Atlas Guarantee of Satisfaction

We, the *ATLAS PRESS COMPANY,* Kalamazoo, Michigan, guarantee every product of ours against any defect in materials or workmanship for the period of two years from date of purchase. We further guarantee that if within two weeks from the date you receive your Atlas Equipment, you are not perfectly satisfied in every way, we will cheerfully refund to you every cent you have paid us, plus return shipping charges.

J. H. Lenneman
PRESIDENT

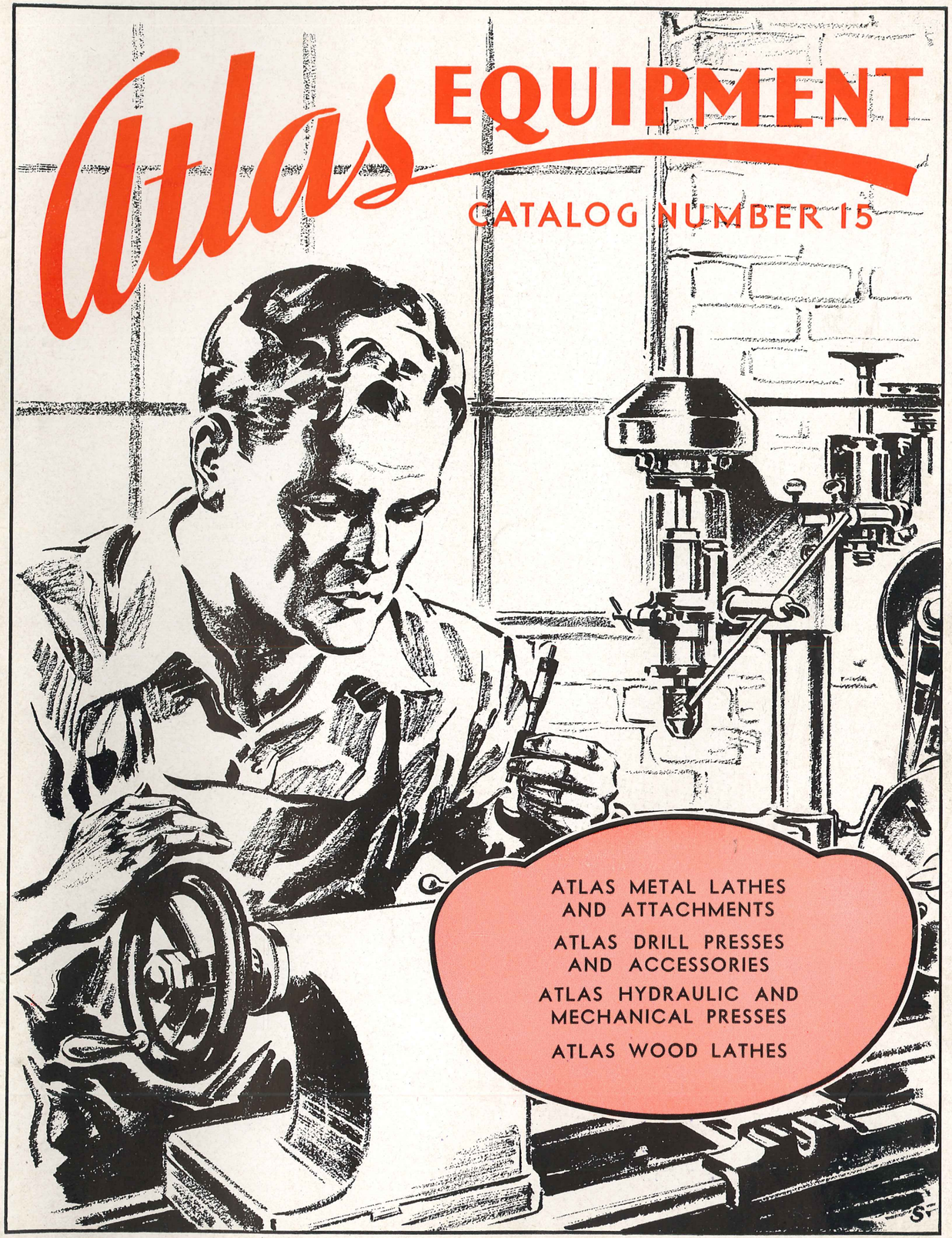
ATLAS PRESS COMPANY

IHLING BROS. EVERARD CO., PRINTERS, KALAMAZOO, MICH.

PRINTED IN U.S.A.

Atlas EQUIPMENT

CATALOG NUMBER 15



ATLAS METAL LATHES AND ATTACHMENTS

ATLAS DRILL PRESSES AND ACCESSORIES

ATLAS HYDRAULIC AND MECHANICAL PRESSES

ATLAS WOOD LATHES

ATLAS PRESS COMPANY

KALAMAZOO, MICHIGAN

In accordance with progressive manufacturing procedure this new ATLAS catalogue introduces products that have been changed to meet new requirements and improved as scientific discoveries and ingenuity have made possible greater value and serviceability to the user.

Some of these improvements have come from our own experimental department where mechanically trained engineers constantly strive to make ATLAS equipment even better. Others have been brought about by actual users of the machines out in the field. Occasionally we get letters from users saying something like this: "By making this little change on my machine I am able to do this job better." We immediately investigate the suggestion carefully, and if it is one that would be of value to other users of our products, it is incorporated in all machines.

This constant striving for improvement and eagerness to learn what others do with our equipment is one very good reason why all ATLAS machines are of superior design and several years in advance of competition.

Yet, with all the added features of ATLAS equipment, you pay only about what you would have to for inferior quality. This is due in part to the gratifying reception these tools always receive--enabling us to buy raw materials in huge quantities at minimum prices--and in part to the facilities offered by the most modern production equipment that effects savings in manufacturing costs. These equipment that effects economies in the purchase and processing of the finest materials available - and not the result of skimping on inferior grades.

As proof of the confidence we have that every user will be more than pleased with ATLAS equipment, look over our guarantee reproduced on the back of this catalogue. Could we afford to be so liberal if we were not absolutely sure of the high quality of our products? We are proud to say that this confidence has always been justified in the past, and we are going to keep on manufacturing only the class of machinery that will merit it in the future.

J. H. Penniman
President

ATLAS DRILL PRESSES

The new ATLAS Drill Presses incorporate all the essential features that have made the previous models so popular in shops all over the world, and in addition employ several noteworthy improvements that place them securely at the top of the list of fine Drill Presses.

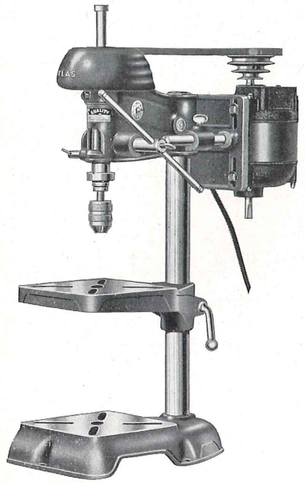
All models shown on the following pages are precision built of the finest materials to assure permanent accuracy and long life. There is a size for every shop and all are completely covered by our broad guarantee reproduced on the back of this catalogue.

The Heads of all ATLAS Drill Presses have wide, heavy sweeps running all the way across that add much to the strength and rigidity of the Drill as well as greatly enhancing the appearance. These Heads are of the closed type to keep out moisture, dirt, etc., from the bearings or quill.

An ON-OFF switch is conveniently located beside the feed wheel or handle to give finger-tip control and add to the convenience of operation. A new type co-ordinate column lock on the Head permits this to be locked rigidly in position or released with only the slightest pressure. This same type lock is used on the quill and holds it at any desired depth firmly and yet without any danger of scoring.

The most important factor to consider in a Drill Press is the Bearing construction. ATLAS No. 41 has Oilless Bronze Bearings of the most advanced type. These are entirely satisfactory for all ordinary use and at speeds as high as 4,000 R.P.M. No. 51 has three SKF deep-groove Ball Bearings—two in the quill and another above the Head directly at the center of the 4-step spindle pulley. Nos. 61 and 71 employ FOUR deep-groove SKF Ball-Bearings—two in the quill and two more above the quill, in the Head. These Bearings are absolutely the finest obtainable for use in a Drill Press and permit the Drill to be run for many hours at a time at the highest speeds. Nos. 51, 61, and 71 are designed to do fine work at speeds as high as 10,000 R.P.M.

All ATLAS Drill Presses are equipped with mogul type bases which also serve as auxiliary tables for long or odd-shaped work.



A tilting table, similar to that furnished as regular equipment on our more expensive models, may be had in place of the rigid table at an extra cost of $2.25.

TWO TYPES OF DRIVE AVAILABLE

The ATLAS 41, like the more expensive models, is obtainable with direct motor drive or with idler pulleys as shown in the accompanying cuts. The direct motor drive is for use in shops where a motor is used to drive the Drill Press only. Shops having a table countershaft, or using the opposite end of the motor shaft to drive another tool, will find the idler pulley model the answer to their needs.

NO. 41 DRILL PRESS

The ATLAS 41 is a truly high quality Drill Press in the low-price class. The workmanship and performance are favorably comparable with drills costing many dollars more. On it, all drill press operations are within easy reach of the user—all the attachments shown in this catalogue fit the 41, as well as the more expensive models.

The precision ground steel Spindle is 5/8″ in diameter, and runs in Oilless Bronze Bearings. These Bearings are the most advanced, heavy-duty type and assure smooth, quiet operation. Belt pull is not taken on the spindle, but on the spindle sleeve from which it is transmitted to the Head through a special, heavy-duty Bronze Bearing. ON-OFF switch located beside feed handle speeds up and adds to operating convenience.

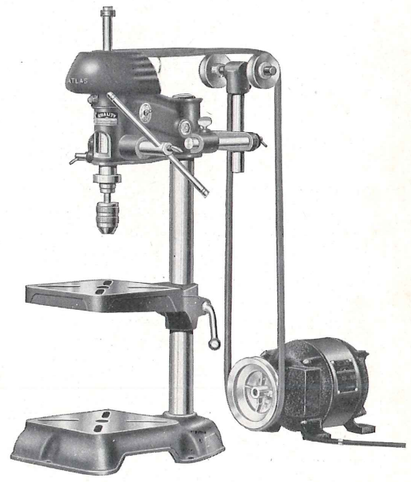
Quill is graduated in 1/16ths and may be locked at any desired depth of feed by the conveniently located locking clamp. Table and Head may be swung around throughout 360°. Head may be inverted for shaping. The Pulley Guard goes back further than on most Drill Presses so that the operator is protected against the possibility of catching parts of his clothing in the moving pulley.

Compare the performance, workmanship, and appearance of the ATLAS 41 with any Drill Press on the market and you will agree with us that it is the greatest value ever offered.

SPECIFICATIONS

Overall height	**31″**
Overall width	**10″**
Overall depth with motor	**24″**
Max. Distance table to chuck jaws	**10″**
Max. Distance base to chuck jaws	**13″**
Spindle travel	**3″**
Steel Column	**1 5/8″ dia.**
Drills to center of circle	**12″ dia.**
Chuck capacity	**1/2″**
Table travel	**10″**
Number of speeds	**9**
Range of speeds	**700-4,000**
Size of table	**7 1/2″ x 7 1/2″**
Table slots	**Diagonal**
Spindle Bearings	**Oilless Bronze**
Shipping Weight	**72 lbs.**
ATLAS No. 41, complete with Standard Chuck	**$14.45**
ATLAS No. 41, with Jacobs 1/16″ to 1/2″ Chuck	**17.95**
ATLAS No. 41, with Jacobs 0″ to 1/2″ Chuck	**18.95**

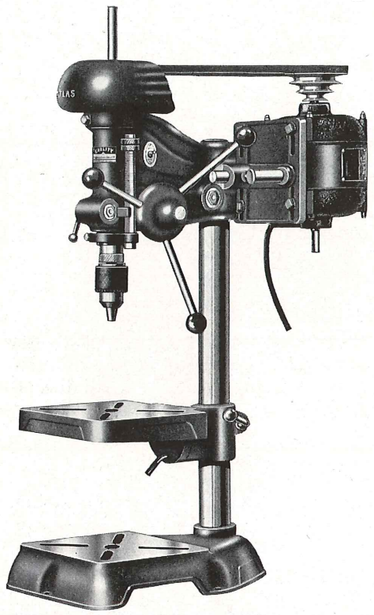
Prices do not include motor.



ATLAS QUALITY ★ Shop Equipment Since 1911

ATLAS 51 DRILL PRESS

ball bearing head, full-floating spindle, new rigid head design for vibrationless performance



Direct motor drive or idler pulleys, tilting Table or solid Table both optional at no difference in price.

The newly designed ATLAS 51 is a Drill Press that will delight the most discriminating craftsman or machinist. The new type Head construction affords the utmost in strength and rigidity assuring the user **permanent** accuracy and trouble-free performance. The closed Head makes possible an additional quill bearing. These are bored on precision jigs and make it impossible for the quill to get out of alignment. (See cut-away view on page 7.)

Nine speeds are available from 600 to 4,000 R.P.M. This wide range affords low speeds for large drilling, intermediate and high speeds for smaller drilling and woodworking operations. A 3450 R.P.M. motor will double these speeds. Using our Slow-Speed Attachment, shown on page 9, the Drill Press may be slowed down to 200 R.P.M. which is ideal for drilling even one-half inch holes in steel.

Three deep-groove SKF Ball Bearings are employed in the ATLAS 51 so that this machine may be run for hours at a time without impairing accuracy. The belt pull from the motor is taken on one of these bearings which is located directly at the center of the drive pulley.

ON-OFF switch and 3-spoke Feed Wheel speed up operation and add to convenience.

So that users of the ATLAS 51 Drill Press may be assured of all the accuracy built in this Drill a JACOBS Chuck is furnished as standard equipment. This is their standard taper hole chuck and is known throughout the world as the finest obtainable.

Co-ordinate type lock on both Column and Quill clamps these firmly in position with little pressure applied to clamping handle. This lock also eliminates danger of scoring Quill.

Micrometer depth gauge is graduated in 1/16ths and provided with stop collars for repetitive drilling operations. Gauge is clamped to quill and travels in machined slots, effectively eliminating rotational side-play. This is particularly important if the Drill Press is to be used for accurate mortising.

Tilting table has indexing holes for horizontal and 90° positions. Solid Table (optional) is especially rigid and precision built for the most accurate work.

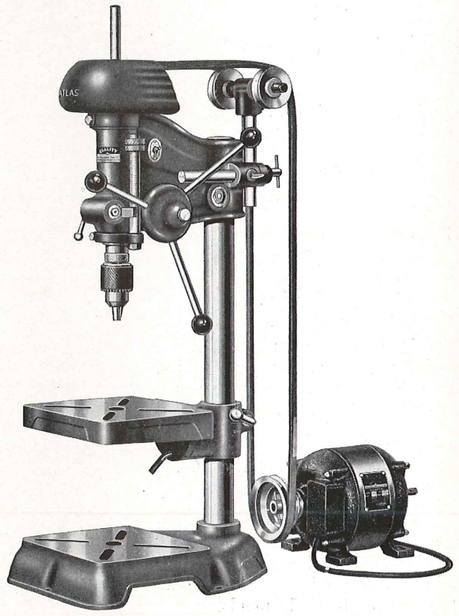
For details of the fine Head construction, examine the cut-away views on page 7.

SPECIFICATIONS

Overall Height	**34″**
Overall Width	**11″**
Overall Depth with motor	**24″**
Max. Distance table to chuck jaws	**9″**
Spindle Travel	**3″**
Ground Steel Column	**1⅞″ dia.**
Drills to Center of Circle	**13″ dia.**
Chuck Capacity	**33/64″**
Table Travel	**9″**
Distance Chuck to Base	**13″**
No. SKF Ball Bearings	**3**
Number of Speeds	**9**
Range of Speeds	**600-4,000**
Size of Table	**8″ x 9″**
Diagonal Slots in Table (Rect. slots optional)	
Shipping Weight	**94 lbs.**
ATLAS No. 51, with Jacobs 1/16″ to ½″ Chuck	**$25.95**
ATLAS No. 51, with Jacobs 0″ to ½″ Chuck	**26.95**

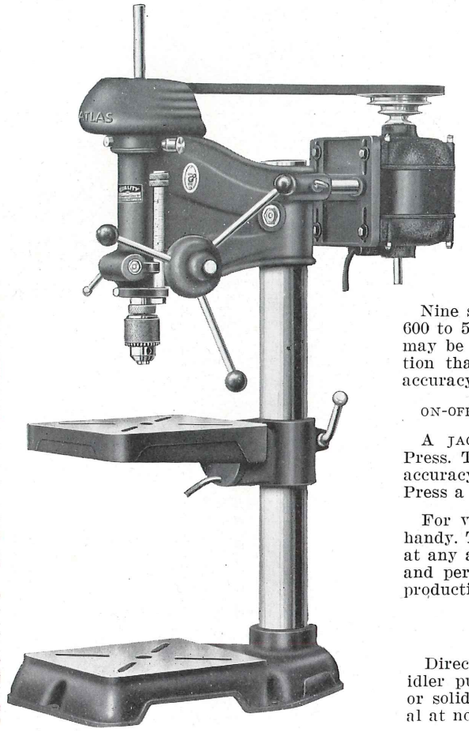
Prices as shown do not include motor. (See page 35.)

Drill Press is designed to be run from 1/3 H.P., 1725 R.P.M. motor. 3450 R.P.M. motor will double listed speeds.



ATLAS 61 DRILL PRESS

Heavy Duty Model, FOUR oversize, deep-groove SKF Ball-Bearings



The ATLAS 61 is a precision Drill Press designed for the heaviest duty or for production work where it must do absolutely accurate work for many hours of the day. It is similar in design to the 51 but much larger and heavier. Four deep-groove SKF Ball-Bearings, two in the Quill and two more above the Quill in the Head completely eliminate tangential belt pull from the spindle and give the operator the assurance that the inherent accuracy built in this Drill Press will last a lifetime.

The 61 is sturdily constructed of heavy grey-iron and steel (except pulleys and spring housing which are Zamak alloy) and has proven its ability to withstand the punishing grind of factory work in literally hundreds of the leading manufacturing plants of the world. Yet nothing has been omitted which would add to its utility in the workshop doing versatile jobs. Rotational play in the Quill has been effectively eliminated so that the most accurate mortising is child's play with this Drill Press. The Head is invertible to take the Shaping Attachment.

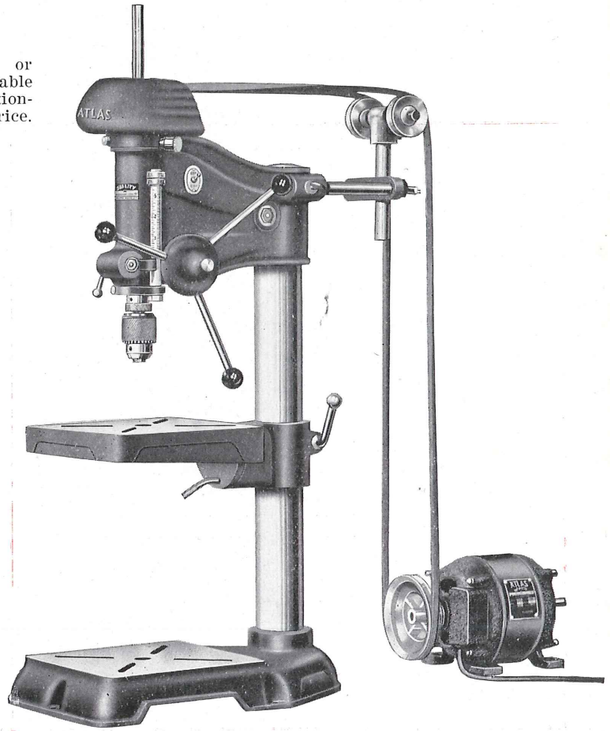
Nine speeds are available to the operator. With a 1740 R.P.M. motor these range from 600 to 5,200 R.P.M. For some work, where more speed is desirable, a 3500 R.P.M. motor may be used which will double the above Drill speeds. The 61 is of such fine construction that it may be run at speeds of 10,000 R.P.M. without endangering the life or accuracy in the least.

ON-OFF Switch and 3-spoke Feed Wheel speed up operation and add to convenience.

A JACOBS taper hole Chuck is supplied as standard equipment with the 61 Drill Press. This is the finest Drill Chuck obtainable and will enable the user to get all the accuracy from his machine. For shops desiring to use taper shank drills in their Drill Press a special Socket is obtainable for either the 51, 61 or 71 Drill Press (See Page 9).

For versatile Drill Press operations the tilting Table regularly supplied is extremely handy. This Table locks in horizontal and 90° right or left positions and may be clamped at any angle. The solid Table may be had optionally and is of extra sturdy construction and perfectly aligned with the Drill Press. This latter Table is usually preferred for production work.

Direct motor drive or idler pulleys, tilting Table or solid Table both optional at no difference in price.



SPECIFICATIONS

Overall Height	**40″**
Overall Width	**12″**
Overall Depth with motor	**24″**
Max. Distance Table to Chuck Jaws	**11″**
Max. Distance Base to Chuck Jaws	**17″**
Spindle Travel	**4″**
Ground Steel Tubing Support	**2¾″ Dia.**
Drills to Center of Circle	**15″ Dia.**
Chuck Capacity	**33/64″**
Table Travel	**11″**
No. of SKF Ball Bearings	**4**
Number of Speeds	**9**
Range of Speeds	**600-5,200 R.P.M.**
Size of Table	**10″ x 10″**
Slots in Table	**Diagonal**
(Note: Rectangular slots optional on request.)	
Shipping Weight	**122 lbs.**
ATLAS No. 61, complete with Jacobs 1/16″ to ½″ Chuck	**$33.75**
ATLAS No. 61, complete with Jacobs 0″ to ½″ Chuck	**34.75**

Prices as shown do not include motor. (See page 35.)

Drill Press is designed to be run from a 1/3 H.P., 1725 R.P.M. motor. A 3450 R.P.M. motor will double listed speeds.

