



***Finest industrial  
woodworking  
machine  
tools***



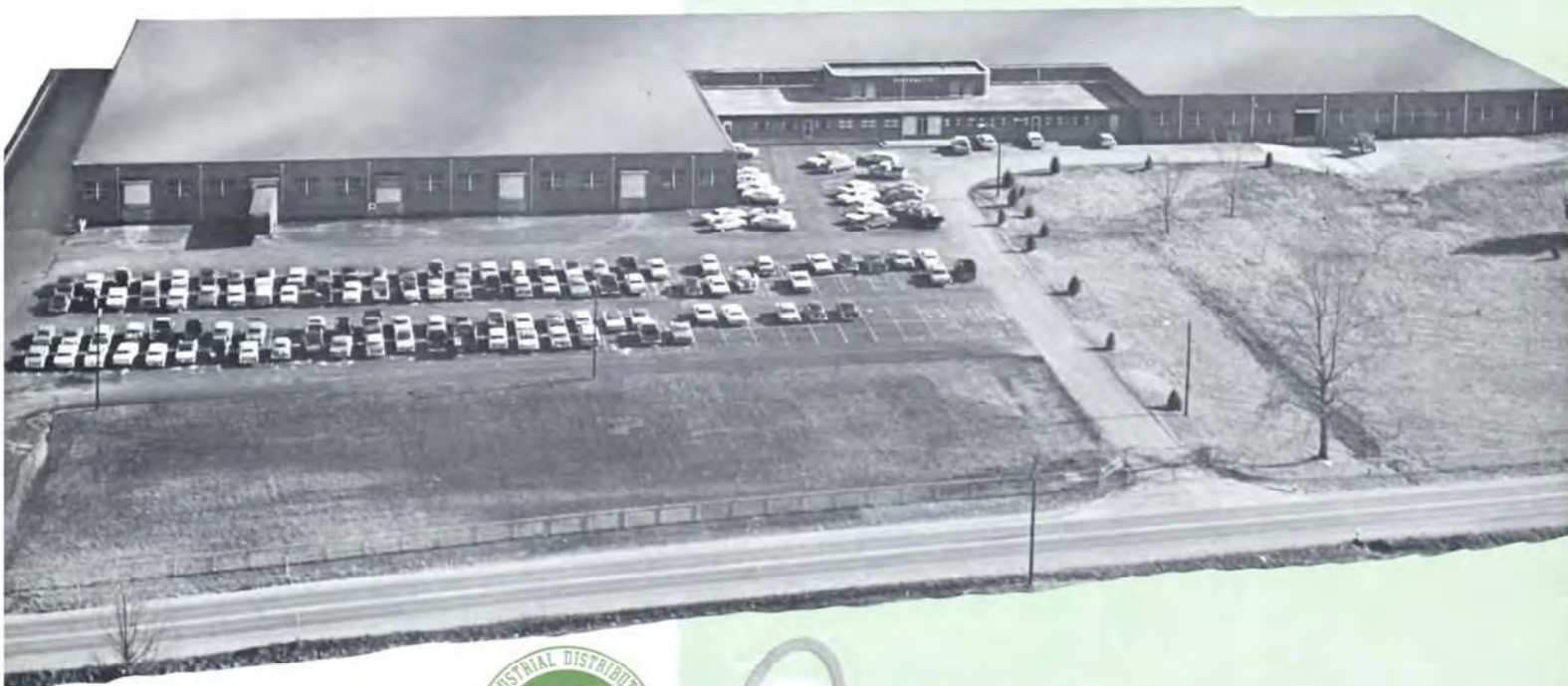
**CATALOG 665**

***POWERMATIC, INC.***  
McMINNVILLE, TENNESSEE

# The Power Behind each Machine . . .

Powermatic is *people* . . . the highly skilled abilities of hundreds of *people* whose day-to-day precision craftsmanship with modern, automated facilities builds machine tools that have won unquestioned acceptance and respect among leading production experts, school instructors and shop foremen across America. The massive Powermatic plant and more than 30 years of dedicated experience are only of secondary importance.

It is, then, a native pride of accomplishment combined with job-proved industrial designing which puts in your hands the safety, precision and economy for which the name Powermatic is famous.



Established 1928  
McMinnville, Tennessee



# POWERMATIC INC.

[www.OzarkToolManuals.com](http://www.OzarkToolManuals.com)





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# ASSURANCE OF PERFORMANCE

## Guarantee

This Powermatic machine is the product of over thirty-six years of dedicated manufacturing experience. It was thoroughly inspected and tested before leaving our factory and found to be in proper working order for smooth, safe, trouble-free operation and is guaranteed to be free of mechanical defects for a period of twelve (12) months from the date of original purchase from our authorized dealer. Such guarantee is valid only if the attached card, properly filled out, is received by us within 10 days of purchase.

We will replace at our option, machinery proving defective within the above guarantee period, F.O.B. our plant. This guarantee covers any part or parts of Powermatic machines. Component parts and accessories, not of our manufacture, but utilized on our equipment, bear the guarantee of each individual manufacturer. These items include motors, switches, chucks, bits, blades, chisels, metal tools, abrasives, tires, belts and moulding and dado heads.

We are not responsible for the cost of repairs made or attempted outside our factory without our authorization. No claims for defects will be honored if name plate has been removed. No other warranty is expressed or implied.

**POWERMATIC, INC.**  
**McMINNVILLE, TENNESSEE**

## SWIFT PARTS SERVICE

Authorized Powermatic dealers maintain adequate stocks of cutting blades, accessory items and replacement parts to meet most emergency requirements. In the event your dealer cannot replace a damaged part at once, factory replacement can often be made within 12 to 24 hours.

# POWERMATIC®

Powermatic reserves the right to make changes in equipment or design of any machine, without incurring obligation to make such changes on machines previously sold, and to discontinue models of machines, motors, or accessories without prior notice.





# ***A Tool for Every Shop...***

## ***Every Job!***



School Training



Industrial Production



Millwork Fabrication



Pattern Making

Cabinet Making



Furniture Production



## ***Advanced Design for...***

**Rugged Dependability**

**True Economy**

**Utmost Safety**

**Maximum Flexibility**

**Simplified Operation**

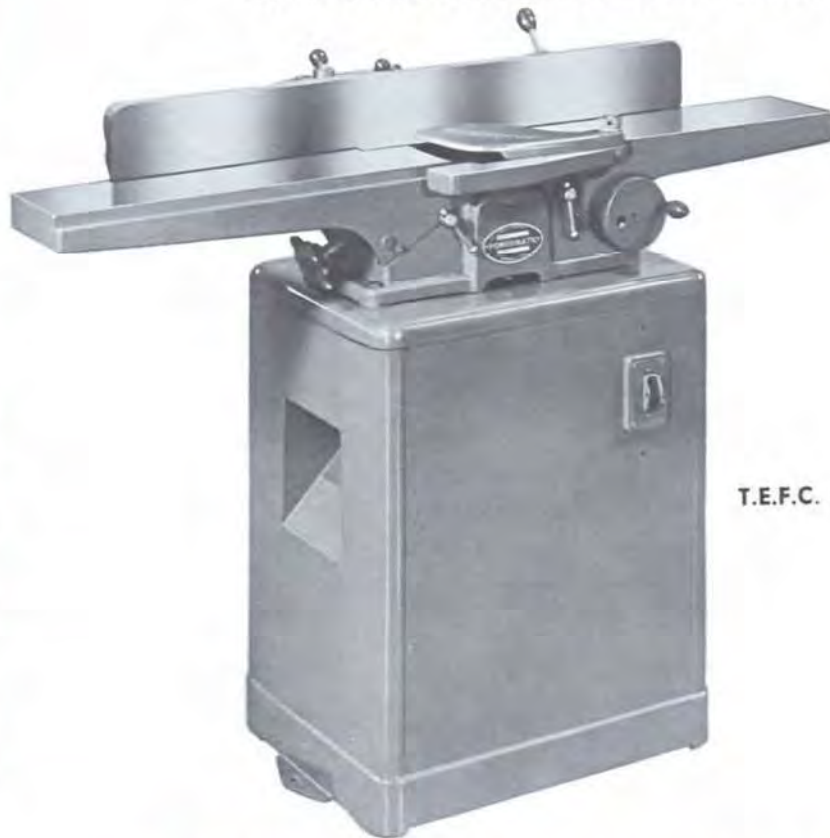
**Precise Accuracy**

# Model 50 6" Jointer

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

## rugged, dynamic champion

Here is one of the most versatile of all Powermatic machines... equally adaptable for industrial, student training or home workshop use. Built with the heft and rigidity of much larger units, this Powermatic 6" Jointer is light enough to be moved quickly anywhere... from the production line to the building site. Smart, streamlined design is free of dust-catching corners and crevices... saves shop clean-up time!



T.E.F.C. Motor Standard

## 48" PRODUCTION TABLE STANDARD EQUIPMENT!

**Extra Large Center-Mounted Fence** plunger-locks at 90° with automatic stops at 45° right and left. Positive quick-lock in any other position. Glides easily and locks across full table width, completely guarding cutterhead at rear of fence.



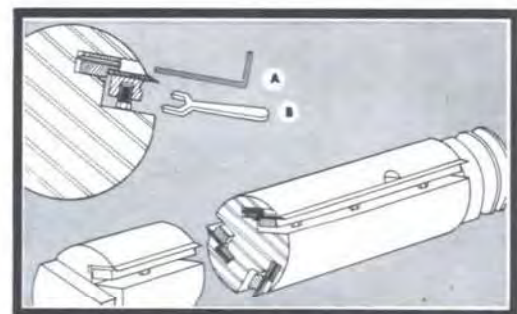
"Skew" or Shear Cutting is easily accomplished by swiveling fence. This practice especially desirable on materials such as curly maple, cherry and fir.



**Precision Ground Table and Fence Surfaces** guide stock accurately and smoothly without rocking or chattering.



**Adjustable Outfeed Table.** Simplifies alignment of Cutterhead with outfeed table. Cuts knife adjustment time in half. (See page 37 for #150 Gage listing).



Superior Powermatic Cutterhead

## SPEEDS ACCURATE KNIFE-SETTING

A standard feature! Set and secure all cutterhead knives in as little as half the time. Adjust knife support jack-screws (A) with Allen wrench and pressure-lock knife safety shim (B) with end-wrench. Cutterhead mounted in over-size sealed ball bearings. Finest carbon tool steel.



## Power, Precision and Performance Unexcelled

- All basic parts cast iron or steel, none die cast.
- Rigid, reinforced cabinet-type steel base with built-in dust chute.
- Extra long table extension rest for rabbeting.
- Bed is close-tolerance ground for perfect alignment.

### FEATURES

**TABLES:** Full adjustable infeed and outfeed tables are precision mounted on dove-tailed ways to form extra long 48" bed. Both tables raise and lower accurately with convenient hand-wheel. Infeed table has extra long extension rest for rabbeting.

**FENCE:** Over-size center-mounted fence maintains perfect alignment and rigidity when locked in any position. Tilts and positively locks at any angle from 45° left to 45° right, with plunger-type lock at 90°. Positive stops at 45° right and left. Adjustable to full width of tables.

**CUTTERHEAD:** Superior Powermatic jack-screw type for speedy, accurate knife adjustment. Equipped with 3 high

speed steel knives, chassis built of finest carbon tool steel. Features a full 3" cutting arc. Mounted in over-size dust-sealed ball bearings for perfect performance in continuous operation at 5,000 RPM.

