 4, 5, 6, 7, 8, 9, 10, and 1/4" taps. Capacity: up to 3/16" in steel and 1/4" in brass and cast iron. No Adapters necessary.

"TRU-GRIP" TAP HOLDER (Left)

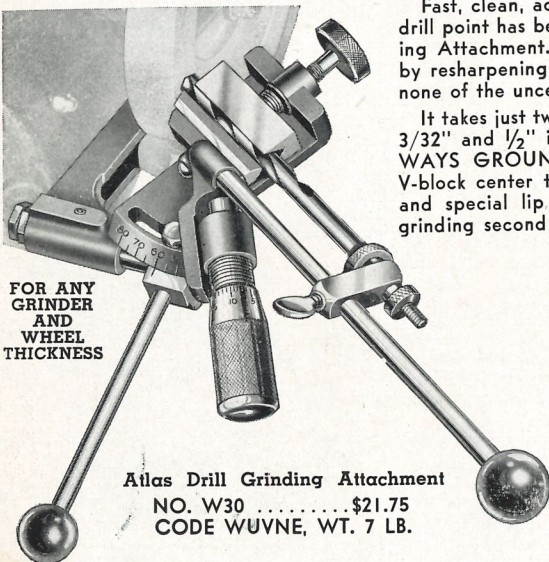
The "Tru-Grip" Tap Holder furnished with Atlas Tapping Attachments is light in weight, accurate and has no delicate parts to cause trouble. A spring collet is used for each size tap—both holder and collets are hardened and ground.



No. W39A

WRITE FOR TAPPING BULLETIN NO. 277

Atlas DRILL GRINDING ATTACHMENT



FOR ANY GRINDER AND WHEEL THICKNESS

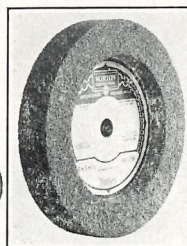
Atlas Drill Grinding Attachment
NO. W30 \$21.75
CODE WUVNE, WT. 7 LB.

Fast, clean, accurate drilling is an easy job when the drill point has been sharpened on the Atlas Drill Grinding Attachment. This attachment soon pays for itself by resharpening drills quickly and accurately and with none of the uncertainty of hand work.

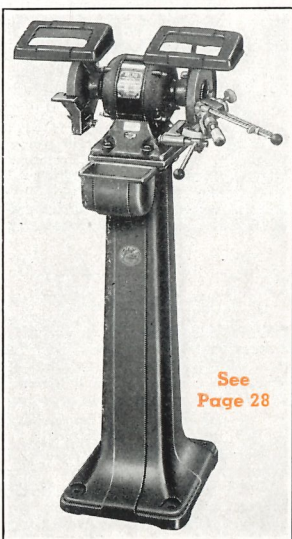
It takes just two minutes to sharpen any drill between 3/32" and 1/2" in diameter, and BOTH LIPS ARE ALWAYS GROUND IDENTICALLY. Novel chuck and V-block center the drill—shank stop, micrometer feed and special lip stop assures accurate rechucking for grinding second lip.

ATLAS GRINDERS

See Page 28



RECESS WHEELS for Drill Grinding Recessed one side.
No. W30-40 \$3.25
Diameter ... 6"
Diam. Hole ... 1/2"
Code ... WUVSY
Weight ... 2 lb.
No. W30-41 \$4.20
Diameter ... 7"
Diam. Hole ... 3/8"
Code ... WUVUR
Weight ... 2 1/2 lb.



See Page 28

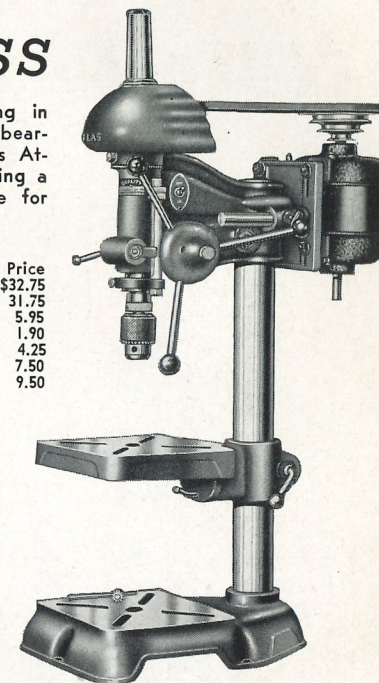
Send for Atlas Bulletin 277 — Shows How Modern Industrial Plants Improve Production and Cost Records with Atlas Tapping Machines

Two Unusual Drill Press Values Made Possible by Atlas Modern Efficient Production Methods

Atlas NO. 52 DRILL PRESS

Four new features have recently been built into the Atlas 52: double-row bearing design, fully enclosed splined spindle, larger heavier column, and machine-ground tables. These improvements mean permanent accuracy, trouble-free performance, greater strength and rigidity.

A large double-row SKF ball bearing in drive pulley takes belt pull; 2 more SKF bearings support spindle in quill. All Atlas Attachments fit the 52 Drill Press, permitting a wide range of work—an ideal machine for the average shop.

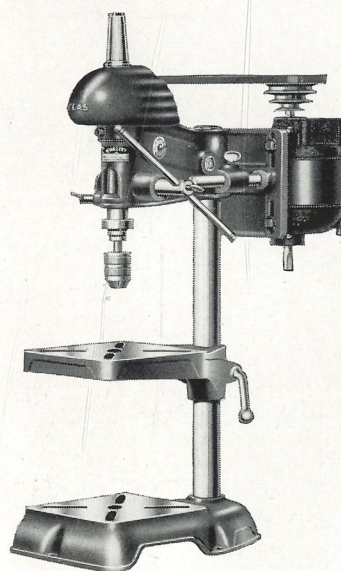


No.	Description	Code	Price
52	With Jacobs 0 to 1/2" Chuck, less motor	ZAAHS	\$32.75
52A	With Jacobs 1/16" to 1/2" Chuck, less motor	ZAAJT	31.75
W-14A	Hi-Lo Speed Attachment (page 18), extra	ZAFRE	5.95
	Idler Pulley Drive in place of standard Direct Drive, extra		1.90
BD3-54A	Idler Pulley Drive when ordered separately	ZAARD	4.25
	Oil Table (page 15) in place of standard table, extra		7.50
52-25	Oil Table when ordered separately	ZAASF	9.50

SPECIFICATIONS—No. 52 DRILL PRESS

Drills to Center of Circle	..... 1 1/4" dia.	Spindle Travel	..... 3"
Maximum Distance Table to Chuck Jaws	..... 9 3/4"	Spindle	..... 6 splines, 5/8" diameter
Maximum Distance Base to Chuck Jaws	..... 13 1/2"	Chuck Capacity	..... 33/64"
Number of Speeds	..... 9	Table Travel	..... 9 3/4"
Range of Speeds	..... 600-5200 RPM	No. SKF Ball Bearings	..... 3
With Hi-Lo Speed Attachment		Pulley Ball Bearing	..... Double-Row SKF
(page 18)	..... Low Speed 200 RPM	Size of Table	..... 8" x 9"
Ground Steel Column	..... 2 1/4"	Hole through Motor Pulley	..... 1/2" dia.
Overall Height	..... 36"	Diagonal Slots in Table (Rectangular slots optional)	
Overall Width	..... 11"	Shipping Weight	..... 91 lb.
Overall Depth with motor	..... 24"		

THE Atlas NO. 42 (Left)



The outstanding value in the low-price class—handles mortising, shaping, carving, sanding, routing, etc. Has following features of higher priced Atlas Drill Presses: splined spindle, balanced pulleys, ground table, built-in switch, coordinate column lock, universal motor base, ground steel

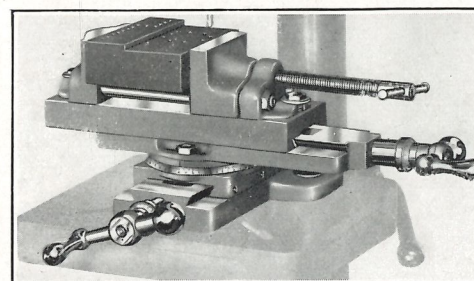
column, guards for splined spindle and pulley. Heavy-duty oilless bronze bearing transmits belt pull to head—spindle runs on 2 oilless bronze bearings. Ball bearing absorbs end thrust. Quill is graduated by 16ths—has lock screw and feed-depth stop collar.

No.	Description	Code	Price
42B	With Jacobs 0 to 1/2" Chuck, less motor	ZACUS	\$22.75
42A	With Jacobs 1/16" to 1/2" Chuck, less motor	ZACYT	21.75
42	With Threaded Chuck, less motor	ZACTY	17.75
W-32	Hi-Lo Speed Attachment (page 18), extra	ZAEWK	5.95
	With Idler Pulley Drive in place of standard Direct Drive, extra		1.90
50-54A	Idler Pulley Drive when ordered separately	ZADAP	4.25
	With Tilting Table in place of standard Solid Table, extra		3.50
40-2A	Tilting Table when ordered separately	ZADIR	4.50
	With 3-Spoke Feed Wheel in place of standard, extra		2.25
51-15A	3-Spoke Feed Wheel when ordered separately	ZADOS	2.50

SPECIFICATIONS—No. 42 DRILL PRESS

Drills to Center of Circle	..... 1 1/2" dia.	Overall Depth with motor	..... 24"
Maximum Distance Table to Chuck Jaws	..... 8 1/4"	Spindle Travel	..... 3"
Maximum Distance Base to Chuck Jaws	..... 11 1/2"	Spindle	..... 6 splines, 5/8" diameter
Number of Speeds	..... 9	Chuck Capacity	..... 1/2"
Range of Speeds	..... 700-4000 RPM	Table Travel	..... 8 1/4"
With Hi-Lo Speed Attachment		Spindle Bearings (2)	..... Oilless Bronze
(page 18)	..... Low Speed 330 RPM	Size of Table	..... 7 1/2" x 7 1/2"
Ground Steel Column	..... 1 5/8"	Hole through Motor Pulley	..... 1/2" dia.
Overall Height	..... 31"	Slots in Table	..... Diagonal
Overall Width	..... 10"	Shipping Weight	..... 72 lb.

NEW COMPOUND REST WITH VISE



A newly designed attachment for accurate spacing and layout work. Base is graduated through 180° and can be swivelled and locked quickly and securely at any angle. Both feed controls are micrometer graduated and have ball crank controls. Vise is No. W-8, (page 18).

No.	Cross Angular Jaw	Jaw	With	Code
W-53	5 1/2"	4 3/8"	2 3/8"	3 1/8"

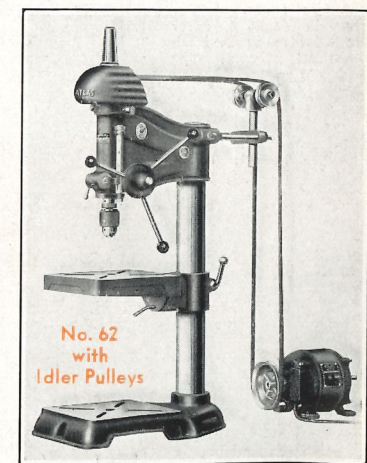
Weight 17 1/2 lb. \$18.25 ZAYBS

IDLER PULLEYS FOR ATLAS DRILL PRESSES

Atlas Drill Presses Nos. 62, 52, and 42 may be equipped with idler pulleys for bench or lineshaft drive in place of the direct motor drive furnished as standard equipment. Idler pulley drives include complete V-belt, idler pulleys with oilless bronze bearings, idler shaft and support. Grease cups at ends of shaft permit thorough lubrication.

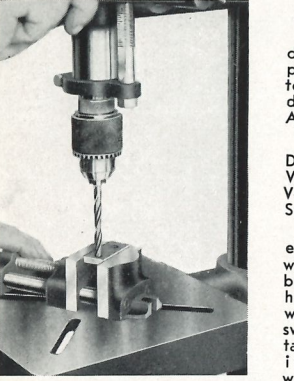
For No.	Purchased	No.	Code	Price
62	with drill press	BD3-54B	ZABNE	4.85
62	separately			1.90
52	with drill press	BD3-54A	ZAARD	4.25
52	separately			1.90
42	with drill press	50-54A	ZADAP	4.25
42	separately			1.90

See Atlas Lineshaft Clutch, page 12. Atlas Engineers are prepared to recommend proper pulleys and belts for lineshaft drives.



No. 62 with Idler Pulleys

Atlas DRILL PRESS ATTACHMENTS



DRILL PRESS VISE

Takes a firm grip on work of many different shapes and holds it rigidly in position. Jaws are 2 5/8" wide, opening to 3 1/2". Heavy steel guide rods—hold-down recesses for clamping to table. Ample drill point clearance provided.

ATLAS DRILL PRESS VISE

Description	No.	Weight	Code	Price
Vise	W-8	5 lb.	ZADPA	\$3.75
V-Block Jaw	W-8V	10 oz.	ZADSO	.75
Swivel Jaw	W-8S	8 oz.	ZADUT	.75

(Right) Vise equipped with W8V V-block jaw for holding round work and W8S swivel jaw for tapered and irregular work.

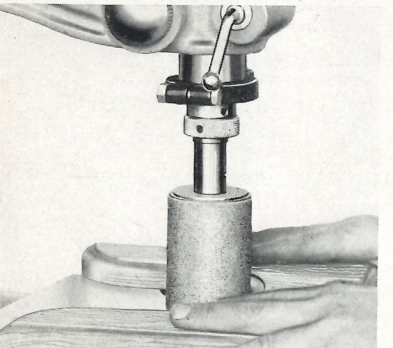
COLUMN COLLARS

for ATLAS DRILL PRESSES

Makes easy work of raising and lowering the drill press head for working at different points on a heavy piece. Lock mechanism is coordinate type, assuring rigid positioning without scoring column.

ATLAS COLUMN COLLARS

Order No.	Atlas Drill Press	Wt.	Code	Price
42-75	40-Series	4 lb.	ZADYV	\$1.40
52-75	50-Series	4 1/2 lb.	ZAEYS	1.50
61-75	60 and 70-Series	4 1/2 lb.	ZADYV	1.60



DRUM SANDER

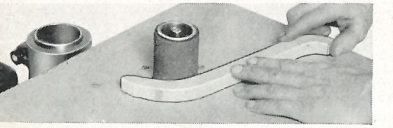
A time-saver. Adapted to drill press spindle with W6-6A Adapter (\$1.65, Code ZALUC). No adapter needed with 42 Drill Presses with threaded spindle. Sander is 2-3/16" diam. and 3" long.