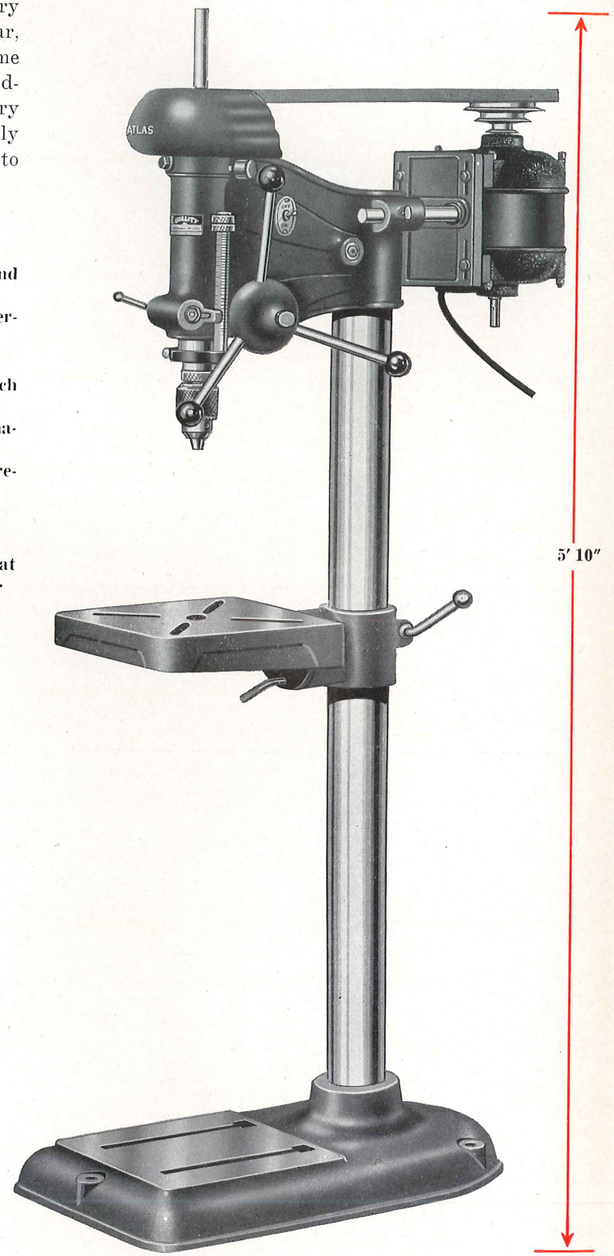
ATLAS 71 DRILL PRESS

Floor type Drill with exactly the same Head Construction as No. 61

For those shops requiring a Drill Press that will handle very long work, or where it is desired to keep the workbench clear, the ATLAS 71 fills a genuine need. It employs exactly the same fine Head as used on our No. 61 mounted on a Floor Type standard. Like all ATLAS Drill Presses, the Base is also an auxiliary Table for long or odd-shaped work. This is an extraordinarily valuable feature of this model as it permits very long work to be accommodated in the Drill.

For detailed information of this model see pages 5 and 7.

- **Special, 4-Bearing Spindle affords smooth, quiet operation and long life.**
- **Rigid construction throughout assures almost vibrationless performance.**
- **ON-OFF Switch speeds up operation.**
- **3-Spoke Feed Wheel and helical return spring give feather touch feeding.**
- **Closed Head makes possible more Quill Bearings adding to permanent accuracy of Drill Press.**
- **New co-ordinate type column lock clamps Head in position or releases it with only slight pressure.**
- **Same type lock clamps Quill firmly without scoring.**
- **All ATLAS Drill Press Attachments fit this model.**
- **Heavy, ribbed Table swivels through 360° and may be clamped at any angle—indexed for horizontal and 90° positions, right or left.**
- **Solid Table optional at no extra cost.**
- **Special Oil Table available (See page 9).**
- **Long Pulley Guard protects operator from spinning Pulley.**



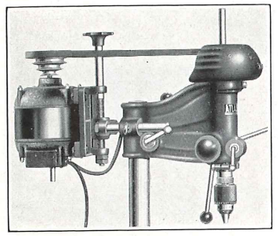
SPECIFICATIONS

Overall Height	**70″**
Overall Width	**14″**
Overall Depth	**30″**
Max. Distance Table to Chuck Jaws	**42″**
Max. Distance Base to Chuck Jaws	**48″**
Drills to Center of Circle	**15″ dia.**
Spindle Travel	**4″**
Ground Steel Tubing Support	**2¾″ dia.**
Table Travel	**42″**
No. of SKF Ball Bearings	**4**
Number of Speeds	**9**
Range of Speeds	**600-5,200 R.P.M.**
Size of Table	**10″ x 10″**
Slots in Table	**Diagonal**
Slots in Base Table	**Rectangular**
Chuck Capacity	**33/64″**
Shipping Weight	**155 lbs.**
ATLAS No. 71, complete with Jacobs 1/16″ to ½″ Chuck	**$38.45**
ATLAS No. 71, complete with Jacobs 0″ to ½″ Chuck	**39.45**

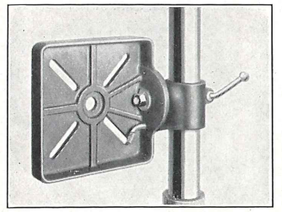
Prices as shown do not include motor. (See page 35.)

Drill Press is designed to be run from a 1/3 H.P., 1725 R.P.M. motor. A 3450 R.P.M. motor will double listed speeds.

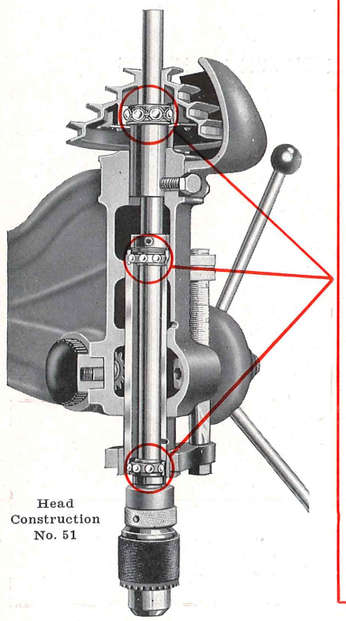
ATLAS DRILL PRESS FEATURES



Special Motor Bracket available for all ATLAS Drill Presses. Permits instant selection of desired speed without loosening motor. $2.90. Give number of Drill Press when ordering.



Tilting Table swivels through 360° and may be locked at any angle. Indexed for horizontal and 90° right and left positions.



Head Construction No. 51

1. Original ATLAS construction; two large SKF Deep-Groove Ball-Bearings mounted in Head of Nos. 61 and 71 absorb all belt pull, thereby assuring smooth, almost frictionless spindle driving means. No other Drill Press anywhere near this price range has this superb construction.

2. Two more SKF Ball-Bearings float the Spindle free from the Quill.

3. New Head construction permits use of additional Quill bearing assuring permanent accuracy.

4. Adjustable collar takes up all longitudinal play between Spindle and Quill through the heavy SKF top Quill bearing.

5. ATLAS attachments fit standard Spindle. No changing of spindles is necessary.

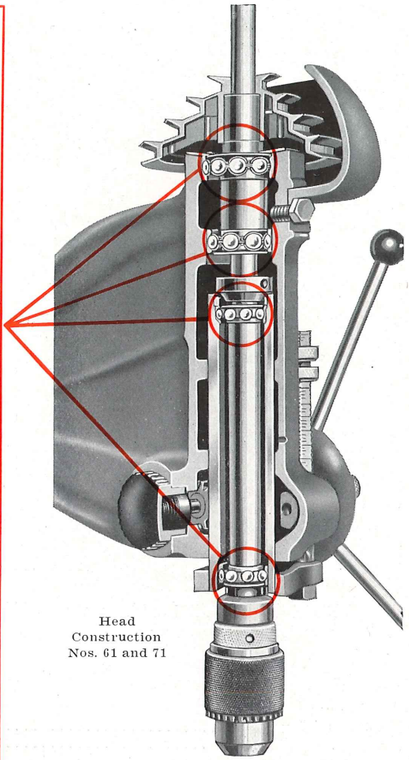
6. Lubrication: Grease cup in Head of 61 and 71 provides lubrication for upper sleeve bearings. This need be replenished only once every six months. Oil holes in feed pinion shaft bearing and bottom of Quill afford convenient means for lubricating these places.

7. Large, Deep-Groove SKF Ball-Bearing, placed at the center of the drive pulley on the No. 51, takes the belt pull and transmits the power to the Spindle. Therefore, when feeding the thrust on the Spindle is all directly downwards and is exerted by the Quill through the upper Quill Bearing. Tangential belt pull is thereby eliminated, adding immeasurably to the life and accuracy of the Drill Press.

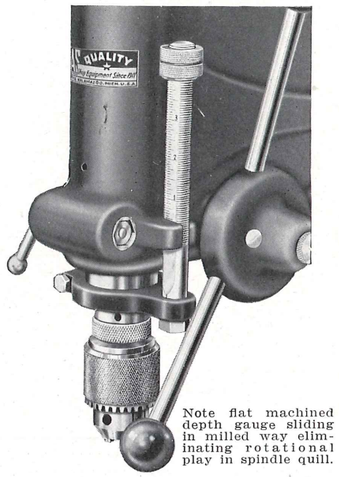
8. The positive action, coordinate type Quill Lock assures accurate carving, shaping, and dovetailing without danger of scoring the Quill.

9. Heavy, ground steel Quill with accurately cut teeth and steel pinion assure smooth, uniform feeding.

10. Large, adjustable helical return spring balances Spindle and may be set for desired sensitivity.



Head Construction Nos. 61 and 71



Note flat machined depth gauge sliding in milled way eliminating rotational play in spindle quill.

Micrometer depth Indicator is graduated in 16ths and is provided with knurled stop nuts for repetitive drilling, etc., to the same depth. View also shows special ATLAS Chuck Release feature.

ATLAS DRILL PRESS ACCESSORIES

STRAIGHT SHANK DRILLS

High Speed Steel No. CD-917
Carbon Steel No. CD-108

These Drills are all standard CLEVELAND TWIST DRILL CO. "Cle-Forge" and are the finest obtainable. We unhesitatingly recommend them to our users.

Dia. Inches	Carbon Steel	High Speed	Length Overall	Dia. Inches	Carbon Steel	High Speed	Length Overall
1/32	.15	.25	1½"	9/32	.30	.65	4¼"
1/16	.15	.25	2½"	5/16	.35	.75	4½"
3/32	.15	.25	2¾"	11/32	.40	.90	4¾"
1/8	.15	.25	3"	3/8	.50	1.00	5"
5/32	.15	.30	3¼"	13/32	.60	1.25	5¼"
3/16	.20	.35	3½"	7/16	.70	1.50	5½"
7/32	.20	.45	3¾"	15/32	.85	1.75	5¾"
1/4	.25	.55	4"	1/2	1.00	2.00	6"

SLEEVE OR SHELL SOCKETS

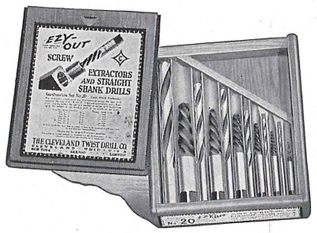
No. CD-104

No. 1 Morse Taper Hole, outside fitting No. 2 Morse Taper. Used in Lathe or Drill Press to transform No. 2 Morse Taper to take No. 1 Morse Taper tools. **No. CD-104**.....$ .75

COMBINATION DRILL AND COUNTERSINK

60° countersink for properly centering work.
No. 395 (1/16" x 13/64") .....$ .35
No. 395A (1/8" x .300) ..... .40
Wt. 2 oz. each.

SCREW EXTRACTORS



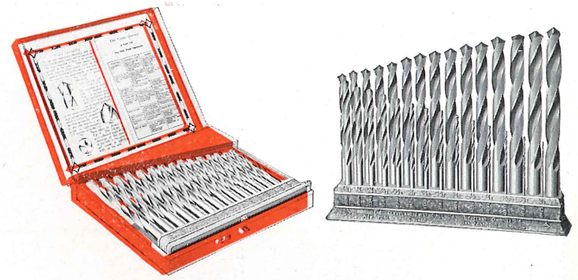
The "Ezy-Out" Screw Extractor does away with one of the most annoying and exasperating jobs around the shop—that of removing broken set or cap screws, studs, pipe fittings, etc. But with "Ezy-Out" it is only necessary to drill a hole in the broken screw, insert "Ezy-Out," slip on a tap wrench and twist (left hand). The taper on this handy tool grips the sides of the broken screw like so many steel fingers and backs it out on its own threads. "Ezy-Out" does not damage the threads of the hole and, therefore, re-tapping is never necessary.

No. 20 set includes Extractors Nos. 1 to 6 inclusive, with the proper size straight shank drill to use with each extractor. This set will handle any size bolt or cap screw from small electrical parts to one inch studs.....$4.50

No. 15A set includes Extractors Nos. 1 to 6 inclusive, just as set No. 20, but does not include the drills.....$3.00

Both sets are packed in a special container with individual compartments for each item.

DRILL SETS IN METAL CASES



This set includes all sizes of straight shank drills from 1/16" to ½" by 64ths. A chromium plated stand is included, as shown, and each drill fits into a hole plainly marked with its size, and on the side of the stand is shown the decimal equivalent of each size drill.

No. CD-51 Carbon Steel—Price Complete.....$13.50

No. CD-58 High Speed Steel—Price Complete..... 26.00

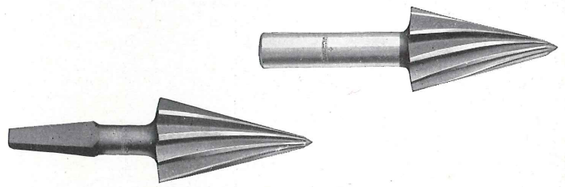
MECHANICS DRILL SET

A compact, handy set of 8 straight shank drills in sizes from 1/16" to 9/32" by 32nds, packed in a wooden container, each drill having a separate, plainly marked hole so that the proper size may be selected in a few seconds time.

No. CD-26 Carbon Steel—Price Complete.....$1.50

No. CD-57 High Speed Steel—Price Complete..... 3.25

SPIRAL FLUTE BURRING REAMERS



Designed primarily for removing burrs from pipe and conduit, etc., but may also be used with a wide variety of materials for enlarging holes in panels, smoothing down rough edges, countersinking, etc. Supplied with straight shanks for electric drill or Drill Press, or to fit Brace and Hand Drill.

Carbon Steel

No.	Style Shank	DIAMETER at point	DIAMETER large end	Price Each
CD-232	½" Round	3/16"	1¼"	$1.25
CD-233	½" Round	¼"	1 15/32"	1.50
CD-234	½" Round	¼"	2 17/64"	3.00
CD-241	Bit Brace	3/16"	1¼"	1.00
CD-242	Bit Brace	3/16"	1 15/32"	1.25
CD-242½	Bit Brace	¼"	1 15/32"	1.50
CD-244	Bit Brace	¼"	2 17/64"	3.00

ATLAS DRILL PRESS ACCESSORIES

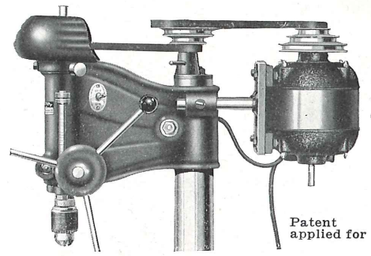
SLOW SPEED ATTACHMENT

This attachment, added to an ATLAS Drill Press, reduces the drill speed to a low of 200 R.P.M. and gives it plenty of power to do all metal work even up to drilling ½" holes in steel. It also is slow enough to permit the use of carbon steel drills without danger of burning the point.

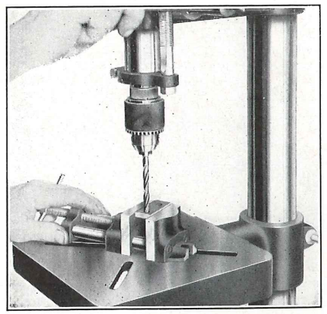
This ingenious device greatly increases the speed range of any Drill Press and makes it a more versatile machine than any other on the market. It may be assembled or disassembled in three minutes and can be supplied to fit any Drill Press having a hollow column.

Furnished complete with necessary belts, etc.

No. W-32 for ATLAS No. 41 Drill Press.....$3.95
No. W-14 for ATLAS No. 51 Drill Press..... 3.95
No. W-15 for ATLAS Nos. 61 and 71 Drill Presses..... 3.95
Wt. 5 lbs.



Patent applied for



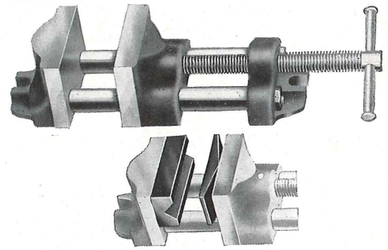
Operator using the new ATLAS drill press vise for holding a small piece during a drilling operation.

DRILL PRESS VISE

This Vise is a tool that every Drill Press owner should have. It is of the highest quality, constructed of close-grained grey iron and steel. Jaws are 2⅝" wide and open to 3⅛", providing ample capacity for practically all work. Convenient hold-down recesses in each end afford expedient means for clamping Vise to Table.

Heavy steel guide rods assure accurate alignment of the jaws—a feature not found in many Vises selling for many times this price. Guide rods also give plenty of clearance for the drill when breaking through and eliminates the nuisance of a gouged out base.

No. W-8 ATLAS Drill Press Vise.....$3.50
Shipping wt.—5 lbs.



V-BLOCK JAW

The V-block jaw shown above is almost a necessity for holding round work in the vise.
No. W8V V-block jaw .....$ .75
Shipping weight—12 oz.

SWIVEL JAW

The swivel jaw shown above is very handy for holding tapered and irregular work.
No. W8S Swivel jaw .....$ .75
Shipping weight—8 oz.

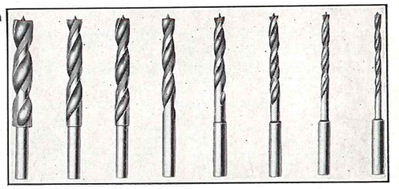
ATLAS QUALITY MACHINE SPUR BITS

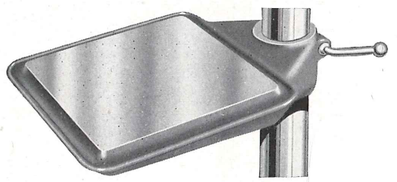
Atlas spur machine drills are made from the finest alloy steel, carefully heat treated. They are provided with a brad point for steadying the tool and spurs for cutting the wood fibres without chipping. They produce smooth holes with the greatest ease and are especially valuable for deep drilling operations. They all have ⅛" by 2" shanks which are accommodated in the regular drill press chucks. The overall length is about 6⅛".

Cat. No.	Size		Price
No. W10-1	1/4"	Machine Spur Bit....	$1.00
No. W10-2	5/16"	Machine Spur Bit....	1.05
No. W10-3	3/8"	Machine Spur Bit....	1.10
No. W10-4	7/16"	Machine Spur Bit....	1.25
No. W10-5	1/2"	Machine Spur Bit....	1.50
No. W10-6	9/16"	Machine Spur Bit....	1.60
No. W10-7	5/8"	Machine Spur Bit....	1.80
No. W10-8	3/4"	Machine Spur Bit....	2.40

Shipping weight—8 oz. each.

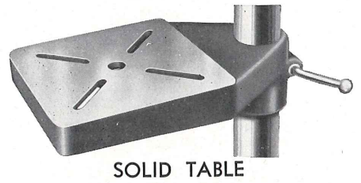
No. W10A Complete set of 8 Machine Spur Bits—Sizes ¼" to ¾".....$11.25
Shipping weight—3 lbs.





OIL TABLE

A production type Drill Press Table preferred in many plants. Machined surface 10" x 10" with wide recesses all around to catch oil or cutting compound. Hole in rear permits oil to drain into pan. For use on 61 or 71 Drill Press.
No. 60-2S—Wt. 35 lbs.....$8.50

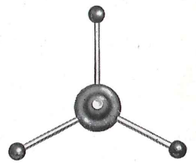


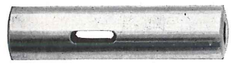
SOLID TABLE

Sturdily constructed for very accurate production work, this Table is usually preferred by plants not needing the tilting feature. Furnished in place of the tilting type on Nos. 51, 61 or 71 without extra charge. As an auxiliary:
No. 50-2R for No. 51 Drill Press—Wt. 20 lbs. $5.00
No. 60-2R for Nos. 61 or 71—Wt. 25 lbs.... 6.00

3-SPOKE FEED WHEEL

This is a carefully designed Feed Wheel for Drill Presses that eases operation considerably. The three spokes are set at an angle of 16° to prevent the operator's fingers from scraping against the pulley guard. Bakelite knobs are used on the ends of the spokes to provide a comfortable grip. This Wheel is furnished as standard equipment on ATLAS Nos. 51, 61 and 71 and will fit our No. 41 or any Drill Press having a 15/16" diameter feed spindle. Wt. 5 lbs. Price $2.25





MORSE TAPER SOCKETS

Permits use of taper shank drills, etc., in your drill press. Fits taper nose of Drill Press spindles.
No. W9-1 No. 1 Morse taper socket.$1.95
No. W9-2 No. 2 Morse taper socket. 1.95
Shipping weight—1 lb. each.

CENTER KEY

No. W9-3 Center key for removing drills from Morse taper sockets—Shipping weight—6 oz..$ .35

ALLOY STEEL ROUTER BITS

These Router Bits are distinctly a superior product and will give exceptionally fine service for mortising, carving and inlaying operations.

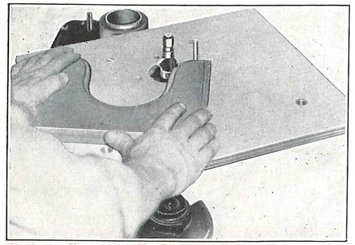
Cat. No.	Size	Dia. Shank	Length Flute	Price
W4-1	⅛"	5/16"x1"	5/8"	$ .75
W4-2	¼"	5/16"x1"	1"	.75
W4-3	3/8"	5/16"x1"	1"	.75
W4-4	½"	5/16"x1"	1"	.90
W4-5	5/8"	5/16"x1"	1"	.90

W-4A Set of five Router Bits—Wt. 1½ lbs.....$3.50

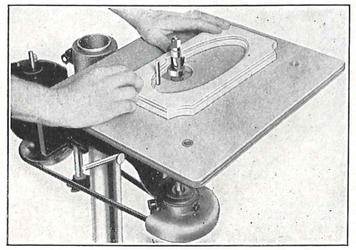
ROUTER BIT ADAPTER

Fits the Drill Press Spindle in place of the Jacobs Chuck and holds Bits firmly. Recommended for accurate routing. **No. W31**—Wt. 8 ozs.....$1.00

ATLAS SHAPING ATTACHMENT . . .



Shaping irregular work. Note that the table is above the top of the drill-press column so that work of any size may be accommodated.



Cutting an ornamental border on the inside of a picture frame on the ATLAS No. 60M drill press using the extension shaper table and guide pin.

Constructional Features

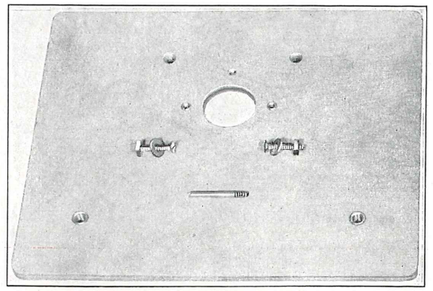
Designed to fit the 41, 51, 61, or 71 drill presses, the ATLAS shaping attachment converts these machines into real, honest-to-goodness shapers. This unique attachment may be used with the head of the drill press in normal position or inverted. In the latter position it more nearly assumes the appearance of a regular shaper and is more convenient to use.