**DRIVE:** Non-slip V-belt for utmost efficiency in any work load range. Drive, motor and switch completely enclosed in base.

**POWER REQUIREMENTS:** For average stock and work loads a ½-HP 1-phase or 3-phase motor is sufficient. For heavier stock and work volume, a ¾-HP 1-phase or 3-phase motor is recommended.

### STANDARD EQUIPMENT

**JOINTER WITH OR LESS STAND:** Set of 3 high-speed steel knives, Arbor pulley, center mounted fence, front and rear cutterhead guard and wrenches—Less motor, motor pulley, switch, belt and wiring.

**JOINTER WITH STAND AND MOTOR:** Set of 3 high-speed steel knives, arbor pulley, center mounted fence, front and rear cutterhead guards, wrenches, motor, motor pulley, switch, belt and wiring.

### STANDARD MACHINES

- 5000-01**—6" Jointer standard equipped with enclosed steel stand, cutterhead guard, set of 3 H.S. knives, wrenches, but less motor and switch.  
**5000-02**—6" Jointer, same as 5000-01, less stand.  
**5000-11**—½-HP, 3450 RPM 1-phase 110/220 volt motor complete with switch #1-21, cord and plug.

- 5000-12**—¾-HP, 3450 RPM 1-phase 110/220-volt motor complete with switch #1-21, cord and plug.  
**5000-13**—½-HP, 3450 RPM 3-phase 220/440-volt motor complete with switch #3-25.  
**5000-14**—¾-HP, 3450 RPM 3-phase 220/440-volt motor complete with switch #3-25.

### SPECIAL LISTINGS

- 5000-03**—No. 50 w/stand, ½-HP, 1-phase motor, manual switch with overload protection, cord and plug.  
**5000-04**—No. 50 w/stand, ½-HP, 3-phase motor, manual switch with overload protection.  
**5000-05**—No. 50 w/stand, ¾-HP, 1-phase motor, manual switch with overload protection, cord and plug.

- 5000-06**—No. 50 w/stand, ¾-HP, 3-phase motor, manual switch with overload protection.  
**5000-07**—No. 50 w/stand, ½-HP, 1-phase OR 3-phase motor, magnetic controls. (Specify phase)  
**5000-08**—No. 50 w/stand, ¾-HP, 1-phase OR 3-phase motor, magnetic controls. (Specify phase)

### OPTIONAL ACCESSORIES

- 5000-10**—3 H.S. Steel Jointer Knives, wt. 1 lb.  
**5000-15**—Toggle, 1 Ph. Switch #1-21, wt. 8 oz.  
**5000-16**—Toggle, 3 Ph. Switch #3-25, wt. 1 lb.  
**5000-17**—Magnetic 3 Ph. Switch #3-30 & 1-3-32, wt. 6 lbs.  
**5000-18**—Magnetic 1 Ph. Switch #1-29 & 1-3-32, wt. 6 lbs.  
**5000-19**—3-phase O/L Switch #3-27, wt. 1 lb.  
**5000-20**—1-phase O/L Switch #1-23, wt. ¾ lb.  
**5000-21**—Motor pulley (3450 RPM) 3.50" Dia. (Specify bore) wt. 1 lb.

- 5000-22**—Motor pulley (1725 RPM) 6.50" Dia. (Specify bore), wt. 2 lbs.  
**5000-23**—Belt for 3450 RPM motor—4L550, wt. 8 oz.  
**5000-24**—Belt for 1750 RPM motor—4L610, wt. 8 oz.  
**5000-25**—3-wire 8' Cord, with attachment plug.  
**5000-26**—4-wire 8' Cord, with attachment plug.  
**5000-27**—JIC Electricals for 1 or 3-phase, wt. 20 lbs.  
**5000-28**—Cutterhead, complete ready to install.  
**5000-29**—Jointer stand only, 80 lbs.

### SPECIFICATIONS

Table	7" x 48"
Head cutting arc	3"
Knives (3) H.S. steel	⅜" x ¾" x 6"
Speed of head (recommended)	5000 RPM
Knife-cuts-per-minute	15,000
Maximum depth of cut	½"
Maximum rabbeting cut	0" up to ½" x 6"

Fence size overall	4" x 34½"
Fence tilt, right or left	45°
Height, less stand	7"
Height, with stand	36"
Motor recommended	½ to 1-HP
Weight, net, less stand	168 lbs.
Weight, net, with stand	230 lbs.
Weight, domestic crated, less stand	190 lbs.

Weight, domestic crated, with sand	265 lbs.
Weight, domestic crated, with stand & motor	290 lbs.
Export boxed, less stand (9.1 cu. ft.)	270 lbs.
Export boxed, with stand (34.6 cu. ft.)	400 lbs.
Export boxed, with stand and motor (34.6 cu. ft.)	420 lbs.



# Model 60 8" Jointer

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

## heavy-duty production leader

This big-capacity Powermatic 8" Jointer slashes costs and saves time on thousands of jobs daily in hundreds of production lines, sash and door plants, pattern and cabinet shops throughout the nation. An extremely powerful model, the mammoth 64" bed accommodates extra long stock requirements. Cutterhead guard has swing-away action for quick conversion to rabbeting operations.



## 64" PRODUCTION TABLE STANDARD EQUIPMENT

**Extra Large Center-Mounted Fence** plunger-locks at 90° with automatic stops at 45° right and left.

Positive quick-lock in any other position. Glides easily and locks across full table width, or is removable for planing wide stock.



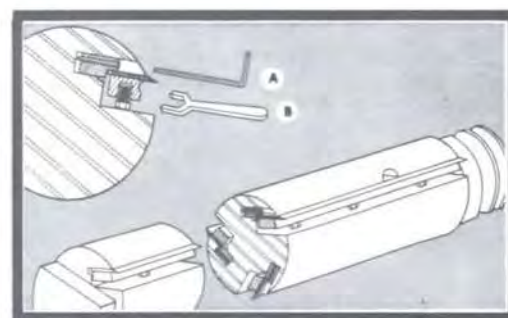
**Exclusive Swing Away Guard** remains attached to machine during rabbit operations.

**Center Fence Mount** completely guards rear of cutterhead at all times.

**Quick, Sure Table Adjustments** on precision dove-tailed ways are easy to make, easy to read. Adjustable gibs compensate for wear, guarantee alignment. Lever-lock prevents table slippage during operation.



**Adjustable Outfeed Table.** Simplifies alignment of Cutterhead with outfeed table. Cuts knife adjustment time in half. (See page 37 for #150 Gage listing).



Superior Powermatic Cutterhead

## SPEEDS ACCURATE KNIFE-SETTING

A standard feature! Set and secure all cutterhead knives in as little as half the time. Adjust knife support jack-screws (A) with Allen wrench and pressure-lock knife safety shim (B) with end-wrench. Cutterhead mounted in over-size sealed ball bearings. Finest carbon tool steel.

See the Powermatic Knife-setting Gauge, Page 37.



## FEATURES

**TABLES:** Fully adjustable infeed and outfeed tables are mounted on dove-tailed ways to form king-size capacity 64" bed. Both tables are quickly and accurately raised and lowered with convenient hand-wheel. For rabbeting, in-feed table has extra long extension rest.

**FENCE:** Full length, self-aligning fence locks rigidly in any position. Tilts and positively locks at any angle. Plunger-type lock at 90°. Positive stops at 45° right and left. Single lever adjustment to full width of tables. Cutterhead at rear of fence fully guarded in all fence positions.

**CUTTERHEAD:** Time-saving, precision Powermatic jack-screw type for speedy, accurate knife adjustment. Equipped

with 3 high speed steel knives, chassis is built of finest carbon tool steel. Cutting arc is full 3" diameter. Mounted in over-size dust-sealed ball bearings for high efficiency in continuous operation at 5,000 RPM. See Knife-setting adjustment feature on page 37.

**DRIVE:** Non-slip V-belts for maximum performance even under extremely heavy work load. Drive, motor and switch completely enclosed in base.

**POWER REQUIREMENTS:** Designed for average, heavy and extra heavy work loads requiring ¾, 1 or 1½-HP, 1 or 3-phase motor.

## STANDARD EQUIPMENT

**JOINTER WITH OR LESS STAND:** Set of 3 high-speed steel knives, 2 groove arbor pulleys, center mounted fence, front and rear cutterhead guard and wrenches—Less motor, motor pulley, switch, belts, and wiring.

**JOINTER WITH STAND AND MOTOR:** Set of 3 high-speed steel knives, 2-groove arbor pulleys, center mounted fence, front and rear cutterhead guards, wrenches, motor, motor pulley, switch, belts and wiring.

## STANDARD MACHINES

**6000-01**—8" Jointer standard equipped with enclosed steel stand, cutterhead guard, wrenches, knives, less motor and switch.

**6000-02**—8" Jointer, same as 6000-01, less stand.

**6000-04**—¾-HP, 3450 RPM, 3-phase motor complete with switch, #3-25, sheave and belts.

**6000-05**—¾-HP, 3450 RPM, 1-phase motor complete with switch, #1-21, cord and plug, sheave and belts.

**6000-06**—1-HP, 3450 RPM, 3-phase motor complete with switch, #3-25, sheave and belts.

**6000-07**—1-HP, 3450 RPM, 1-phase motor complete with switch, #1-21, cord and plug, sheave and belts.

**6000-08**—1½-HP, 3450 RPM, 3-phase motor complete with switch, #3-25, sheave and belts.

**6000-09**—1½-HP, 3450 RPM, 1-phase motor complete with switch, #1-21, cord and plug, sheave and belts.

## SPECIAL LISTINGS

**6000-22**—No. 60 w/stand, ¾-HP, 1-phase motor, manual switch with overload protection, cord and plug.

**6000-23**—No. 60 w/stand, ¾-HP, 3-phase motor, manual switch with overload protection.

**6000-24**—No. 60 w/stand, 1-HP, 1-phase motor, manual switch with overload protection, cord and plug.

**6000-25**—No. 60 w/stand, 1-HP, 3-phase motor, manual switch with overload protection.

**6000-26**—No. 60 w/stand, ¾-HP, 1 OR 3-phase motor, magnetic controls. (Specify phase)

**6000-27**—No. 60 w/stand, 1-HP, 1 OR 3-phase motor, magnetic controls. (Specify phase)

## OPTIONAL ACCESSORIES

**6000-03**—3 H.S. steel knives ½" x ¾" x 8", wt. 1 lb.

**6000-10**—Toggle, 1 Ph. Switch #1-21, wt. 8 oz.

**6000-11**—Toggle, 3 Ph. Switch #3-25, wt. 1 lb.

**6000-12**—Motor pulley for 3450 RPM motor, 3½" dia., wt. 1 lb.

**6000-13**—Motor pulley for 1725 RPM motor, 6½" dia., wt. 2 lbs.

**6000-14**—Belt for 3450 RPM motor, 2-required, 4L540, wt. 1 lb.

**6000-15**—Belt for 1725 RPM motor, 2-required, 4L600, wt. 1 lb.

**6000-16**—Magnetic 3 Ph. Switch #3-30 & 1-3-32, wt. 6 lbs.

**6000-17**—Magnetic 1 Ph. Switch #1-29 & 1-3-32, wt. 6 lbs.

**6000-18**—3-phase O/L Switch #3-27, wt. 1 lb.

**6000-19**—1-phase O/L Switch #1-23, wt. ¾ lb.

**6000-20**—3-wire 8' cord, with attachment plug.

**6000-21**—4-wire 8' cord, with attachment plug.

**6000-28**—JIC Electricals for 1-phase or 3-phase, wt. 20 lbs.

**6000-29**—Cutterhead, complete, ready to install.

**6000-30**—Jointer stand only—wt. 95 lbs.

## SPECIFICATIONS

Table	8½" x 64"
Head cutting arc	3"
Knives (3)	½" x ¾" x 8"
Speed of head (recommended)	5000 RPM
Knife-cuts-per-minute	15,000
Maximum depth of cut	½"
Maximum rabbeting cut	0" up to ½" x 8"

Fence size overall	4" x 34½"
Fence tilt, right or left	45°
Height, less stand	14"
Height, with stand	40"
Motor recommended	¾" to 1½ HP
Weight, net, less stand	263 lbs.
Weight, net, with stand	345 lbs.
Weight, domestic crated, less stand	322 lbs.

