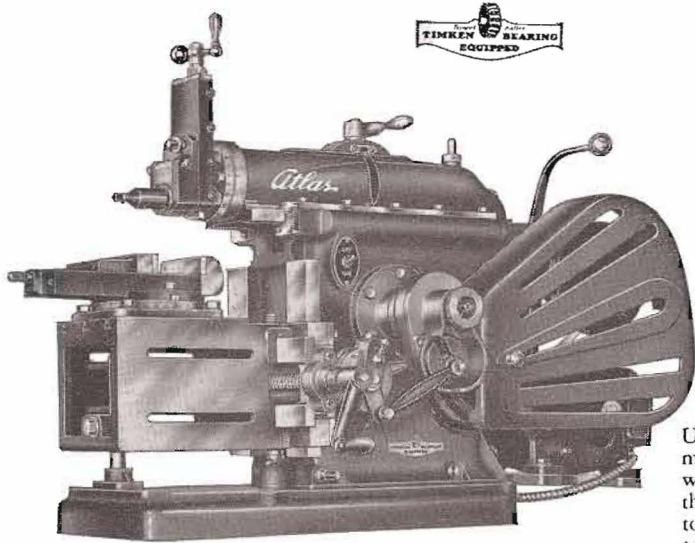
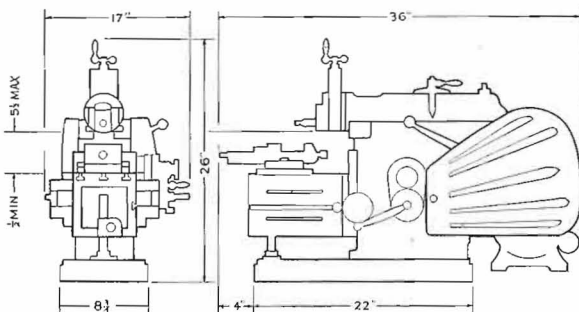


# Atlas 7" SHAPER



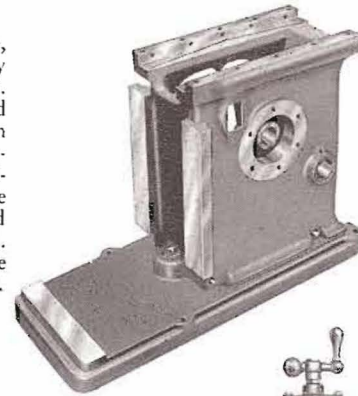
- ★ Handles All Shaping Work Requiring a Stroke of 7 Inches or less — Quickly, Easily and Economically.
- ★ Has Timken Tapered Roller Bearings for Long Service.
- ★ Five Automatic Cross Feeds for Efficiency.
- ★ Four Speeds for Versatility.
- ★ Crank-type Ram Driving Mechanism for Power and Long-Lived Accuracy.
- ★ Powered by V-Belts.
- ★ Extra-heavy Construction and Large Bearing Surfaces for Accuracy and Long Service.
- ★ And It Takes Only a 1/2 HP Motor to Drive It — It's Economical to Operate.

No. 7B ATLAS SHAPER complete with safety guards, vise, countershaft, V-Belt drive, crank handle, wrenches, operating instructions; less motor. Shipping wt. 350 lbs. Net wt. 261 lbs. Code word ZEIBT.



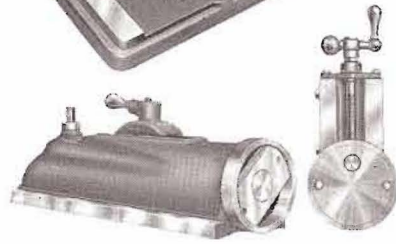
## COLUMN

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



## RAM

Unusually heavy, massive ram. Ram ways are wide and thick, bearing on tops, sides and bottoms of guides.



They are precision-ground and hand-fitted. Length of stroke in inches is shown by indicator on graduated index plate. Stroke positioning control at top of ram operates screw through two mitre gears. Thrust collar provides for full take-up.

## CRANK-TYPE DRIVE

An important factor in the Atlas shaper's unusual power and long-lived accuracy is its crank-type ram driving mechanism.