The complete attachment consists of three units: the auxiliary table with guide pin and fittings, shaper fence with adjustable facings, and the spring steel hold-downs and accessories.

The table is made from 5-ply hardwood, accurately finished and machined to fit the drill press table and accommodate the shaper fence and hold-downs. It is 15″ x 18″ in size thereby affording ample room for large work. It comes complete with all necessary screws and a guide pin for shaping irregular work.

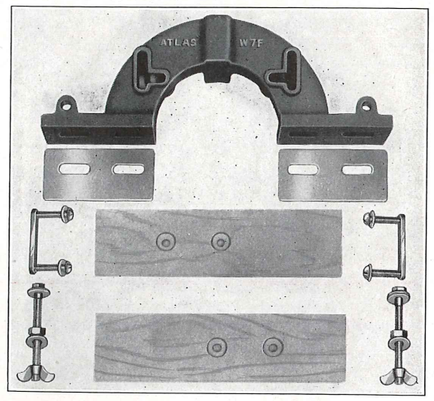
The shaper fence attachment consists of a cast-iron fence accurately machined to keep both faces parallel. Wood facings increase the guiding area and permit maximum safety since they may be brought very close to the cutters. Either face may be adjusted independent of the other so that work may be fed in from either side. This unit comes complete with hardwood facings, clamps, bolts, etc.

The hold-down attachment consists of two spring steel hold-down clamps complete with all necessary accessories. One hold-down keeps the work down on the table and the other presses it firmly against the fence thus adding much to the comfort of operating. They are both readily adjustable and may be used on either side of the table according to which way the work is fed into the machine.



EXTENSION TABLE ATTACHMENT

W7T 15″ x 18″ 5-ply maple table complete with screws and guide pin **$2.50**
Shipping weight—4 lbs.



SHAPING FENCE ATTACHMENT

W7F ATLAS shaping fence complete with wood facings, bolts, clamps, washers, nuts, etc.. **$5.75**
Shipping weight—10 lbs.

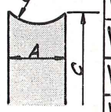
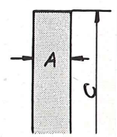
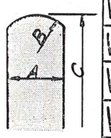
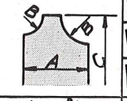
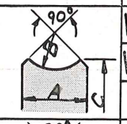
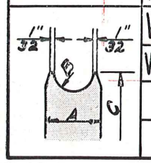
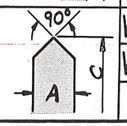
ATLAS SHAPING CUTTERS

ATLAS shaping cutters are made from the very highest grade chrome-vanadium steel carefully tempered to obtain the utmost in cutting qualities and toughness. They are made with an involute relief thus providing a very strong tooth which may be sharpened by grinding across the face of the cutting edge with a flat grinding wheel. ATLAS cutters are made in twenty-four different sizes and shapes as illustrated in the accompanying table. They may be combined in an almost endless variety of combinations to give practically any desired shape or contour as the chart on the next page will show.

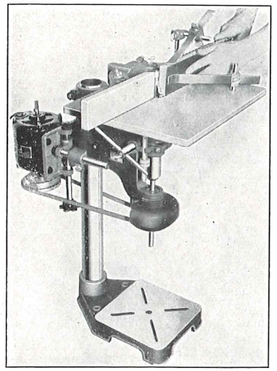
PRICES

ATLAS shaping cutters **W3-1, W3-2, W3-3, W3-4, W3-5, W3-6, W3-7, W3-8, W3-9, W3-10, W3-11, W3-12, W3-13, W3-14, W3-16, W3-17, W3-18, W3-19, W3-20, W3-21, W3-22, W3-23, W3-24,** each ..... **$ .55**
W3-15 Blank shaping cutter 1″ wide..... **$ .75**
W3A Complete set of 24 shaping cutters. **$12.95**
Shipping weight—2 lbs.

ATLAS CHROME-VANADIUM SHAPING CUTTERS

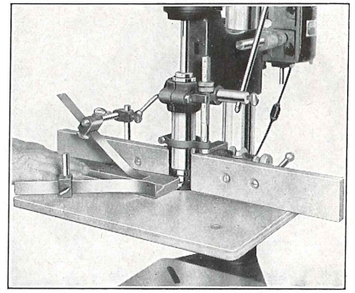
	№	A	B	C		№	A	B	C
	W3-1	.177	.125	.950		W3-11	.125		.950
	W3-2	.264	.187	.950		W3-12	.156		.950
	W3-3	.354	.250	.950		W3-13	.187		.950
	W3-4	.442	.312	.950		W3-14	.250		.950
	W3-5	.177	.125	1.020		W3-15	1.000		1.250
	W3-6	.264	.187	1.060		W3-16	.442	1/8"-3/16"	1.250
	W3-7	.354	.250	1.090		W3-17	.282	.125	1.180
	W3-8	.442	.312	1.130		W3-18	.344	.156	1.240
	W3-9	.194	.093	1.130		W3-19	.221	.125	.994
	W3-10	.260	.125	1.200		W3-20	.442	.250	1.030
	W3-21	.303	.093	1.090					
	W3-22	.388	.125	1.160		W3-23	.177		1.120
						W3-24	.282		1.210

. . . *A marvel of efficiency and utility!*



Note how closely this shaping set-up with inverted head resembles a regular professional shaper in appearance and operation.

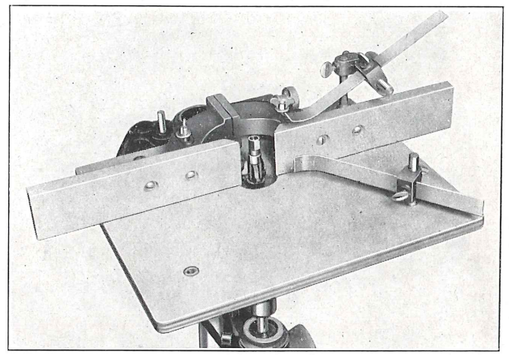
Note the convenience of the ATLAS Shaping Attachment pictured on these two pages and how it closely resembles a regular production shaper in appearance and construction, when mounted on an ATLAS Drill Press. The large extension table provides ample room for wide pieces. The heavy, adjustable fence has hardwood faces which provide a maximum of safety and convenience. The handy hold-downs keep the work against the cutters, thereby adding much to the ease and comfort of the operator.



Note how the spring hold-downs keep the work in position so that the operator has only the feeding to do.

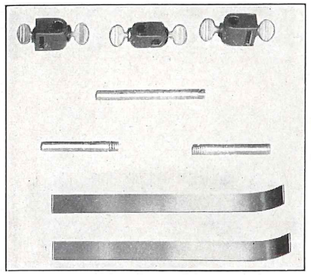
We recommend the use of our No. 420A Reversing Switch (see page 25) with the Shaping Attachment.

With the ATLAS Shaping Attachments you, in your own shop, can turn out work which will rival the finest professional craftsmanship. Why pay high prices for work which you can perform on your own Drill Press? Then, too, think of the personal pride of a good job, well done.



SHAPING ATTACHMENT COMPLETE

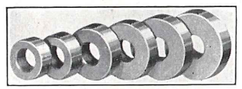
W7A Shaping attachment complete including table, fences, hold-downs, and all accessories **$7.50**
Shipping weight—17 lbs.



ATLAS HOLD-DOWN ATTACHMENT

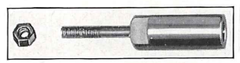
W7H ATLAS Hold-down attachment complete with clamps, pins, etc., **$1.65**

Shipping weight—3 lbs.



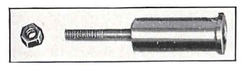
SHAPING DEPTH COLLARS

W3-25A Set of 6 depth collars—1/4″; 5/8″; 3/4″ 1 1/8″; 7/8″; 1 1/8″—very necessary for gauging depth on irregular work, 1/2″ hole..... **$ .75**
Shipping weight—8 oz.



SHAPING CUTTER ADAPTER FOR STANDARD SPINDLE

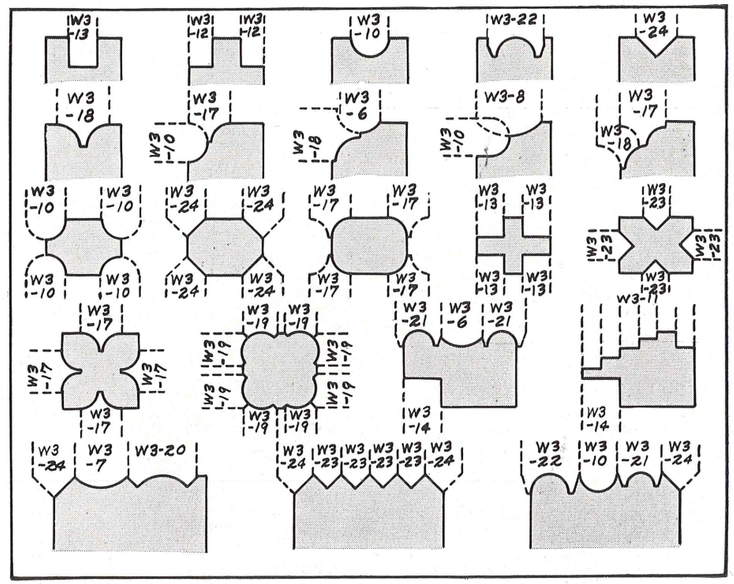
W3-31A Shaping cutter adapter for 41, 50, 60, and 70 standard threaded spindles..... **$ .80**
Shipping weight—8 oz.



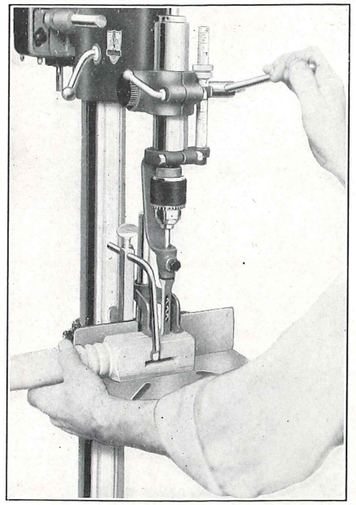
SHAPING CUTTER ADAPTER FOR JACOBS SPINDLE

W3-32A Shaping cutter adapter for 51, 61, and 71 Jacobs chuck supplies **$1.00**
Shipping weight—8 oz.

A FEW OF THE MANY SHAPES YOU CAN CUT



ATLAS MORTISING ATTACHMENT

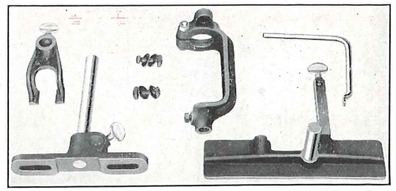


Mortising a table leg on the handy ATLAS mortising attachment.

The Mortising Attachment is one of the many ATLAS accessories that increases the utility and value of our Drill Presses. With this fine tool joinery becomes astonishingly simple and such projects as tables, book cases, window screens, etc., may be quickly and simply made with the unexcelled mortise and tenon joint.

The ATLAS W1F Mortiser is unique in that the Fence may be adjusted after the Table Bracket has been bolted to the Drill Press Table. This feature permits the work to be moved over so that mortises outside of the regular range of mortising chisels may be cut with the utmost precision. For instance: a 5/16″ width mortise may be cut with a 1/4″ chisel by moving the Fence 1/16″ after the first cut is made. Due to the construction of the ATLAS W1F, when the Fence is moved out to perform the above operation, it can only be moved absolutely parallel to the sides of the chisel. This assures the user that the mortised hole will be of equal width throughout its entire length.

The hold-down foot and side-clamp arm are both readily adjustable and designed

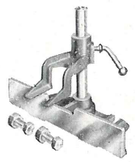


for maximum convenience. The hold-down will stock from 1/2″ to 6″ high and the capacity between the Fence and side clamp arm is 5½″. Wider work may be accommodated by merely turning the clamp arm out of the way.

No. W1F Mortising hold-down and Fence Attachment—Wt. 7 lbs. **$2.50**

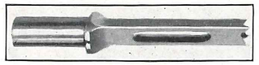
No. W1-4 Chisel Socket for all ATLAS Drill Presses.....**$2.00**
Wt. 3 lbs.

No. W1B Mortising Attachment Complete **$4.50**
Wt. 10 lbs.



No. W1A is an inexpensive Mortising Attachment of the same high quality as our No. W1F but without the adjustable Fence feature or the side-clamp arm. Used with No. W1-4 Chisel Socket. **No. W1A** Mortising Attachment as shown **$1.65**
Wt. 6 lbs.

HIGH GRADE MORTISING BITS AND CHISELS



STANDARD MORTISING CHISELS

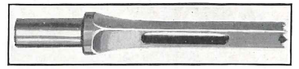
ATLAS Standard mortising chisels are intended for occasional use and when so used will give very satisfactory service. When used in conjunction with the ATLAS mortising attachment they produce smooth, sharp-cornered, square holes such as will delight the most exacting craftsman. The principal dimensions of the Standard chisels correspond exactly with our Professional type chisels, hence, the same bits serve both classes of chisels.

Cat. No.	Size	Depth of Mortise	Price
W1-16	¼″x¼″	1 7/8″	$1.30
W1-17	3/8″x3/8″	3 1/4″	$1.30
W1-18	½″x½″	3 1/4″	$1.30

MORTISING CHISEL BITS

ATLAS mortising chisel bits are made of the highest grade alloy steel carefully heat treated. When used in conjunction with either our Standard or Professional model chisels they will give very excellent performance, removing stock with almost unbelievable ease and smoothness. ATLAS chisel bits may be used in either the standard drill press chuck or the Jacobs chuck without the use of additional bushings.

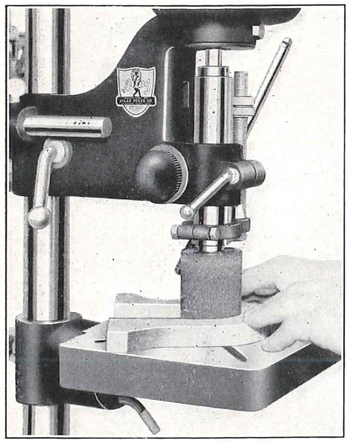
Cat. No.	Size	Shank Dia.	Price
W1-19	¼″	3/16″	$1.25
W1-20	3/8″	19/64″	$1.25
W1-21	½″	19/64″	$1.25



PROFESSIONAL MORTISING CHISELS

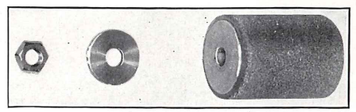
The ATLAS Professional Model Mortising Chisels are the very best obtainable. Intended for the most severe use, they will provide the maximum in service and efficiency. If you have a large amount of mortising to do, by all means purchase these chisels, as they will prove most economical in the long run. They are made from the very best grade, high-carbon steel, carefully hardened to give the utmost in wearing and cutting qualities.

Cat. No.	Size	Depth of Mortise	Price
W1-16P	¼″x¼″	1 7/8″	$3.85
W1-17P	3/8″x3/8″	3 1/4″	$4.75
W1-18P	½″x½″	3 1/4″	$5.40



Note how the table is used as a support in sanding this book-end.

DRUM SANDING ATTACHMENT



For producing that smooth, finished, Professional appearance on all kinds of work, the drum sander has no equal. The speed with which sanding can be accomplished with this handy little attachment makes it a very desirable addition to any workshop.

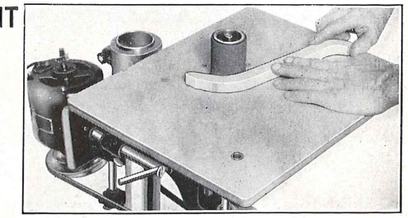
The ATLAS drum sander will fit the standard ATLAS drill-press spindles without any additional adapters. It is merely slipped on the spindle in place of the chuck and secured with a nut which is furnished with the attachment. If you have a Jacobs chuck spindle on your drill press it will be necessary to purchase the special adapter listed below. The drum sander is 2-3/16″ in diameter by 3″ long.

PRICES

No. W6A Drum Sander for standard spindle complete with one medium garnet abrasive sleeve **$1.50**
Shipping weight—1½ lbs.

No. W6-2F Set of 6 abrasive sleeves (fine garnet), per ½ doz..... **.70**

No. W6-2M Set of 6 abrasive sleeves (Med. garnet), per ½ doz..... **.70**



Using the special shaper table to support large work for sanding makes a very handy arrangement.

No. W6-2C Set of 6 abrasive sleeves (Coarse garnet), per ½ doz....**$ .70**

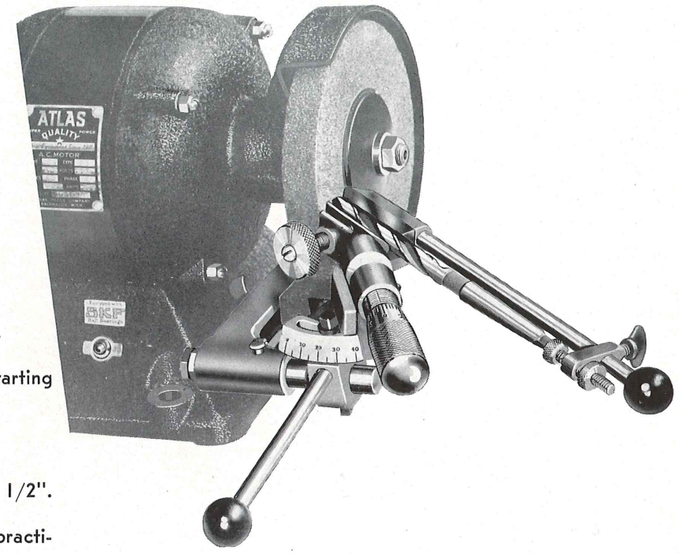
No. W6-2A Set of 6 abrasive sleeves (Aloxite for metal), per ½ doz. **.85**
Shipping weight per package of 6 sleeves—8 ozs.

JACOBS SPINDLE ADAPTER

No. W6-6A Jacobs spindle adapter for drum sander complete with nut, washer and special drift pin.....**$1.00**

ATLAS DRILL GRINDER

Attaches to any bench or floor grinder and sharpens all drills from 1-16″ to 1-2″



- Angle of drill point adjustable from 20° to 164° included angle.
- Micrometer Feed Gauge graduated so that each lip is ground identically.
- Lip clearance scientifically provided by special design.
- Drill Stop adjustable for different length shanks, and provided with knurled adjusting screws.
- Full adjustment provided for varying wheel thicknesses.
- Convenient operating lever has adjustable stop for starting position.
- Positive chucking clamp secures drill in position.
- Lip stop readily adjustable for drill sizes from 1/16" to 1/2".
- Adjustable mounting bracket facilitates adaption to practically any bench or floor grinder.
- Very simple in operation.

No. W-30 Drill Grinding Attachment only.....**$19.75**
Wt. 6 lbs.

No. W-30A Drill Grinding Attachment and No. 2500 Bench Grinder..... **41.25**
Wt. 56 lbs.

The ATLAS Drill Grinding Attachment performs an important function in the shop that has heretofore been possible only with equipment costing up to several hundred dollars. It not only does the job of this expensive equipment, but does it just as well, and with all the precision necessary for good clean, accurate drilling or countersinking.

Many smaller shops in the past have been unable to afford a Drill Grinder. This has meant that there have always been many drills thrown away because they were too dull to use and it was too expensive to have them sharpened outside. With this attachment such wastefulness is decidedly unnecessary, as "duds" can be put in as good shape as new in two minutes. Thus the ATLAS Drill Grinder will pay for itself in only a few months.

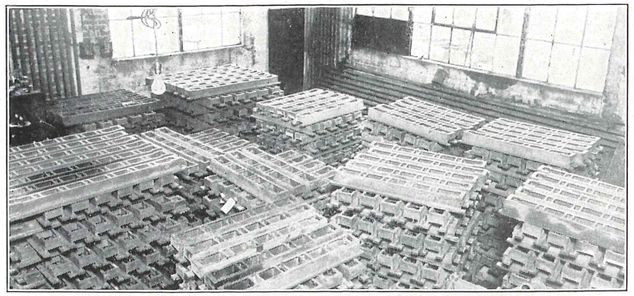
Because of the special design of this Attachment, both lips of the drill *must* be ground at the same angle. This insures a perfectly sized hole and means that the drill will have the maximum life. This is next to impossible when the drill is ground by hand.

The ATLAS Drill Grinder is accurately graduated so that it may be quickly set to grind the drill point at any angle from 10° to 82° (20° to 164° included angle). This range includes all drills and the 82° countersink for flat head wood and machine screws.

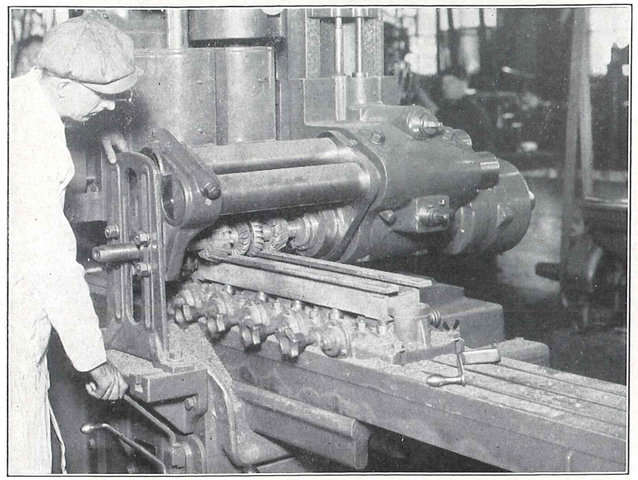
The convenient operating lever has a double action spring which supplies the proper tension and brings it back to the proper starting position which may be determined and set by the operator. Action is downwards through a pre-determined angle which carries the lip of the drill correctly across the wheel. A hardened Vee Block accurately centers all sizes of drills and the novel chuck clamps it securely in position so that it cannot slip during the sharpening operation.

Knurled depth feed knob is micrometer graduated so that the user may remove the same amount from each lip. An adjustable mounting bracket is supplied which makes the Drill Grinder easily adaptable to practically any bench or floor grinder on the market. Full adjustment is provided for different wheel thicknesses.