Weight, domestic crated, with stand	400 lbs.
Weight, domestic crated, with stand and motor	440 lbs.
Export boxed, less stand (20.2 cu. ft.)	400 lbs.
Export boxed, with stand (52.8 cu. ft.)	600 lbs.
Export boxed, with stand and motor. (52.8 cu. ft.)	625 lbs.



# Model 141 14" Band Saw

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

**heavier . . . vibrationless . . . smoother . . .**

Leading the field in performance . . . rugged, versatile, dependable . . . POWERMATIC's Model 141 Band Saw, through precise engineering, offers the outstanding performance required for every type of band sawing operation. The advance-design of the tremendous one-piece, box type frame casting makes it, without doubt, the heaviest 14" Band Saw available. The weight, vibrationless operation, and perfect alignment give you the smoothest performance ever and, insures years of trouble free operation. A complete line of accessories, blades and electricals provide flexibility and safety previously found only in higher priced production models.



**T.E.F.C. Motor Standard**

## Rip Fence

Optional for precision ripping and resawing. Accurately scaled with pointer for vernier adjustment.

## Table Trunnion

Heavy duty, widely spaced table trunnion assures positive lock and maximum table rigidity at any degree of tilt. Large, easy to read tilt scale located at rear of table.

## Side Takeout Slot

for bandsaw blade eliminates necessity of split or narrow trunnions. Tapered pin keeps table surface flat.



## Eye level blade tension scale

shows correct tension for different blade widths. Adjustable from front of machine.



## Exclusive "vulcanized" tires

eliminates frequent tire change—massive Box-type casting houses dynamically balanced wheel for smooth operation.



## Swivel type table stop automatically

positions table or is easily moved for 15° left tilt.



## Ball bearing side and backup bearings

reduce blade fatigue as much as 50% on all non-ferrous materials.





# Flexibility, Safety and advanced features

## Model 141 14" Band Saw

### FEATURES

**FRAME:** Massive, box-type, one piece, cast iron frame, ribbed and cross ribbed for maximum rigidity, vibration-less, trouble-free service.

**WHEELS:** Heavy duty cast iron upper and lower wheels, precision machined and dynamically balanced for smooth running. Ground rubber tires provide positive grip preventing blade slippage.

**TABLE:** Huge 15" x 15" cast iron table, accurately ground and machined for hair-line cutting and equipped with side take-out to permit use of a solid rip-fence guard rail. Tilts 45° right—12° left, with positive stop at 90°.

**TRUNNION:** Wide spaced cast iron and steel trunnion assures positive locking of table. An easy to read 'sight' scale is mounted on front of trunnion for quick, positive tilt adjustment.

**SAW GUIDES:** Top saw guide is fitted with back-up ball bearing and large hardened steel side guides. Lower guide utilizes back-up ball bearing and ball bearing side guides. Lower guide is just below table surface for closer tolerance.

**GUARDS:** All moving parts are completely guarded. Only the operating portion of the blade is exposed. Large pressed steel doors enclose upper and lower wheels.

**SAW BLADE ADJUSTMENT:** Blade tension is adjusted with conveniently located handwheel, spring loaded to absorb shock and maintain equal tension on the blade. A tension scale, located at eye-level, controls proper blade tension.

**DRIVE:** Non-slip V-belt for utmost efficiency in any work load range. Drive, motor, and "v" belt are completely enclosed in a heavily braced steel floor stand.

### STANDARD EQUIPMENT

**BAND SAW WITH OR WITHOUT STAND:** ¼" blade, ball bearing guides, wheel and blade guards, wrenches and arbor pulley—Less motor, motor pulley, V-belt and switch.

**BAND SAW WITH MOTOR:** ¼" blade, ball bearing guides, wheel and blade guards, wrenches, arbor pulley, motor, motor pulley, V-belt and switch.

### STANDARD MACHINES

**141-01—14" Band Saw,** complete with guards and ¼" blade, wrenches, but less motor and stand.

**141-02—Same as 141-01** except with floor stand.

**141-03—Same as 141-02** except with 1/3-HP 1-phase motor, switch, # 1-21, belts, pulleys, cord and plug.

**141-04—Same as 141-02** except with 1/3-HP 3-phase motor, switch, #3-25, belts, pulleys.

**141-05—Same as 141-02** except with ½-HP 1-phase motor, switch, #1-21, belts, pulleys, cord and plug.

**141-06—Same as 141-02** except with ½-HP 3-phase motor, switch, #3-25, belts, pulleys.

### SPECIAL LISTINGS

**141-07—14" band saw,** complete with guards, floor stand, ½ HP single phase motor. Manual switch with overload protection, cord and plug.

**141-08—14" band saw,** complete with guards, floor stand, ½ HP 3 phase motor, manual switch with overload

protection.

**141-09—14" band saw,** complete with guards, floor stand, ½ HP single OR 3 phase motor, magnetic controls. Cord and plug std. on single phase only.  
(Specify phase)

### OPTIONAL ACCESSORIES

**141-10—Work Lamp,** wt. 10 oz.

**141-11—Miter Gauge,** wt. 3½ lbs.

**141-12—Rip Fence,** wt. 8 lbs.

**141-13—¾" Wide band saw blade,** wt. 6 oz.

**141-14—3/16" Wide band saw blade,** wt. 6 oz.

**141-15—¼" Wide band saw blade,** wt. 6 oz.

**141-16—⅜" Wide band saw blade,** wt. 6 oz.

**141-17—½" Wide band saw blade,** wt. 6 oz.

**141-18—¾" Wide band saw blade,** wt. 6 oz.

**141-19—3-phase O/L Switch #3-27,** wt. 1 lb.

**141-20—1-phase O/L Switch #1-23,** wt. ¾ lb.

**141-21—Magnetic 3-ph. Switch #3-30 & 1-3-32,** wt. 6 lbs.

**141-22—Magnetic 1-ph. Switch #1-29 & 1-3-32,** wt. 6 lbs.

**141-23—Floor Stand,** wt. 57 lbs.

**\*141-24—3½" diameter motor pulley** for 1725 RPM motor. (Specify bore). Wt. 1 lb.

**141-25—Belt** for 1750 RPM motor—4L600, wt. 8 oz.

**141-26—JIC Electricals** for 1-phase or 3-phase, wt. 20 lbs.

**141-27—Upper guide assembly.**

**141-28—Lower guide assembly.**

\*(Order ONLY when machine is purchased less motor.)

### SPECIFICATIONS

CAPACITY: Blade to frame	14"
Under guide	6½"
Blade Speed	3000 SFM
Overall Height (on stand)	71"
Width	25½"
Front to Back	13¾"
Table Size	15" x 15"
Table height from floor	42"
Table tilt	45° right, 12° left
Blade width, maximum	¾"

Blade length, maximum	96"
Blade length, minimum	94"
Weight, net, less stand	222 lbs.
Weight, net, with stand	296 lbs.
Weight, crated, less stand	225 lbs.
Weight, crated, with stand	330 lbs.
Weight, crated, with stand and motor	355 lbs.
Export, boxed, less stand (22.1 cu. ft.)	330 lbs.
Export, boxed, with stand (39.9 cu. ft.)	422 lbs.
Export, boxed, with stand and motor (39.9 cu. ft.)	450 lbs.



# Model 143

## 14" Combination Wood & Metal Band Saw

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT



T.E.F.C. Motor Standard

### Rugged . . . Big Capacity . . . A Versatile Performance Leader . . .

Combining careful design, rugged cast iron construction and big capacity, the Powermatic Model 143-14" combination wood and metal Band Saw is equally adaptable to the machine shop, tool room, foundry, pattern or school shop, and wherever exacting performance is required. The added rigidity of its heavy duty construction makes it possible to cut stainless steel and guarantees hairline accuracy wherever there exists the problem of performing precision contour and band filing operations. Loaded with quality features, the Model 143-14" Band Saw is the ultimate for your production needs . . . and it's priced within the range of the average hobbyist.



Welder

Blade welder and grinder for quick blade repair and installation. Portable only.



Belt-Tension Control

Swing-away action provides quick, simple belt tension control. Lever located outside of belt housing permits belt adjustment in a minimum of time.



Heavy Duty Precision Gear Train

is constantly bathed in non-foam oil. All shafts are mounted in sealed ball bearings assuring long life and trouble-free operation.

**Side Takeout Slot**  
for bandsaw blade eliminates necessity of split or narrow trunnions. Tapered pin keeps table surface flat



### Swivel type table stop automatically

positions table or is easily moved for 15° left tilt.



### Saw Guides

Rugged, dependable hardened steel side guides with ball bearing back-up guarantee hair-line accuracy. Lower angular guide places guide just below table surface for closer tolerance work.



### Eye level blade tension scale

shows correct tension for different blade widths. Adjustable from front of machine.



### Exclusive "vulcanized" tires

eliminates frequent tire change—massive Box-type casting houses dynamically balanced wheel for smooth operation.





### FEATURES

**FRAME:** Throughout the years CAST IRON has proven to be the ultimate material for vibrationless, trouble free service, so Powermatic has chosen a MASSIVE one-piece cast iron frame, ribbed and cross-ribbed, to house the precision mechanism forming the 'heart' of the Model 143.

**TRANSMISSION:** Ball bearing driven entirely . . . a massive, quick-change two speed gear box constantly bathed in oil for noise-less, wear-less operation. The two-speed transmission and step pulley drive provide any of eight speeds from 40 to 3000 SFM for cutting a variety of metals, plastics and wood.

**WHEELS:** Heavy duty cast iron upper and lower wheels are precision machined and dynamically balanced for smooth running. Ground rubber tires provide positive grip preventing blade slippage.

**TABLE:** A huge 15" x 15" cast iron table, accurately ground and machined for hair-line cutting is equipped with side take-out permitting use of a solid rip fence guide rail.

Tilts 45° right —12° left with positive stop at 90°.

**TRUNNION:** Wide-spaced cast iron and steel trunnion assures positive locking of table. An easy to read 'sight' scale is mounted on ear of table for quick, positive tilt adjustment.

**SAW GUIDES:** The top saw guide is fitted with backup ball bearing and large hardened steel side guides. Lower guide also utilizes backup ball bearing with angular hardened steel side guides. This design places lower guide just below table surface for closer tolerance work.

**GUARDS:** All moving parts are completely guarded. Only the operating portion of the blade is exposed. Large pressed steel doors enclose upper and lower wheels.