The bull-gear is supported by two heavy-duty Timken tapered roller bearings, one housed in shaper frame and the other at outer end of bull-gear sleeve flange. These fine bearings take extremely heavy radial loads and absorb all end thrust.

The bull-gear is semi-steel iron with 10 pitch teeth and 1-inch face, driven by a steel pinion gear. Pinion gear shaft runs on Timken tapered roller bearings. Crank arm is a special nickel-chrome-vanadium alloy steel forging, parallel-ground on outer surfaces and milled and lapped on inner "slide." Crank block is wear-resisting super-Oilite.



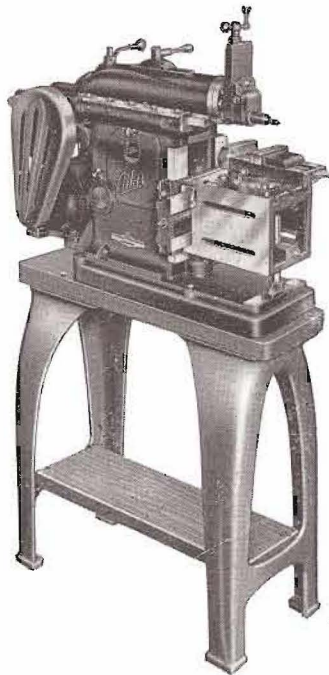
## SPECIFICATIONS

Length of Ram Stroke..... 1/2" to 7"  
 Strokes per Minute..... 45-78-122-186  
 Cutting Speeds, Feet per Minute..... 3 1/2 to 116  
 Disrance Table to Ram..... Maximum 5 1/2", Minimum 1/2"  
 Overall Dimensions..... 17" x 36" x 26"  
 Ram Length, less Tool Head..... 17"  
 Ram Bearing in Column..... 3 3/4" wide x 24" long  
 Ram Position Range..... 4"  
 Tool Head Diameter..... 4"  
 Tool Head Feed Length..... 3"  
 Tool Post..... Takes 3/8" cool bits or holder for 1/4" cool bits.  
 Tool Head graduated 0 to 50° right and left. Collar graduated in .001ths — swivel clapper.  
 Gear Ratio..... 5 1/3 to 1 — 1" Face  
 Pinion Shaft and Countershaft Pulleys..... 4-step, V-type  
 Cross Feeds Available, Both directions — .005, .010, .015, .020, .025 inches per stroke.  
 Table, Overall Dimensions..... 8 3/4" x 6" x 6" deep  
 Table Finished Surface, Length..... 7"  
 Table Travel..... 9 3/8" horizontal, 5" vertical  
 Table has 3 T-Slots on Top..... 3/8" x 5/8" x 7"  
 Table has 2 Clamping Slots on Each Side..... 13/32" x 5 1/2"  
 Vise Jaw..... 4" x 7/8"; opens 4"  
 Vise Swivel Base Graduated 0 to 90° right and left.

MOTORS recommended are listed below. See page 35 for details.

No.	Phase	RPM	HP	Volt	Wt.	Code Word
2720	Single	1725	1/2	110/220	32	YIDGE
2821	Three	1425/1725	1/2	220/440	32	YIHAI

# Atlas SHAPER ATTACHMENTS



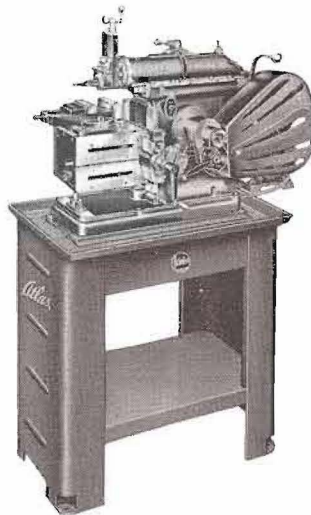
## FLOOR STAND

Provides a rigid foundation for accurate shaper work. Legs are massive iron castings. Table and shelf are thoroughly seasoned wood 1 5/8" thick—shelf board is a handy place for tools and wrenches. Overall: 14" x 31" x 33 1/2" high