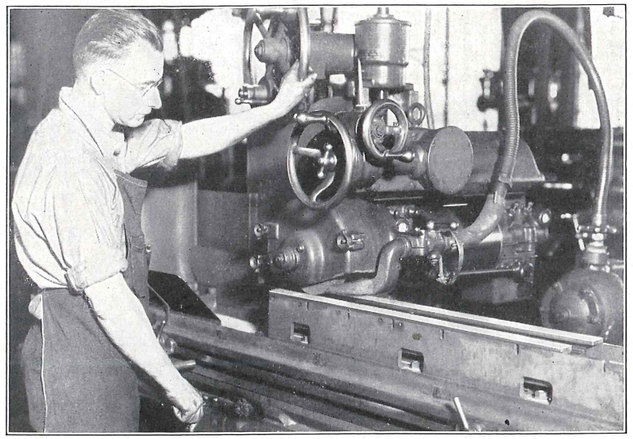
MODERN LATHE CONSTRUCTION—
ACCURATE WORKMANSHIP . . . .



This view shows some of the lathe beds piled for seasoning. Many hundreds of castings are purchased at a time to assure plenty of time for thorough seasoning.



A huge Kearney-Trecker Milling Machine designed and built especially for milling ATLAS lathe beds.

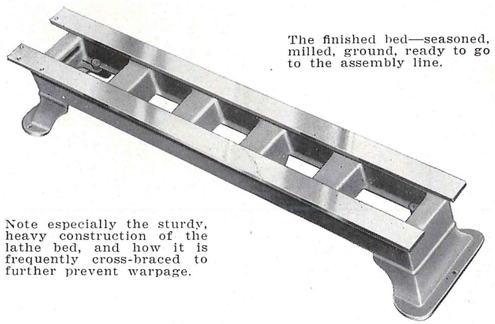


A special Norton Surface Grinder that trues and polishes the lathe ways far more accurately than it can be done by hand.

The accompanying shop views will give some idea as to the process through which each ATLAS product goes. In keeping with the ATLAS Aim of supplying the greatest possible value for the customer's dollar, many special machines have been designed with the help of our own engineering department which enable us to do a *better* job in *less* time. The consequent saving is turned directly over to the purchaser through low prices on ATLAS merchandise.

We should like to take this opportunity to invite any who are interested and who may be in the vicinity of our factory, to come and see for themselves the modern plant and equipment which has made ATLAS the standard of quality throughout the world.

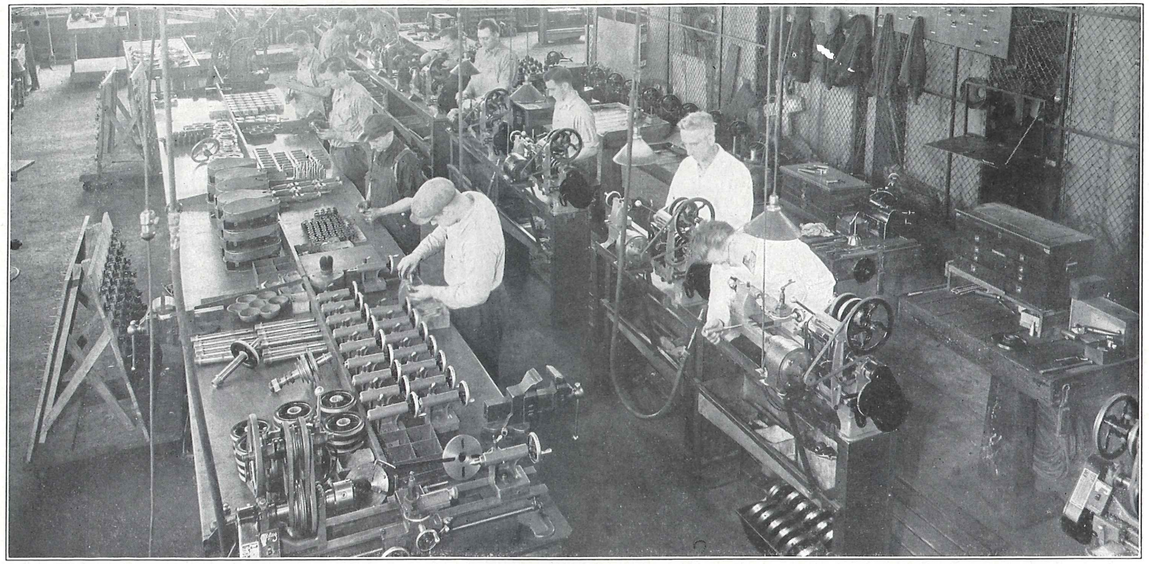
As a double check, every lathe bed is tested on this Brown & Sharpe master surface plate for absolute accuracy.



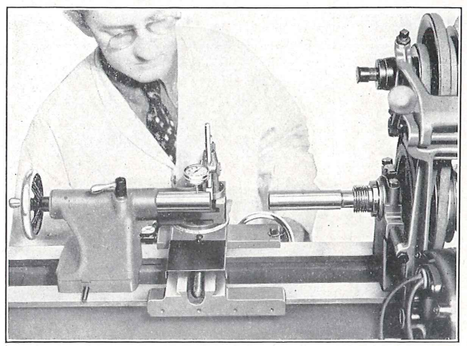
The finished bed—seasoned, milled, ground, ready to go to the assembly line.

Note especially the sturdy, heavy construction of the lathe bed, and how it is frequently cross-braced to further prevent warpage.

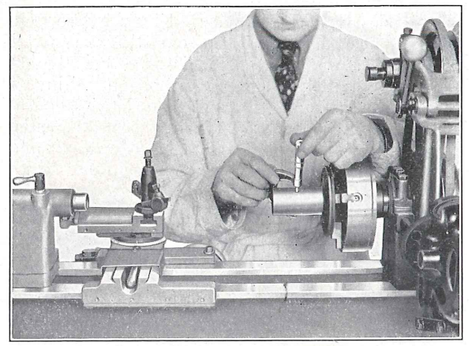
—QUALITY MATERIALS
. . . . A RELIABLE PRODUCT



Here is a representative ATLAS assembly line. Every workman is a proven mechanic who knows his job—and does it well.

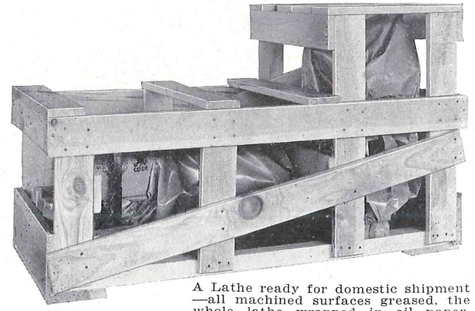


One of the final tests on an ATLAS Lathe. A Dial Test Indicator that shows variations of less than one-thousandths of an inch is being used to check for absolute alignment.



Another test—checking a piece of work with micrometers that has been turned in a master chuck as a final proof of headstock spindle accuracy.

The photographs on these two pages are, in a way, a partial answer to the question we have been asked by so many users of ATLAS equipment — "How can you produce such a fine machine at so low a price?" The reason is simple — by the use of modern production methods and machinery and careful workmanship. In many cases this has resulted in enormous original expenditure but the fine business and genuine satisfaction in knowing that we are producing equipment of real quality has more than repaid us.



A Lathe ready for domestic shipment —all machined surfaces greased, the whole lathe wrapped in oil paper, and then solidly crated.

AN ATLAS LATHE - - - -

A lathe is the most versatile machine any shop can possess. The ATLAS Lathe, built to the very highest machinists' standards, is the ideal machine for *your* shop.

It is used by many of the most prominent manufacturing plants, the big motor car factories, machine shops everywhere for light production work, and in all sorts of industrial plants in their experimental and maintenance divisions. "Nine-tenths of our lathe work has been transferred from a large machine to the ATLAS with resulting economy in power and actual time necessary to perform an operation," says a great middle-west manufacturer.

The ATLAS Lathe is a real dividend-paying investment for the Automobile Service Station, Electric and Battery Shop, etc. It takes the place of many special machines that have a limited scope. On it, for example, valves at any angle may be refaced, pistons turned and ground, new or replacement bushings can be quickly turned up from scrap materials, worn parts can be trued up, armatures trued and the commutator mica undercut, special pulleys, bearings, shafts, etc., can be quickly made, threads cut, and many other jobs that are so frequently sent out to a better equipped shop. An ATLAS Lathe enables you to keep those profits in your own shop.

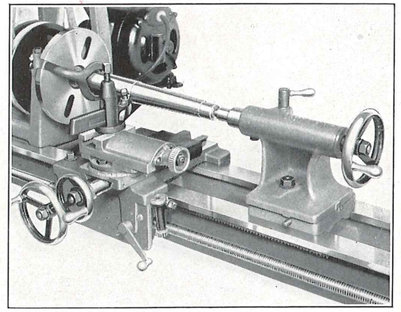
It is used continuously in the Home Workshop for making models, table legs, chairs, cabinets, stands, lamps, etc., of metal or wood, and any number of other home products, besides the multitude of repair jobs that can be done on it of home appliances.

It is used by the inventor who has original ideas to work out and demands a machine capable of hair-line accuracy.

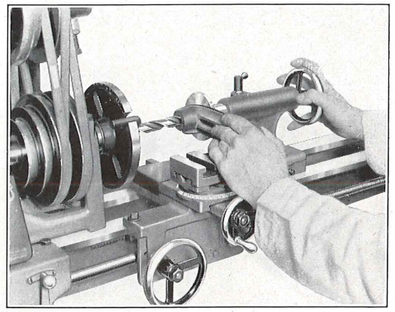
In brief, the ATLAS Lathe is the most ideal and versatile machine for every type of shop. A complete line of attachments, obtainable as the need arises or shop expansion warrants, make possible *every machining operation right on the lathe.* The user may have a complete machine shop at a fraction of the ordinary cost.

ATLAS 9-Series Lathes are featured by the Vee-Belt Drive which gives a maximum of power because loss from slippage is reduced to a minimum; self-contained Countershaft which is an integral part of the Lathe — no outside belts or pulleys to hang from the ceiling, walls, etc.; patented, compound drive which is unusually quiet in operation; precision Lead Screw which insures accuracy when cutting threads even for a distance of many inches; scientific distribution of weight making for the utmost in sturdiness and rigidity; guaranteed accuracy to .001".

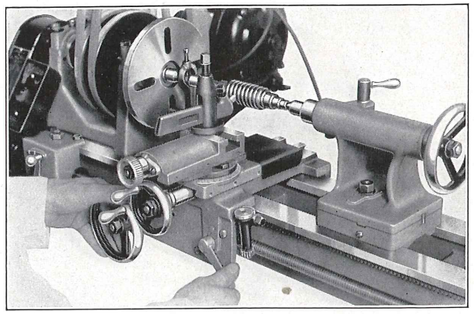
ATLAS 10-Series Lathes have all the above features with a sturdy, back-geared Headstock taking the place of the compound drive.



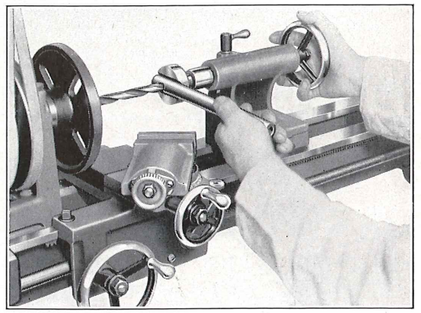
Machining a taper in the ATLAS Lathe. Note the Tailstock set-over.



Drilling a flat piece, using the Drill Pad in the Tailstock.

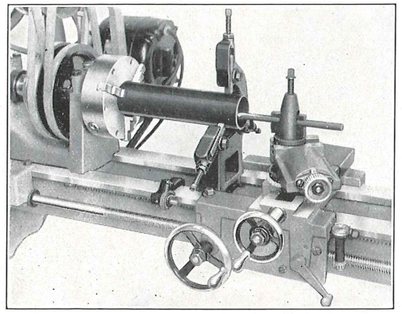


Cutting a left-hand, Acme, thread. Left-hand threads are cut on the ATLAS by simply shifting the Feed Lever. The Threading Dial eliminates possibility of splitting threads.

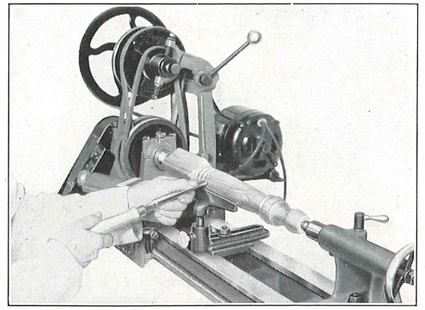


Drilling on the Lathe with the drill held in the Headstock and the Crotch Center in the Tailstock.

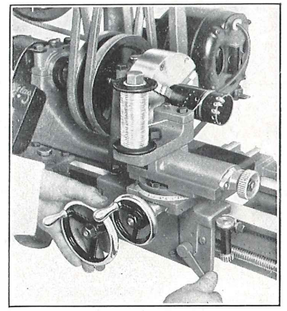
The most versatile machine in your shop



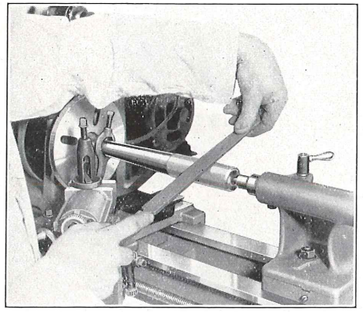
Making an internal cut using Steady Rest and 3-Jaw Chuck. Note the Micrometer Carriage Stop which determines the exact length of the cut.



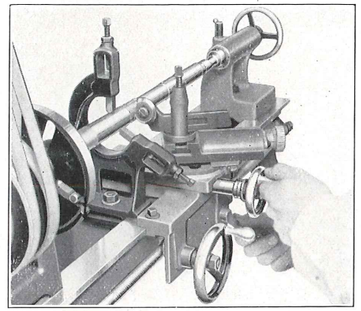
Wood working on the ATLAS. The great variety of attachments for these Lathes brings all operations within easy reach of the user.



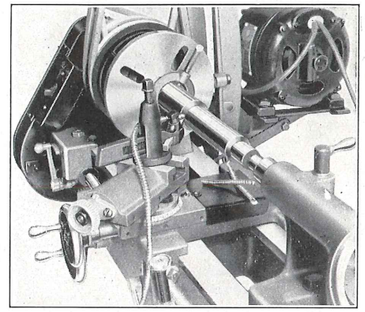
Winding a coil. The wide threading range of the ATLAS facilitates the winding of coils using comparatively fine wire.



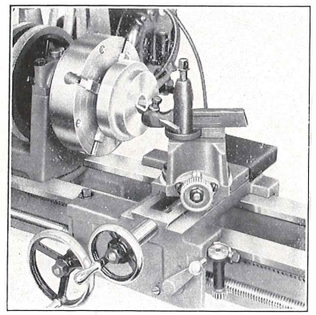
Using a file to polish a rough cut.



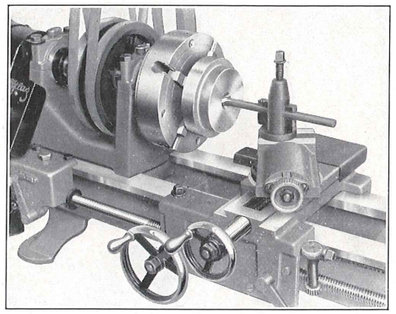
Cutting a thread on a long piece. Note the use of the Steady Rest and special Threading Tool.



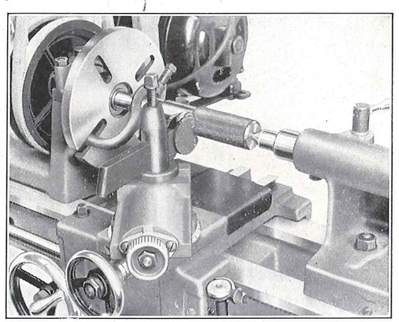
Reducing the diameter of a cold-rolled steel bar ⅜" in one cut.



Facing work held in the 4-Jaw Chuck. The Carriage may be locked in position to provide absolute accuracy.

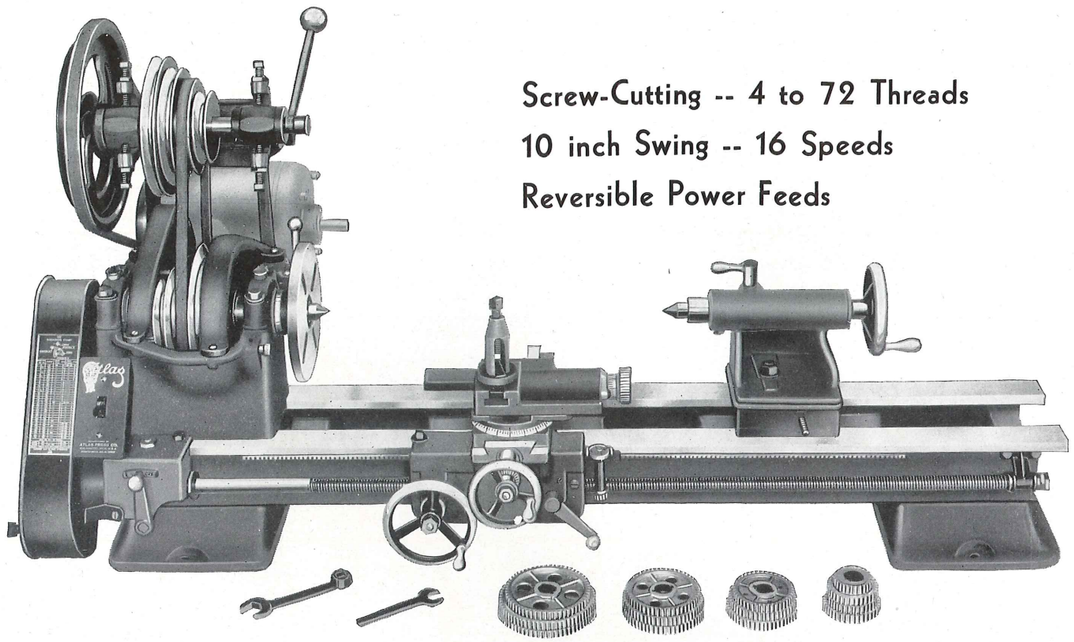


Making an internal cut on work held in the 4-Jaw Chuck.



Knurling a handle.

ATLAS BACK-GEARED



Screw-Cutting -- 4 to 72 Threads

10 inch Swing -- 16 Speeds

Reversible Power Feeds

Construction

ATLAS Lathes are ruggedly constructed of the finest materials to give a lifetime of trouble-free service. The bed is heavy cast-iron with box-type cross-braces spaced every few inches to insure accurate, almost vibrationless, performance (see page 14). The ways are cast integrally with the bed and are surface ground after milling and seasoning. Headstock spindle is made from a fine-grain steel, ground and polished to assure a perfect surface for the bearings. These bearings are the special ATLAS "Custom-Built" of high-speed babbitt, similar to those in an automobile, and are as fine as any lathe bearing known. They are large and heavy and will give years of perfect service. Laminated shims are provided for take-up if ever necessary. Hyatt Roller Bearings are employed in the countershaft for long life and quiet operation. Heavy tailstock has self-ejecting center and is carefully machined to fit ways. It may be set over for taper turning and has a readily accessible clamping lock-nut. Carriage has wide bearing surfaces, micrometer graduated cross feed, and is fitted with a threading dial which greatly simplifies thread cutting. Compound rest is graduated throughout 180° and has a micrometer graduated feed. Adjustable gibs are provided on carriage and compound rest wherever there is opportunity for wear. 60 hole indexing mechanism, supplied on all ATLAS Lathes, is extremely valuable for fluting, dividing, gear-cutting, etc., on the lathe. Scientific distribution of weight and the use of modern V-pulleys and belts successfully reduces total weight without sacrificing stability and accuracy in the least.

Power

ATLAS 10-Series Lathes have more than enough power to do all turning, etc., to the full capacity of the machine. As an example of this plentiful power, we have frequently, in demonstrations, reduced the diameter of a 3½" cold rolled steel or cast iron bar as much as ¾" **in a single cut.** This job can be done with the power feed on, and the cut taken for many inches without a sign of the Lathe stalling. Of course this is more than any machine of this capacity should be called upon to do, but it is an example of the high overload factor present in all ATLAS equipment.

Precision

Every ATLAS metal-working Lathe is tested and guaranteed to do work within .001" of perfect. This is important to the operator as it means that every job he has to do, whether it be set up between centers or on the headstock spindle, will be accurate. Two of the final tests are illustrated on page 15 of this catalogue. There are many others which every Lathe must undergo before it can leave the factory and which, together with our unconditional guarantee, insure absolute satisfaction for every user.

Economy

Due to the very efficient V-belt drive employed on these machines, power loss from belt slippage is kept at an absolute minimum. Consequently the Lathe may be run very successfully at the lower speeds with a ¼ H.P. motor, or at all speeds with ⅓ H.P. The cost of running such motors is only about two cents per hour. The durable construction of ATLAS Lathes means that they may be run for many years with practically no upkeep expense.

Modern, Integral Drive

The self-contained construction of ATLAS Lathes has proven exceptionally popular with machine operators everywhere. Because of the great saving in power and consequent operating economy, practically all recently designed power machinery is being built for individual motor drive. The countershaft on ATLAS Lathes is mounted right on the headstock with the motor mounting bracket suspended at the rear—the most convenient assembly possible. Since the introduction of the ATLAS self-contained Lathe many prominent manufacturers of well-known, expensive lathes have adopted a similar drive for their newer machines. This should be proof enough of the efficiency and superiority of ATLAS construction.

BENCH LATHE

4 to 72 Threads

Change gears are regularly furnished with this model to cut all standard threads from 4 to 72 per inch. This wide range is important not only for thread cutting, but also for the user who wishes to wind coils on his Lathe, as it enables him to wind those using comparatively fine wire. The changing of gears is very simple and a chart is furnished which shows the proper set-up for each thread. The threading dial furnished enables the operator to return to exactly the same starting position for each cut without using a reversing switch and eliminates any possibility of splitting the thread.

Reversible Power Feeds

Throwing a lever on the carriage to lower position engages the automatic power feeds. The lever on the gear box, under the "On-Off" switch, controls the direction of carriage travel—there are no gears to change by hand to accomplish this. This speeds up all turning jobs and facilitates cutting left hand threads.

16 Speeds

The operator has a choice of 16 speeds — quickly selected — of: 28, 45, 70, 83, 112, 134, 164, 211, 266, 345, 418, 500, 685, 805, 1270, and 2072 R.P.M. These are ideal for the heaviest of metal work and large diameters to the lightest of finishing cuts and wood-working.

TIMKEN BEARING EQUIPPED

All ATLAS 10 series metal-working lathes can be supplied with TIMKEN tapered roller bearings in place of the regular babbitt bearings in the Headstock at an additional cost of $18.50. These bearings are ideal particularly for continuous duty at the higher speeds.

REGULAR EQUIPMENT FURNISHED

Graduated Compound Rest; Tool Post, Ring and Wedge; LH Tool Holder; Tool Bit; complete set of Change Gears to cut from 4 to 72 threads per inch; Thread Cutting Chart; Threading Dial; Integral Countershaft; Belts; Pulleys; Switch; Motor Bracket; Face Plate; 2 60° Lathe Centers; Reducing Sleeve for Headstock Center; Tool Post Wrench; Compound Wrench; Lathe Dog; Instruction Book.