**SAW BLADE ADJUSTMENT:** Blade tension is adjusted with conveniently located handwheel, springloaded to absorb shock and maintain equal tension on the saw blade. Convenient scale, mounted at eye-level for proper blade tension.

### STANDARD EQUIPMENT

**BAND SAW WITH STAND:** 8-speed transmission, belt guards, driven belt, ½" blade, wheel blade guards, wrenches, hardened steel blade guides and driven pulley —Less motor, motor pulley, drive belt, switch and wiring.

**BAND SAW WITH MOTOR:** 8-speed transmission, belt, guards, driven belt, ½" blade, wheel blade guards, wrenches, hardened steel blade guides, driven pulley, motor, motor pulley, drive belt, switch, and wiring.

### STANDARD MACHINES

**143-02—14" Metal Cutting Band Saw,** 8-speed transmission drive, belt guards, ½" blade, wrenches, and enclosed steel base, less motor and switch.

**143-03—14" Metal Cutting Band Saw,** same as 143-02, except with ¾-HP 1-phase motor and switch, #1-21, belts, pulleys, cord and plug, ready to run.

**143-04—14" Metal Cutting Band Saw,** same as 143-02, except with ¾-HP 3-phase motor and switch,

#3-25, belts, pulleys, ready to run.

**143-05—14" Metal Cutting Band Saw,** same as 143-02, except with ½-HP 1-phase motor and switch, #1-21, belts, pulleys, cord and plug, ready to run.

**143-06—14" Metal Cutting Band Saw,** same as 143-02, except with ½-HP 3-phase motor and switch, #3-25, belts, pulleys, ready to run.

### OPTIONAL ACCESSORIES

- 143-10—Work Lamp,** wt. 10 oz.
- 143-11—Miter Gauge,** wt. 3½ lbs.
- 143-12—Rip Fence,** wt. 8 lbs.
- 143-13—½" Wide band saw blade** (Specify wood or metal), wt. 6 oz.
- 143-14—3/16" Wide band saw blade** (Specify wood or metal), wt. 6 oz.
- 143-15—¼" Wide band saw blade** (Specify wood or metal), wt. 6 oz.
- 143-16—¾" Wide band saw blade** (Specify wood or metal), wt. 6 oz.
- 143-17—½" Wide band saw blade** (Specify wood or metal), wt. 6 oz.
- 143-18—¾" Wide band saw blade** (Specify wood or metal), wt. 6 oz.
- 143-18A—Toggle 1-phase switch** #1-21

- 143-18A—Toggle 1-phase switch** #1-21
- 143-18B—Toggle 3-phase switch** #3-25
- 143-19—3-phase O/L Switch** #3-27, wt. 1 lb.
- 143-20—1-phase O/L Switch** #1-23, wt. ¾ lb.
- 143-21—Magnetic 3 Ph. Switch** #3-30 & 1-3-32, wt. 6 lbs.
- 143-22—Magnetic 1 Ph. Switch** #1-29 & 1-3-32, wt. 6 lbs.
- 143-27-A—Band saw welder,** with grinder for blades up to ¾", wt. 40 lbs.
- 143-28—JIC Electricals** for 1 or 3-phase, wt. 20 lbs.
- 143-28—JIC Electricals** for 1 or 3-phase, wt. 20 lbs.

### SPECIFICATIONS

Capacity: Blade to Frame	14"
Under guide	6½"
Speeds: With 1725 RPM motor	40, 60, 100, 160, 750, 1200, 1800, 3000 SFM
Overall Height (on stand)	71"
Width	25½"
Front to back	13¼"
Table size	15" x 15"
Table height from floor	42"
Table tilt	45° right, 12° left
Blade width, maximum	¾"
Blade length, maximum	96"
Blade length, minimum	94"

Weight, net, less stand	260 lbs.
Weight, net, with stand	320 lbs.
Weight, domestic crated, less stand	285 lbs.
Weight, domestic crated, with stand	355 lbs.
Weight, domestic crated, with stand and motor	395 lbs.
Export boxed, less stand	455 lbs.
Export boxed, with stand (41.4 cu. ft.)	545 lbs.
Export boxed, with stand and motor (41.4 cu. ft.)	575 lbs.



# Model 81 Band Saw

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

## accuracy in every operation

Powermatic precision means exacting engineering and design to assure hair-line accuracy in every band saw job you do. Powermatic dependability means that you'll get years of rugged service on the production line or in the simplest fabrication. Built of thoroughly reinforced heavy-gauge steel plate, the Powermatic Model 81 has all moving parts enclosed to insure safety.

**Standard Equipped**  
With ball bearing side guides  
for 3/16" to 1/2" blade only.

**Optional:**  
8100-29 hardened block  
guide for 1/2" to 1" blade.  
8100-30 hardened block  
guide for 1/2" to 1/2" blade.



**T.E.F.C. Motor Standard**

**"Vulcanized" tire**  
eliminates frequent  
change and loose  
fitting tires.



**Heavy-Duty 6" Single-Action Trunnion**  
affords maximum rigidity.  
Fast, sure table adjustment  
45° right, 15° left,  
positive 90° stop.



**Friction-Free Ball Bearing Guides** top and bottom increase blade life, adjust to fit any type of blade.



**Counter-Balanced Blade Arm** means maximum safety for operator, stock and machine during fast change-overs.



Part No. 8100-17

**Miter Gauge**  
Precision cast aluminum miter gauge complete with stock rods for hairline accuracy.

**Table Insert Quickly Removed** for fast blade change. Note wide flange on precision-machined table for extreme rigidity.



Part No. 8100-11

**Lamp**  
Flexible work-lamp. Ideal for spotlighting working surface.

**Fully Enclosed Motor and Drive** assures longer motor life. Top and bottom wheels easily accessible through front doors.



Part No. 8100-35

**Circle Cutter**  
For radius cuts in plastics, woods, and hardboards.

**Simplified Rip Fence Mounting** on machined and drilled front edge of table.



Part No. 8100-10



# Model 81 Band Saw

## FEATURES

**FRAME:** Constructed of reinforced steel plate for maximum rigidity. All parts cast iron or steel, nothing die cast.

**TABLE:** 3" x 24" x 24"; made of finest grey iron castings, machine ground to precision tolerance. Mounted on heavy-duty trunnion to tilt 45° right, 15° left. Front edge machined and drilled for mounting rip fence.

**WHEELS:** Made of finest machine castings, dynamically balanced and fitted with easy-change rubber tires. Upper and lower wheels run in lubricated-for-life ball bearings.

**DRIVE:** Available either belted or direct. Belt driven model is powered by 1725 RPM motor mounted on adjustable motor base. Direct drive model has lower wheel mounted directly on motor shaft.

**BRAKE:** Standard with manually operated foot brake. Powermatic's exclusive brake interlock with switch (optional) with magnetic controls.

**SAW BLADE ADJUSTMENT:** Conveniently located hand-wheel for blade tension adjustment. Spring mechanism absorbs shock and maintains uniform tension on the blade.

**SAW GUIDES:** Top and bottom saw guides are ball bearing to assure minimum friction and increased blade life.

**GUIDE ARM:** Rugged, counter-balanced guide arm allows effortless adjustment of saw guides—yet maintains unsurpassed rigidity.

## STANDARD EQUIPMENT

**BAND SAW LESS MOTOR:** Blade and wheel guards, 3/8" blade, set of wrenches, foot brake, dust chute, blade tension control, ball bearing blade guides, counterbalanced guide arm, motor mount bracket and driven pulley—Less motor, motor pulley, belt, switch and wiring.

**BAND SAW WITH MOTOR:** Blade and wheel guards, 3/8" blade, set of wrenches, foot brake, dust chute, blade tension control, ball bearing blade guides, counter-balanced guide arm, motor mount bracket and driven pulley, motor, motor pulley, belt, switch and wiring.

## STANDARD MACHINES

- 8100-01—20" Band Saw, standard equipped with 3/8" blade, wrenches, less motor, switch and motor pulleys.
- 8100-02—Same as 8100-01, but with 1-HP, 3-phase motor, switch #3-25, 3/8" blade, ready to run.
- 8100-03—Same as 8100-02, except with 1-HP, 1-phase motor and switch, #1-21.
- 8100-04—Same as 8100-02, except with 1 1/2-HP, 3-phase motor and switch, #3-25.

- 8100-05—Same as 8100-02, except with 1 1/2-HP, 1-phase motor and switch, #1-21.
- 8100-06—Same as 8100-02, except with 2-HP, 3-phase motor and switch, #3-25.
- 8100-07—Same as 8100-02, except with 2-HP, 1-phase motor and switch, #1-21.
- 8100-08—20" Band Saw DIRECT DRIVE, standard equipped with 1-HP, 3-phase motor, 3/8" blade, switch #3-25, ready to run.

## SPECIAL LISTINGS

- 8100-26—20" Band Saw, complete with 3/8" blade, 1-HP, 1-phase motor, manual switch with overload protection, cord and plug.
- 8100-27—20" Band Saw, complete with 3/8" blade, 1-HP,

3-phase motor, manual switch with overload protection.

- 8100-28—20" Band Saw, complete with 3/8" blade, 1-HP, 1- OR 3-phase motor, magnetic controls.

## OPTIONAL ACCESSORIES

- 8100-10—Rip Fence, Wt. 22 lbs.
- 8100-11—Flexible Work Lamp, wt. 10 oz.
- 8100-12—1/4" wide Band Saw Blade, wt. 8 oz.
- 8100-13—3/8" wide Band Saw Blade, wt. 8 oz.
- 8100-14—1/2" wide Band Saw Blade, wt. 8 oz.
- 8100-15—3/4" wide Band Saw Blade, wt. 8 oz.
- 8100-16—1" wide Band Saw Blade, wt. 8 oz.
- 8100-17—Miter Gauge, 3 1/2 lbs.
- 8100-18—3-phase O/L Switch #3-27, wt. 1 lb.

- 8100-19—1-phase O/L Switch #1-23, wt. 3/4 lb.
- 8100-20—3" diameter motor pulley (order only when machine is purchased without motor).
- 8100-21—Magnetic 3 Ph. Switch #3-30 & 1-3-32, wt. 6 lbs.
- 8100-22—Magnetic 1 Ph. Switch #1-29 & 1-3-32, wt. 6 lbs.
- 8100-23—Foot brake interlock with switch to provide power shut-off (available if saw is equipped with magnetic starter).
- 8100-24—3-wire 8' cord, with attachment plug.

- 8100-25—4-wire 8' cord, with attachment plug.
- 8100-29—Hardened block guide for 1/2" to 1" blade, wt. 8 oz.
- 8100-30—Hardened block guide for 1/8" to 1/2" blade, wt. 8 oz.
- 8100-31—JIC Electricals for 1 or 3-phase, wt. 20 lbs.
- 8100-32—Belt for 1-HP motor—4L-390, wt. 8 oz.
- 8100-33—Belt for 1 1/2-HP motor—4L-380, wt. 8 oz.
- 8100-34—Belt for 2-HP motor—4L-360, wt. 8 oz.
- 8100-35—Circle cutting attachment, wt. 3 lbs.