Drum Sander Complete with 1 Medium Garnet Sleeve.
No. W6A, CODE ZAKWE, \$1.65, WT. 2 LB.

ABRASIVE SLEEVES

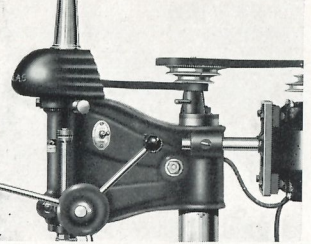
6 Sleeves per Set

No.	Grit	Wt.	Code	Price per half doz.
W6-2F	Fine Garnet	4 oz.	ZAKZO	\$.90
W6-2M	Medium Garnet	4 oz.	ZALBO	.90
W6-2C	Coarse Garnet	6 oz.	ZALIZ	.90
W6-2A	Aloxite (for metal)	8 oz.	ZALOB	.90



ATLAS DRILL PRESS LAMP

No. W3B \$2.50
Code ZAFUV, wt. 2 lb.
The Atlas Lathe Lamp is shown on page 12.



The "HI-LO" SPEED ATTACHMENT

U. S. Pat. 2073704

The "Hi-Lo" provides a low speed of 200 RPM and higher than standard drill press speeds. This wide range is obtained with a standard 1740 RPM motor (page 27), saving the expense of a special high speed motor.

The "Hi-Lo" can be mounted or removed in less than three minutes. The base fits inside of drill press column. Auxiliary pulley is balanced and runs on a large double-row SKF ball bearing. It is mounted eccentric with the base, providing means for quick release of belt tension for speed changes.

ATLAS "HI-LO" SPEED ATTACHMENTS

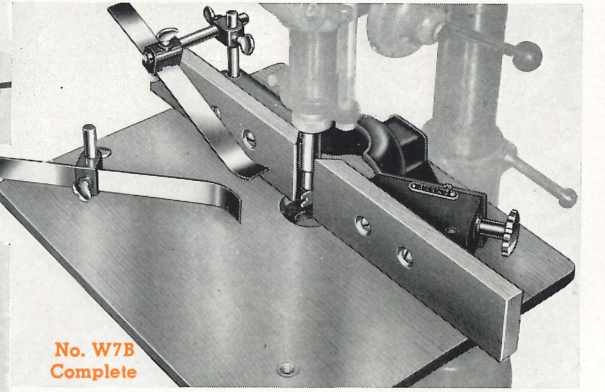
Order No.	Atlas Drill Press	Column Size In- side Diameter	Code	Price
W-32	40-Series	1-5/16"	ZAEWK	\$5.95
W-14	50-Series	1-9/16"	ZAFER	5.95
W-14A	52-Series	2"	ZAFRE	5.95
W-15	60 and 70-Series	2 1/2"	ZAFTE	5.95

Low Speed No. W-32—330 RPM; others 200 RPM. Weight 5 lb.—Furnished with two necessary V-belts.

MORTISING ATTACHMENTS

For cutting quick, clean, accurate mortise-and-tenon joints. Fence may be adjusted after bracket has been bolted to drill press table. Wider mortise may be cut by moving fence after first cut. Hold-down foot adjustable for work between 1/2" and 6" high. Capacity between fence and side clamp arm is 5 1/2".

WIB	Mortising Attachment Complete with Chisel Socket	ZALWA	10 lb.	\$4.75
WIF	Hold-Down and Fence	ZALYE	8 lb.	3.10
WI-4	Chisel Socket	ZAMAY	3 lb.	2.00
WIA	Mortising Attachment without adjustable fence or side-clamp arm	ZAMCO	6 lb.	1.90



NEW SHAPING ATTACHMENT

Converts any Atlas Drill Press into an accurate shaping machine. Cutters are available for almost any shape. Stock may be fed from either side, with head in normal or inverted position. New adjustable fence has graduated scale for reading depth of cut. Table, fence, and hold-downs may be purchased separately.

ATLAS SHAPING ATTACHMENT

No. W7B	Atlas Shaping Attachment Complete, including table, fence, hold-downs, screws, bolts, washers, and clamps—Wt. 18 lb., Code ZAFWY	.....\$9.75
No. W55	Shaping Fence only, including wood facings, bolts, clamps, washers, and nuts—Wt. 9 lb., Code ZAGAR	..... 5.75
No. W7T	Extension Table only, complete with screws and guide pin for irregular work—Wt. 7 lb., Code ZAGIT	..... 3.25
No. W7H	Hold-Down Attachment only complete with clamps and pins—Wt. 3 lb., Code ZAGOV	..... 2.25

ATLAS SHAPING CUTTERS

Nos. W3-1 to W3-14 and W3-16 to W3-24	Code ZAGYX, each	.....\$ .75
No. W3-15	Blank Shaping Cutter 1" Wide, Code ZAKUB	..... 1.15
No. W3A	Complete set of 24 Shaping Cutters in box, Code Word ZAKYA, wt. 2 lb.	..... 18.50

Shaping Depth Collars
No. W3-25A Set of 6 Depth Collars — 9/16", 5/8", 3/4", 13/16", 7/8", 15/16"—necessary for gauging depth on irregular work—5/16" hole.
No. W3-25A \$1.25
Code ZAGRA, wt. 8 oz.

Shaping Cutter Adapters
No. W3-32A Shaping Cutter Adapter for all Jacobs Chuck Spindles.
Code ZAGSE, \$1.35—wt. 8 oz.
No. W3-31A Shaping Cutter Adapter for 40 Series Threaded Spindles.
Code ZAGVO, \$1.35—wt. 8 oz.

Do It Quickly and Easily on an Atlas Drill Press — Attachments are Available for Hundreds of Jobs

Some of the Many Operations Handled on an Atlas — Shaping, Inlaying, Routing, Carving, Mortising, High-Speed Tapping, Dovetailing, Drum Sanding, General Drilling

Atlas DRILL PRESS ACCESSORIES

ROUTER BITS

Atlas Router Bits are alloy steel. Complete set equips Atlas drill press for accurate carving, inlaying, round-end mortising, dovetailing, reeding, round edging, boring and general routing. Shank 1" long, 5/16" diam. Used with W31 Adapter below.

COMPLETE SET OF 11 BITS
No. W4B \$10.00 per set
Code ZANGY—wt. 2 lb.



No. W5-2, 3/4" Carving ZANIC	No. W4-1, 1/8" Mortise ZAPCE	No. W4-8, 1" Mortise ZAODS	No. W4-5, 5/8" Mortise ZAOFI	No. W4-4, 1/2" Mortise ZAOWM	No. W4-3, 3/8" Mortise ZAPAB	No. W4-2, 1/4" Mortise ZAPBA
\$1.20	\$.90	\$1.20	\$1.15	\$1.15	\$.90	\$.90
No. W5-1, 1/2" Carving ZANOD	No. W2-12, 3/8" Dovetail ZANUF	No. W2-13, 1/2" Dovetail ZANYG	No. W2-11, 1/4" Dovetail ZANZA			
\$1.20	\$.90	\$.90	\$.90			

ROUTER BIT ADAPTER

Fits drill press spindle in place of Jacobs Chuck—has 5/16" hole for all router bits above.
No. W31, Code Word ZANEB, \$1.35—wt. 8 oz.

MACHINE SPUR BITS

Special alloy steel carefully heat treated. Brad point steadies tool—spurs prevent chipping. Shank 1/2" x 2". Length 6 3/8".

No.	Size	Code	Price	No.	Size	Code	Price
W10-1	1/4"	ZAWAJ	\$1.15	W10-5	1/2"	ZAWKE	\$1.70
W10-2	5/16"	ZAWEK	1.20	W10-6	9/16"	ZAWMO	1.90
W10-3	3/8"	ZAWIL	1.30	W10-7	5/8"	ZAWPY	2.20
W10-4	7/16"	ZAWJA	1.45	W10-8	3/4"	ZAWYP	2.70

COMPLETE SET OF ABOVE 8 MACHINE SPUR BITS
No. W10A, Code ZAYAK \$12.75—wt. 3 lb.

PROFESSIONAL MORTISING CHISELS

For production mortising. Select high-carbon steel, carefully heat treated, assures long life and superior cutting qualities.

No.	Size	Depth of Mortise	Code Word	Price
W1-16P	1/4" x 1/4"	1 7/8"	ZAMEZ	\$4.30
W1-17P	3/8" x 3/8"	3 1/4"	ZAMIB	5.25
W1-18P	1/2" x 1/2"	3 3/4"	ZAMOC	6.00

STANDARD MORTISING CHISELS

For the shop with an occasional mortising job. Produce a smooth, sharp cornered, square mortise. The standard chisels take the same bits as the professional chisels shown above.

No.	Size	Depth of Mortise	Code Word	Price
W1-16	1/4" x 1/4"	1 7/8"	ZAMUD	\$1.50
W1-17	3/8" x 3/8"	3 1/4"	ZAMYA	1.50
W1-18	1/2" x 1/2"	3 3/4"	ZAMZE	1.50

MORTISING CHISEL BITS

Remove stock quickly and cleanly—used with either the Professional or Standard chisel. Made of special alloy steel carefully heat treated. Held in the drill press chuck—there is no need for special bushings or adapters.

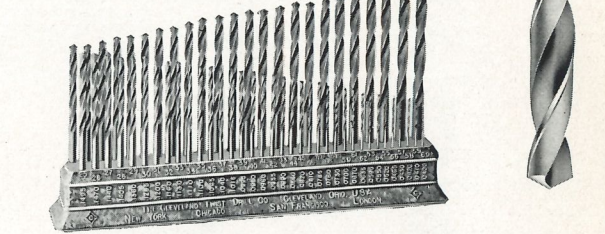
No.	Size	Shank	Code Word	Price
W1-19	1/4"	3/16" diameter	ZANAZ	\$1.50
W1-20	3/8"	19/64" diameter	ZANBE	1.50
W1-21	1/2"	19/64" diameter	ZANDO	1.50

STRAIGHT SHANK DRILLS

Standard "Cle-Forge" Drills—the finest obtainable.

Diameter Inches	No. CD-108		Overall Length
	Carbon Steel	No. CD-917 High Speed	
1/32	\$.20	\$.30	1 1/2"
1/16	.20	.30	2 1/2"
3/32"	.20	.30	2 3/4"
1/8	.20	.30	3"
5/32	.20	.35	3 1/4"
3/16	.25	.40	3 1/2"
7/32	.25	.50	3 3/4"
1/4	.35	.60	4"
9/32	.40	.75	4 1/4"
5/16	.45	.85	4 1/2"
11/32	.50	1.10	4 3/4"
3/8	.60	1.25	5"
13/32	.75	1.40	5 1/4"
7/16	.85	1.75	5 1/2"
15/32"	1.05	2.00	5 3/4"
1/2	1.25	2.40	6"

Wt. 6 oz. each



DRILL SETS IN METAL CASES

The set shown above includes 29 "Cle-Forge" straight shank drills from 1/16" to 1/2" by 64ths. Stand furnished shows decimal equivalent of each drill. Wt. 7 lb.
No. CD-51, Carbon Steel, Code Word ZAUTL, Price \$15.75
No. CD-58, High Speed Steel, Code Word ZAYAH, Price 29.50

MECHANICS DRILL SETS

A compact handy set of 8 straight shank drills in sizes from 1/16" to 9/32" by 32nds. Each drill has a separate, plainly marked hole in the wooden container so that the proper drill may be quickly selected. Wt. 1 lb.

No. CD-26, Carbon Steel, Code Word ZAVHA, Price \$2.00
No. CD-57, High Speed Steel, Code Word ZAYIK, Price 3.75

60° COUNTERSINK DRILLS

For accurate centering of work in drill press or lathe.

No.	Size	Code	Price
395	1/16" x 13/64"	ZAJUR	\$.40
395A	1/8" x .300"	ZASUK	.45

SLEEVE SOCKET

Used in lathe or drill press —No. 2 Morse Taper outside, No. 1 Morse Taper hole.
No. CD-104 \$.95
Code ZAVJE, wt. 6 oz.

MORSE TAPER SOCKETS

For holding taper shank drills in drill press.

No.	Socket	Code	Price
W9-1	No. 1 M. T.	ZAVLO	\$2.25
W9-2	No. 2 M. T.	ZAVNY	2.25

CENTER KEY

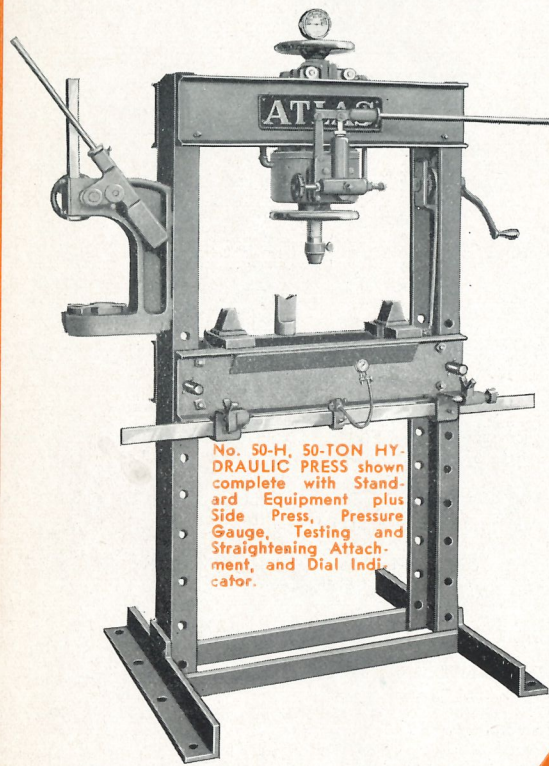
For removing drills from Morse Taper sockets. No. W9-3, Code ZAVOL, \$.50—wt. 4 oz.