SPECIFICATIONS

Swing over Bed ..... 10¼"

Swing over Carriage ..... 7"

Speeds ..... 16, from 28 to 2,072 R.P.M.

Thread Cutting Range ..... 4 to 72 Right or Left Hand

Feed Per Revolution ..... .0087" or .0043"

Lead Screw ..... 8 Acme threads per inch

Headstock Spindle — 1½" diameter, Hollow, $^{25}/_{32}$" hole through entire length, No. 3 Morse Taper with Reducing Sleeve.

Tailstock Spindle — Readily accessible lock, ¾" set-over, No. 2 Morse Taper.

Bearings — High Speed Babbitt, special ATLAS "Custom-Built" with laminated shims for take-up.

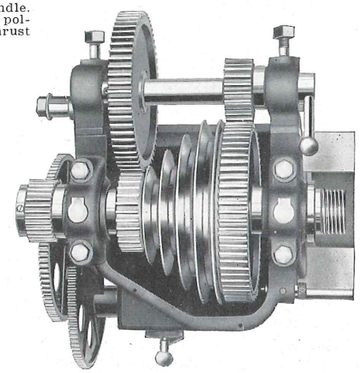
Compound Rest — Graduated 0° to 180°, micrometer graduated collar, 2⅛" Travel, 5½" Cross Feed.

Tool Post — ⅜" x ⅞" slot to take ⅜" Tool Bits or Tool Holder for ¼" Tools.

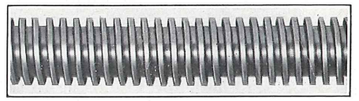
Automatic, reversible power feeds controlled by conveniently located lever.

60 hole Indexing Mechanism.

Alloy steel headstock spindle. Accurately ground and polished. Nose 1½" dia.; thrust take-up.

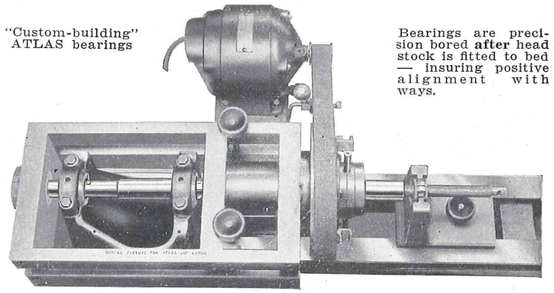


Note the sturdy, oversized construction of the ATLAS back-geared headstock. Heavy, ⅞" wide, 12 pitch gears, insure plenty of power and long life.



Close-up of lead screw. 8 Acme threads per inch. High degree of accuracy makes possible precision thread-cutting, etc.

"Custom-building" ATLAS bearings

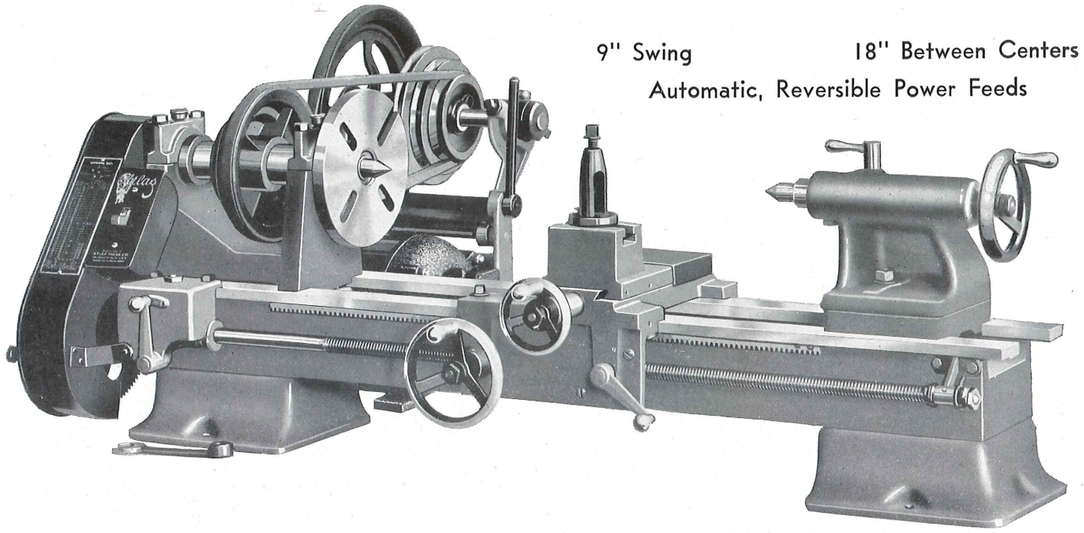


Bearings are precision bored **after** head stock is fitted to bed — insuring positive alignment with ways.

ATLAS BACK-GEARED, SCREW-CUTTING LATHES

Cat. No.	Length of Bed	Capacity Between Centers	Swing Over Bed	Swing Over Carriage	Weight (less motor)	Price (less motor)
1036	36"	18"	10¼"	7"	209 lbs.	$ 82.50
1042	42"	24"	10¼"	7"	221 lbs.	87.50
1048	48"	30"	10¼"	7"	231 lbs.	95.50
1054	54"	36"	10¼"	7"	248 lbs.	105.50

ATLAS UTILITY BENCH LATHE



9" Swing — 18" Between Centers

Automatic, Reversible Power Feeds

ATLAS Utility Lathe, complete as shown-- $54.75 less motor

This Lathe has all the features that have made other ATLAS models extremely popular during the past, except that a bench type Countershaft takes the place of the built-in type, drive is direct through the Countershaft and is not compounded or back-geared, and a plain Tool Rest is substituted for the graduated Compound Rest. Threading Gears are furnished as an extra, as many lathe users have no need for this operation.

The 918 Lathe has the same rugged Bed, Headstock, Spindle, Tailstock, Carriage, etc., as the more expensive machines, and is ideal for all medium duty jobs. Before shipment it must pass the same rigid inspection and carries the same strict accuracy guarantee. It must be capable of doing work within .001" of perfect before it can leave our factory.

Drive is through V-Belts, assuring the maximum in power. Six speeds, from 225 to 1750 R.P.M., are available, and any one of these may be quickly selected. A novel belt tension Lever on the Countershaft releases both the belt going to the Spindle and to the Motor Pulleys so that it is never necessary to move the Motor, once it is properly located.

Gears are furnished for an automatic power feed to the Carriage, which is reversible through gears on the Lead Screw and controlled by the Lever under the ON-OFF switch. This permits the user to get an accurate, smooth finish much more easily than with hand feed lathes and greatly simplifies long turning jobs. The Tailstock may be set over so that accurate taper work may be performed as well on the ATLAS 918 Lathe.

This machine is of distinctly superior quality throughout and is a Lathe that anyone may very well be proud to own. Carefully constructed of the finest materials, it will give a lifetime of accurate, trouble-free service.

SPECIFICATIONS

Swing over Bed ..... 9"
Swing over Carriage ..... 6"
Maximum Distance between Centers ..... 18"
Speeds ..... 255, 421, 630, 695, 1040, 1750 R.P.M.
Feed, per spindle revolution ..... .0087"
Lead Screw ..... 8 Acme threads per inch

Headstock Spindle—1½" dia.; ¾" hole through entire length; alloy steel, accurately ground finish; No. 3 internal Morse Taper with reducing sleeve to take No. 2 M. T. Center; Nose has No. 8 U.S.F. thread; ATLAS "custom-built" Babbitt Bearings; Take-up for wear; thrust adjustment provided for.

Tailstock Spindle—Heavy, with easily accessible lock to clamp in place at any point on Bed; Sleeve and Center have 2½" travel; No. 2 M.T. to take Center; can be set over ⅞" for taper turning.

Lathe Bed—Semi-Steel of rugged design, seasoned carefully to prevent warpage; flat ways surface ground to minimize wear.

Carriage—Automatic longitudinal feeds accomplished by engaging 2 half nuts with lead screw; position lock for accurate facing; 5" cross travel; adjustable gibs permit compensation for wear.

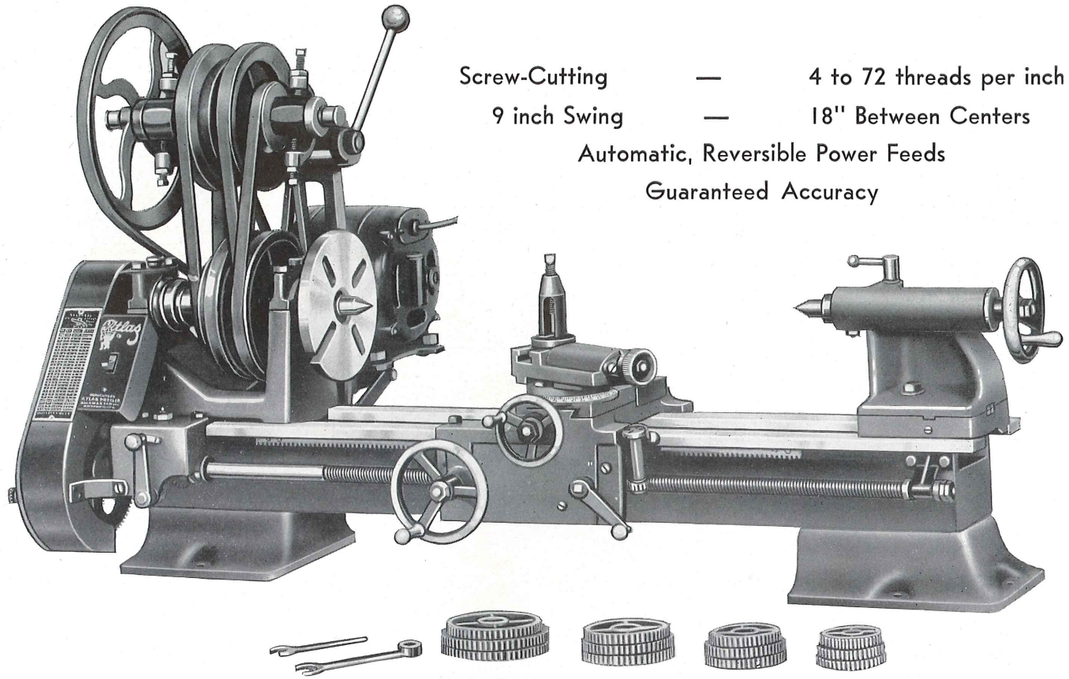
REGULAR EQUIPMENT FURNISHED

Feed Gears; Countershaft; Belts; Pulleys; Switch; Face Plate; Lathe Centers; Tool Post; Tool Post Wrench.

ATLAS UTILITY LATHE

No. 918 as described $54.75
No. 918A as above plus threading dial and gears to cut 4 to 72 threads per inch 58.75
No. 918B has graduated Compound Rest and Gears to cut from 4 to 72 threads per inch 62.75
No. 936 is same as above but has unit-type, integral Countershaft and compound drive 69.75

ATLAS COMPOUND DRIVE LATHE



Screw-Cutting — 4 to 72 threads per inch

9 inch Swing — 18" Between Centers

Automatic, Reversible Power Feeds

Guaranteed Accuracy

This is practically the same fine Lathe that we sold for several years at $79.00. What few changes we have made have been distinct improvements, and the quality has been made even higher through improved manufacturing methods. At the same time, these new methods have brought about a reduction in manufacturing costs. In accordance with the established ATLAS policy, these savings are passed on to our customers. Hence the new low price that makes this machine a very outstanding value.

The ATLAS 936 Lathe has the same built-in countershaft as the back-geared models and the drive is either direct from the Motor to the Countershaft to the Spindle, or compounded through a series of speed-reducing pulleys. This compound drive is fully protected by U.S. patents and is novel in that it assures a perfectly steady pull without backlash and gives a remarkably fine finish to the work, especially on finishing cuts, without a sign of chatter marks.

The 936 machine must undergo the same rigid tests for accuracy as the more expensive models and carries the same broad guarantee. Several thousands of these Lathes are now in use all over the world in manufacturing plants, machine shops, pattern shops, automotive service shops, vocational shops—in fact, this model ATLAS Lathe is being used every day for every type of machine work. Results have been splendid and the users have never regretted their choice.

The 936 is a precision lathe and is the answer for the shop having lathe work to do but not requiring the great power found in our back-geared model (the 936 has plenty of power for all average work). All attachments shown on pages 24 through 30 fit this model.

SPECIFICATIONS

The Specifications for this machine are the same as for the 918, shown on page 22, except for the Threading Gears furnished, the Compound Rest, Threading Dial, and Integral Countershaft.

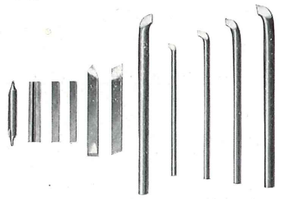
This Countershaft is fitted with roller bearings for long life and smooth, quiet operation. One belt only to shift to select any of 6 speeds (from 47 to 600 R.P.M.); Shift Collar to select either direct or compound drive. Compound Rest graduated 0° to 180°; 2⅛" travel; adjustable gibs.

Overall length—42", depth—21", height—24".

ATLAS COMPOUND DRIVE LATHE

No.	Bed Length	Dist. Between Centers	Swing	Weight	Price less Motor
936	36"	18"	9"	185 lbs.	$69.75

ATLAS LATHE ATTACHMENTS



TOOL POST TOOLS

High-speed steel; to be used directly in the Tool Post of lathe. Ready ground. Set consists of 5 Boring Tools: 1⅜" Turning Tool; 1⅜" Threading Tool; 3 Spacers. **No. 380** **$4.60**
Wt. 2 lbs. (set).

Countersink and Drill for Centering—**No. 395—$ .35.** Wt. 2 oz.

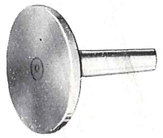
A B C D E F

TOOL HOLDER TOOLS

High-speed steel, ready ground to shape. ¼" square; to be used in Tool Holders listed on this page. Wt. 8 oz. (set).

386A—R.H. Turning Tool
386B—L.H. Turning Tool
386C—R.H. Facing Tool
386D—L.H. Facing Tool
386E—R'd. Nose Turning Tool
386F—Threading Tool

Each .....**$ .20**
386G Unground Tool Holder Tools, each ..... **.10**
Shipping weight—2 oz. ea.



DRILL PAD

No. 2 Morse Taper shank; designed to be used as a base in the tailstock spindle when drilling flat or square work with the drill held in the headstock spindle.
No. 361 .....**$1.75**
Wt. 1 lb.

CROTCH CENTER

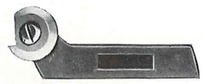
No. 2 Morse Taper shank. To be used in the tailstock when drilling round work with drill held in headstock spindle. **No. 356** **$1.75**
Wt. 1 lb.

TOOL HOLDERS

ATLAS Tool Holders are made from drop-forged steel to insure the longest life and ruggedness necessary for the finest work.
Straight **No. 139** **$1.10**
L.H. Offset **No. 139L** **1.10**
R.H. Offset **No. 139R** **1.10**
Wt. each 1 lb.

CUT-OFF TOOL

Furnished complete with high-speed, ready-sharpened, cut-off tool and drop-forged holder, as shown. **No. 590....$1.50**
Wt. 1 lb.



THREADING TOOL

Ready ground to 60° all around circumference. To sharpen, it is only necessary to grind top. Circular construction makes the ATLAS Threading Tool the equivalent of a straight tool approximately 3¾" long. Furnished complete with cutting tool and drop-forged holder, as shown.
No. 430 .....**$2.50**
Wt. 1 lb.

KNURLING TOOL

For knurling in the lathe. Furnished complete with set of medium knurls and drop-forged holder, as shown.
No. 340 .....**$2.95**
Wt. 1 lb.

LARGE FACE PLATE

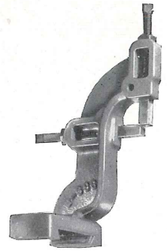
Used where a quantity of large work is to be done on the lathe. Diameter 8½": fitted to lathe. **No. 365**.....**$3.75**
Wt. 6 lbs.

LATHE DOGS

Drop-forged construction to insure ruggedness and long life.
½" **No. 142**.....**$ .45**
¾" **No. 143**..... **.55**
1" **No. 144**..... **.65**
1½" **No. 145**..... **.75**
Wt. 2 lbs. (set).

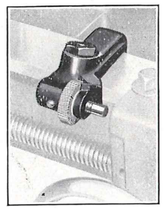
STEADY REST

Extremely valuable when taking a short cut on a long, slender piece of work. Sturdy construction, brass jaws to prevent scoring of the work. Handles work having a maximum diameter up to 2⅞".
No. 9-325 for 9-Series Lathes.....**$5.00**
No. 10-325 for 10-Series Lathes..... **5.00**
Wt. 4 lbs.



FOLLOWER REST

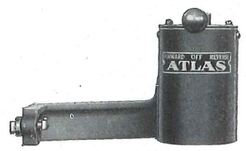
Fastens to back of carriage and follows cutting tool. Used when taking a long cut on small diameters. Steel jaws.
No. 425 .....**$2.50**
Wt. 3 lbs.



CARRIAGE STOP

Micrometer graduated. Adjustable for exact facing or to determine accurately the length of a cut. **No. 315**.....**$3.50**
Wt. 1 lb.

for Series 9 and Series 10 Lathes



REVERSING SWITCH

Permits rotation of the lathe spindle in either direction. A necessity when a grinder is used on the lathe. Furnished complete with mounting bracket, card, and wiring diagram. Not for Repulsion-Induction Motors. **No. 420**.....**$6.00**
Wt. 7 lbs.

REVERSING SWITCH

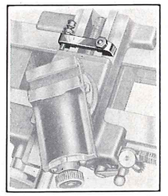
This Switch is a recent development of the ATLAS Engineering Department. Small and compact, yet very efficient, it takes the place of the regular On-Off Switch. Not for Repulsion-Induction motors.
No. 420A **$3.25**
Wt. 2 lbs.

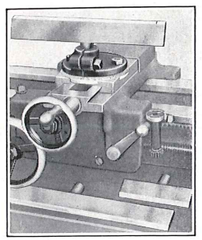
JACOBS DRILL CHUCK

This Chuck, together with the No. 378 Morse Taper Arbor, makes an ideal holder for drills, etc., in either the Headstock or Tailstock Spindle of the Lathe. Furnished complete with key type adjusting wrench.
No. BD1-60 Cap. 1/16" to ½".....**$5.75**
No. 40-60 Cap. 0" to ½"..... **6.75**
Wt. 3 lbs.

CROSS SLIDE STOP

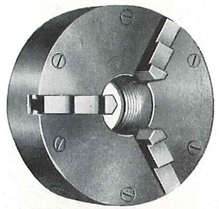
Valuable for determining the depth of a cut. Particularly useful for threading or repetitive operations.
No. 9-725 .....**$2.00**
Shipping wt.—8 oz.





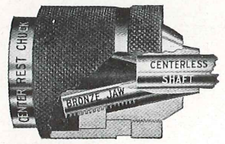
HAND REST SWIVEL

Clamps to Carriage in place of Compound Rest, for wood turning. Furnished complete with three T Rests—4", 8" and 12".
No. W-27 ..**$4.00**
Shipping wt.—4 lbs.



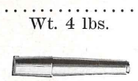
UNIVERSAL CHUCK, SCROLL TYPE

5" capacity. This is a truly first quality, heavy duty, chuck designed and manufactured for the ATLAS Lathe by a prominent chuck manufacturer. A remarkable value at our low price. Furnished with 2 sets of reversible jaws and clamping wrench. Threads directly on the headstock spindle without necessitating the purchase of special adapter plate.
No. 435 .....**$17.50**
Wt. 7 lbs.



JACOBS CENTER REST CHUCK

Used in the Tailstock Spindle of the Lathe with No. 377 Arbor to hold centerless armatures. Very valuable in the Automotive and Electric Shop.
No. 445 .....**$7.50**
Wt. 4 lbs.



Special Arbor to adapt No. 375 or No. 445 Chuck to Tailstock. **No. 377**.....**$ .60**
Wt. 1 lb.
Arbor to adapt No. BD1-60 or No. 40-60 Chuck to Tailstock. **No. 378**.....**$ .60**
Wt. 1 lb.

CUP CENTER

No. 2 Morse Taper Shank. Used in the Tailstock of Lathe when turning wood.
No. 351 .....**$1.00**
Wt. 1 lb.

SPUR CENTER

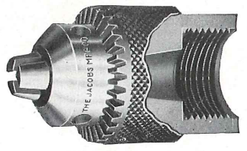
No. 2 Morse Taper Shank. Used in the Headstock as a driver when turning wood on the Lathe. **No. 350**.....**$1.00**
Wt. 1 lb.

SCREW CENTER

No. 2 Morse Taper Shank. Used in the Headstock when doing facing and hollowing operations. **No. 352**.....**$1.75**
Wt. 1 lb.

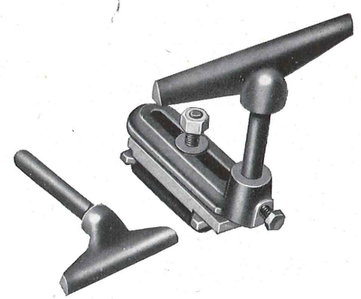
INDEPENDENT CHUCK

6" capacity. A rugged, heavy duty 4-Jaw Chuck designed and manufactured especially for the ATLAS Lathe by a prominent chuck manufacturer. Threads directly on the Headstock Spindle, requiring no special adapter plate. Heavy, reversible jaws. Furnished complete with clamping wrench.
No. 370 .....**$9.95**
Wt. 9 lbs.



JACOBS HEADSTOCK SPINDLE CHUCK

This Chuck will take the place of a number of expensive collets. It threads directly on the Headstock Spindle of the lathe for turning, grinding, etc., small work. Of especial value for the shop using the Lathe to turn or grind valves. Furnished in two sizes, complete with adjusting key-type wrench.
Cap. ⅛" to ⅝". **No. 375**.....**$9.00**
Wt. 4 lbs.
Cap. ¼" to ¾". **No. 375B** **$12.00**
Wt. 4 lbs.

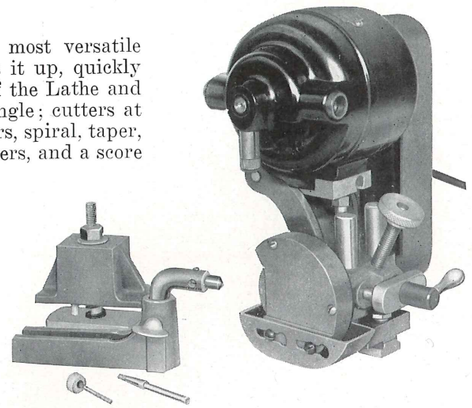


WOOD WORKING HAND REST

Consists of sturdy base which clamps to lathe bed and two Tee Rests—4" and 12". **No. 330** **$2.50**
Wt. 5 lbs.