## SPECIFICATIONS

Table Size.....3" x 24" x 24"  
Table in front of blade.....11 1/2"  
Table tilt.....15° left—45° right  
Wheel size.....1 1/4" x 20"  
Blade to column.....19 1/2"  
Maximum depth of cut under guide.....12 1/2"  
Maximum width blade recommended.....1"

Maximum adjustment of blade.....2 1/2"  
Maximum length of blade.....12'7"  
Minimum length of blade.....12'5"  
Recommended wheel speed.....900 RPM or 4500 SFM  
Motor power recommended, (V-belt drive).....1 to 2-HP, 1725 RPM  
Overall height.....76"  
Table height from floor.....41 1/2"

Weight, net.....770 lbs.  
Weight, domestic crated, less motor.....860 lbs.  
Weight, domestic crated, with motor.....895 lbs.  
Weight, export boxed, less motor (94.4 cu. ft.).....1050 lbs.  
Weight, export boxed, with motor (94.4 cu. ft.).....1090 lbs.



# Model 95 Scroll Saw

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

## New Dependability . . . Greater Precision . . .

Another pace setting achievement of Powermatic engineering. The Model 95 SCROLL SAW is unsurpassed in quality, features, and all around ruggedness. Designed and produced by popular demand, this 24" unit is ideally suited to cabinet, school and pattern shops. Use it as a jig saw, saber saw or filing machine . . . and get more value, more use, and greater accuracy at less cost. Constructed of cast iron and steel, the Model 95—24" Scroll Saw is guaranteed to be distortion free.



T.E.F.C. Motor Standard



### Variable Speed

is ideally suited for cutting all materials. Adjustment accomplished through conveniently located hand-wheel.



### Blade Guide

Whether using jig or saber blades this hardened steel guide and roller assembly maintains perfect alignment and blade support. Note heavy duty spring hold-down. Tilts for support on all angle cuts.



### Lower Chuck

Another POWERMATIC first. This hardened steel chuck guarantees positive grip for all blades for the life of the saw. Will NOT fall apart.



### Depth of Cut

Cuts up to 1 3/4" thick. Will rip to center of 48" panel. Just remove cast iron arm for saber work on large panel.



## big value... precision and performance unexcelled

### FEATURES

**FRAME:** Rugged two-piece cast iron base and over-arm, precision machined and distortion free. Over-arm removable for use as saber saw.

**GUARD:** Pressed steel belt guard completely houses drive belt.

**DRIVES AVAILABLE:** Step pulley drive, four speed, and Variable Speed for infinitely variable speeds.

**TABLE:** Massive 14" x 15" table of finest cross ribbed grey iron castings, machine-ground to precision tolerance. Table tilts 45° right, 15° left for normal cutting and turned 90° for cutting extra long stock.

**BLOWER:** Standard equipped with chip blower which directs a steady stream of air to cutting area, keeping work free of sawdust.

**CRANKSHAFT:** Ball bearing crankshaft is automatically lubricated by splash system in fool-proof crankcase.

**TRUNNION:** A heavy duty double trunnion guarantees absolute rigidity and positive lock in all positions.

**HEAD:** A special combination cast iron and steel head assures long life and trouble free operation.

**SPRING:** A heavy tension spring over the saw blade is adjustable to blade type and type of cut.

### STANDARD EQUIPMENT

**SCROLL SAW LESS MOTOR:** (variable or 8-speed) motor, driven pulleys, belt, belt guard, chipblower, 4-way table, Saber blade, 3 Scroll saw blades and set of wrenches—less motor, switch, and wiring.

**SCROLL SAW WITH MOTOR:** (variable or 8-speed) motor, driven pulleys, belt, belt guard, chipblower, 4-way table, saber blade, 3 scroll saw blades, set of wrenches, double shaft motor, switch, and wiring.

### STANDARD MACHINES

**950-02—24" Scroll Saw, 4 speed, with stand, belt guard, motor pulley, V belt, 1 saber blade, 3 Scroll Saw blades, wrenches, less motor and switch.**

**950-03—24" Scroll Saw, variable speed, with stand, belt guard, motor pulley, V belt, 1 saber blade, 3 Scroll Saw blades, wrenches, less motor and switch.**

**950-04—24" Scroll Saw, 4 speed, with stand, belt guard, 1/3-HP, 1-phase motor, switch #1-21 and extension cord, ready to run.**

**950-05—24" Scroll Saw, variable speed, with stand, belt guard, 1/3-HP, 1-phase motor and switch, #1-21 and extension cord, ready to run.**

**950-06—24" Scroll Saw, 4 speed, with stand, belt guard, 1/3-HP, 3-phase motor and switch #3-25, less extension cord.**

**950-07—24" Scroll Saw, variable speed, with stand, belt guard, 1/3-HP, 3-phase motor and switch #3-25, less extension cord.**

### OPTIONAL ACCESSORIES

**950-14—JIC Electricals, wt. 20 lbs.**

**950-15—Magnetic 1-phase Switch #1-29 & 1-3-32, wt. 6 lbs.**

**950-16—Magnetic 3-phase Switch #3-30 & 1-3-32, wt. 6 lbs.**

**950-17—1-phase O/L Switch #1-23, wt. ¾ lb.**

**950-18—3-phase O/L Switch #3-27, wt. 1 lb.**

**950-19—Toggle, 1-phase Switch #1-21, wt. 8 oz.**

**950-20—Toggle, 3-phase Switch #3-25, wt. 1 lb.**

**950-25—V belt, 4 speed drive**

**950-26—V belt, variable drive**

**950-27—Belt Guard, wt. 3 lbs.**

**950-28—Work Lamp, wt. 10 oz.**

**950-29—Upper blade chuck assembly, wt. 1 lb.**

**950-30—Lower blade chuck assembly, wt. 1 lb.**

**950-31—Upper blade tension assembly**

**950-32—Variable speed assembly kit**

**950-33—Saber blade guide, wt. 4 oz.**

**950-34—Saber Blades**

**950-35—Stand**

### SPECIFICATIONS

Capacity, Arm to Saw.....24"  
Thickness of cut.....1¾"  
Table size.....14" x 15"  
Table tilt.....45° R., 15° L., 45° Front  
Table from floor.....42¼"  
Overall Height.....54½"  
Width.....14"  
Length.....36"

Step-Speeds.....610, 910, 1255 CSM,  
Var. Speeds.....807 to 1653 CSM  
Net Weight, with stand  
and motor.....190 lbs.  
Weight Crated, with stand  
and motor.....220 lbs.  
Weight Crated, less stand,  
with motor.....179 lbs.

Weight Crated, less stand,  
less motor.....156 lbs.  
Weight Crated, with stand,  
less motor.....217 lbs.  
Weight, Export boxed,  
with stand and motor  
(11.2 cu. ft.).....325 lbs.

**NOTE: Refer to Price List for Scroll Saw Blade Prices**



# Model 35 12" Disc Sander

The heft, feel and precision of high-production operation is packed into this top performing disc sander to bring you the last word in design, smooth operation and famous Powermatic dependability.

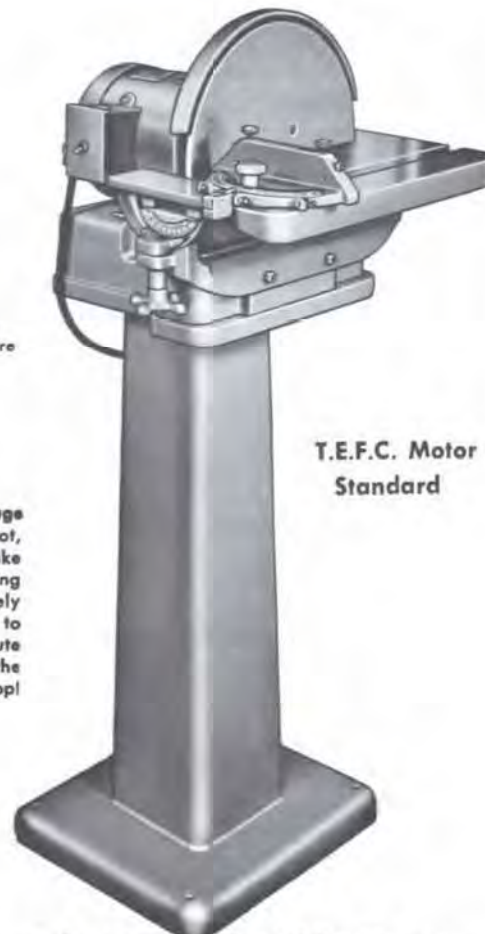
Whether in hobby shop or high-production operation, you'll be amazed with the superb quality and speed you get on any sanding, polishing, de-burring or burnishing job. Just lock-set the tilting table in proper position and you're ready to go.

Move it anywhere quickly, too . . . with or without the rigid, heavy-gauge steel floor stand. Just plug in and you're ready to go again in a new location!



**De-burring Operations** for all metals and plastics are done quickly, accurately and safely.

**Optional Miter Gauge** fitted in table slot, and tilting table make compound mitering operations extremely accurate and simple to perform. An absolute necessity in the pattern shop!



**T.E.F.C. Motor Standard**

## FEATURES

**TILTING TABLE:** Extra-wide 10" x 16½" tilting table is slotted for accurate miter gauge attachment. Easy to tilt and securely lock at any angle from 0 to 45° out and to 45° in.

**GUARD:** Only the moving disc surface is exposed. All other moving parts are completely guarded for maximum safety.

**TRUNNION:** Finest heavy-duty construction for smooth and

easy tilting operation and extreme table rigidity in any locked position.

**DRIVE:** Sanding disc is mounted directly on motor drive-shaft. ¾ or 1-HP, 1 or 3-phase motor available.

**SANDING DISC:** Full size 12" disc is more than ample for most every operation. Garnet disc (for wood, plastics, light metals, etc.) or Aluminum Oxide disc (for heavy ferrous metals) available (specify disc type). 1725 RPM.

## STANDARD EQUIPMENT

**DISC SANDER LESS MOTOR:** 2-way tilting table, disc guard, exhaust outlet, set of wrenches and 1 sanding disc—Less motor, switch, and wiring.

**DISC SANDER WITH MOTOR:** 2-way tilting table, disc, guard, exhaust outlet, set of wrenches and 1 sanding disc, motor, switch, and wiring.

## STANDARD MACHINES

**350-01**—12" Disc Sander, complete with tilting table, wrenches, less stand and motor. For 56 frame motor only.

**350-04**—Same as 350-01, except with stand.

**350-07**—Same as 350-01, except with stand and ¾-HP 1-phase motor, switch #1-21, cord and plug.

**350-08**—Same as 350-01, except with stand and ¾-HP 3-phase motor, switch #3-25.

**350-09**—Same as 350-01, except with stand and 1-HP 1-phase motor, switch #1-21, cord and plug.

**350-10**—Same as 350-01, except with stand and 1-HP 3-phase motor, switch #3-25.

## OPTIONAL ACCESSORIES

**350-20**—Miter Gauge, wt. 3½ lbs.

**350-21**—Garnet disc for wood, 12" diameter, 50 grit, medium (½ doz.).

**350-22**—Aluminum oxide disc for metal, 12" diameter, 60 grit, medium (½ doz.).

**350-23**—Disc assembly with flange and set screws, wt. 5 lbs.

**350-24**—Steel floor stand, totally enclosed. Wt. 50 lb.

**350-24A**—Toggle, 1 Ph. Switch #1-21, wt. 8 oz.

**350-24B**—Toggle, 3 Ph. Switch #3-25, wt. 1 lb.

**350-25**—1-phase O/L Switch #1-23, wt. ¾ lb.

**350-26**—3-phase O/L Switch #3-27, wt. 1 lb.

**350-27**—Magnetic 1 Ph. Switch #1-29 & 1-3-32, wt. 6 lbs.

**350-28**—Magnetic 3 Ph. Switch #3-30 & 1-3-32, wt. 6 lbs.

**350-29**—JIC Electricals for 1 or 3-phase, wt. 20 lbs.

**350-30**—Glue

**350-32**—4 oz. Disc Cement

**350-33**—1 Pint Disc Cement

## SPECIFICATIONS

Floor Model:  
Width 17¾"  
Height 46½"  
Front to Rear 18½"  
Motor recommended ½ or ¾-HP,  
1 or 3-phase  
Motor arbor ¾"

Table 10" x 16½"  
Table tilt 45° out; 45° in  
Sanding disc 12"  
Weight, net, less stand 85 lbs.  
Weight, net, with stand 128 lbs.  
Weight, Domestic crated,  
less stand 105 lbs.