"EZY-OUT" SCREW EXTRACTORS

For removing broken set and cap screws, studs, and pipe fittings without damaging threads of hole. Set handles all sizes from small parts to one inch studs.
No. 20 Set, includes Extractors Nos. 1 to 6 with proper straight shank drill for each extractor.
No. 15A Set, same as No. 20 without drills.

No.	Wt.	Code	Price
20	2 lb.	ZAVYN	\$4.75
15A	1 lb.	ZAVUM	3.40

Atlas HYDRAULIC PRESSES



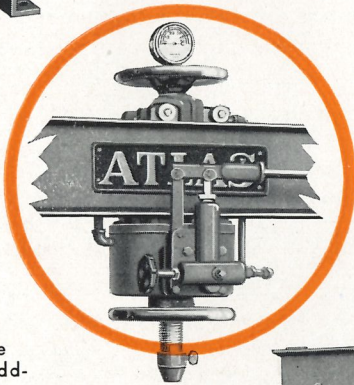
No. 50-H, 50-TON HYDRAULIC PRESS shown complete with Standard Equipment plus Side Press, Pressure Gauge, Testing and Straightening Attachment, and Dial Indicator.

Great power and large work capacities make the Atlas Hydraulic Presses ideal for factories, garages, service stations, and machine shops. The hydraulic workhead furnished as standard equipment is a compact, self-contained unit and can be moved quickly to any position along the top channel—an exclusive Atlas feature. Simple design and superior construction result in many years of trouble-free service. The frame is welded reinforced structural steel; pump is a drop forging. Workhead cylinder is nickel chrome alloy steel. Auxiliary screw type ram, handy release valve, and adjustable table are described at the right. See table below for complete specifications.

- ★ **FRAME** — Welded structural steel with heavily reinforced tables.
- ★ **SELF-CONTAINED WORKHEAD** — Reservoir and controls are one compact unit. Roller mounting provides transverse adjustment.
- ★ **AUXILIARY SCREW TYPE RAM** — Ram is brought down to work quickly with handwheel control.
- ★ **RELEASE VALVE** — Automatically returns ram to starting point when opened by small handwheel control.
- ★ **ADJUSTABLE TABLE HEIGHT** — Handy crank mechanism provides means for raising or lowering table.
- ★ **CONSERVATIVELY RATED** — Before shipment, Atlas presses are tested at pressures 5 to 10 tons higher than actual rating.

Atlas HYDRAULIC WORKHEAD

(Right) Close-up view showing self-contained construction and roller mounting of the workhead unit furnished on Atlas Hydraulic Presses. Workhead cylinder is nickel chrome alloy steel. This unit may be purchased separately for use with any press frame—see table below. Atlas Engineers will be glad to make recommendations for handling extra large or odd-shaped press work.



ATLAS HYDRAULIC PRESSES

	No. 50H	No. 70H
Height Overall	6'8"	7'11"
Floor Space	36" x 43"	36" x 56"
Travel of Table	40"	36"
Travel of Piston	5"	5 1/4"
Travel of Screw	7"	7"
Width between uprights (largest diameter work)	33"	44"
Width between table channels (largest arbor)	7"	8"
Maximum distance ram to table in lowest position	43"	38 1/2"
Capacity	50 tons	70 tons
Weight	820 lb.	1200 lb.
Code Word	HAMP	HORT
Price Complete with Standard Equipment listed below	\$175.00	\$285.00

STANDARD EQUIPMENT FURNISHED

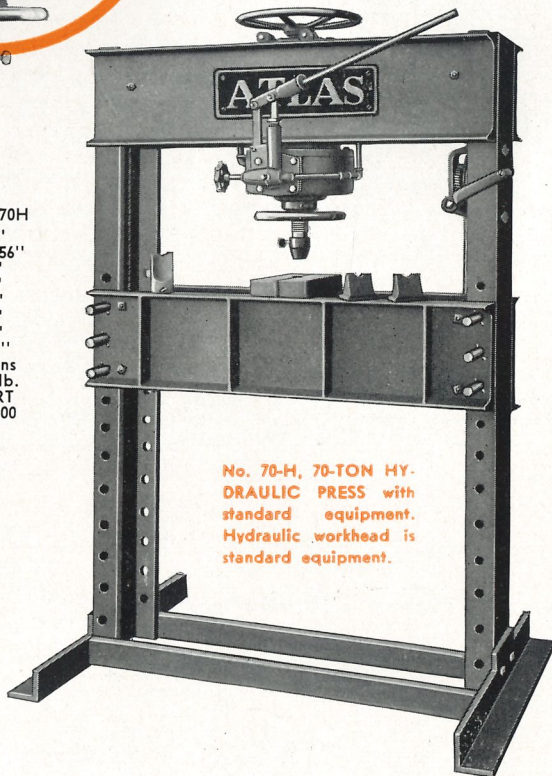
Hydraulic Workhead, 2 Table Plates, Table Lifting Device, 2 V-Blocks, 1 V-Ram Nose for Straightening, 1 Round Nose for pressing.

HYDRAULIC WORKHEAD (When Purchased Separately)

No. 50HW 50-Ton Hydraulic Workhead only	WYNRO	\$ 95.00	200 lb.
No. 70HW 70-Ton Hydraulic Workhead only	WYNUS	185.00	300 lb.

EXTRA EQUIPMENT AVAILABLE

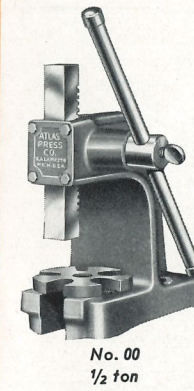
	Code Word	Price	Weight
No. 13 2-Ton Rack and Pinion Side Press	WYNAN	\$ 37.50	100 lb.
No. 50-46 Pressure Gauge for 50-Ton Press	WYNBP	16.00	3 lb.
No. 70-46 Pressure Gauge for 70-Ton Press	WYNNA	16.00	3 lb.
No. 35 Testing and Straightening Attachment	WYNOR	18.50	35 lb.
No. 35-20 Dial Indicator and Bracket	WYNPE	15.00	2 lb.



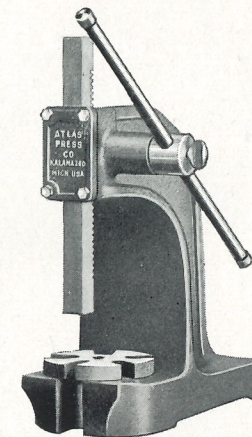
No. 70-H, 70-TON HYDRAULIC PRESS with standard equipment. Hydraulic workhead is standard equipment.

Atlas Compact Scientific Design Saves You Time and Effort. Carefully Selected Materials Mean Longer Service Life

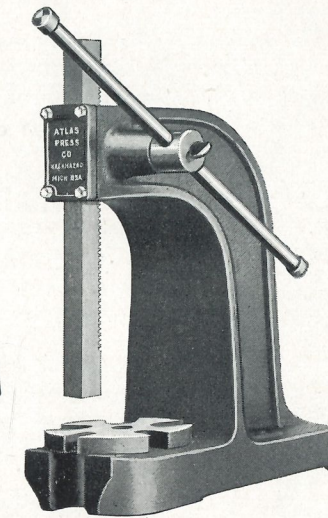
Atlas SIMPLE LEVERAGE PRESSES



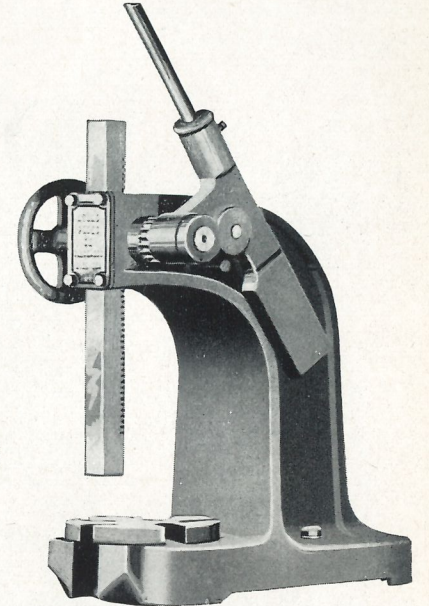
No. 00
1/2 ton



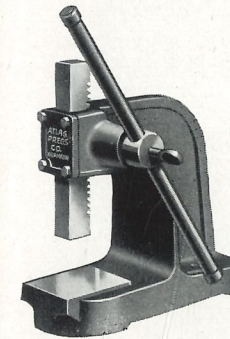
No. 0
1 ton



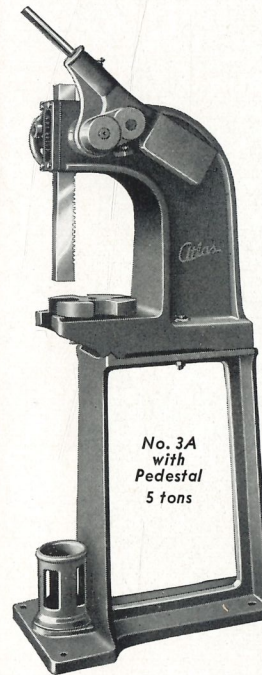
No. 1
2 tons



No. 1 1/2
2 tons



No. X
1/2 ton



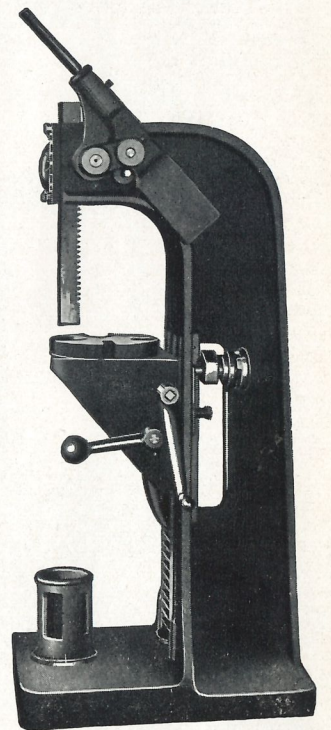
No. 3A
with
Pedestal
5 tons

For over a quarter-century the exceptional power, strength, and versatility of Atlas arbor and straightening presses have led to their acceptance as standard equipment by leading manufacturers in all parts of the world.

Atlas superiority is the result of correct design, rugged materials and thorough testing. All castings are well selected semi-steel iron; rams and pinions are alloy steel, heat treated and carbonized. An original Atlas feature is the square ram which adds to bearing surface, reduces friction and simplifies take-up for wear.

Nos. 00, 0, 1, X, and Y are simple leverage quick-acting presses with capacities between 1/2 and 2 tons. Manufacturers of watches, clocks, radios, speedometers and other delicate instruments use these presses for light production work. Nos. X and Y are Nos. 00 and 0 presses with square-plated table in place of the standard table plate. The Atlas No. 1 1/2 is a sturdy simple leverage press designed for pressures up to 2 tons. The 3-A and 4-M simple leverage presses are larger machines for heavier classes of work. No. 4-M has adjustable table. Nos. 1 1/2, 3-A, and 4-M are equipped with a handwheel to bring the ram down to the work in an instant.

All bench-type presses may be bolted easily to the lathe bed ways. Pedestal mountings are available for all Atlas bench-type presses except Nos. 00, X, and P-10 (page 12).



No. 4-M
5 tons

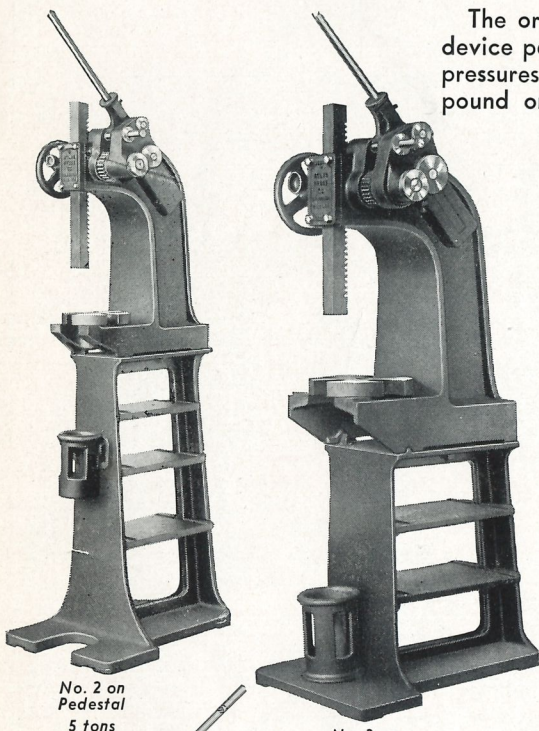
ATLAS SIMPLE LEVERAGE ARBOR PRESSES

Press No.	Diameter of Work, Inches	Largest Arbor, Inches	Capacity Over Table, Inches	Length and Size of Ram, Inches	Floor Space, Inches	Height, Inches	Leverage Ratio	Approx. Tons Pressure	Weight, Pounds	Code Word	Price	Weight Pedestal, Pounds	Code Word Pedestal	Price Pedestal
00	7	1	4 1/4	1 x 1 x 7	Bench 4x10	9	24-1	1/2	20	Pack	\$13.25	—	—	—
0	10	1 1/8	8	1 x 1 x 12	Ped. 10 1/2 x 18	14 1/2	36-1	1	65	Pace	23.50	85	Dell	\$22.00
X	7	1 1/8	4 1/4	1 x 1 x 7	Bench 4x10	9	24-1	1/2	20	Post	13.25	—	—	—
Y	10	1 1/2	8	1 x 1 x 12	Ped. 10 1/2 x 18	14 1/2	36-1	1	65	Pond	23.50	85	Dell	22.00
1	14	1 3/8	11	1 1/2 x 1 1/2 x 16 1/2	Ped. 14x22	20	48-1	2	115	Page	34.00	120	Dent	24.00
1 1/2	14	1 3/8	11	1 1/2 x 1 1/2 x 16 1/2	Ped. 14x22	20	48-1	2	125	Palm	37.50	120	Desk	24.00
3A	20	4	16	2 x 2 x 22	Ped. 18x28	30	55-1	5	420	Peach	85.00	275	Dean	40.00
4M	21	4 1/2	25	2 x 2 x 22	21x29	62	55-1	5	1000	Patron	167.00	—	—	—

Atlas COMPOUND LEVERAGE PRESSES

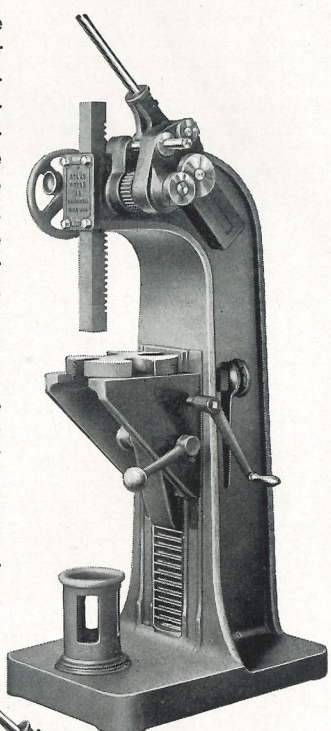
The original Atlas Compound leverage device permits the operator to apply great pressures with minimum of effort. Compound or simple leverage is quickly obtained by simply inserting or extracting a sliding pin. This type of leverage is used in all of the presses listed in the table below.