ATLAS UNIVERSAL

This LATHE GRINDER is the most versatile item of equipment we know of. Set it up, quickly and easily, in the Tool Post Slide of the Lathe and it is ready to grind valves at *any* angle; cutters at any angle; pistons; bushings; reamers, spiral, taper, or straight; valve stems; Lathe Centers, and a score of other jobs that demand precision and a polished finish. A novel raising screw and clamp makes this Grinder readily adaptable for *any Lathe*. This raising screw also permits Mica Undercutting on armatures having a commutator diameter up to 6". This range includes all automobile and airplane armatures.



No. 450

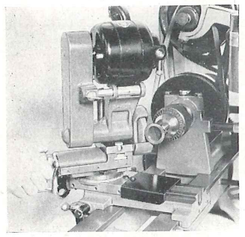
$44.65

COMPLETE

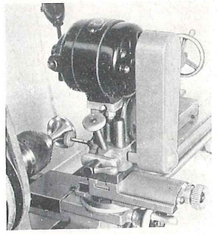
Equipment Furnished Includes—

⅛ H.P. Dumore, Universal Motor; 2-step Pulleys; Ball-Bearing Spindle; 1 External Grinding Wheel; 1 Internal Grinding Wheel; (Specify which wheels desired); Quill for Internal Grinding and Mica Undercutting; set of 5 Undercutting Saws; complete Diamond Dresser.

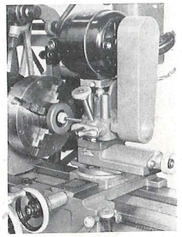
Shipping Weight 24 lbs.



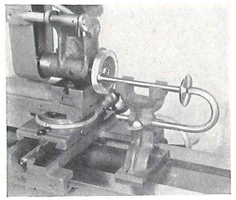
Grinding a 45° Valve with external Grinding Wheel.



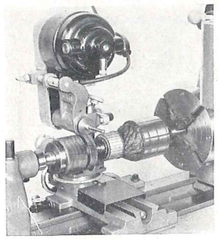
Grinding a 90° Valve using internal Grinding Wheel.



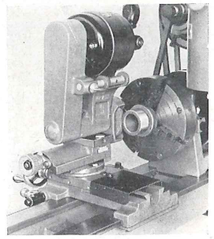
Grinding the inside of a bushing.



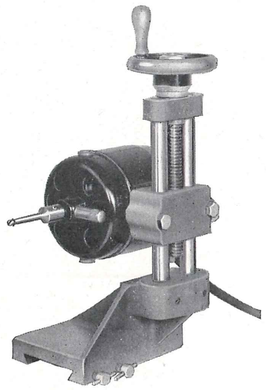
Grinding Stem of new type Ford Valve. This method insures accuracy and uniformity.



Undercutting mica on an armature supported by 4-Jaw Chuck and Center Rest Chuck.



Grinding the outside of a bushing.



No. 510

$19.35

COMPLETE

Ready to go to work

Furnished with Dumore Universal Motor, Switch, Cord, and Set of 5 Undercutting Saws. (1 each size)

Shipping weight—12 lbs.

ATLAS MICA UNDER-

The ATLAS Mica Undercutting Attachment is truly designed for production work. It fastens to the back of the Carriage where it is out of the way while the truing cut is being made yet it can be put into action in a few seconds. When using the Undercutter it is not necessary to remove the Cutting Tool or Tool Holder — this slides out of the way when the Undercutter is brought into position.

This unique arrangement makes the ATLAS Mica Undercutter ideal for the Electric Service Station or Garage where speed and precision are so important.

LATHE GRINDER

GRINDING WHEELS, UNDERCUTTING SAWS, ETC.

No. 475	External Grinding Wheel for steel, 2¾" diameter	$ .80
No. 476	External Grinding Wheel for cast iron, 2¾" diameter	.80
No. 477¼	Internal Grinding Wheel, ¼" diameter	.35
No. 477½	" " " , ½" diameter	.35
No. 477¾	" " " , ¾" diameter	.35
No. 4771	" " " , 1" diameter	.35
No. 478	Special cup wheel for grinding O.D. of reamers	1.50
No. 479	Special wheel for grinding face of solid reamers	.40

Mica Undercutting Saws are furnished in five thicknesses—.015", .020", .025", .030", .035". Set of 10 saws—(2 each size) $2.10

SPECIAL ATTACHMENTS

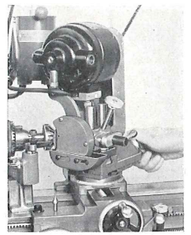
Reamer Grinding Attachment; includes special holding fixture and index finger guide, spring tension clamp. **No. 535** 7.65

Valve Stem and Cutter Grinding Attachment; includes Vee Block for grinding valve stems, cutter clearance gauge, cutter arbor, and index finger for grinding reseating cutters. **No. 550** 6.25

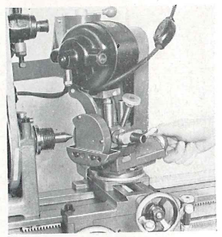
Two Grinding Wheels, one for external work and one for internal work, are furnished as regular equipment with No. 450 Grinder. Select the wheels you desire from the above list.

Prices on special wheels, not listed above, furnished on request.

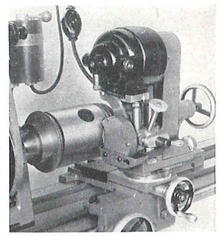
We recommend No. 420 or No. 420A Reversing Switch for use with Grinder



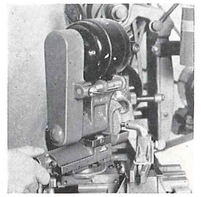
Grinding a Reseating Cutter. Note use of Index Finger to hold Cutter in proper position always.



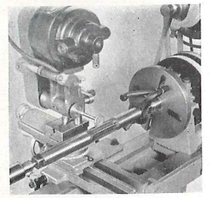
Grinding a Lathe Center.



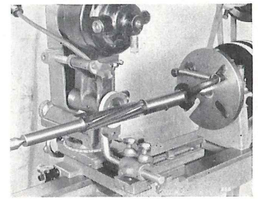
Grinding a Piston set up in Piston Holding Attachment.



Using Diamond Dresser to renew grinding surface of Wheel.



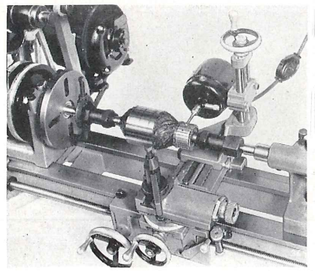
Grinding cutting edge of Reamer without reducing outside diameter.



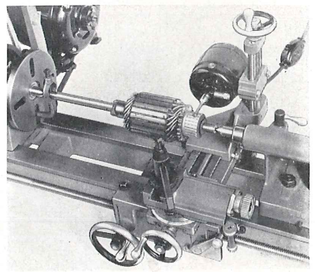
Grinding outside diameter of Spiral Reamer. Note spring and Index Finger that hold Reamer in proper position.

CUTTING ATTACHMENT

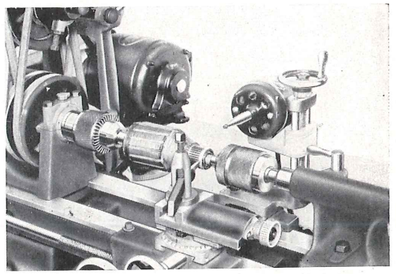
Note in photographs below that the cutting tool and Mica Undercutter are in position always and need not be removed to use the other.



Undercutting mica on armature using special Centering Collets.

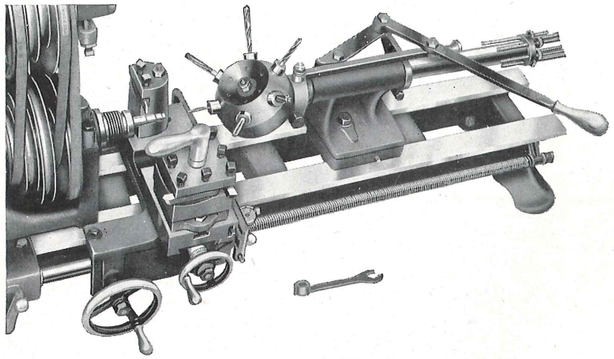


Undercutting mica on armature mounted between centers.



Truing up an armature supported by Headstock Spindle Chuck and Center Rest Chuck preparatory to undercutting mica.

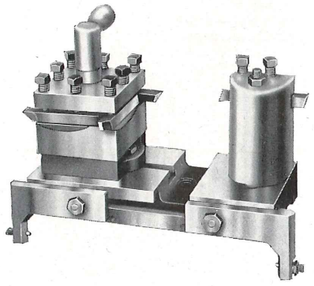
ATLAS TURRET ATTACHMENT



Ingeniously designed, the ATLAS Turret Attachment quickly converts either a 9-Series or 10-Series Lathe into a first class turret lathe—at a fraction of the usual cost.

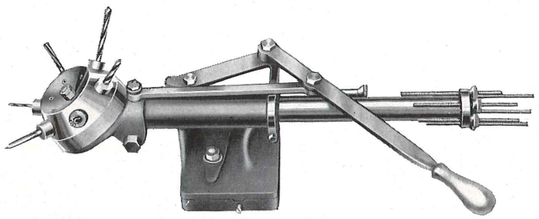
Both the Tool Post and Tailstock Turret Heads are accurately indexed for positive return to correct position. Rigid construction insures the retention of this accuracy and makes the attachment ideal for light production on screw machine jobs.

The Tailstock Turret may be supplied drilled, but not finish bored, or bored on the lathe with which it is ordered.



The Transverse Turret Attachment mounts on the Lathe Carriage in place of the Compound Rest and provides five individual operations such as threading, facing, turning, and cutting-off. A convenient lock handle releases the Turret Head so that it may be quickly rotated to the next operating position where it is automatically indexed. Adjustable stops at both front and back may be set to gauge the correct depths for the various cuts to be taken. Threading is done by installing the threading gears according to the chart and utilizing the longitudinal carriage feed. Tool Posts take ⅜″ Bits.

Double Tool Cross Slide **$13.85**
4-Way Tool Post Turret **19.65**
Back Slide Tool Post **6.35**



The Tailstock Turret Attachment has a semi-automatic indexing head with provisions for six tools, permitting six separate operations. Each of the six may be accurately gauged for depth by means of the individual stop screws provided. Feeding is done with the expedient Hand-Feed Lever, which, returned to the extreme right, automatically unlocks the Turret Head so that it may be moved to the next position.

Tailstock Turret (unbored) **$22.50**
Tailstock Turret (bored) **32.50**
Special Tailstock, Lever Feed, and Stops **15.50**

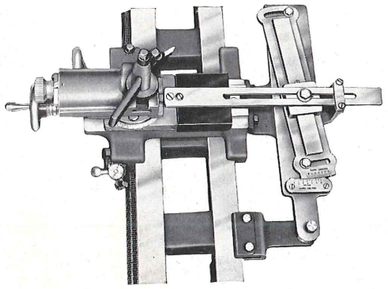
ATLAS TAPER ATTACHMENT

The Taper Attachment is used and preferred when there is any quantity of taper turning to be done on the Lathe. In addition, taper boring can be done with this Attachment whereas it is impossible with the Tailstock set-over. This Attachment is extremely accurate and is recommended for production of duplicate taper work.

The ATLAS Taper Attachment fits both the 9 and 10 Series Lathes and is very easily attached. It need not be removed for straight turning. Swivel Bar is accurately graduated in both degrees and inches of taper per foot.

Maximum length of taper; 7¼″ in one setting; Range: 0 to 7° 10′, right or left, or 3″ per foot.

No. 10-700—Wt. 15 lbs. **$39.50**



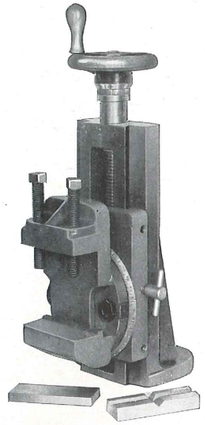
Taper Attachment may be firmly clamped at any point along Bed.

ATLAS MILLING ATTACHMENT

With the ATLAS Milling Attachment it is easy to do on the Lathe all the work of a small Milling Machine—do it just as well, and at a fraction of the cost. It is sturdily constructed and makes an ideal companion for the Lathe.

To fit this attachment in place it is only necessary to remove the Compound Rest and clamp the base of the Milling Attachment in its place.

If work to be milled is too large to fit the vise regularly furnished, this may be removed and a clamping plate fastened in its place.



ATLAS MILLING ATTACHMENT

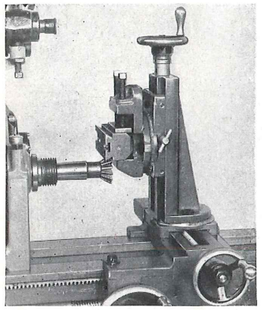
No. 500 — Wt. 13 lbs. — **$13.75**

Complete as illustrated with graduated Swivel Vise; V-Block for holding round work; Flat Block.

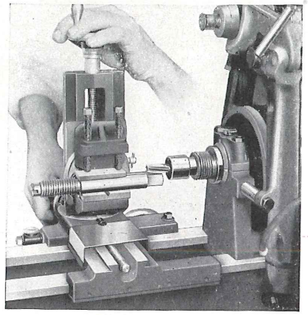
Capacity of Vise	2⅜″
Depth of Jaws	⅞″
Width of Jaws	2½″
Vertical Feed	2¾″
Cross Feed	5 ″

Micrometer graduated Vertical Feed Screw.

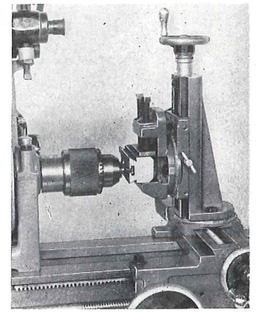
This Attachment fits both 9-Series and 10-Series Lathes.



Milling a Dovetail



Squaring the end of a round shaft



Milling a T-Slot

MILLING CUTTERS -- HIGH SPEED STEEL

These are standard, highest quality Cutters and may be held in the Lathe Headstock Taper or by means of a Chuck or Special Holding Collet. Any regular Cutters may be used that have a straight shank, No. 2, or No. 3 Morse Taper.

New Low Prices

Angular Cutters with threaded hole

For face milling or dovetailing.

1¼″ diameter x 7/16″ thick; ⅜″ hole, 24 thread.
No. 574 A **$3.25**
1⅝″ diameter x 9/16″ thick; ½″ hole, 24 thread.
No. 574 B **3.65**
Shipping weight—6 oz. each.

Straight Shank; Woodruff Keyway Cutters

½″	diameter	x ⅛″	thick; ½″	shank.	**No. 575A** **$1.70**
¾″	"	x 3/16″	" ; ½″	"	**No. 575B** **1.85**
1 ″	"	x ¼″	" ; ½″	"	**No. 575C** **2.30**
1⅛″	"	x 5/16″	" ; ½″	"	**No. 575D** **2.65**
1¼″	"	x ⅜″	" ; ½″	"	**No. 575E** **2.95**

Shipping weight—6 oz. each.

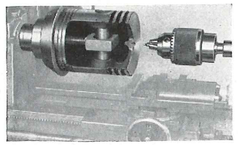
R. H. Cut R. H. Spiral Straight Shank End Mills

¼″	diameter,	⅝″	Flute.	**No. 576A** **$1.25**
5/16″	"	11/16″	"	**No. 576B** **1.35**
⅜″	"	¾″	"	**No. 576C** **1.45**
7/16″	"	⅞″	"	**No. 576D** **1.55**
½″	"	15/16″	"	**No. 576E** **1.95**
⅝″	"	1⅛″	"	**No. 576F** **2.15**

Shipping weight—4 oz. each.

Holding Collet (see cut) for straight shank Cutters. Furnished with 2 arbors to take threaded hole Angular Cutters, etc. **No. 565** **$5.75**

ATLAS PISTON EQUIPMENT

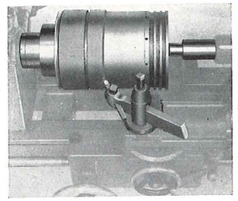


Locating Centering Hole

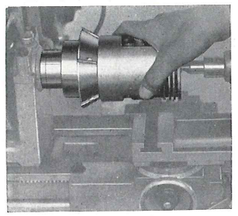
With the equipment shown above, the proper size Centering Cone, and Skirt Reamer excellent Piston finishing work can be done on ATLAS 9 or 10-Series Lathes.

Driving Adapter; Driving Dog; Driving Dog Extension. **No. 400**.....**$6.45**

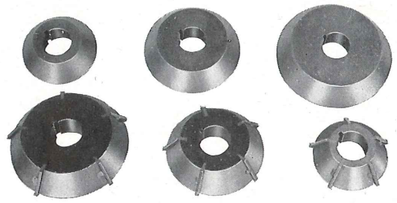
Weight—4 lbs.



Taking a Cut on Semi-machined Piston



Reaming chamber in Piston Skirt to fit Cone Rings



SELF-CENTERING CONES

Capacity 2¼" to 3¼". Wt. 2 lbs.
No. 405.....**$1.50**

Capacity 3 3/16" to 4 3/16". Wt. 3 lbs.
No. 406..... **1.90**

Capacity 4⅛" to 5⅛". Wt. 5 lbs.
No. 407..... **2.50**

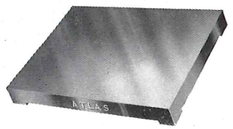
PISTON SKIRT REAMERS

Capacity 2¼" to 3¼". **No. 408.**
Wt. 2 lbs.....**$6.00**

Capacity 3 3/16" to 4 3/16". **No. 409.**
Wt. 3 lbs..... **8.00**

Capacity 4⅛" to 5⅛". **No. 410.**
Wt. 5 lbs..... **9.50**

SURFACE PLATE



This Surface Plate is an item of equipment that will prove its worth many times over in any shop. It is extremely handy for checking flat surfaces, straightness, etc., and will aid materially in checking the accuracy of a part. Made from carefully seasoned cast-iron with an accurately planed surface. Dimensions are 12" x 16" x 2" high.

No. K-25—Weight 58 lbs.....**$8.00**

CENTER GAUGE

The Center Gauge is a tool that is practically a necessity to every lathe operator, as it is used by practically every mechanic to assist him in properly grinding and setting a threading tool. 60° angles are used, and the Gauge is graduated in 14ths, 20ths, 24ths, and 32nds of an inch which are useful divisions in measuring the number of threads to the inch. There is also a table on the Gauge for determining the proper size tap drill to use for each thread. Gauge is tempered.

No. 9-545—Wt. 2 ozs., each.....**$ .50**

FLOOR LEGS

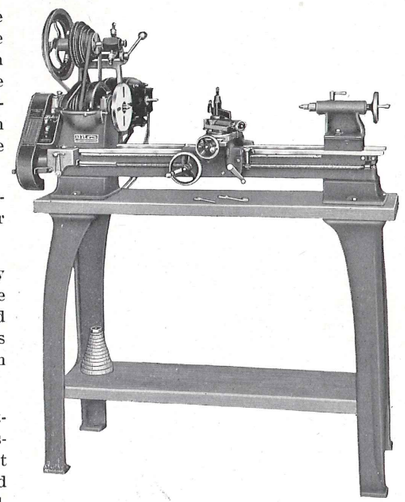
This set-up is ideal for the shop where it is necessary or desired to keep the lathe off the workbench and apart from the other tools. These Floor Legs are sturdily constructed of cast-iron and assure absolute rigidity and freedom from vibration, which is so desirable for the most accurate work.

They are heavily ribbed and cross-braced, having a net weight of 80 lbs. per set without the table boards.

The Legs are so designed that they may be used by themselves, without the table boards, if preferred. Many factories and vocational shops have batteries of ATLAS Lathes set up this way, for production work or educational instruction.

With the table boards added to the set-up, as shown in the accompanying illustration, the operator has a convenient place to keep chucks, wrenches, gears, and other accessories that are frequently used. When this set-up is ordered the boards are supplied ready drilled and with a highly-polished, varnished finish.

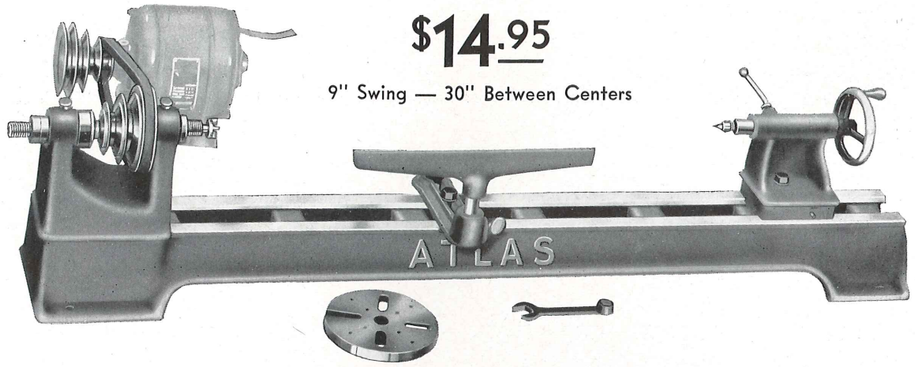
Floor Legs only—Wt. 105 lbs.
No. 10-441, per set.....**$12.00**



Floor Legs and Table Boards
—Wt. 150 lbs., **No. 10-442A**.....**$18.25**

Price listed is for table boards for 36" Beds; for longer lengths, add $.75 for each 6" additional. Be sure to state size and serial number when ordering.

ATLAS WOOD WORKING LATHE



$14.95

9" Swing — 30" Between Centers

The ATLAS 944 Lathe is a well-built machine designed to give excellent service doing all wood working jobs and even occasional metal turning with the special attachments shown on page 34.

The Bed is heavy cast-iron, carefully machined along the Ways to give an accurate fit for the Headstock, Tailstock, and attachments. Headstock is hollow, having a ⅜" hole through its entire length, takes No. 1 Morse Taper Centers or Arbors, and is threaded at both ends so that outboard turning may be done over the end of the bench. Tailstock is sturdy with readily accessible clamping lock.

A complete line of attachments is available for this Lathe (shown on page 34) so that all kinds of work are within reach of the operator.