Weight, Domestic crated,  
with stand 206 lbs.  
Weight, Export boxed,  
less stand 135 lbs.  
Weight, Export boxed,  
with stand 248 lbs.



# Model 33 6" Belt Sander

## FEATURES

**TILTING TABLE:** Big 10" x 16½" tilting table is slotted for accurate miter gauge attachment. Easy to tilt and lock at any angle from horizontal to 45°. Change easily from belt to disc operation.

**DRUMS:** 4½" in diameter, both drums are mounted in big sealed ball bearings for extra smooth operation and years of trouble-free service. Spring-loaded idler drum accurately maintains belt tension. Easy-to-reach belt controls assure positive and accurate alignment.

**BELT:** Accommodates 6" x 48" belt. Entire belt assembly may be quickly adjusted for operation at any angle from horizontal to vertical. Outer belt guard may be removed for contour or edge sanding, 2450 SFM.

**GUARDS:** Only the moving sanding surfaces are exposed. All other moving parts, including belt assembly, are completely guarded for maximum safety. Belt assembly guard has dust duct opening.

**TRUNNION:** Extremely heavy duty construction assures complete table rigidity at all times.

**DRIVE:** Single V-belt driven by ¾-HP or 1-HP, 1 or 3-phase 1725 RPM motor.

## STANDARD EQUIPMENT

**BELT SANDER LESS STAND:** 2-way tilting table, guards, arbor pulley, exhaust outlet, work stop, 1 sanding belt and set of wrenches—Less motor, stand, motor pulley, belt, switch and wiring.

**BELT SANDER WITH STAND AND MOTOR:** Same as above except with stand, pivot motor mount, motor, motor pulley, belt, switch and wiring.

## STANDARD MACHINES

**330-01**—Model 33 Belt Sander, including wrenches, sanding belt (specify metal or wood), interchangeable tilting table, guards, and back stop, less stand, motor, pulley and belt.

**330-02**—Same as 330-01, except with stand.

**330-05**—Same as 330-01, except with stand and ¾-HP, 1-phase motor, switch #1-21, pulleys, belt, cord and plug.

**330-06**—Same as 330-01, except with stand and ¾-HP, 3-phase motor, switch, #3-25, pulleys, belt.

**330-07**—Same as 330-01, except with stand and 1-HP, 1-phase motor, switch, #1-21, pulleys, belt, cord and plug.

**330-08**—Same as 330-01, except with stand and 1-HP, 3-phase motor, switch #3-25, pulleys, belt.

**330-09**—Same as 330-02, except with 1-Hp, 1- or 3-phase motor, switch and built-in dust collector. (Specify)



**Dust Collector (Optional).** Cutaway shows blower, motor, dust bag and ducting. Removes dust from belt and disc. Designed for trouble free service.

**T.E.F.C. Motor Standard**



**Contour Sanding is easy and simple.** Just lock unit in vertical position, remove the top guard and you're ready to go.

## SPECIFICATIONS

Sanding belt	6" x 48"
Belt drums	4½"
Belt support table	6⅝" x 15½"
Distance between belt drum centers	19½"
Tilting table	10" x 16½"

Spindle speed	1725 RPM
Table tilt	45° up or down
Height with stand	38¾"
Length	28"
Width	18"
Weight	lbs.

Net, less stand, with motor	135
Net, with stand & motor	178
Domestic Crated, with motor	224
Domestic Crated, less stand	175
Export boxed, less stand (10.3 cu. ft.)	215
Export boxed, with stand & motor (27.8 cu. ft.)	304



# Combination 12" Disc and 6" Belt Sander

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

## big performance features ... at low cost

The completely enclosed electric motor is fully sealed off from dust damage by the rugged rib-reinforced steel cabinet (Optional). Thus protected, you can expect much longer, continuously dependable service from your Powermatic Belt and Disc Sander.

The ruggedly built cast iron chassis, frame and base assure the rigid and vibration-free operation so important in every high quality sanding and polishing job.

**Dust Collector (Optional).** Cutaway shows blower, motor, dust bag and ducting. Removes dust from belt and disc. Designed for trouble free service.



T.E.F.C. Motor Standard

**Contour Sanding** is easy and simple. Just lock unit in vertical position, remove the top guard and you're ready to go.



**Fully Adjustable**, center-mounted fence is a necessity for edge angle sanding, especially in limited use. Fence tilts full 45° right.

**Compound Angle Sanding** is fast and sure. Belt unit may be positioned horizontally or vertically or at any desired angle. Table tilts from horizontal to 45°.





# Combination 12" Disc and 6" Belt Sander

## FEATURES

**TILTING TABLE:** Big 10" x 16½" tilting table is slotted for accurate miter gauge attachment. Easy to tilt and lock at any angle from 0 to 45° out or in. Change easily from belt to disc operation.

**DRUMS:** 4½" in diameter, both drums are mounted in big sealed ball bearings for extra smooth operation and years of trouble-free service. Springloaded idler drum accurately maintains belt tension. Easy-to-reach belt controls assure positive and accurate alignment.

**BELT:** Accommodates 6" x 48" belt. Entire belt assembly may be quickly adjusted for operation at any angle from horizontal to vertical. Outer belt guard may be removed

for contour or edge sanding, 2450 SFM.

**GUARDS:** Only the moving sanding surfaces are exposed. All other moving parts, including belt assembly, are completely guarded for maximum safety. Belt assembly guard has dust duct opening.

**TRUNNION:** Extremely heavy duty construction assures complete table rigidity at all times.

**DRIVE:** Single V-belt driven by ¾-HP or 1-HP, 1 or 3-phase motor.

**SANDING DISC:** Full size 12" disc is more than ample for most sanding and polishing operations. Dynamically balanced for vibration-free performance always. 1725 RPM.

## STANDARD EQUIPMENT

**BELT & DISC SANDER LESS STAND:** Interchangeable tilting table, belt and disc guards, exhaust outlets, work stop, 1 sanding belt and disc, Arbor pulley, and set of wrenches—Less motor, stand, belt, pulley, switch and wiring.

**BELT AND DISC SANDER WITH STAND AND MOTOR:** Same as above except with stand, motor mount, motor, motor pulley, belt, switch, and wiring.

## STANDARD MACHINES

**300-01**—Model 30 Belt and Disc Sander, including sanding belt and disc, interchangeable tilting table, dust spout, wrenches, and guards. Less motor and stand.

**300-02**—Same as 300-01, except with stand.

**300-05**—Same as 300-01, except with stand and ¾-HP, 1-phase motor, switch, #1-21, belts, pulleys, cord and plug.

**300-06**—Same as 300-01, except with stand and ¾-HP,

3-phase motor, switch, #3-25, belts and pulleys.

**300-07**—Same as 300-01, except with stand and 1-HP, 1-phase motor, switch, #1-21, belts, pulleys, cord and plug.

**300-08**—Same as 300-01, except with stand and 1-HP, 3-phase motor, switch, #3-25, belts and pulleys.

**300-09**—Same as 300-02, except with 1-HP, 1- or 3-phase motor, switch and dust collector. (Specify)

## OPTIONAL ACCESSORIES

**300-10**—Fence assembly, wt. 14 lbs.

**300-11**—Work Table, wt. 22½ lbs.

**300-12**—Miter gauge, wt. 3½ lbs.

**300-13**—Aluminum Oxide belt for metal, 100 grit, fine.

**300-14**—Aluminum Oxide belt for metal, 50 grit, coarse.

**300-15**—Garnet belt for wood, 80 grit, fine.

**300-16**—Garnet belt for wood, 40 grit, coarse.

**300-17**—Sanding Disc, Aluminum oxide for metal, 100 grit, fine. (½ doz.)

**300-18**—Sanding Disc, Aluminum oxide, for metal, 50 grit, coarse. (½ doz.)

**300-19**—Sanding Disc, Garnet, for wood, 80 grit, fine. (½ doz.)

**300-20**—Sanding Disc, Garnet, for wood, 40 grit, coarse. (½ doz.)

**300-25**—Toggle Switch, 1-phase, #1-21, wt. 1 lb.

**300-26**—Toggle Switch, 3-phase, #3-25, wt. 1 lb.

**300-27**—1-phase O/L switch, #1-23, wt. ¾ lb.

**300-28**—3-phase O/L switch, #3-27, wt. 1 lb.

**300-29**—Magnetic 1-phase switch #1-29 & 1-3-32, wt. 6 lbs.

**300-30**—Magnetic 3-phase switch #3-30 & 1-3-32, wt. 6 lbs.

**300-31**—JIC Electricals for 1 or 3 phase, wt. 20 lbs.

**300-32**—2.30" Diameter Motor Pulley. ¾" bore. Wt. 1 lb.

**300-33**—Belt for 1725 motor—4L550. Wt. 8 oz.

**300-34**—4 oz. Disc Cement

**300-35**—1 Pint Disc Cement

## SPECIFICATIONS

Sanding belt.....6" x 48"  
Sanding disc.....12"  
Belt drums.....4½"  
Belt support table.....6½" x 15½"  
Distance between belt  
drum centers.....19½"

Tilting table.....10" x 16½"  
Spindle speed.....1725 RPM  
Table Tilt.....45° out; 45° in  
Height with stand.....38¾"  
Length.....28"  
Width.....18"

Weight	lbs.
Net, less stand, with motor	142
Net, with stand & motor	185
Domestic Crated, with motor	242
Domestic Crated, less stand	152
Export boxed, less stand (10.3 cu. ft.)	222
Export boxed, with stand & motor (27.8 cu. ft.)	311



# Model 62 10" Tilting Arbor Bench Saw

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

Built for heavy-duty, BIG-SAW performance . . . equally at home in production, cabinet and deluxe hobby shops . . . easily moved to the construction site. . . . Here are the economy, rugged construction and years ahead features that assure you the same ease of operation, durability and trouble-free service found only in bigger, more expensive floor models. Let us demonstrate the Model 62 T. A. Bench Saw for you . . . check its quality features . . . and you will agree it is the **FINEST** available in its class.



## EASE-A-JUST RIP FENCE

Features fast fence adjustment with vernier control. Lower knob automatically aligns fence with blade . . . locks to front vernier. Upper knob locks rear of fence for positive, no-slip alignment.



## T-SLOT TABLE & MITER GAUGE

Equipped with T-slots on either side of blade . . . Miter gauge adjusts easily . . . T-slots prevent miter gauge from falling when extended beyond table for bigger stock.



## SEE-THROUGH WINDOW GUARD

Lets you view work while it's being cut . . . Eliminates dangerous or blind, guardless ripping.