Atlas Compound Leverage Presses have the same correct design, are built of the same rugged materials and undergo the same careful testing as all Atlas Presses. Nos. 4, 5, 6, 26, and 28 are floor type presses. Nos. 2, 2-B, 2 1/2, and 3 are bench-type presses which may be furnished with pedestal mounting or bolted easily to the lathe bed ways. Nos. 24, 26 and 28 are double-column presses—No. 24 can be furnished with pedestal supports.

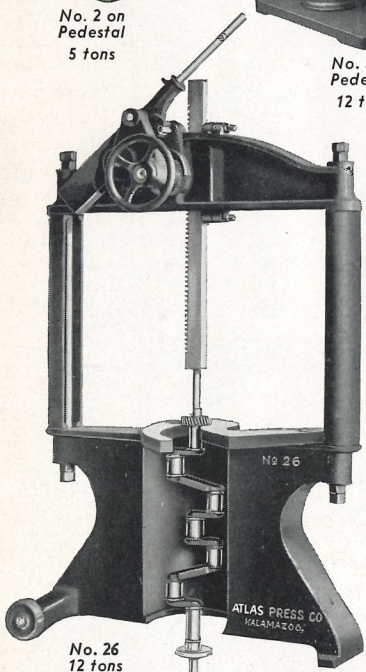


No. 2 on Pedestal
5 tons

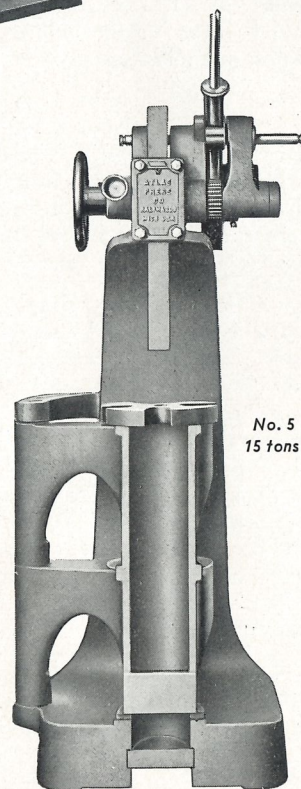
No. 3 on Pedestal
12 tons



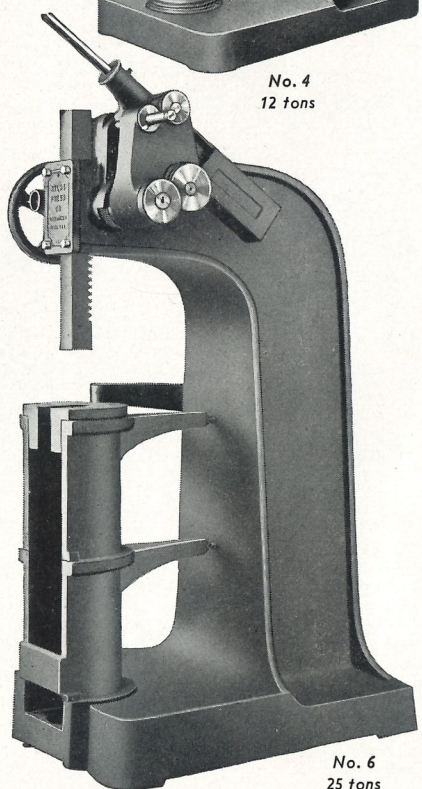
No. 4
12 tons



No. 26
12 tons



No. 5
15 tons



No. 6
25 tons

ATLAS COMPOUND LEVERAGE PRESSES

Press No.	Diameter of Work, Inches	Largest Arbor, Inches	Capacity Over Table, Inches	Length and Size of Ram, Inches	Floor Space, Inches	Height, Inches	Leverage Ratio	Approx. Tons Pressure	Weight, Pounds	Code Word	Net Price	Weight Pedestal, Pounds	Pedestal Code Word	Pedestal Net Price
2	1 1/2	3/8	14	1 1/2 x 1 1/2 x 19	Ped. 18x23 1/2	25	100-1	5	200	Paden	\$ 66.00	225	Destal	\$34.00
2-B	1 1/2	5/2	14	1 1/2 x 1 1/2 x 19	Ped. 15x24	25	100-1	5	200	Pickle	73.00	225	Deck	34.00
2 1/2	1 1/2	3/8	21	1 1/2 x 1 1/2 x 26 1/2	Ped. 18x23 1/2	35 1/2	100-1	5	250	Pomp	75.00	225	Destal	34.00
3	20 1/2	5	18	2 x 2 x 24	Ped. 21x30	36	160-1	12	600	Parco	136.00	375	Decox	48.00
4	21	5	25	2 x 2 x 24	24x29	64	160-1	12	1150	Packer	220.00	—	—	—
5	25	5 1/2	46	2 x 2 x 24	24x33	66	200-1	15	1700	Percy	265.00	—	—	—
6	37	7 3/4	46	2 1/2 x 2 1/2 x 26	26x40	72	290-1	25	2950	Pensive	440.00	—	—	—
24	20	5	18	2 x 2 x 24	Ped. 24x42	68	160-1	12	500	Pillar	140.00	125	Deuce	19.00
26	30	8 1/4	27	2 x 2 x 34	24x38	66	160-1	12	900	Pirate	175.00	—	—	—
28	38	8 1/2	29	2 1/4 x 2 1/4 x 38	24x46	70	200-1	20	1400	Pistol	275.00	—	—	—

Atlas Compound Leverage Presses Handle Pressures between 5 and 25 tons — Write for the Atlas Arbor Press Catalog

Secret of the Rugged Strength of Atlas Vises — Tough Close-Grained Rimcoloy Castings

Atlas MACHINISTS VISES

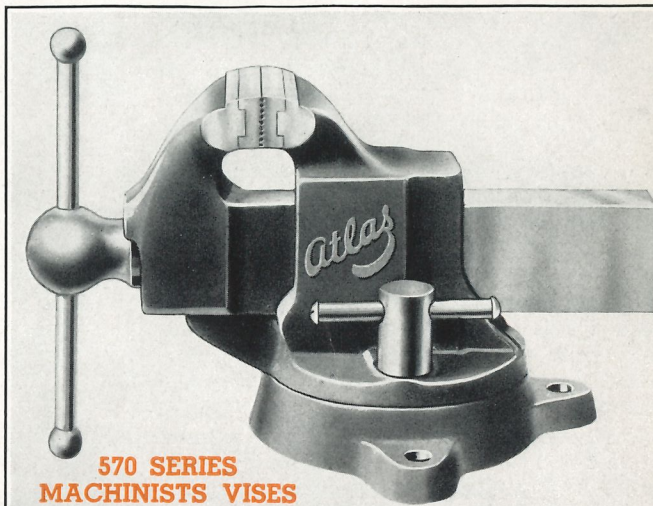
For over 30 years these rugged vises have been earning a reputation for "standing the gaff." Extra weight and scientific design furnish maximum strength—weight has been distributed to the point where it counts most.

Body, base, sliding jaw and beam are tough close-grained Rimcoloy. Replaceable jaws are high-carbon Maxel tool steel, expertly heat treated, machined to a perfect fit and mechanically serrated. Oversized steel screw and screw-head—main nut is malleable iron.

Careful machining of each part assures maximum rigidity and accurate alignment. Beam is rough-milled and finish-milled—hole for beam is accurately broached. Body and jaw castings are accurately machined after assembly. Jaw faces, beam and handle are ground smooth; body and base have durable and attractive finish.

RIMCOLOY CASTINGS

The tough, close-grained castings used in Atlas Vises are made under a secret formula developed and perfected during 30 years of research and practical experience. These superior Rimcoloy castings provide a vise with greater strength and longer life on the job. For many years railroad shops, government departments, and heavy industries have specified these Atlas rugged vises for all types of general shop work.



570 SERIES MACHINISTS VISES

570-SERIES SWIVEL-BASE VISES

Order No.	Jaw Width	Jaw Opens	Weight	Code Word	Price
RI-571	3"	4"	28 lb.	WYOWB	\$11.70
RI-572	3 1/2"	5"	38 lb.	WYOZD	13.50
RI-573	4"	6"	51 lb.	WYPAP	15.30
RI-574	4 1/2"	6 1/2"	74 lb.	WYPIR	18.00
RI-575	5"	7 1/2"	95 lb.	WYPOS	27.00
RI-576	5 1/2"	8 1/2"	122 lb.	WYPPA	34.20
RI-577	6"	10"	147 lb.	WYPSO	46.80

590-SERIES MACHINISTS VISES

STATIONARY BASE

Order No.	Jaw Width	Jaw Opens	Weight	Code Word	Price
RI-591	3"	4"	22 lb.	WYPUT	\$ 9.00
RI-592	3 1/2"	5"	31 lb.	WYRAR	10.10
RI-593	4"	6"	42 lb.	WYRIT	11.50
RI-594	4 1/2"	6 1/2"	62 lb.	WYROV	13.95
RI-595	5"	7 1/2"	77 lb.	WYRRA	18.00
RI-596	5 1/2"	8 1/2"	102 lb.	WYRSE	27.00
RI-597	6"	10"	130 lb.	WYRVO	35.10

ATLAS HEAVY CHIPPING VISES

These heavy duty vises are similar in every detail to the Machinists Vises above but with high carbon steel jaws moulded rigidly into place—added weight and reinforcements give them additional strength necessary for the heaviest kind of mill and back-shop service.

No.	Base	Jaw Width	Jaw Opens	Weight	Code	Price
RI-598	Stationary	7"	12"	218 lb.	WYSAS	\$49.50
RI-567	Stationary	8"	12 1/2"	285 lb.	WYSET	67.50
RI-578	Swivel	7"	12"	248 lb.	WYSIV	63.00
RI-568	Swivel	8 3/8"	14"	345 lb.	WYSSA	94.50

ATLAS COMBINATION PIPE VISES

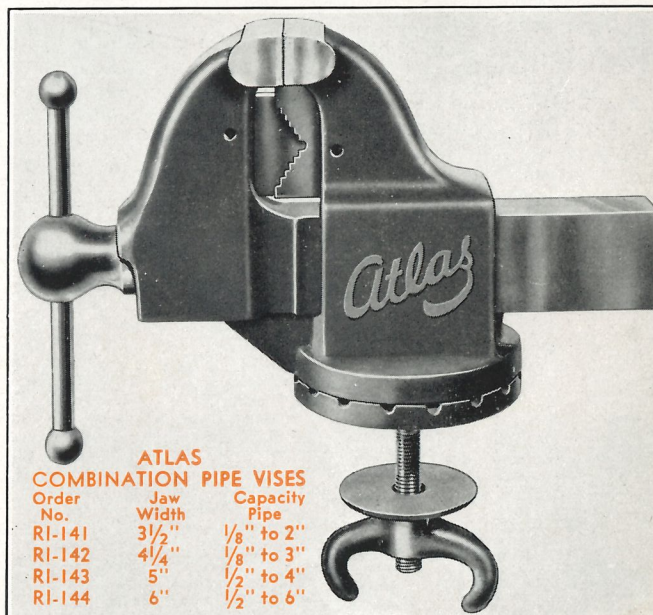
This vise is a general utility tool for all-around shop, pipe work and garage use as well as general vise operations. Novel base construction provides the rigidity of a stationary vise at any of 14 positions.

All castings are Rimcoloy; screw and handle are steel; jaw faces and pipe jaws are crucible tool steel, expertly tempered; nut is malleable iron. Jaw faces of crucible tool steel are moulded rigidly into place and ground to a perfect fit. Rimcoloy beam is rough-milled and finish-milled for perfect alignment—hole for beam is accurately broached. Screw is protected from dirt and chips by apron on jaw casting. Carefully machined throughout—corners and edges are round and smooth.

ATLAS COMBINATION PIPE VISES

Order No.	Code Word	Price	Weight	Pipe-Jaw	
				Single	Double
RI-141	WYSTE	\$15.75	57 lb.	.95	\$1.20
RI-142	WYSUX	21.60	73 lb.	1.20	1.55
RI-143	WYSWO	34.20	116 lb.	1.35	1.90
RI-144	WYTAT	54.00	185 lb.	.90	2.40

Additional Information in Table at right.



ATLAS COMBINATION PIPE VISES

Order No.	Jaw Width	Capacity
RI-141	3 1/2"	1/8" to 2"
RI-142	4 1/4"	1/8" to 3"
RI-143	5"	1/2" to 4"
RI-144	6"	1/2" to 6"

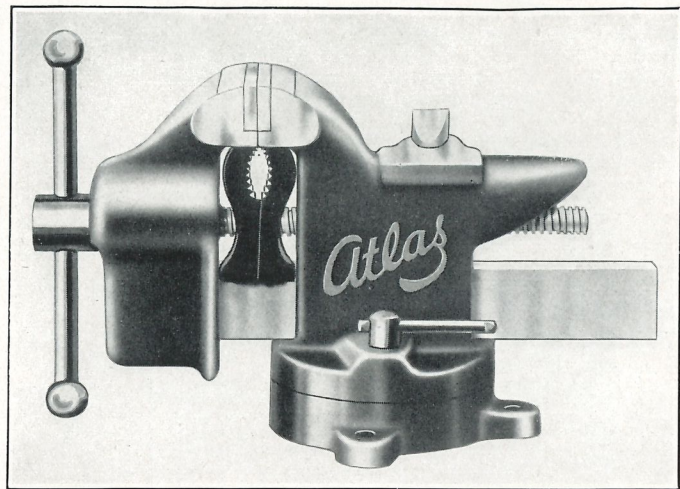
Atlas GENERAL PURPOSE VISES

Atlas General-Purpose Vises handle pipe work, anvil work, and cut-off operations as well as general vise work. These unusually low prices are the result of modern production methods.