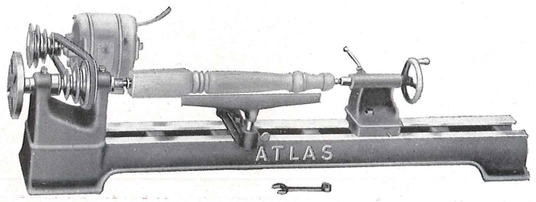
- Heavily reinforced grey-iron Bed — 44" long, 3" high.
- Rugged, engine-lathe type Headstock.
- Heavy-duty Ball Thrust Bearing on Spindle.
- Spindle Bearings of Oilless Bronze.
- Hollow steel Spindle with ⅜" hole; threaded on both ends.
- Spindle Pulley carried between Bearings, thus dividing tangential belt pull uniformly.
- Tailstock has Center ejector, positive Spindle Lock.
- Tailstock may be set over for Taper Turning.
- 12" Hand Tool Rest furnished.
- Wide speed range of from 700 to 4,000 R.P.M.

SPECIFICATIONS

Swing over Bed .....9¼"
Length of Bed .....44"
Maximum Distance between Centers.....30"
Headstock Spindle Bearings.....**Oilless Bronze**
Spindle Thrust Bearing.....**Large Ball Bearing**
Tailstock Ram travel .....1⅞"
Speeds.....**700, 1,300, 2,300 and 4,000 R.P.M.**
Tailstock set-over .....⅝"
Centers—No. 1 Morse Taper to fit both Spindles.
Hand Tool Rest width.....12"
Shipping Weight .....**67 lbs.**

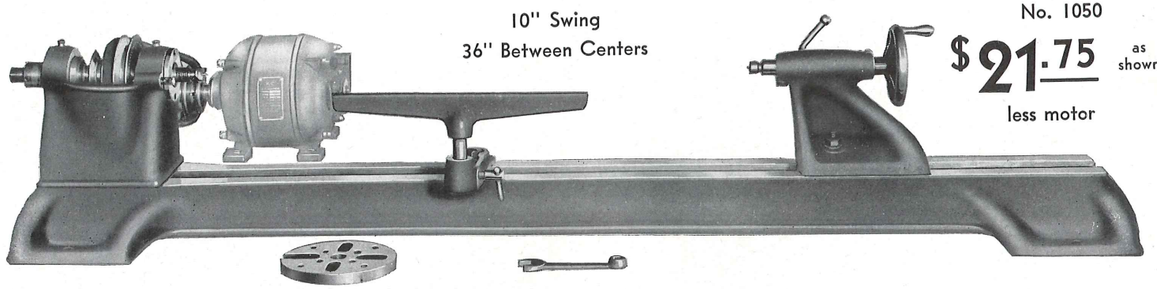
REGULAR EQUIPMENT FURNISHED

12" Hand Tool Rest; 5¼" Face Plate; Spur Center; Cup Center; Pulleys; Belt; Wrench.



A table leg set up in the ATLAS 944 Lathe. Note also the Face Plate which may be screwed on either end of the Spindle.

ATLAS 10" BALL-BEARING



10" Swing
36" Between Centers

No. 1050
$21.75 as shown
less motor

- Heavily reinforced grey-iron Bed—50" long, 3-1/2" high.
- Hollow steel Spindle with 3/8" hole—threaded at both ends.
- Spindle Pulley carried between Bearings, dividing tangential belt pull uniformly.
- Heavy duty Tailstock with readily accessible clamping lock.
- Self-ejecting Tailstock Center; positive Spindle lock.
- Headstock Spindle runs in Deep-Groove SKF Ball-Bearings.
- Wide speed range of from 700 to 4,000 R.P.M.
- Motor may be mounted below or in back of Lathe.
- Complete line of Attachments available.
- Rugged construction throughout assures long, accurate life.
- 60 hole Indexing Mechanism.

The ATLAS 1050 Wood Working Lathe is designed for the shop that needs a truly fine machine for this type of work. No effort or expense has been spared to make it the best speed Lathe that can be built. Deep-Groove SKF Ball-Bearings were selected for the headstock because of their known dependability and long life. They are of the radial thrust type and are the finest bearings obtainable for accurate service at continued high speeds. The spindle driving pulley has four steps and is mounted between the bearings. This construction divides the tangential belt pull equally and is one of the features that assures accuracy in the headstock even after the Lathe has had constant hard usage.

The spindle pulley has 60 indexing holes in the face and a pin goes through the headstock to engage these. This indexing mechanism is extremely useful for dividing, fluting, etc., on the Lathe. Work may be divided accurately into any number of sections divisible into 60.

The Lathe Bed on the 1050 is seasoned cast-iron. It is unusually heavy for a wood working lathe and is cross-braced every 5" to insure absolute rigidity and great strength. The Ways are integral with the bed and are carefully machined so that the Tailstock fits perfectly and slides easily.

The Headstock is exceptionally heavy and wide so that the belt may be run down between the ways of the machine to a driving motor which may be on a shelf under the Lathe or on a mounting bracket such as in the set-ups shown on the opposite page. The Headstock is closed in front to provide for the maximum of safety and open at the back so that the belt may be run to a motor mounted on the back of the bench, if preferred.

SPECIFICATIONS

Swing over Bed ..... 10"
Length of Bed ..... 50"
Maximum distance between Centers ..... 37"
Headstock Spindle Bearings SKF Ball Bearings. Thrust take-up provided for.

Speeds 700; 1,300; 2,300; 4,000 R.P.M.
Tailstock Ram Travel ..... 1¾"
Centers—No. 1 Morse taper to fit both spindles.
Hand Tool Rest width ..... 12"
Shipping Weight ..... 100 lbs.

REGULAR EQUIPMENT FURNISHED

12" Hand Tool Rest; 5¼" Face Plate; Spur Center; Cup Center; Spindle Pulley; Motor Pulley; Belt; Wrench.

WOOD WORKING LATHE

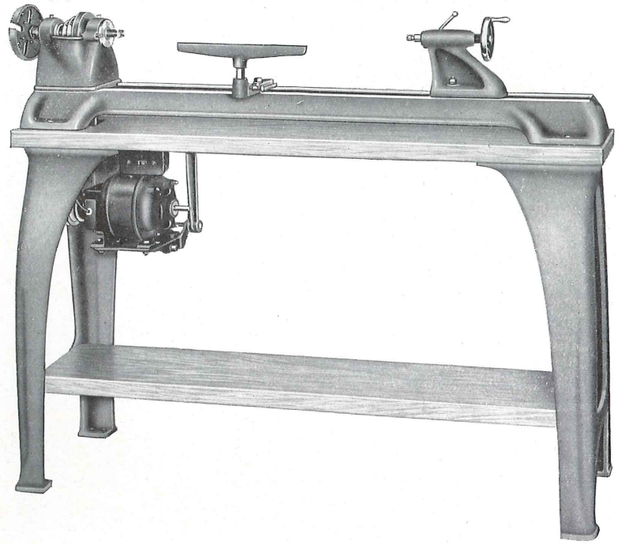
No. 1050 Lathe complete with V-Belt and Motor Pulley, Wt. 100 lbs. **$21.75**

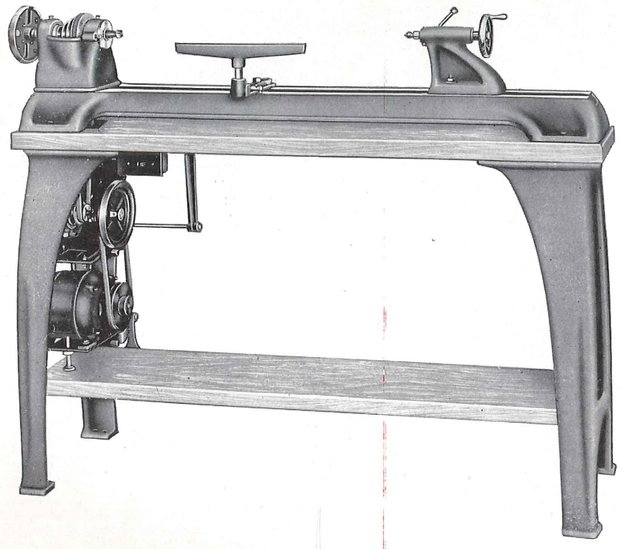
No. W-17 Lathe Stand (including Legs, Top, Shelf, and bolts), Wt. 160 lbs. ... **19.75**

No. W-18 4-Speed Lathe Stand (including Legs, Top, Shelf, Motor Base and Hanger, Switch, Cord, and Bolts), Wt. 170 lbs. **26.75**

No. W-20 No. 1050 Lathe and No. W-17 Stand, Wt. 260 lbs. **41.75**

No. W-21 No. 1050 Lathe and No. W-18 4-Speed Stand, Wt. 270 lbs. **47.75**





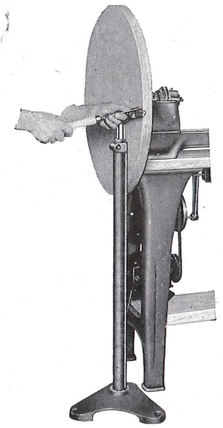
The units shown on this page are ideal for Pattern Shops, Manual Training or Technical Schools, etc. In fact they are ideal for any shop where exceptional neatness and convenience are desired.

The Jackshaft Hanger on both units and the Motor Base and Hanger on No. W-18 are full-floating to provide constant correct belt tension. On No. W-19 the Motor Base is semi-floating with belt tension adjustment provided for.

This set-up has the Jackshaft added which gives the Lathe 8 speeds ranging from 204 to 4,000 R.P.M. These speeds are ideal for light metal-working or outboard turning, as well as all wood-working.

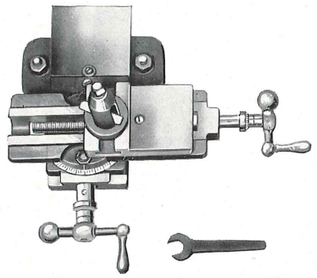
No. W-19 8-Speed Lathe Stand (including Legs, Top, Shelf, Jackshaft and Hanger, Motor Base, Switch, and Cord). Weight 180 lbs. **$32.75**

No. W-22 No. 1050 Lathe and No. W-19 8-Speed Stand. Wt. 280 lbs. **53.75**



The double-end spindle on the ATLAS Lathe makes possible outboard turning. Thus, large diameters such as table tops, etc., can be readily turned over the end of the bench.

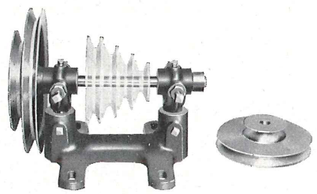
WOOD LATHE ATTACHMENTS



COMPOUND REST ASSEMBLY

This attachment is essential for metal working on the Wood Lathes. Graduated 0 to 180°; Micrometer graduated cross and longitudinal feeds; 6" angular feed, $5\frac{3}{16}$" cross feed; furnished complete as shown with Tool Post, Rocker, Wrench, etc.

No. L2-50 (for 944 Lathe)
Wt. 13 lbs. $12.50
No. W-25 (for 1050 Lathe)
Wt. 15 lbs. 12.95

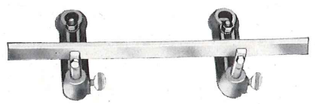


JACKSHAFT ASSEMBLY

Gives Lathe 8 speeds from 204 to 4,000 R.P.M. making it suitable for light metal-working as well as wood-working. Motor Pulley mounts on Jackshaft spindle and is replaced by two step pulley furnished.
No. L2-675, Wt. 8 lbs.....$4.75

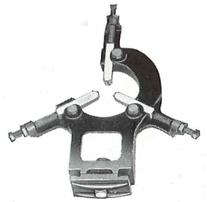
TEE RESTS

Fit into clamp regularly furnished with Lathe.
4"—**No. 9-334,** Wt. 1 lb.....$ .50
8"—**No. 9-333,** Wt. 2 lbs..... .75
12"—**No. L3-26,** Wt. 2 lbs..... .85



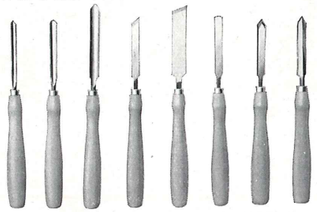
HAND TOOL REST

Furnished complete with clamp to fasten to Lathe Bed.
No. L2-75 18" Wt. 7 lbs.....$1.75
No. L2-105 24" Wt. 9 lbs..... 2.75



STEADY REST

Extremely valuable for turning long work of diameters up to 2⅞". Furnished with brass jaws and clamp to go on Lathe Bed.
No. L2-70 (for 944 Lathe)
Wt. 4 lbs. $3.50
No. W-26 (for 1050 Lathe)
Wt. 4 lbs. 3.50



WOOD TURNING CHISELS

A professional-type chisel. Tool steel blades, extra long, polished maple handles.

¼" Gouge	**No. W13-1**	.....$ .90
½" Gouge	**No. W13-2**	..... 1.00
1" Gouge	**No. W13-3**	..... 1.40
½" Skew	**No. W13-4**	..... .80
1" Skew	**No. W13-5**	..... 1.30
½" Rd. Nose	**No. W13-6**	..... .85
½" Spear Pt.	**No. W13-7**	..... .80
½" Parting	**No. W13-8**	..... .80

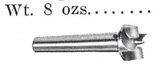
Wt. 1 lb. (each).
Complete set of above (8 Tools)
No. W13A, Wt. 6 lbs.....$7.25

METAL TURNING CENTERS

No. 1 Morse Taper.
No. L2-80, Wt. 8 ozs.....$ .70

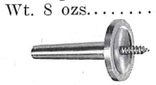
CUP CENTER

No. 1 Morse Taper.
No. L2-17, Wt. 8 ozs.....$ .70



SPUR CENTER

No. 1 Morse Taper.
No. L2-16, Wt. 8 ozs.....$ .70



SCREW CENTER

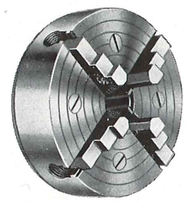
No. 1 Morse Taper.
No. L2-352, Wt. 8 ozs.....$1.50

CROTCH CENTER

No. 1 Morse Taper.
No. L2-356, Wt. 8 ozs.....$1.50

DRILL PAD

No. 1 Morse Taper.
No. L2-360, Wt. 8 ozs.....$1.50



4-JAW INDEPENDENT CHUCK

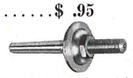
4" capacity. A sturdy chuck that will be found extremely useful in the shop for doing metal jobs on this Lathe. Furnished complete with adapter plate fitted to Lathe.
No. L2-85, Wt. 4 lbs.....$6.00

3½" FACE PLATE

Valuable for small Face Plate work. Fitted to Lathe.
No. L2-95,
Wt. 1 lb. $1.00

DRILL CHUCK

Very convenient for drilling in Lathe. Used in connection with No. L2-379 arbor.
No. BD1-33,
Wt. 2 lbs. .....$ .95

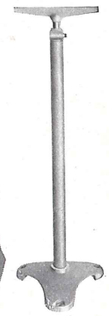


GRINDING WHEEL AND WORK ARBOR

Holds Grinding Wheels, Buffers. Drill Chucks, W6A Drum Sander (page 12), etc. No. 1 Morse Taper fits either Headstock or Tailstock Spindles.
No. L2-379, Wt. 8 ozs.....$ .70

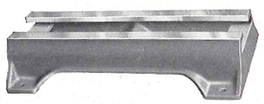
JACOBS CHUCK ADAPTER

No. 1 Morse Taper to adapt Nos. BD1-60 or 40-60 Jacobs Chucks (see page 25) to Wood Lathes, **No. L2-378,** Wt. 8 ozs.....$ .70



FLOOR STAND

Used in connection with the Lathe for outboard turning. Height is variable from 40" to 45". Sturdily constructed for ease of operation. Furnished complete with 12" Tee Rest and wrench.
No. W-16, Wt. 35 lbs..$7.75



EXTENSION BED

May be set up on the bench to hold the Tailstock when turning work beyond the regular capacity of the Wood Lathe, 15" long.
No. L2-100 for 944 Lathe
Wt. 12 lbs. $2.50
No. 1050-100 for 1050 Lathe
Wt. 14 lbs. 2.75

ATLAS MOTORS

Improved Design Greater Torque
Higher Efficiency Everlasting Construction

A power tool can be no better than the source of this power. Consequently, for the maximum service from your machine, be sure to supply yourself with a good motor. ATLAS Motors are built to our own specifications by one of the most prominent electrical manufacturers in the country, and we sincerely believe them to be the finest obtainable of their type at any price. They are completely covered by our broad guarantee.

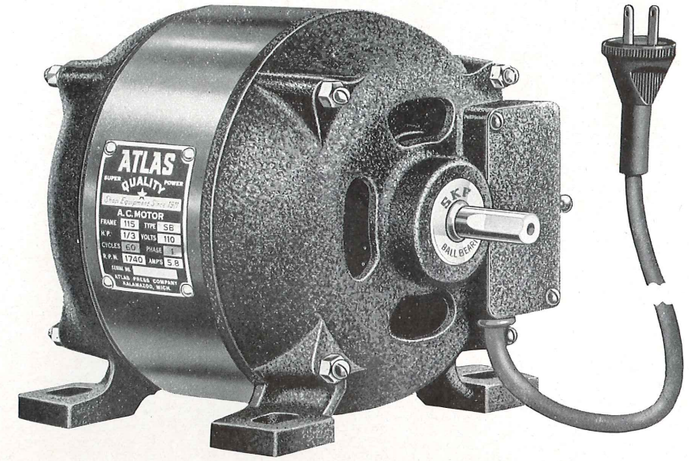
All ATLAS Motors are single phase of the stop-start reversing type, having four wires coming to binding posts in a large, roomy terminal box. Windings are large and heavily insulated, dipped and baked in a special long-oil varnish. Starting switch has silver contact points and is ingeniously designed to entirely eliminate sparking or fluttering of the contacts.

No. 2480 is an exceptionally powerful 1/3 H.P. Motor that is especially recommended for our Drill Presses or for high speed Lathe operation. No. 2490 is a 1/2 H.P. Motor with extraordinarily great starting power and pulling efficiency. This Motor is ideal for heavy work or where the user is willing to sacrifice a small amount of operating economy for higher efficiency. Both Motors are equipped with oversize, deep-groove SKF Ball-Bearings and will give many years of excellent, trouble-free service.

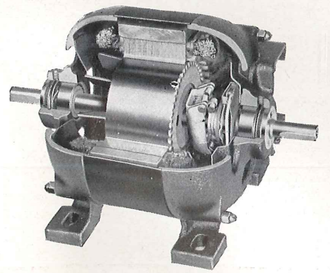
Nos. 2460 and 2485 have fine phosphor bronze bearings and will give remarkably economical service. These last two motors should not be used for vertical mounting.

The ventilating system is the best possible, carrying air completely across the windings of the motor from one end to the other. The shell also acts as a radiator for dissipating the heat, resulting in an exceptionally cool running motor.

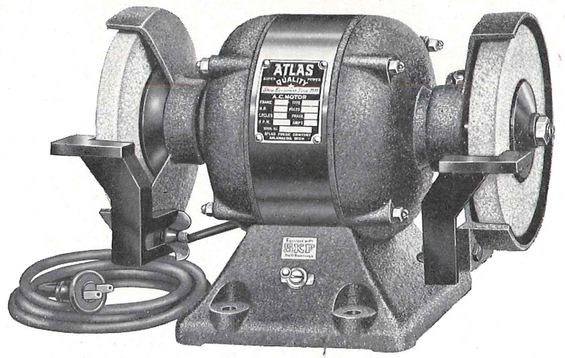
All motors are provided with the proper cord and plug, depending upon whether ordered for Drill Press or Lathe; be sure to mention this when ordering. ATLAS Motors have an exceptionally attractive appearance. Frame has a smooth, black crackle finish with a baked black enamel body band. Exposed fittings are nickel or chromium plated.



¼ H.P. 110 volt, 60 cycle, 1740 R.P.M. Sleeve Bearings. Complete with cord and plug—No. 2460—Wt. 26 lbs.....$ 7.95
⅓ H.P. 110 volt, 60 cycle, 1740 R.P.M., Sleeve Bearings. Complete with cord and plug—No. 2485—Wt. 28 lbs..... 10.50
⅓ H.P. 110 volt, 60 cycle, 1740 R.P.M., SKF Ball Bearings. Complete with cord and plug—No. 2480—Wt. 28 lbs..... 12.75
½ H.P. 110 volt, 60 cycle, 1740 R.P.M., SKF Ball Bearings. Complete with cord and plug—No. 2490—Wt. 35 lbs..... 15.85

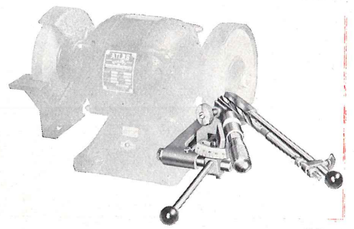


This cut-away view of an ATLAS Motor will give some idea of its excellent construction. Note especially the roomy shell, sturdy rotor, heavy windings, starting switch, and the built-in cooling fan.



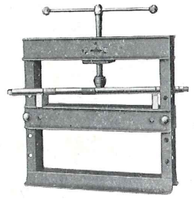
ATLAS BENCH GRINDER

This is an exceptionally high-quality Grinder for every shop. It is equipped with a 1/3 H.P., 3450 R.P.M. Motor having a high overload safety factor to assure plenty of power. Its features include: built-in ON-OFF Switch, one coarse and one fine 6" grinding wheel furnished, adjustable work rests and wheel guards, 2¼" clearance between wheel and motor body, extremely attractive appearance.
No. 2500—Wt. 50 lbs. $22.50

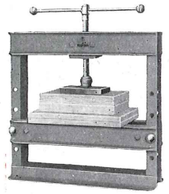


View shows ATLAS Grinder with Drill Grinding Attachment fastened in place. Described on page 13.

GENERAL PURPOSE ARBOR PRESS



View shows Press during straightening operation. Note use of Pressure Plates and how long work may be extended beyond the sides of the Press.



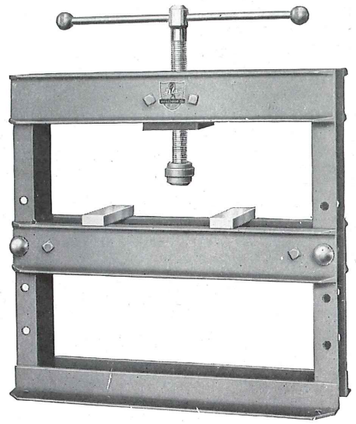
View shows P-10 Press being used for gluing or veneering. There are many such operations that will make this handy tool soon pay for itself.

The P-10 is a new addition to the already famous line of ATLAS Arbor Presses. It was designed especially to fill the need for a small Press capable of handling large work diameters.

Frame is solidly constructed of structural steel channels, welded together for longest life. Table is made from two heavy channels and may be quickly set in any one of four positions. Alloy steel Screw is 1″ diameter with a No. 8 thread carefully fitted to nut in head for maximum strength and long life. A ball thrust bearing is located in the ram nose to eliminate any tendency to turn the work and to make it easy to pull great pressures.