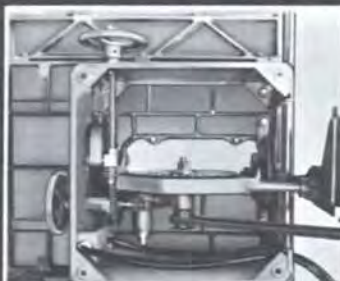
## CENTRALLY GROUPED CONTROLS

Positioned up front for quick access, safe operation. Smooth operating rack and gear mechanism easily raises, lowers, and tilts the blade. Saw settings are locked by 3-spoke knob.



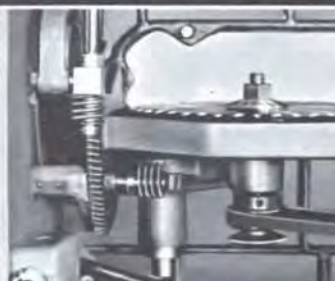
## EFFICIENT POWER TRANSMISSION

Full power transmission to the saw blade is uniform at any degree of tilt. Note how motor, saw assembly and guard tilts as a unit. Stops at 45° and 90°.



## RUGGED CONSTRUCTION

Wide-spaced dual trunnions, machined from heavy grey castings . . . maintains perfect alignment for easy handwheel, rack and gear adjustment.



## RELIABLE ACTION

Smooth action is the by-word when adjusting saw blade with this easy-acting, self-cleaning heavy rack and pinion assembly.



## HEAVY DUTY TABLE

Massive, cast table is ribbed and cross-ribbed for maximum rigidity and durability . . . scientifically designed to prevent distortion, positively holds a true surface.



## Quality Features For Top Saw Performance...

### FEATURES

**TABLE:** Standard Table (with Extension) measures 28" x 38", accurately machined and re-inforced with ribs to hold a true surface. Insert plate provides ample room for removing saw blade or dado head.

**T-SLOTS:** An excellent safety and accuracy feature, the T-slot prevent miter gauge from falling when making wide cut-off.

**ARBOR:** The  $\frac{5}{8}$ " arbor is mounted in large sealed for life Ball Bearings requiring no lubrication. It is raised and lowered by a worm gear operated by conveniently posi-

tioned handwheel.

**SAW BLADE:** 10" Combination saw blade tilts 45° with a  $2\frac{1}{8}$ " cut at this position. Maximum depth of cut at 90 is  $3\frac{3}{16}$ ".

**POWER:** Designed for use with motors from 1 to  $1\frac{1}{2}$  horsepower for maximum cutting efficiency.

**PORTABILITY:** is the big feature of this fine saw. So easily moved on its caster and handle assembly that contractors are finding this unit ideal for "on the Job" performance.

### STANDARD EQUIPMENT

Basic Machine standard equipped with  $\frac{5}{8}$ " arbor, Combination Saw Blade, T-slotted table, fence, guide rails, miter

gauge and table insert. Less motor and controls, guard, splitter, extension wings and stand.

### STANDARD MACHINES

**6200-01**—10" Tilting Arbor Bench Saw, LESS guard, splitter, extension wings, stand motor and switch. Equipped WITH blade, fence, guide rails, miter gauge and table insert. wt. 205 lbs.

**6200-02**—10" Tilting Arbor Bench Saw, equipped WITH splitter mounted guard and anti-kickback pawls, rip fence, guide rails, combination blade, table extension wings, miter gauge, wrenches, motor pulley and belt. LESS stand, motor and switch. wt. 280 lbs.

**6200-03**—Same as 6200-02, except WITH stand, LESS motor and switch. wt. 280 lbs.

**6200-04**—Same as 6200-02, except WITH stand, 1-HP, 1-Phase motor, switch, cord and plug. wt. 365 lbs.

**6200-05**—Same as 6200-02, except WITH stand, 1-HP, 3-Phase motor, and switch. wt. 346 lbs.

**6200-06**—Same as 6200-02, except WITH stand,  $1\frac{1}{2}$  HP, 1-Phase motor, switch, cord and plug. wt. 375 lbs.

**6200-07**—Same as 6200-02, except WITH stand,  $1\frac{1}{2}$  HP, 3-Phase motor, and switch. wt. 360 lbs.

### OPTIONAL ACCESSORIES

**6200-10**—Steel Extension for ripping 49" to right of saw, including rails.

**6200-11**—Steel Extension for ripping 49" to right of saw, including rails (IN LIEU OF STANDARD).

**6200-12**—72" Table Rails ONLY, for ripping 49" to right of saw.

**6200-13**—Pair 8" Side Extensions (Cast Iron, LESS RAILS).

**6200-14**—Miter gauge.

**6200-15**—Combination Saw,  $\frac{5}{8}$ " Bore.

**6200-16**—Regular Cut-Off Saw, flat ground,  $\frac{5}{8}$ " Bore.

**6200-17**—Regular Rip Saw, flat ground,  $\frac{5}{8}$ " Bore.

**6200-18**—Hollow Ground Planer Blade,  $\frac{5}{8}$ " Bore.

**6200-19**—No. 3—6" x  $13\frac{1}{16}$ " Dado Head with Groovers.

**6200-20**—Dado Insert.

**6200-21**—Standard Table Insert

**6200-22**—Steel Stand. 40 lbs.

**6200-23**—Caster and Carrying Handle Set. 14 lbs.

**6200-24**—Motor Belt.

**6200-25**—Motor Pulley (SPECIFY BORE).

**6200-26**—Stop Rods for Miter Gauge.

**6200-27**—Belt Guard.

### SPECIFICATIONS

Arbor diameter	$\frac{5}{8}$ "
Blade diameter	10"
Max. depth of cut	$3\frac{3}{16}$ "
Max. depth of cut at 45°	$2\frac{1}{8}$ "
Distance, front of table to center of blade	18 $\frac{5}{8}$ "
Table in front of blade at maximum cut	13 $\frac{3}{4}$ "

Maximum cut-off on 1" cut	15 $\frac{1}{2}$ "
Max. width of dado	1"
Table height, bench model	11 $\frac{3}{16}$ "
Table height, floor model	35 $\frac{1}{8}$ "
Table size	21 $\frac{1}{2}$ " x 28"
Table size with extensions	28" x 38 $\frac{1}{4}$ "
T-Slot size	$\frac{3}{8}$ " x $\frac{3}{4}$ "

Max. Rip to Right of Blade with standard rails	25 $\frac{1}{4}$ "
Max. Rip to Left of Blade with standard rails	13 $\frac{3}{4}$ "
Max. Rip to Right of Blade with 72" rails	49 $\frac{1}{4}$ "
Max. Rip to Left of Blade with 72" rails	13 $\frac{3}{4}$ "



# Model 66—10" Tilting Arbor Saw

ALL MACHINES PERFORMANCE TESTED BEFORE SHIPMENT

**Exclusive New Power**—designed for use with motors from 1½ to 3 HP! Three A-section belts drive blade.

**Precision Miter Gauge**—with stop rods to guarantee true accuracy on even largest stock. Easily adjustable in table T-slots.

**Maximum Safety**—saw guard and splitter have anti-kick back pawls. Guard swings away easily for blade change.

**Super-Smooth Operation**—heavy-duty, sealed-for-life ball bearings throughout.

**Ruggedly Built**—heavy-gauge reinforced steel cabinet. Basic parts steel or cast iron.



T.E.F.C. Motor Standard

Optional Extensions for cutting 49" to right of blade are available. Table extension either solid grey iron or steel. Extra-length steel guide bar.

**all-new,  
all-purpose...outstanding  
performance**



**Fence Adjustment Fast And Sure** from either side with Vernier control knob and top-reading front guide bar calibrations. Upper knob locks rear of fence. Fence is precision machined of cast iron with tubular steel guide bars. Standard guide bar extensions provide 25" cut to right of blade.



Individual action of guard sides cover blade during any and all cutting operations.



Over-arm guard (optional) with 'hide-away' heavy-duty splitter provides maximum safety.



As blade tilts, overarm guard sides form stationary cage to guard blade (see special brochure).

**Extra Capacity**—10" blade cuts stock up to 3½" at 90° ranging to 2½" cut at 45° position at maximum height.

**Miter Cut Accuracy**—miter gauge adjust easily, extends beyond table for bigger stock.

**Added Safety**—blade tilts away from fence to guard against dangerous binding of material against fence.

**New Wide Spaced Trunnion** precision machined from heavy-duty grey iron castings. Maintains perfect alignment for easy hand-wheel worm-gear adjustment. Exclusive C-flange motor mount relieves weight at trunnion pivot.

**Extra Cut-off Capacity** table in front of blade is full 16" at 1" cut.





## FEATURES

**TABLE:** Standard table with extensions measures 28" x 38", accurately machined and reinforced with ribs to hold a true surface. A 4" insert plate provides ample room for removing saw blade or dado head.

**T-SLOTS:** An excellent safety and accuracy feature, the T-slots prevent miter gauge from falling when making wide cut-off.

**ARBOR:** The 3/4" arbor is mounted in large sealed ball bearings requiring no lubrication and is driven by three A-section belts for maximum power. Arbor tilts away from rip fence for safer operation. 3/4" arbor optional.

**SAW BLADE:** 10" combination saw blade tilts 45° with a 2 1/2" cut at this position. At 90° the saw cuts a full 3 1/2" for heavy-duty work.

**FENCE:** The precision machined, cast iron fence locks on front and back of two tubular guide bars assuring rigid

support. Fence is equipped with a Vernier control featuring an easy-to-read, graduated scale. Vernier adjustment is accomplished by means of a steel pinion operating in guide bar rack.

**SAW GUARD:** The rigid saw guard and splitter is fitted with anti-kickback pawls for maximum safety. Guard swings out of way when not in use.

**MOTOR MOUNT:** An EXCLUSIVE new trunnion accommodates a standard C-flange motor which mounts on the saw arm pivot shaft and does not place weight on the saw arm. This type of mounting relieves the saw arbor of motor weight, making it very easy to raise and lower saw blade.

**POWER REQUIREMENTS:** The saw is designed for motors from 1 1/2 to 3-HP in either 3 or 1-phase. For light and medium work, 1 1/2 or 2-HP is sufficient. For heavy-duty cutting, 3-HP is recommended.

## STANDARD MACHINES

**6600-01**—10" Tilting Arbor Saw, standard equipped with rip fence, miter gauge, guide rails, blade guard, splitter with anti-kickback pawls, wrenches, belts and motor pulley, less motor.

**6600-02**—Same as 6600-01, plus 1 1/2-HP, 1-phase motor, switch #1-21.

**6600-03**—Same as 6600-01, plus 1 1/2-HP, 3-phase motor, switch #3-25.

**6600-04**—Same as 6600-01, plus 2-HP, 1-phase motor, switch #1-21.

**6600-05**—Same as 6600-01, plus 2-HP, 3-phase motor, switch #3-25.

**6600-06**—Same as 6600-01, plus 3-HP, 1-phase motor, with O/L Switch #1-23.

**6600-07**—Same as 6600-01, plus 3-HP, 3-phase motor, with O/L Switch #3-27.

**6600-08**—Same as 6600-01 except less blade guard, splitter and extension wings.

## SPECIAL LISTINGS

**6600-28**—10" T. A. Saw with rip fence miter gauge, guide rails, blade guard, splitter with anti-kickback pawls, wrenches, 1 1/2-HP, 1-phase motor with O/L Switch #1-23.