A new-type swivel base with 3-point contact permits these vises to be completely rotated and locked rigidly in any desired position. Base is reinforced and ribbed for added strength.

Rimcoloy body and jaw are heavily reinforced—replaceable jaws are hardened steel with serrated faces. Removable pipe jaws are Rimcoloy and take pipe up to 1 1/2" diameter. The cold rolled steel beam has rounded edges and square-cut end. This design provides maximum support when opened to full capacity. Beam and body are fitted by an exclusive process which assures accurate jaw alignment and quick action. Screw is machine-forged steel, very tough and wear-resisting—apron on jaw casting keeps screw clean.

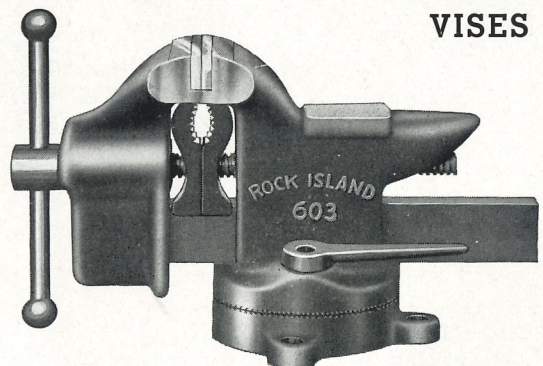
The General-Purpose Vises have anvil backs for forming operations. On Nos. 503A, 504A, 505A, and 523, the machined anvil top has a removable cut-off swivel. The screw head, handles and pad are highly polished and protected with clear lacquer. Pipe jaws are finished in black.



503 SERIES GENERAL PURPOSE VISES

Order No.	Jaw Width	Jaw Opening	Weight	Code Word	Price
RI-503A	3"	3 1/2"	15 lb.	WYTYO	\$2.75
RI-504A	3 1/2"	4"	20 lb.	WYUCH	3.60
RI-505A	4"	4 1/2"	28 lb.	WYUFK	6.00
RI-523	3"	3 1/2"	11 lb.	WYUTZ	2.25

603, 4, 5, GENERAL PURPOSE VISES



These general-purpose vises are exactly the same as the 503A-Series described above with the exception of the swivel base construction. Base can be swivelled and locked securely through 180°.

Rimcoloy body and moving jaw, replaceable jaw inserts, Rimcoloy pipe jaws, steel beam, forged steel screw, and anvil top are described under 503A-Series vises above. Anvil top is carefully machined.

Order No.	Jaw Width	Jaw Opening	Weight	Code Word	Price
RI-603	3"	3 1/2"	15 lb.	WYUHM	\$2.25
RI-604	3 1/2"	4"	20 lb.	WYUJN	3.10
RI-605	4"	4 1/2"	28 lb.	WYUPT	4.00

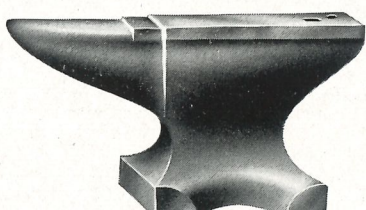
ATLAS RIMCOLOY ANVILS

Tough, close-grained Rimcoloy castings make the Atlas anvil hard and rugged—an essential tool for any shop. Nos. RI-50A, RI-70A, and RI-100A (right) are general-purpose tools for farm, garage and light anvil work—No. RI-8A (left) is an 8-pound anvil for household jobs.

Order No.	Weight	Code Word	Price
RI-100A	100 lb.	WYTEV	\$7.75
RI-70A	70 lb.	WYTOY	5.50
RI-50A	50 lb.	WYTUZ	4.00
RI-8A	8 lb.	WYTYE	1.40



No. RI-8A



No. RI-50A

Atlas General Purpose Vises — Sturdy Utility Tools for Any Type of Shop

Make Yours an Atlas Shop — Your Dealer Has Complete Information on All Atlas Shop Equipment

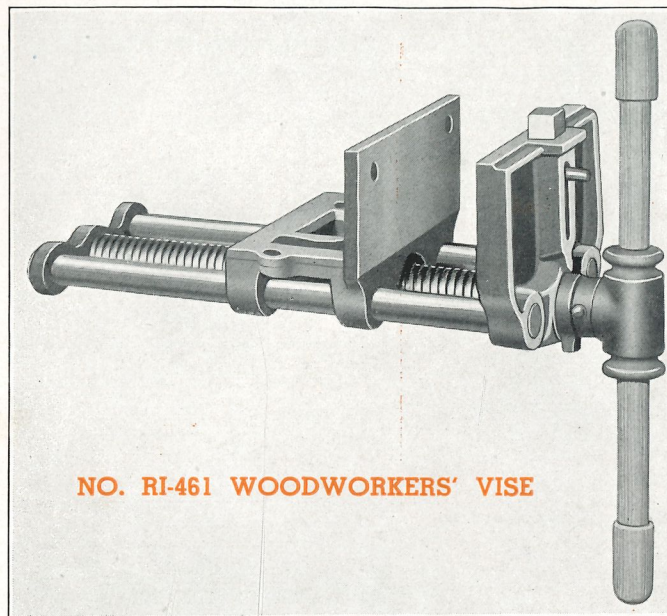
Atlas WOODWORKERS VISES

NOS. 461 AND 465 ATLAS VISES

The Nos. 461, 465 and 265 Quick-Acting Woodworkers Vises handle every vise requirement of the commercial woodworking shop, manual training or trade school shop. Sturdy, simple construction with the minimum of working parts assures long, efficient service. Furnished with adjustable lug to hold wide flat work on the top of the bench. Rimcoloy castings with steel screw and slide rod; malleable nut and wood handle. Nos. 461 and 465 are designed for heavy duty vise work.

ATLAS NO. 461 WOODWORKERS VISES

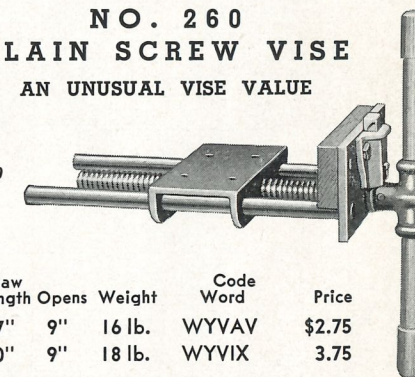
Order No.	Jaw Length	Jaw Width	Opens	Weight	Code Word	Price
RI-461	7"	4"	9"	28 lb.	WYUVB	\$6.65
RI-465	10"	4"	12"	33 lb.	WYUXD	7.85



NO. RI-461 WOODWORKERS' VISE

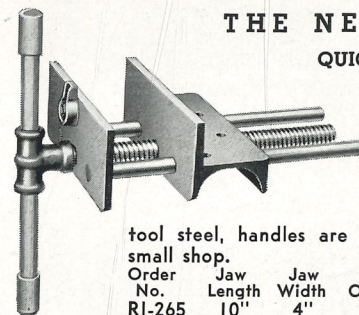
NO. 260 PLAIN SCREW VISE AN UNUSUAL VISE VALUE

No. RI-260



Order No.	Jaw Length	Opens	Weight	Code Word	Price
RI-260	7"	9"	16 lb.	WYVAV	\$2.75
RI-261	10"	9"	18 lb.	WYVIX	3.75

THE NEW NO. 265 VISE QUICK-ACTING LUG-EQUIPPED MODERN DESIGN



The No. 265 has steel sliding jaw — jaws are smooth ground on faces, top and sides. Nut is heat treated tool steel, handles are hickory. The ideal vise for the small shop.

Order No.	Jaw Length	Jaw Width	Opens	Weight	Code Word	Price
RI-265	10"	4"	10"	21 lb.	WYVOZ	\$5.35

NORTON OILSTONES

These oilstones, made from Norton Alundum Abrasive, are famous for their fast-cutting speed and toughness. They are not only the best all around oilstone, but the most economical. Each stone is factory-saturated with oil, insuring a moist, oily surface which is maintained by occasional oiling.

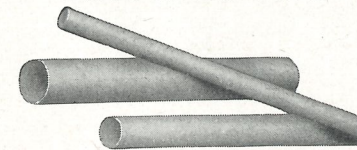
INDIA BENCH STONES



Superior for all metal cutting and wood-working tools. Will cut metals on which most files slip.

Nos.	Size, inches	Grit	Wt.	Code Word	Each
FB124	4x1 3/4x1/2	Fine	2 1/4 lb.	WYEZB	\$.85
MB124	4x1 3/4x1/2	Medium	2 1/4 lb.	WYFAP	\$.85
FB35	5x2 3/8	Fine	4 lb.	WYFEG	1.00
MB35	5x2 3/8	Medium	4 lb.	WYFFA	1.00
FB6	6x2x1	Fine	7 1/4 lb.	WYFGE	1.35
MB6	6x2x1	Medium	7 1/4 lb.	WYFJO	1.35
FB8	8x2x1	Fine	10 lb.	WYFOJ	1.70
MB8	8x2x1	Medium	10 lb.	WYGAG	1.70

INDIA ROUND FILES



Used for lapping round holes, oilstoning dies, cleaning moulds and sharpening curved cutting edges.

Nos.	Size, inches	Grit	Code Word	Price
FF224	4x5/16	Fine	WYGIJ	\$.75
MF224	4x5/16	Medium	WYGKO	.75
FF244	4x1/2	Fine	WYGOK	.75
MF244	4x1/2	Medium	WYGUL	.75

INDIA REAMER STONES



Useful for oilstoning reamers, taps and many other tools.

Nos.	Size, inches	Grit	Code Word	Price
FT123	3/2x3/4x3/16	Fine	WYHLO	\$.60
MT123	3/2x3/4x3/16	Medium	WYHOL	.60

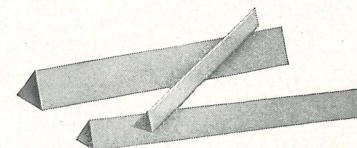
INDIA POINTS



A convenient shape for oilstoning odd-shaped tools and dies. Wt. 2 oz.

Nos.	Size, inches	Grit	Code Word	Price
FF723	3x5/16 Base	Fine	WYHUM	\$1.00
MF723	3x5/16 Base	Medium	WYIBD	1.00

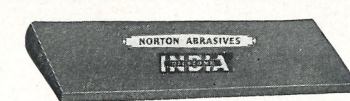
INDIA TRIANGULAR FILES



Useful for lapping, oilstoning and sharpening many different kinds of tools and dies.

Nos.	Size, inches	Grit	Code Word	Price
FF124	4x5/16	Fine	WYHAA	\$.65
MF124	4x5/16	Medium	WYHHA	.65
FF144	4x1/2	Fine	WYHIK	.65
MF144	4x1/2	Medium	WYHJE	.65

INDIA ROUND EDGE SLIPS



For shaping cutters, wood turning chisels and other tools with curved edges.

Nos.	Size, inches	Grit	Code Word	Price
FS34	4 1/2 x 1 3/4 x 3 1/8	Fine	WYGGG	\$.75
MS34	4 1/2 x 1 3/4 x 3 1/8	Medium	WYGHE	.75

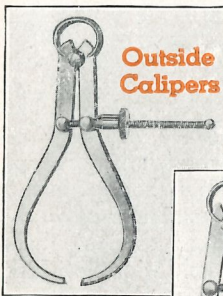


PIKE OIL

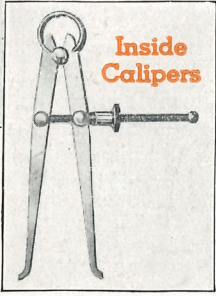
Prevents glazing of oilstones by floating the particles of steel removed from a tool while being sharpened. Free from acid, non-gumming and non-drying.

No.	Size	Code Word	Each
XB1	3 oz. can	WYICF	\$.40

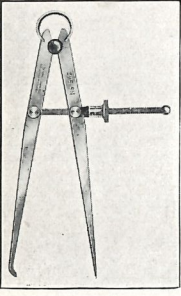
Atlas MACHINISTS TOOLS



Outside Calipers
 3" CAPACITY
 No. MF501 \$1.00
 Code Word WYBFO
 5" CAPACITY
 No. MF503 \$1.20
 Code Word WYBID
 Wt.—6 oz.

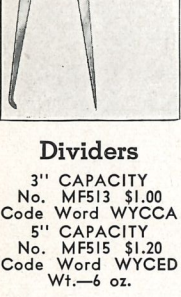


Inside Calipers
 3" CAPACITY
 No. MF507 \$1.00
 Code Word WYBOF
 5" CAPACITY
 No. MF509 \$1.20
 Code Word WYBUG
 Wt.—6 oz.



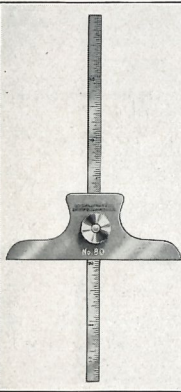
Hermaphrodite Caliper

5" CAPACITY
 No. MF542 \$1.20
 Code Word WYCAC
 Wt.—6 oz.



Dividers

3" CAPACITY
 No. MF513 \$1.00
 Code Word WYCCA
 5" CAPACITY
 No. MF515 \$1.20
 Code Word WYCED
 Wt.—6 oz.



Rule Depth Gauge

For determining the depth of holes and slots, the height of shoulders and many other uses. The 6-inch blade, ordinarily at right angles to the accurately milled base, can also be set at an angle. 30, 45 and 60 degree angles are marked. Rule graduated in 16ths and 32nds.

No. MF80...\$2.25
 Code WYCOG, wt. 10 oz.
 Rule 6", Base 3".