**No. S7-442C FLOOR STAND** for Atlas shaper. ZEHEZ. 138 lb.

## FLOOR CABINET

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



## MOTORS

No.	Phase	HP	Volt	Cycle	RPM	Shaft Dia.	Lbs.	Code
2720	Single	1/2	110/220	60	1725	3/8"	32	YIDGE
2821	Three	1/2	220/440	50/60	1425/1725	3/8"	32	YIHAJ

**No. 2710** 10 Ft. Extension Cord and Plug for 1/2 HP single phase motors. YIDEG. 1 1/4 lb.

## THREE PHASE SWITCH

**No. S7-300** thermal overload 3-pole manual starter switch is required for 3-phase circuits. Cord to motor and bracket for mounting are furnished. ZEBAR. 6 1/4 lbs.

## CUTTER BITS



**No. S7-386 SET** of 7 FORMED CUTTER BITS shown above for use in S7-139 tool holder. 1/4" x 1/4". ZEDEV. 1 lb.

## UNGROUND CUTTER BITS

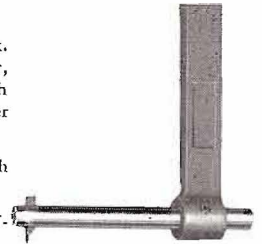
No.	Size	No. in Set	Wt. (set)	Code
3865	1/4"	6	8 oz.	YARKE
386T	1/4"	12	1 lb.	YARMO
3855	3/8" (for tool post)	6	12 oz.	YARPY

## EXTENSION TOOL

Provides extra clearance for internal work. Cuts many shapes. Drop-forged holder, 1/2" x 7 1/2" polished steel bar with broached hole for 3/16" high-speed cutter bit.

**No. S7-315 EXTENSION TOOL** with cutter bit and wrench. WYZZA. 2 lb.

**No. M6-3865 SIX EXTRA 3/16" CUTTER BITS** unground. YEZAV. 1 lb.



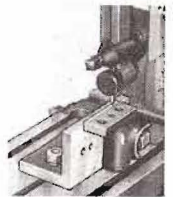
## TOOL HOLDER

**No. S7-139 SHAPER TOOL HOLDER** with 1/4" tool bit. For working at all angles. Extremely rigid. The head can be swiveled and locked at any one of eight positions. Uses 1/4" high speed cutter bits. WYVZO. 2 lb.

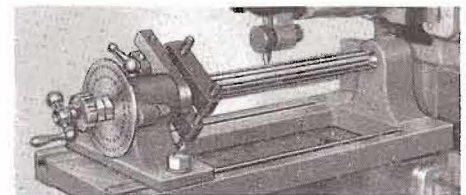
## ANGLE PLATE

For holding small pieces and irregular shapes. Outer faces are precision ground, have four holes for bolting work and two holes for bolting plate to shaper table T-slots. Base and face each are 2 1/2" x 4" x 7/16".

**No. S7-430 ANGLE PLATE** with bolts. ZEHUD. 3 lbs.



## INDEX CENTERS



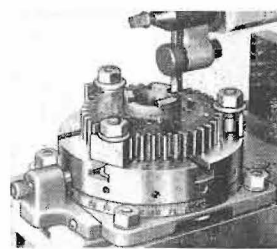
For dividing operations required in splining, fluting, gear cutting, and squaring shafts. Heavy base casting is held to T-slots in shaper by cap screws — support for inner center is cast with base. Outer center support may be positioned for work up to 8 inches long. Screw with ball crank operates adjustable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

**No. S7-400 INDEX CENTERS** for Atlas Shaper. Code word ZEHIB. wt. 21 lb.

SPECIFICATIONS: 8" maximum distance between centers, maximum swing 5 1/2", base 14 1/4" x 6" x 7/8" thick.

FURNISHED: Two index plates (30 and 36 holes, 28 and 48 holes); 1 1/4" clamp dog, dog driver, bolts.

## ROTARY INDEX TABLE



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

**No. S7-420 ROTARY INDEX TABLE** for Atlas Shaper, with four base-clamping bolts and wrench. ZEHOC. 14 lbs.

SPECIFICATIONS: Table Diameter 5 1/2", Height to Top of Table 1 7/8".

## LAMP

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