The P-10 Arbor Press is conservatively rated at 8-10 tons, although approximately 12 tons can be pulled without bending the Table.

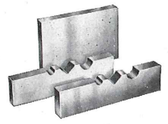
This new Press will be found extremely useful in every shop for general press work, straightening, bending, etc. The Automotive Service Station and Electric and Battery Shop will find it almost invaluable for their needs.



SPECIFICATIONS

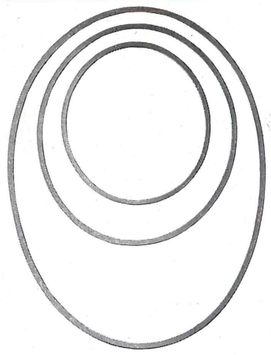
Largest diameter of Work	18″
Maximum capacity over Base	16½″
Largest Arbor	3″
Tons Pressure	8-10
Ram Travel	5″
Shipping weight	80 lbs.
No. P-10—furnished complete as shown	$16.50

PRESSURE PLATES AND TABLE BLOCK



Pressure Plates may be used as Vee Blocks for straightening operations or laid flat on the Table when pressing bushings, etc., on to shafts.
No. P-10-14—Wt. 6 lbs., per set $2.00

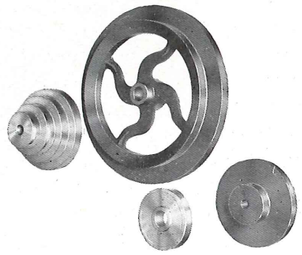
The Table Block has many uses in general press work, gluing, veneering, etc.
No. P-10-13—Wt. 6 lbs. $1.30



V-BELTS AND PULLEYS

The V-belts listed in the table below are all lengths used on ATLAS Equipment. They are of the highest quality obtainable and should not be confused with inferior belts. The side walls are compounded, tough rubber with a closely woven duck cover fabric. The inner section is made from strong strands of cotton to insure a long life for the belt and a minimum of stretch.

These Pulleys are all cast under great pressure of Zamak alloy. They are more than twice as strong as cast iron pulleys, and will give a lifetime of service. Sizes as shown in the table below are all made especially for The ATLAS PRESS Co., and must pass our rigid inspection before they are accepted.



Cat. No.	Inside Circumference	Width	Thickness	Price Each
W32-6	21″	3/8″	1/4″	$ .55
W14-6	24″	1/2″	1/4″	.60
L3-126	26″	1/2″	11/32″	.65
W15-6	27″	1/2″	5/16″	.65
9-125	27 11/14″	1/2″	11/32″	.65
9-126	28 3/6″	1/2″	5/16″	.70
L4-126	29″	1/2″	11/32″	.70
W19-10	30″	1/2″	11/32″	.75
L3-125	32″	1/2″	11/32″	.75
BD1AM-34	34 1/2″	7/16″	1/4″	.80
BD2M-34	35 7/8″	37/64″	7/32″	.80
BD1M-34	38 1/2″	21/64″	3/16″	.90
BD3M-34	41 1/16″	1/2″	5/16″	.90
9-127	42″	1/2″	11/32″	.95
60M-34	43 3/6″	1/2″	5/16″	.95
BD1-34	61″	13/32″	1/4″	1.10
40-34	66″	13/32″	9/32″	1.55
BD1A-34	71″	13/32″	9/32″	1.60
50-34	83″	1/2″	11/32″	1.65
BD2-34	85 3/4″	21/64″	3/8″	1.65
60-34	105″	1/2″	11/32″	2.00

1 lb. Shipping Wt.

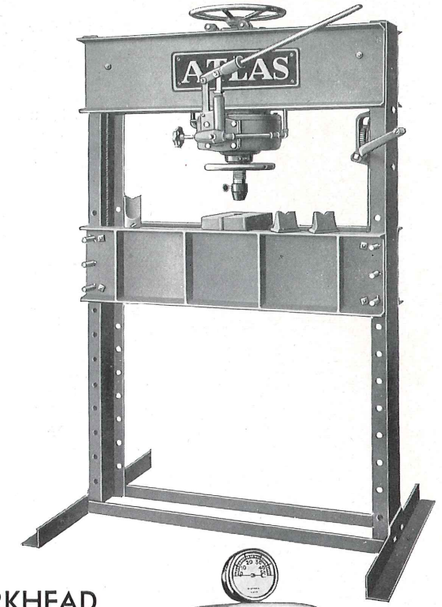
Cat. No.	No. of Steps	Outside Dia. of Steps	Dia. of Hole	Size of Set Screw	No. of Indexing Holes	Price Each
9-85	1	2 1/64″	1/2″	1/4″	None	$ .35
BD1-8	1	2 1/2″	1/2″	None	None	.35
9-83	1	2 37/64″	3/4″	1/4″	None	.50
9-84	1	3 1/4″	3/4″	1/4″	None	2.00
9-128	2	2 1/16″-4 15/32″	1/2″	1/4″	None	1.25
L2-679	2	4 13/32″-6 7/16″	1/2″	1/4″	None	2.00
L2-679A	2	4 13/32″-6 7/16″	3/4″	1/4″	None	2.00
9-81	2	2 27/64″-6 1/32″	1 1/2″		None	2.00
9-127	2	7 1/2″-9 1/4″	3/4″	1/4″	None	2.50
9-79	3	3 47/64″-4 49/64″-6 3/32″	1 1/2″	1/4″	None	2.50
L2-37	4	1 3/4″-2 1/2″-3 3/4″-4″	1/2″	1/4″	None	1.00
L2-3	4	1 3/4″-2 1/2″-3 3/4″-4″	3/4″	1/4″	None	1.00
1050-3	4	1 3/4″-2 1/2″-3 3/4″-4″	.788″	1/4″	60	1.75
L3-85	4	2″-3″-4″-5″	1/2″	1/8″	None	1.40
L3-80	4	2″-3″-4″-5″	3/4″	1/8″	None	1.40
L3-3	4	2″-3″-4 33/64″-5″	33/64″	1/4″	60	1.60
10-80	4	3″-4 1/8″-5 1/8″-6″	3/4″	1/4″	None	2.00
10-79	4	3″-4 1/8″-5 1/8″-6″	1 3/8″	1/4″	60	2.00
60-29	4	1 3/4″-2 13/16″-3 7/8″-5″	1/2″	1/4″	None	1.30

ATLAS HYDRAULIC PRESSES

These two ATLAS hydraulic presses are very popular in garages, service stations and in factories where great power combined with speed of operation are essential. The best of materials are used throughout to insure durability and minimum of upkeep expense. The design of the two presses is identical, the whole difference being in the size of parts and the capacity.

The 40-ton size (No. 40H) is illustrated below completely equipped with 2 ton rack and pinion press, straightening attachments and hydraulic pressure gauge.

The 70-ton size (No. 70H) is shown at the right complete with regular equipment.

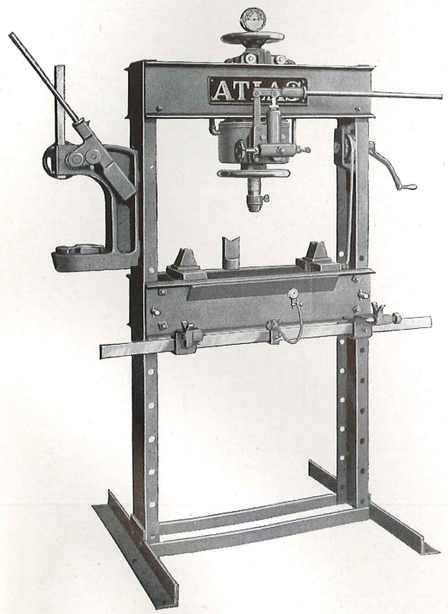


FEATURES

- FRAME — Welded structural steel with heavily reinforced tables.
- WORKHEAD — Self-contained unit. Roller mounting provides transverse adjustment.
- AUXILIARY SCREW TYPE RAM — May be brought into quick contact with work by expedient hand wheel.
- VALVE — Controlled by small hand wheel on the left. When valve is opened the ram returns to starting point automatically.
- ADJUSTABLE TABLE HEIGHT — 40-ton press is adjustable at 5″ intervals and 70-ton at 4″ spaces. Handy crank mechanism provides means for raising or lowering table to desired height.
- CONSERVATIVELY RATED — Presses are tested at factory at pressures 5 to 10 tons higher than actual rating.

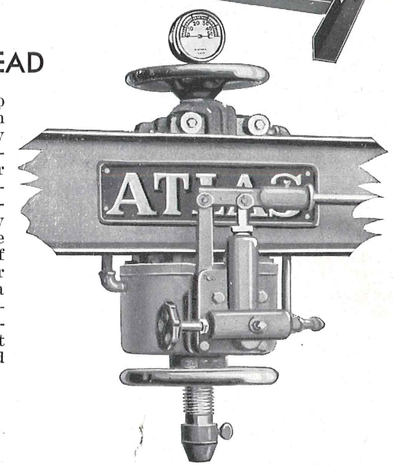
SPECIFICATIONS

	40 tons	70 tons
Height Overall	67 8″	77 1″
Floor Space	36″ x 43″	36″ x 56″
Travel of table	40″	36″
Travel of piston	5″	5¼″
Travel of screw	7″	7″
Width between uprights (largest dia. work)	33″	44″
Width between table channels (largest arbor)	7″	8″
Max. distance ram to table in lowest position	43″	38½″
Capacity	40 tons	70 tons
Weight	820 lb.	1200 lb.



HYDRAULIC WORKHEAD

At the right is shown a close-up view of the workhead unit used on our hydraulic presses. Frequently a press is desired with special structure to accommodate extra large or odd-shaped work. To meet this demand we are marketing this popular hydraulic workhead separately so that it may be mounted by the user himself as he sees fit. Or, if so desired, we can assemble either size workhead, 40 or 70 ton, on a frame to suit individual requirements. If you have any such problems, our Engineering department is at your service for counsel and suggestions.



PRICES WITH STANDARD EQUIPMENT

No. 40H	**40 ton hydraulic press complete with standard equipment** Shipping weight—820 lbs.	$132.00
No. 70H	**70 ton hydraulic press complete with standard equipment** Shipping weight—1200 lbs.	255.00

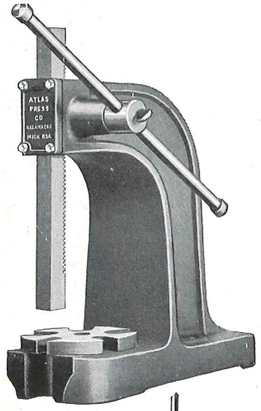
STANDARD EQUIPMENT FURNISHED

2—Table Plates — Table Lifting Device — 2—V Blocks
1—V Ram Nose (for straightening) — 1—Round Nose Ram (for pressing)

EXTRA EQUIPMENT

No. 1¾	**2 ton Rack and Pinion Side Press** Shipping weight—100 lbs.	$ 33.00
No. 40-46	**Pressure gauge for 40--ton press** Shipping weight—3 lbs.	15.00
No. 70-46	**Pressure gauge for 70-ton press** Shipping weight—3 lbs.	15.00
No. 35	**Testing and Straightening Attachment** Shipping weight—35 lbs.	15.00
No. 35-20	**Dial Indicator and Bracket** Shipping weight—2 lbs.	13.00
No. 40HW	**40 ton hydraulic workhead only** Shipping weight—200 lbs.	75.00
No. 70HW	**70 ton hydraulic workhead only** Shipping weight—300 lbs.	120.00

ATLAS ARBOR PRESSES



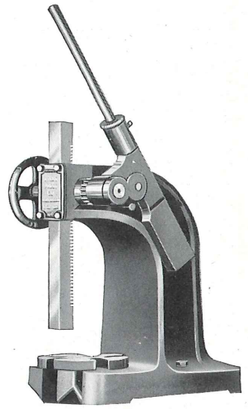
No. 1

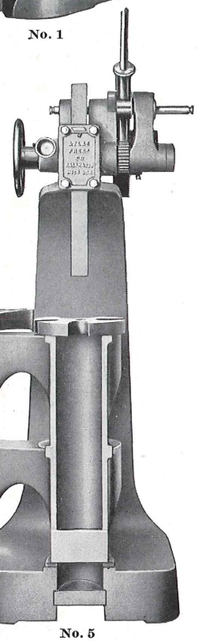
ATLAS Arbor Presses are world renowned for their quality, durability, and efficiency. The square Ram, an ATLAS feature, has a larger and better bearing surface, permits easy take-up for wear, and in general makes a superior Arbor Press. This page shows a few typical presses and specification chart below lists some of the many other sizes manufactured by us.

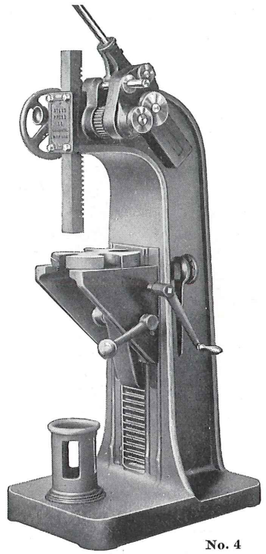
Our Nos. 00, 0, 1, and 1½ presses are sturdy, fast-working, simple leverage machines designed especially for light production work where great speed is essential. Manufacturers of watches and clocks, speedometers, radios and electrical appliances, etc., use these presses by the hundreds. For the workshop, these presses cannot be excelled for both convenience and utility.

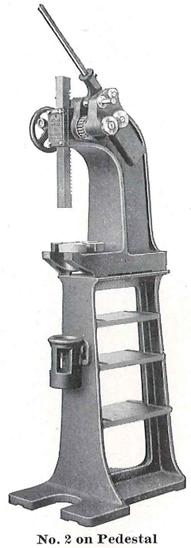
All other presses illustrated on this page are equipped with our Patent Compound Leverage device, by means of which enormous leverage may be exerted with comparative ease. Either simple or compound leverage is instantly available by merely inserting or extracting a sliding pin which is furnished.

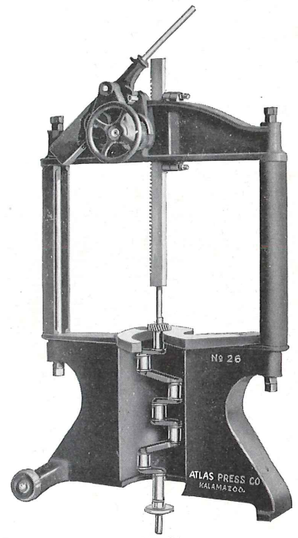
Our No. 2 press (shown with pedestal) is capable of exerting about 5 tons pressure. The Nos. 4 and 5 (illustrated below) are heavier and more rugged machines with capacities of 12 and 15 tons respectively. The No. 26 (also shown below) has an extraordinarily large work capacity and is very popular in machine shops and general industrial plants because of its great versatility.


No. 1½


No. 5


No. 4


No. 2 on Pedestal



No. 26

ATLAS ARBOR AND STRAIGHTENING 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 Pedestals, Pounds	Pedestal Code Word	Pedestal Net Price
00	7	1	4¼	1 x 1 x 7	Bench 4x10	9	24—1	½	20	Pack	**$ 12.00**	...	....	.....
0	10	1⅛	8	1 x 1 x 12	Bench 6x14½	14½	36—1	1	65	Pace	**22.00**	85	Dell	**$22.00**
1	14	1⅝	11	1¼ x 1¼ x 16½	Ped. 15x22	20	48—1	2	115	Page	**32.00**	120	Dent	**24.00**
1½	14	1⅝	11	1¼ x 1¼ x 16½	Ped. 15x22	20	48—1	2	125	Palm	**35.00**	120	Desk	**24.00**
2	15½	3⅛	14	1½ x 1½ x 19	Ped. 18x24	25	100—1	5	200	Paden	**62.00**	225	Destal	**32.00**
2-B	15½	5½	14	1½ x 1½ x 19	Ped. 15x24	25	100—1	5	200	Pickle	**67.00**	225	Deck	**32.00**
2½	15½	3⅛	21	1½ x 1½ x 26½	Ped. 18x24	35½	100—1	5	250	Pomp	**69.00**	225	Destal	**32.00**
3-A	20	4	16	2 x 2 x 22	Ped. 20x27	30	55—1	5	420	Peach	**72.00**	275	Dean	**38.00**
3	20½	5	18	2 x 2 x 24	Ped. 22x29	36	160—1	12	600	Parco	**124.00**	375	Decox	**44.00**
4-M	21	4½	25	2 x 2 x 22	21x29	62	55—1	5	1000	Patron	**148.00**	...	....	.....
4	21	5	25	2 x 2 x 24	24x29	64	160—1	12	1150	Packer	**198.00**	...	....	.....
5	25	5½	46	2 x 2 x 24	24x33	66	200—1	15	1700	Percy	**235.00**	...	....	.....
6	37	7¾	46	2½ x 2½ x 26	26x40	72	290—1	25	2950	Pensive	**392.00**	...	....	.....
24	20	5	18	2 x 2 x 24	Ped. 24x42	68	160—1	12	500	Pillar	**124.00**	125	Deuce	**19.00**
26	30	8¼	27	2 x 2 x 34	24x38	66	160—1	12	900	Pirate	**158.00**	...	....	.....
28	38	8½	29	2¼ x 2¼ x 38	24x46	70	200—1	20	1400	Pistol	**248.00**	...	....	.....
P-10	18	3	16½	1″ dia.	8x21	27½	400—1	8-10	80	....	**16.50**	...	....	.....

SEND FOR SPECIAL ARBOR PRESS CATALOGUE

ATLAS QUALITY Shop Equipment Since 1911

What Enthusiastic Owners Tell Us

"Please send me a catalogue and prices on your ATLAS lathe.

"I've got one and like it very well, but want to get another."—RICHARD'S ARMATURE SHOP, La Junta, Colo.

"I am very well pleased with my ATLAS lathe and everybody that comes to my shop remarks about what a wonderful machine I have and I always say, 'Yes, it certainly is a swell little lathe.' "—KOLBAY'S GARAGE, South Norwalk, Conn.

"You might be interested to know that Mr. John Carbonneau, proprietor of a bowling hall here, has used his ATLAS Wood Lathe for refinishing pins for his bowling alley. He says that he has saved over $200.00 in one season on refinishing pins alone. He also uses his lathe to run a buffing wheel for polishing bowling balls. The equipment cost him $26.70 in all."—OGDEN R. ADAMS, Rochester, N. Y.

"I received the No. 375 Jacobs Spindle Chuck and wish to thank you for taking care of matter the way you have.

"I have never yet used any tools of any kind that I get as much satisfaction from as the three pieces of ATLAS Equipment I have, and I find the ATLAS Press Company to be likewise. Again I wish to thank you.

"Will you please mail me your new catalogue? I will be buying more ATLAS Tools."—ELSBERRY MOTOR CO., Elsberry, Missouri.

"I purchased a No. 936 ATLAS Lathe and about 95% of the attachments available at that time a year ago and have done considerable work with it on cold rolled steel, drill rod, brass, bronze, monel, etc.

"I want to say that I have been quite pleased with the possibilities of the Lathe and accessories. It has done exceptional work both as to quality and as to size. One production job I have requires a tolerance of plus .0000″ minus .0004″. With care the tolerance is easily met without the use of the grinder and very few parts are spoiled.

"Thru the use of the milling attachment I have made several jigs for holding work, a forming tool for bimetallic strips, numerous boring and forming tools and have machined several castings. I could not have done any of these jobs in my little shop without this one attachment. Therefore, the Lathe and the Milling Attachment have saved me their cost many times over in one short year."—D. B. WILLIAMSON, Mt. Lebanon, Pittsburgh, Pa.

"Dear Mr. Glenn: Am, indeed, happy to answer your inquiry in regard to the ATLAS lathe.

"Can only conscientiously tell you that I think there is no other machine on the market which is superior to this machine regardless of price. I have used my ATLAS for over two years and in that time have had the opportunity to put it to every test.

"Like you, I felt perhaps that the flat ways would probably not stand up as well as the V type but I am no longer of that opinion, for my machine has had a great deal of use and it is accurate 1/1000th over a 12″ cut today.

"I am enclosing a photograph of one of the projects which I have undertaken; from this picture I am sure you can readily appreciate the accuracy of this machine which is required in building small things."—PAUL S. OTTO, Iowa City, Ia.

"Received the No. 60 ATLAS Drill Press on the 25th and have it set up and working. It sure does run fine and does splendid work.

"My oldest boy who is a fine mechanic said it can't be beat, and he sure is delighted with it."—LYDALL BEEKMAN, Lakewood, Ohio.

"Yesterday I added an ATLAS woodworking lathe from the Andrews Hardware Co. to my collection and if I get as much kick out of it as with the metal lathe, old ATLAS will be sitting on top of the world instead of holding it up!

"Please see that my name is on your revised mailing list."—B. M. SCOTT, Los Angeles, Calif.

"Enclosed you will find five dollars for the first payment on the drill press and I wish to tell you I am very much pleased with the machine. I used it only a few times but found it to be as you said and more."—CHESTER SHUEY, Annville, Penna.

"The writer has just had the satisfaction of fitting up a party for whom I have purchased quite a bit of shop equipment with one of your new model 944 Wood Turning Lathes, with a complete set of wood and metal turning tools to suit it.

"It would be a pleasure, some day, to call at your plant and see how it is possible to make such a fine lathe for the small price asked. I do not know of a thing on the market which approaches it for real value, and am not flattering you either."—HOWARD E. DECKER, Leonia, New Jersey.

"We are now using one of your 9 x 42 Serial 1164 lathes and most heartily commend the little unit for its sturdiness and reliability. It has never failed and a check several weeks ago developed that it is still accurate within one-half of one-thousandth of an inch.

"We believe that for price and sturdiness this lathe cannot be surpassed by any. It has worked consistently since we received it in June, 1933, and has done untold machine work together with armature and miscellaneous work."—ELECTRO-MECHANICAL CO., Corpus Christi, Texas.

"Just a line to let you know that I received the lathe in perfect condition. This is sure a wonderful machine and is perfect to the last detail. I will order more tools for it sometime later."—WALTER FELTNER, San Marcus, Texas.

"I am pleased with your equipment and your time-payment plan which has made it possible for me to own same.

"Thanking you for all favors, I remain."—MR. JOSEPH BANDO, Galesburg, Illinois.

"I wish to compliment you for the very fine way in which you overcame my question on the pulley. That is 'ATLAS Quality' in service as well as in product. I now know you have both."—G. C. PANGBURN, Beaver Falls, Penna.

"Permit me to say that the workmanship, accuracy and efficiency, in the construction of the Lathe and drill press which you shipped to me, is about the last word in the manufacturing line."—H. L. SAUNDERS, Aurora, Ill.

- - and there are hundreds more like these on file!

ATLAS PRESS COMPANY

KALAMAZOO, MICHIGAN