Shop Level

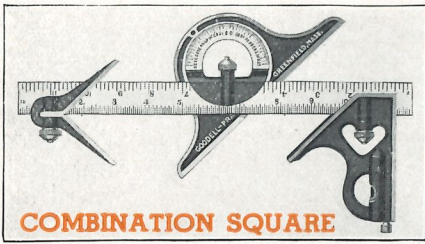
Ideal for leveling the lathe. Frame is accurately ground top and bottom—edges carefully polished. Vials protected from breakage. V-groove in base for round surfaces. Length 6".

No. MF505Y...\$2.50
 Code WUYUT, wt. 12 oz.

CENTER GAUGE

For setting 60° threading tool at right angle to work—edges graduated in threads per inch.

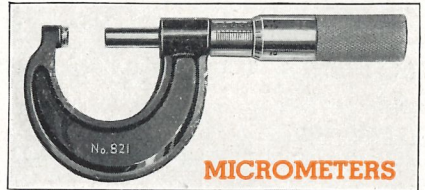
No. MF438, Code WYCIF, \$.55. Wt. 2 oz.



COMBINATION SQUARE

The most useful of all machinists' precision tools. The finely finished steel blades are accurately graduated and clearly etched. The beam or mitre head is equipped with a level and scriber. All working faces are precision ground and the balance finished in black enamel. The protractor is graduated 90 degrees on both sides of 0. The center head, protractor, and beam all slide along the blade and are set at any desired point by tightening the binder nut. Any or all of them can be entirely removed if desired. The steel blade is graduated in 8ths, 16ths, 32nds and 64ths.

With Blade, Beam, Protractor and Center Head
 No. Length, Blade Code Wt. Price
 MF390 9" WUYLJ 1 1/2 lb. \$6.50
 MF391 12" WUYMK 1 1/2 lb. 7.25
 With Blade, Beam and Center Head
 MF362 9" WUYOS 1 lb. \$3.50
 MF363 12" WUYPA 1 lb. 4.00
 Protractor Head only
 No. MF180 Code WUYSO, wt. 10 oz., \$3.50

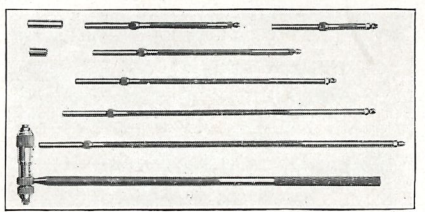


MICROMETERS

The accuracy of these micrometers is guaranteed. They measure by 1/1000ths of an inch. Anvil, spindle, barrel, and thimble beautifully polished. Frame black enameled. Quick, positive adjustment for wear provided.

No. Capacity Code Word Price
 MF821 0 to 1" WUYUY \$6.50
 MF822 1" to 2" WUZER 7.25
 MF21R 2" to 3" WUZRE 11.75
 MF22R 3" to 4" WUZTO 12.50

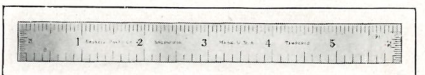
INSIDE MICROMETER



This micrometer takes inside measurements by 1/1000ths of an inch—lead screw has 1/2 inch run. It is equipped with two collars and seven rods giving it a range of 2 to 12 1/2 inches. The barrel has two sets of graduations making direct reading possible whether collars are in use or not.

No. Capacity Code Wt. Price
 MF1218 2" to 12 1/2" WYCUH 10 oz. \$9.50

LIGHT TEMPERED RULES



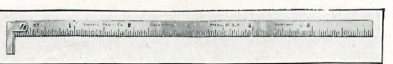
The heat treated steel of which these rules are made has a beautiful satin finish that makes the precision-etched graduations and figures easily readable. 4 graduated edges in 8ths, 16ths, 32nds and 64ths. MF213 is also end graduated. Wt. 4 oz.

No. Length Width Thickness Code Price
 MF213 6" 1 1/2" 1/20" WUZUV \$1.00
 MF215 12" 1 1/2" 1/16" WUZUY 1.90
 MF216 18" 1 1/2" 1/16" WUYAXY 3.00

FLEXIBLE STEEL RULE

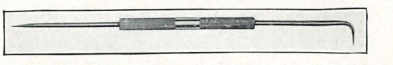
Made in thin crucible steel. Graduated one side, two edges in 16ths and 32nds. Length 6", width 5/8", 1/100" thick.
 No. MF106, Code WYBBA, \$.55, wt. 4 oz.

NARROW HOOK RULE

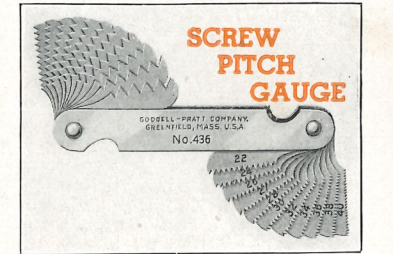


Similar to No. MF966 but with a narrow rule graduated on two edges only in 32nds and 64ths. Length 6", width 3/8", thickness 1/20".
 No. MF771, Code WYBAB, \$1.40, wt. 4 oz.

SCRIBERS



Fitted with keen tempered points for marking on metals. Knurled body affords good grip for precision work. Made in two lengths.
 Length Code Word Price
 No. MF615 6 1/2" WYBCE \$.50
 No. MF62 9" WYBEC .60
 Weight—4 oz.

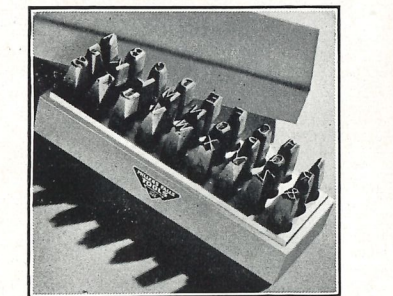


SCREW PITCH GAUGE

By comparing the pitches on the leaves of this gauge, by contact, the pitch of a V-thread screw or nut is quickly and positively determined. There are thirty leaves with the following pitches: 4, 4 1/2, 5, 5 1/2, 6, 7, 8, 9, 10, 11 1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40 and 42 teeth per inch. Leaves fold into case.

No. Length Code Price
 Leaves Leaves Word
 MF-436 30 1 1/4" WYCGO \$1.45
 Wt.—6 oz.

STEEL LETTERS and FIGURES



SETS OF LETTERS
 No. Character Code Price
 MF1500-1 1/8" high WYDAD \$4.00
 MF1500-2 1/4" high WYDDA 6.00
 Wt. per set 3 lb.

SETS OF FIGURES
 No. Character Code Price
 MF1550-1 1/8" high WYDEF \$1.50
 MF1550-2 1/4" high WYDFE 2.50
 MF1550-3 3/8" high WYDHO 3.50

12-Pc. Chisel and Punch Set

The set consists of 12 tools forged from fine quality steel about 5" long—1/8" and 1/4" cape chisels; 1/4", 3/8" and 1/2" cold chisels; 5/32" square chisel, 5/32" point chisel, 1/8" round nose cape chisel, 5/32" solid punch, 5/32" cup punch, 3/8" prick punch, 3/8" center punches and punches are not sold separately.
 12 PC. SET Complete
 No. MF470...\$3.50
 Code WYDIG, wt. 2 1/2 lb.



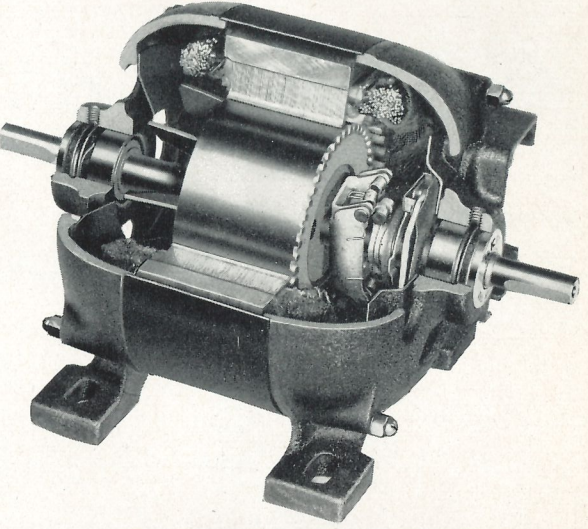
Every Experienced Machinist Insists on
 Precision Tools for Checking Each Operation
 It's Better to Buy a Dependable Atlas Motor! Modern
 Construction Features Mean Cool, Quiet, Economical Power

Atlas HEAVY DUTY MOTORS

Atlas Motors were designed and built to meet the rigid specifications demanded by Atlas Engineers. The cutaway view at the right shows some of the modern construction features of Atlas Motors which provide exceptional power, smooth cool operation, long quiet service, and low power cost.

Notice well-insulated windings, provision for ventilation, precision-balanced rotor. Carefully designed centrifugal starting switch with silver contact points, and torsion spring tension. Shaft is accurately ground on centers. High-grade SKF bearings are supplied on ball-bearing motors—sleeve bearing motors have heavy phosphor-bronze bearings.

Before shipment Atlas Motors must pass rigid factory tests for full-rated horsepower, electrical characteristics and satisfactory mechanical condition. No expense is spared to supply a truly superior, modern motor.



SINGLE PHASE MOTORS

BALL BEARING MOTORS: Motors below have SKF ball bearings, double-end shaft, built-in switch, 10 ft. SJ approved extension cord and plug. Operate in any position, horizontal, vertical, or inverted. When drill press motor is mounted vertically a ball bearing motor must be used. No. 2580 is designed for use with the Atlas Disc Sander (page 12) and similar applications.

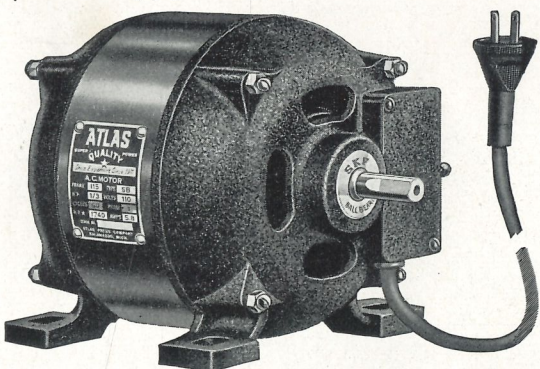
No.	HP	Wt.	RPM	Code	Price
2480	1/3	28 lb.	1740	WYJL	\$13.75
2490	1/2	35 lb.	1740	WYJLN	17.25
2580	1/4	26 lb.	3450	WYJMO	15.85

All of these motors are 110 volt, 60 cycle—have double-end shaft.

BRONZE BEARING MOTORS: Nos. 2460 and 2485 have heavy phosphor-bronze bearings, single shaft extension, 10 ft. SJ approved extension cord and plug—cannot be used in a vertical position. No. 2485 is an excellent general purpose motor—No. 2460 is satisfactory for light-duty work with wood or metal.

No.	HP	Wt.	RPM	Code	Price
2460	1/4	26 lb.	1740	WYJRT	\$10.25
2485	1/3	28 lb.	1740	WYJAJ	12.15

These motors are 110 volt, 60 cycle.



No. 2470 Single Phase Motor (Not Pictured)

An unusual value in a low-price motor. A general-purpose bronze-bearing motor for light-duty applications. Recommended for Atlas 612 and 618 Lathes, page 13.
 No. H.P. Wt. R.P.M. Code Price
 2470 1/4 21 lb. 1740 WYORY \$8.50
 110 Volt, 60 Cycle, Single End Shaft.
 Furnished without switch, cord, and plug.

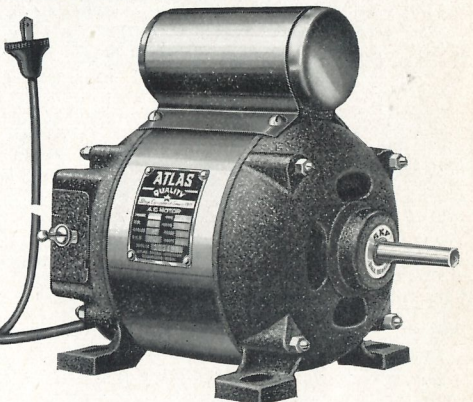
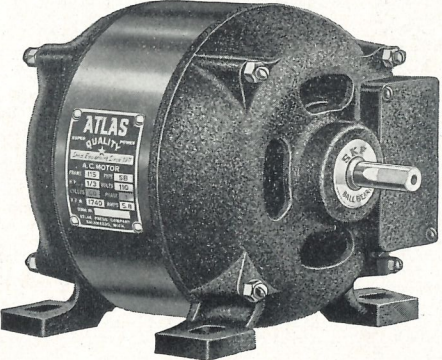
CAPACITOR START MOTORS

The four Atlas Capacitor-Start Motors are built especially for the tough job. They have high starting and pull-out torque, developing full power instantly under load without dimming, flickering of lights or drawing excess current.

The capacitor-start motor performs the same function as a repulsion-induction motor with lower initial and operating costs—ideal for all small machine tools and other applications such as pumps, refrigerators and air compressors.

No.	HP	RPM	Weight	Code	Price
2510	1/4	1740	31 lb.	WYJEK	\$16.40
2520	1/3	1740	33 lb.	WYJIL	19.20
2530	1/2	1740	40 lb.	WYJJA	22.00
2540	1/2	3450	35 lb.	WYJKE	24.75

All above motors are 110 volt, 60 cycle. Have large SKF ball bearings, built-in switch, 10 ft. SJ approved extension cord and plug—may be operated in any position. Nos. 2520, 2530, and 2540 have double-end shaft.



THREE PHASE MOTORS

Nos. 2630 and 2620 are designed for use with three-phase current. Both motors are 220 volt, 60 cycle—have large SKF ball bearings, double-end shaft. Furnished with BX connector in terminal box—do not have switch, cord, or plug.

No.	HP	RPM	Wt.	Code	Price
2630	1/3	1740	28 lb.	WYKAK	\$23.95
2620	1/2	1740	35 lb.	WYKEL	27.25

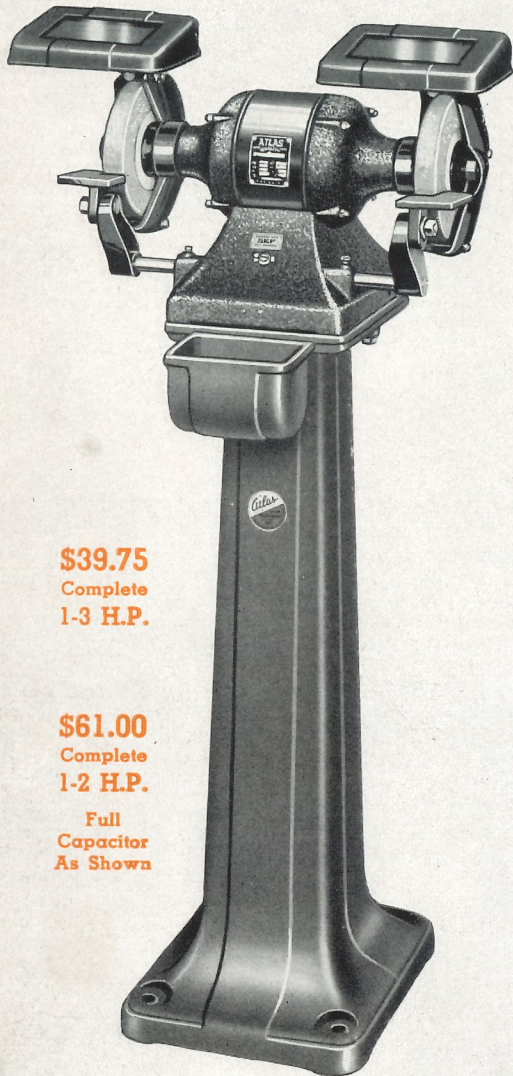
Atlas HEAVY DUTY GRINDERS

WITH 3450 RPM BALL BEARING MOTOR

"The Workhorse of the Shop"—rugged, powerful, fast and smooth in operation, the new Atlas grinders have set new standards of grinder values.

The Atlas grinders meet every need of the modern shop. They are built around a completely enclosed 3450 RPM, cool running ball bearing motor with precision-balanced rotor which assures perfectly smooth operation. Oversize SKF ball bearings in spindle are sealed against wheel dust—see other motor features on page 27. The right wheel is used for rougher grades of work and the left for smooth finishing. Adjustable work rests and wheel guards assure safety at all times.

Equipped with eyeshields and floor pedestal as shown at the left, the Atlas Grinder makes a rugged, sturdy floor-model grinder. Floor pedestal and safety eye-shields may be purchased separately—details below. For drill grinding, an Atlas grinder with the No. W30 Drill Grinding Attachment makes an ideal tool—see page 16.



\$39.75
Complete
1-3 H.P.

\$61.00
Complete
1-2 H.P.
Full
Capacitor
As Shown



\$24.00
1/3 H.P.
As Shown

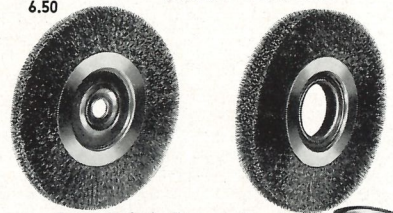
\$39.75
1/2 H.P.
Full
Capacitor

ATLAS HEAVY DUTY GRINDERS

No.	Model	H.P.	Diam. Wheel	Diam. Shaft	Motor	Wt. lbs.	Code	Price
2500	Bench	1/3	6"	1/2"	1 Phase—110 volt	50	WYLEM	\$24.00
2570	Bench	1/2	7"	5/8"	Capacitor—110 volt	95	WYLLA	39.75
W37A	Floor*	1/3	6"	1/2"	1 Phase—110 volt	150	WYLME	44.25
W37B	Floor*	1/2	7"	5/8"	Capacitor—110 volt	200	WYLOP	61.00
2575	Bench	1/2	7"	5/8"	3 Phase—220 volt	95	WYMMMA	43.75
W37C	Floor*	1/2	7"	5/8"	3 Phase—220 volt	200	WYMNE	65.00

* Floor models include pedestal, grinder table, water pot, and safety eyeshields. Motors are 3450 RPM, 60 cycle, and have SKF ball bearing shaft. 1 Phase and capacitor motors have built-in switch, 10 ft. SJ approved extension cord and plug. 3 Phase motors have BX connector in terminal box.

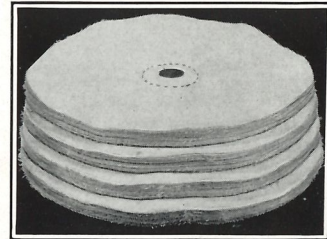
WIRE BRUSHES AND BRUSH SECTIONS



For rough buffing and cleaning. 6" diameter.

No.	Thick.	For	Code	Price
W57A	3/8"	1/2 HP Coarse	WYKKA	\$.60
W57B	3/8"	1/2 HP Coarse	WYKLE	.60
W57C	3/8"	1/2 HP Fine	WYKNO	.75
W57D	3/8"	1/2 HP Fine	WYKON	.75

3 of any above sections can be mounted at once.
W-58A 3/4" 1/2 HP 2 lb. WYKUP 2.25
W-58B 3/4" 1/2 HP 2 lb. WYLAL 2.25
Above 2 brushes are complete wheels.



BUFFING WHEELS

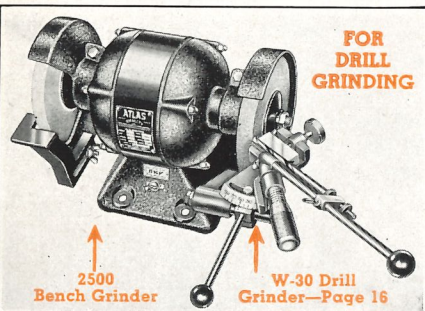
For light cleaning and high-finish work. Mounted with collars furnished with Atlas Grinders. 4 to a wheel.
No. Sect's Diam. Thick. Code Price
W60 1 6" 3/16" WYWYE \$.30
W60A 4 6" 3/4" WYZAZ 1.20
W61 1 7" 7/32" WYZBE .40
W61A 4 7" 7/8" WYZDO 1.60
W60A and W61A are complete wheels.

THE ATLAS FLOOR PEDESTAL provides a sturdy, rigid grinder mounting. Heavy grey iron casting with weight scientifically distributed to assure rigidity during grinding operation. Can be used with any Atlas bench grinder.

No.	For	Code Word	Price
W37-1A	1/3 HP Grinders	WYLPO	\$13.75
W37-1B	1/2 HP Grinders	WYMM	14.75

ATLAS SAFETY EYESHIELDS are mounted directly on the wheel guard and protect operator's vision at all times—special shatterproof glass.

No.	For	Wt. per pair	Code Word	Price per pair
W37-5A	1/3 HP Grinders	5 lb.	WYMEN	\$6.50
W37-5B	1/2 HP Grinders	5 lb.	WYMIP	6.50



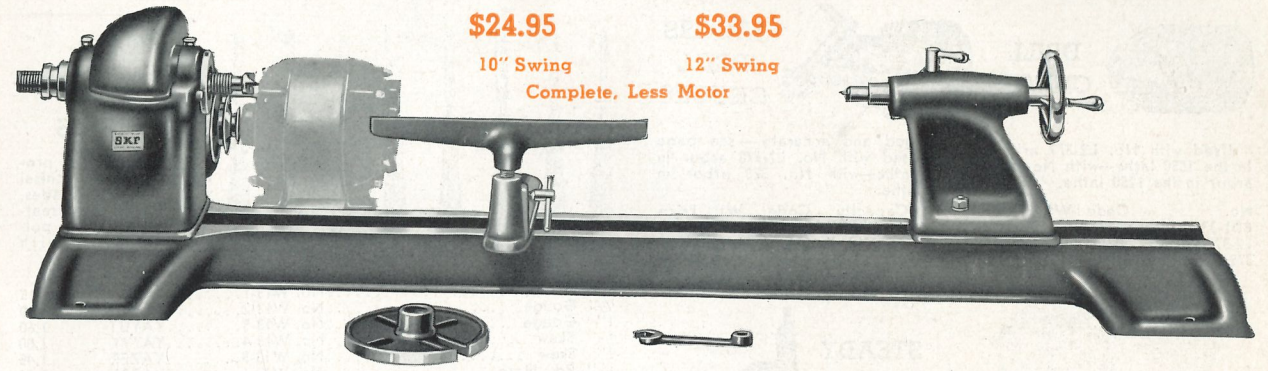
FOR DRILL GRINDING

2500 Bench Grinder W-30 Drill Grinder—Page 16

Atlas Furnishes What Every Modern Shop Requires — Grinders with Strength, Speed, and Power, Day in Day out

Atlas Wood Lathes Have Heavy Braced Bed and Headstock Castings for Longer Service Life — SKF Ball Bearing Spindle for High Speeds and Accuracy

Atlas BALL BEARING WOOD LATHES



\$24.95

10" Swing

\$33.95

12" Swing

Complete, Less Motor

Atlas Wood Lathes are built to handle all woodworking operations with speed and accuracy. Headstock is heavy, accurately machined grey iron casting. Spindle is carried between 2 high-speed deep-grooved SKF ball bearings. Spindle is hollow and both ends are threaded. Iron safety shield covers pulley. Bed is heavy well-seasoned semi-steel iron, accurately milled and polished to insure positive alignment of headstock and tailstock—has heavy cross braces every 5 inches. Ways are cast integral with bed. Heavy-duty tailstock has self-ejecting center. 60-hole indexing mechanism in pulley.

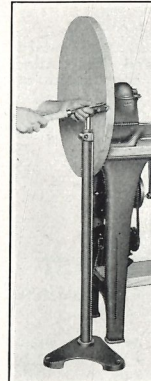
Speed range includes proper speeds for all woodworking operations from heavy roughing cuts to light finishing and sanding. W-19 Floor Stand, below, or L2-675 Jackshaft, page 30, provides 4 additional speeds between 204 and 4000 RPM equipping these lathes to handle light metal work as well as woodworking.

FURNISHED: Hand Tool Rest with Mounting Bracket, 5/4" Face Plate, Spur and Cup Centers, Spindle and Motor Pulleys, Belt, Wrench, Operating Instructions.

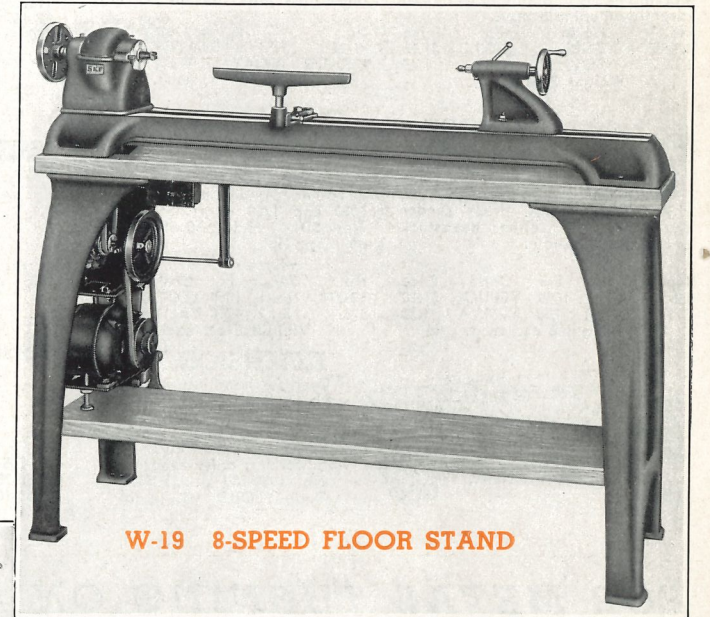
OUTBOARD TURNING

The Atlas wood lathes are ideal for turning large diameters on the left end of the headstock spindle. The superior Atlas bearing construction provides rugged strength and insures accuracy at high speeds. The double-end spindle is threaded at both ends to take the face plate.

The Atlas No. W-16 Floor Stand (left) is built with the extra weight necessary to provide a sturdy support for the tool rest. The tool rest may be quickly adjusted and firmly clamped at any height between 40" and 45". The No. W-16 floor stand complete with 12" tool rest and wrench—Code Word YAYIR—\$8.50—wt. 35 lb.



	No. 1250	No. 1050
Swing over Bed	12"	10"
Length of Bed	50"	50"
Capacity between Centers	36"	37"
Morse Taper Centers both spindles	No. 2	No. 1
Hole through Spindle	9/16"	3/8"
Spindle Nose Threads	1" - 8	3/4" - 16
Tailstock Ram Travel	2 3/4"	1 3/4"
4 Spindle Speeds between	650 and 4300 RPM	750 and 4000 RPM
Weight	115 lb.	100 lb.
Price less motor	\$33.95	\$24.95
Code Word	YAYGD	YAYAP



W-19 8-SPEED FLOOR STAND

FLOOR STANDS

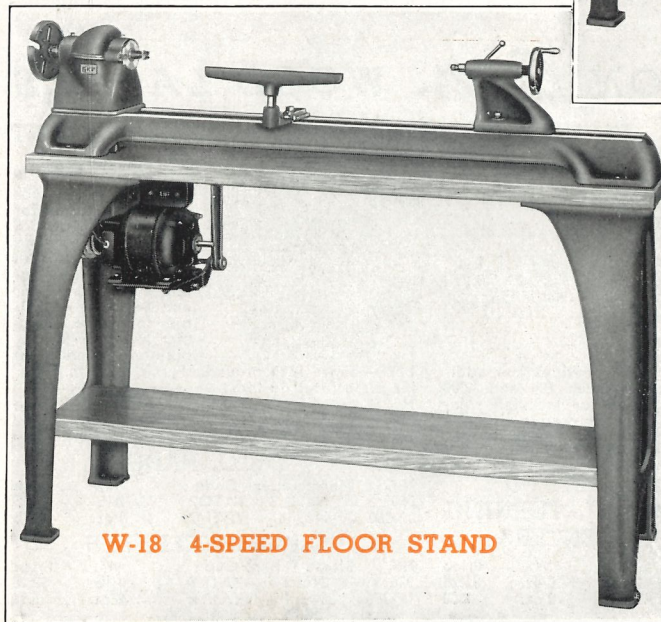
Atlas Floor Stands provide a convenient, space-saving mounting and keep lathe rigid and level. On-off switch is mounted near headstock end of Nos. W-18 and W-19. Jackshaft hanger and motor base of W-18 have full-floating action assuring correct belt tension. W-19 has full-floating hanger and semi-floating motor base.

W-19 8-SPEED STAND (Above)

No. W-19 8-Speed Lathe Stand (including Legs, Top, Shelf, Jackshaft, and Hanger, Motor Base, Switch, and Cord), Wt. 180 lb., Code Word YAYOS...\$34.75

W-18 4-SPEED STAND (Left)

No. W-18 4-Speed Lathe Stand (including Legs, Top, Shelf, Motor Base, and Hanger, Switch, Cord, and Bolts), Wt. 170 lb., Code Word YAYLJ.....\$26.75
No. W-17 Lathe Stand Only (including Legs, Top, Shelf, and Bolts), Wt. 160 lb., Code Word YAYMK\$20.00



W-18 4-SPEED FLOOR STAND

Arbor Presses .12, 20-22
Drill Presses .15-19
Lathes, Metal .5-14
Lathes, Woodworking .29-30
Shaper .3-4

S Sander, disc .12
 Sander, drill press .18
 Saws, undercutting .10
 Screw center, 9 and 10-inch metal lathes .12
 Screw center, 6-inch metal lathes .14
 Screw centers, wood lathes .30
 Screw extractors .19
 Screw pitch gauge .26
 Scribers .26
SHAPER, NEW .3-4
 Shaper floor stand .3-4
 Shaper tool holder .3
 Shaping attachment, drill press .18
 Shaping cutters, drill press .18
 Sleeve socket, drill press .19
SMALL LATHES, NEW .13
 Sockets, Morse taper, drill press .19
 Speed attachment, for drill presses .18
 Split collets .9
 Spur bits, drill press .19
 Spur center, 9 and 10-inch metal lathes .12
 Spur center, 6-inch metal lathes .14
 Spur centers, wood lathes .30
 Steady rest, 9 and 10-inch metal lathes .11
 Steady rest, 6-inch metal lathes .14
 Steady rest, wood lathes .30
 Steel bars in packages .12

T Table boards, 9 and 10-inch metal lathes .9
 Taper attachments, 9 and 10-inch lathes .9
 Tapping attachments, drill press .16
 Threading attachment, metric, 9" and 10" lathes .6
 Threading dial, unit-plan .7
 Threading gears and chart, unit-plan .7
 Threading tool, 9 and 10-inch metal lathes .11
 Threading tool, 6-inch metal lathes .14
TIMKEN BEARINGS, 10-INCH METAL LATHES .9
 Tool bits, 3/4" .11
 Tool bits, 3/16" .14
 Tool holder, for shaper .3
 Tool holders, 9 and 10-inch metal lathes .11
 Tool holders, 6-inch metal lathes .14
 Tool post grinder, 9 and 10-inch metal lathes .10
 Tool-post tools, 9 and 10-inch metal lathes .11
 Tool-post tools, 6-inch metal lathes .14
 Tool rests, wood lathes .30
TOOLS, MACHINISTS .26
 Turret attachments, 9 and 10-inch wood lathes .9

U Undercutter, 9 and 10-inch metal lathes .9
 Undercutter, 6-inch metal lathes .14
 Undercutting saws .10
 Unit assemblies .7
UNIT PLAN LATHES .7
 Universal chucks, 9 and 10-inch metal lathes .11
 Universal chucks, 6-inch metal lathes .14
UTILITY BENCH LATHES, METAL .8

V Valve stem grinding attachment, 9 and 10-inch metal lathes .10
 Vise, drill press .18
 Vises, combination pipe .23
 Vises, general purpose .24
 Vises, heavy chipping .23
VISES, MACHINISTS .23
 Vises, woodworkers .25

W Wheels, buffing .28
 Wheels, drill grinding .16
 Wire brushes and sections .28
WOOD LATHES .29
 Woodruff keyway cutters, 9" and 10" metal lathes .10
 Woodworkers vises .25
 Woodworking attachments 9" and 10" metal lathes .12
 Woodworking attachments, 6-inch metal lathes .14
 Work arbor, wood lathes .30
 Workhead, hydraulic presses .20

Atlas WOOD LATHE ATTACHMENTS



DRILL CHUCK
 Used with No. L2-379 arbor in the 1050 lathe—with No. 379 arbor in the 1250 lathe.

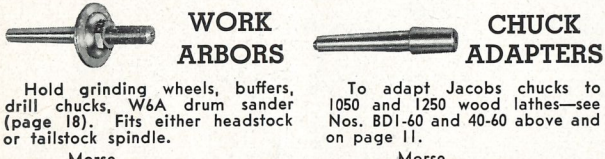
JACOBS DRILL CHUCKS
 Rugged and accurate—see page 11. Used with No. L2-378 arbor in 1050 lathe—with No. 378 arbor in 1250 lathe.

No.	Capacity	Code	Wt.	Price
B1-33	1/16"-1/2"	YAEHZ	2 lb.	\$5.75
L2-379	0"-1/2"	YAHIB	2 lb.	6.75
379 Arbor		YAHYA	8 oz.	1.00
		YECOC	8 oz.	1.00



STEADY RESTS
 Holds long work firmly in position for accurate turning. Clamps quickly and securely to lathe bed—sturdy construction throughout—brass jaws prevent scoring.

No.	Code	For Cap'y	Price
No. L3-365	YECCO	1050	\$4.00
		1250	1.45
		1250	3.90



WORK ARBORS
 Hold grinding wheels, buffers, drill chucks, W&A drum sander (page 18). Fits either headstock or tailstock spindle.

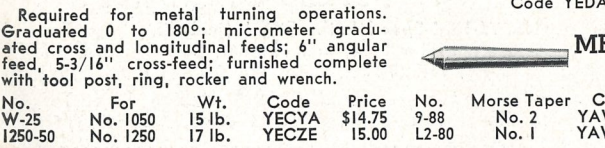
CHUCK ADAPTERS
 To adapt Jacobs chucks to 1050 and 1250 wood lathes—see Nos. BDI-60 and 40-60 above and on page 11.

No.	Morse Taper	For	Code	Price
L2-379	No. 1	1050	YEBUC	\$1.10
379	No. 2	1250	YEBWA	1.30



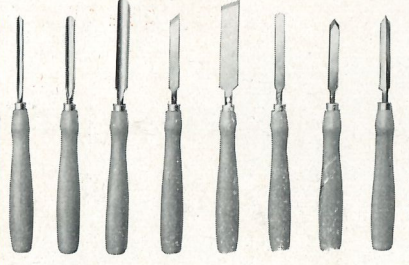
EXTENSION BED
 Used for handling extra long work on the 1050 and 1250 Atlas lathes. Machined and finished to the same specifications as the lathe bed—for woodworking only. Length 18".

No.	Code	Price
No. 1050-100	YECUD	\$3.75
		1.45



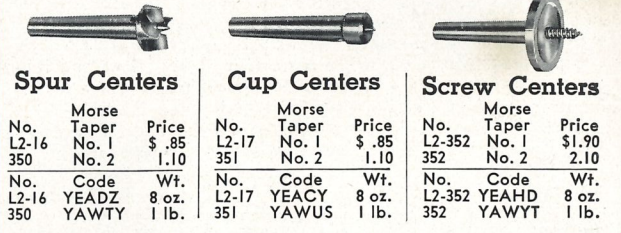
COMPOUND REST
 Required for metal turning operations. Graduated 0 to 180°; micrometer graduated cross and longitudinal feeds; 6" angular feed, 5-3/16" cross-feed; furnished complete with tool post, ring, rocker and wrench.

No.	For	Wt.	Code	Price
W-25	No. 1050	15 lb.	YECYA	\$14.75
1250-50	No. 1250	17 lb.	YECZE	15.00

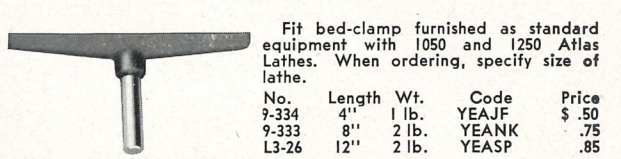


WOOD-TURNING CHISELS
 Atlas supplies a professional type chisel with tool-steel blades, scientifically heat treated. Handles are polished maple with strong brass ferrules.

Size	Code	Price
1/4" Gouge	No. W13-1	YAYPA \$1.15
1/2" Gouge	No. W13-2	YAYSO 1.20
3/4" Gouge	No. W13-3	YAYUT 1.60
1" Skew	No. W13-4	YAYVY 1.00
1 1/2" Skew	No. W13-5	YAZER 1.45
1 1/2" Rd. Nose	No. W13-6	YAZRE 1.00
1 1/2" Spear Pt.	No. W13-7	YAZTO 1.00
1 1/2" Parting	No. W13-8	YAZUV 1.10



SET OF ABOVE (8 TOOLS), NO. W13A, WT. 6 LB., Code YAZWY, \$8.50



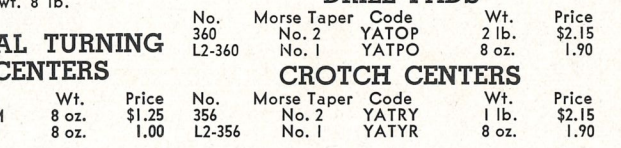
TEE RESTS
 Fit bed-clamp furnished as standard equipment with 1050 and 1250 Atlas Lathes. When ordering, specify size of lathe.

No.	Length	Wt.	Code	Price
9-334	4"	1 lb.	YEAJF	\$5.50
9-333	8"	2 lb.	YEANK	.75
L3-26	12"	2 lb.	YEASP	.85



HAND TOOL REST
 Furnished complete with bed-clamps.

No.	Length	For	Code	Wt.	Price
L2-75	18"	No. 1050	YEAWS	7 lb.	\$2.60
L2-105	24"	No. 1050	YEAXT	9 lb.	3.75
1250-75	18"	No. 1250	YEBBO	7 lb.	2.60
1250-105	24"	No. 1250	YEBIZ	9 lb.	3.75



JACKSHAFT ASSEMBLY
 The No. L2-675 jackshaft provides four additional spindle speeds between 204 and 4000 RPM. Motor pulley mounts on jackshaft spindle and is replaced with two-step pulley furnished. For 1050 or 1250 wood lathes.

No.	Code	Price
No. L2-675	YEDAŽ	\$6.75

INDEPENDENT CHUCK
 A sturdy 4-jaw chuck accurately built for work with all shapes of material. Note hand-fitted jaws with deep shoulders for full, firm inside or outside grip, reversible for large diameter work. Rigidly designed semi-steel adapter plate fitted to lathe.

No.	For	Wt.	Code	Price
L2-85	No. 1050	4 lb.	YEDBE	\$7.50
1250-85	No. 1250	4 lb.	YEDEB	7.50

Woodworking Attachments for Atlas Metal Lathes, Pages 12 and 14

Attachments Designed for the 1050 and 1250 Lathes.

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 Abrasives, for drill press sander .18
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 Boring tools, 6-inch metal lathes .14
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COMPLETE DISPLAYS

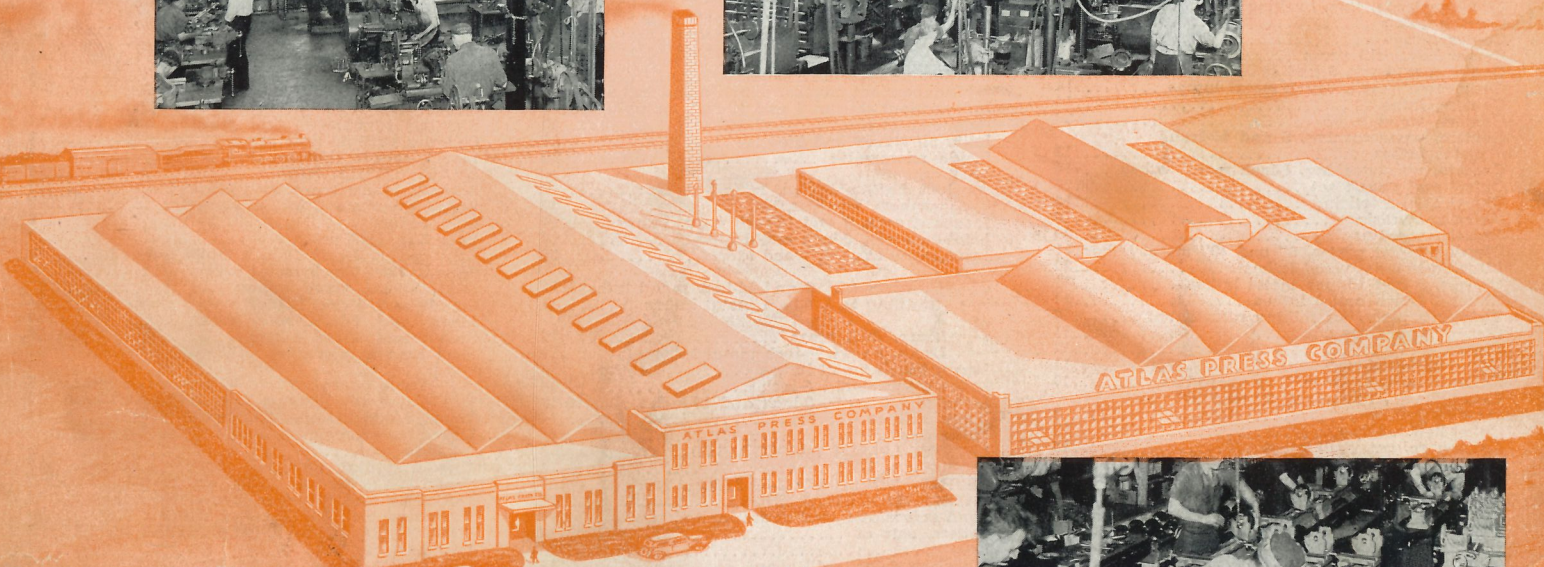
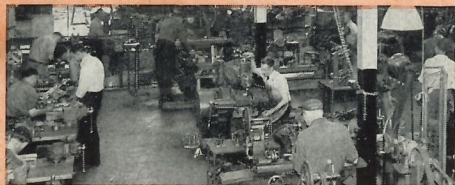
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