**6600-29**—Same as 6600-28, except with 1 1/2-HP, 3-Phase motor and O/L Switch #3-27.

**6600-30**—Same as 6600-28, except with 1 1/2-HP, 1-phase motor and magnetic controls.

**6600-31**—Same as 6600-28, except with 1 1/2-HP, 3-phase

motor and magnetic controls.

**6600-32**—Same as 6600-28, except with 2-HP, 1-phase motor and O/L Switch #1-23.

**6600-33**—Same as 6600-28, except with 2-HP, 3-phase motor and O/L Switch #3-27.

**6600-34**—Same as 6600-28, except with 2-HP, 1-phase motor and magnetic controls.

**6600-35**—Same as 6600-28, except with 2-HP, 3-phase motor and magnetic controls.

## OPTIONAL ACCESSORIES

**6600-10**—Miter gauge, wt. 4 lbs.

**6600-11**—Combination saw, 5/8" bore, wt. 1 1/2 lb.

**6600-12**—Regular cut-off saw, flat ground, 5/8" bore.

**6600-13**—Regular rip saw, flat ground, 5/8" bore, wt. 1 1/2 lb.

**6600-14**—Hollow ground planer blade, 5/8" bore, wt. 1 1/2 lb.

**6600-15**—No. 3, 6" x 13/16" Dado head with groovers, 5/8" bore, wt. 3 lbs.

**6600-17**—Dado insert plate, wt. 2 lbs.

**6600-18**—Magnetic 3-Ph. Switch #3-30 & 1-3-32, wt. 6 lbs.

**6600-19**—Magnetic 1-Ph. Switch #1-29 & 1-3-32, wt. 6 lbs.

**6600-20**—3-phase O/L Switch #3-27, wt. 1 lb.

**6600-21**—1-phase O/L Switch #1-23, wt. 3/4 lb.

**6600-22**—Solid cast iron extension for ripping 49" to right of saw, including rails, wt. 170 lbs.

**6600-22A**—Same as 6600-22 except in lieu of standard

extension.

**6600-23**—Steel extension for ripping 49" to right of saw, including rails, wt. 62 lbs.

**6600-23A**—8" Standard Extension with rails.

**6600-23B**—Same as 6600-23 except in lieu of standard extensions.

**6600-24**—72" Table rails for ripping 49" to right of saw.

**6600-25**—Motor cover with screws.

**6600-26**—3-wire, 8' cord with attachment plug.

**6600-27**—4-wire, 8' cord with attachment plug.

**6600-36**—JIC Electricals for 1 or 3-phase, wt. 20 lbs.

**6600-37**—Motor Belts (3 required) 4L230.

**6600-38**—Moulding head, 6" dia., wt. 2 lbs.

**6600-39**—3/4" saw arbor.

**6600-40**—SCK-100 over arm safety guard.

## SPECIFICATIONS

Table with std. extensions...28" x 38"

Rip fence, box type,

precision ground...1 1/2" x 2 1/2" x 33"

Diameter of arbor...3/4"

Diameter of saw blade...10"

Blade tilt...45°

Maximum depth of cut...90°: 3 1/2",  
45°: 2 1/2"

Maximum cut with std. ex-  
tensions, to right of saw blade 25"

Maximum width cut-off in  
front of saw in 1" stock...16"

Maximum width cut-off in  
front of saw in 3/4" stock...14 1/2"

Maximum width of dado cut...1"

Motor power recommended

1 1/2 to 3-HP, 3450 RPM

Recommended speed of

saw blade...4000 RPM

Table height...34"

Weight, net less motor...350 lbs.

Weight, net with motor...450 lbs.

Weight, domestic crated  
less motor...450 lbs.

Weight, domestic crated  
with motor...500 lbs.

Export boxed, less motor  
(32.2 cu. ft.)...555 lbs.

Export boxed, with motor  
(32.2 cu. ft.)...600 lbs.

NOTE: See Pages 27 and 31 for moulding cutters.



# Model 72-12" Tilting Arbor Saw

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

**Accuracy-engineered for every production or shop job**

**Extra Power**—available with 3-HP, 1-phase or 5-HP, 3-phase motor. Four A-Section belts drive blade.

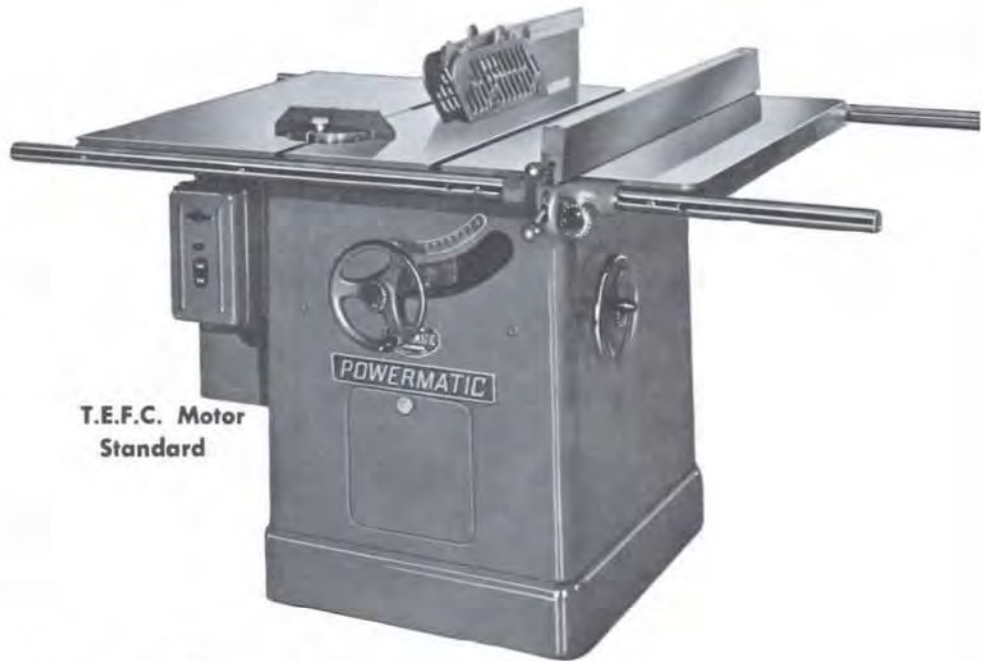
**Precision Miter Cuts**—gauge has stop rods to assure perfect mitering of even largest stock. Gauge glides smoothly in T-slots.

**Maximum Safety**—saw guard and splitter have anti-kickback pawls. Guard swings away for easy blade access.

**Smooth Operation**—Large 1" tilting arbor mounted in heavy-duty, sealed-for-life ball-bearings adjusts easily in extra large trunnion.

**Hefty Construction**—All parts finest grey iron castings. Rugged, heavy-gauge reinforced steel cabinet.

**Fast-Adjusting Fence**—has Vernier control setting with easy-to-read calibrations on front guide bar. Easily set and locked from either side.



T.E.F.C. Motor  
Standard

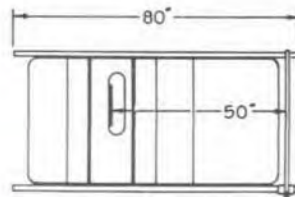


Table with 20" extension section and 80" rails for cutting 49" to right of saw blade. (OPTIONAL).



Fence Adjustment Fast and Sure from either side with Vernier control knob and top-reading front guide bar calibrations.



Extra Capacity 12" blade cuts stock up to 4 1/8" at 90° ranging to 27 1/8" cut at 45° position at maximum height.



Miter Cut Accuracy—miter gauge adjust easily, extends beyond table for bigger stock.



Extra Cut-Off Capacity table in front of blade is full 17" at 1" cut.



Added Safety—blade tilts away from fence to guard against dangerous binding of material against fence.



Hide-away Guard completely covers blade on all cuts, from narrow to full capacity.



Individual Action of each guard side covers blade through entire tilt range. Saw blade is never exposed to operator.



## super-power, heavy-duty... speeds production

### FEATURES

**TABLE:** Massive 38" x 48" area, with standard extension, accurately machined and reinforced with ribs to hold a true surface. Made from the finest grey iron castings.

**T-SLOTS:** Excellent safety feature. Prevent miter gauge from falling when making a wide cut-off. Slots on either side of saw blade.

**SAW BLADE:** 12" blade tilts a full 45° and features a 2 7/8" cut at this position. At 90°, the saw cuts a full 4 1/8" for extra heavy-duty work.

**ARBOR:** 1" arbor is mounted in large sealed ball bearings, requiring no lubrication, and is driven by four A-section belts for a maximum power. The arbor tilts, leaving table level for more accurate work. Saws tilts away from fence

for safer operation.

**FENCE:** Heavy cast iron fence locks on front and back. Vernier control, with easy-to-read micrometer scale for fine adjustment at any position on the table. Adjustment is made with a steel rack and pinion, which give trouble-free performance for the life of the machine.

**SAW GUARD:** Massive saw guard and splitter are fitted with anti-kickback pawls for maximum safety. Sides of guard swing independent of each other such that on uneven work, the saw blade is well guarded. The guard swings out of the way when not in use.

**TRUNNIONS:** The tilting arbor operates on extra large, wide spaced, trunnions assuring maximum rigidity.

### STANDARD EQUIPMENT

**12" SAW WITH MOTOR:** Rip fence, miter gauge, guide rails, blade guard, splitter with anti-kickback pawls, saw blade, 4 belts, Arbor and motor pulleys, and wrenches—With motor, switch and wiring.

### STANDARD MACHINES

**7200-01**—12" Tilting Arbor Saw, standard equipped with rip fence, miter gauge, guards, splitter with anti-kickbacks, wrenches, 3-HP, 1-phase motor and O/L Switch #1-23.

**7200-02**—Same as 7200-01, except with 5-HP, 3-phase motor, switch #3-30 and #1-3-32.

**7200-03**—Same as 7200-01, except with 7 1/2-HP, 3-phase motor, switches #3-30 and #1-3-32.

### OPTIONAL ACCESSORIES

**7200-11**—Miter Gauge, wt. 4 lbs.

**7200-12**—No. 62 Combination saw, 1" bore, wt. 1 3/4 lbs.

**7200-13**—Regular cut-off saw, flat ground, wt. 1 3/4 lbs.

**7200-14**—Regular Rip saw, flat ground, wt. 1 3/4 lbs.

**7200-15**—No. 2—6" Dia. Dado head with groovers, wt. 6 lbs.

**7200-16**—No. 3—8" Dia. Dado head with groovers, wt. 6 lbs.

**7200-17**—Dado insert plate, wt. 1 lb.

**7200-18**—Magnetic 3-phase Switch #3-30 and 1-3-32, wt. 6 lbs.

**7200-19**—Magnetic 1-phase Switch #1-29 and 1-3-32, wt. 6 lbs.

**7200-23**—Cast iron extensions for ripping 49" to right of saw, wt. 340 lbs.

**7200-23A**—Same as 7200-23 except in lieu of standard extensions.

**7200-26**—1-phase O/L Switch #1-23, wt. 3/4 lb.

**7200-27**—3-phase O/L Switch #3-27, wt. 1 lb.

**7200-28**—Hollow ground planer blade, wt. 1 3/4 lbs.

**7200-29**—3-wire, 8' cord with twist lock attachment plug.

**7200-30**—4-wire, 8' cord with twist lock attachment plug.

**7200-31**—JIC Electricals for 1- or 3-phase, wt. 20 lbs.

**7200-32**—Motor belts—4L-200 (4 required).

**7200-33**—Motor cover.

### SPECIFICATIONS

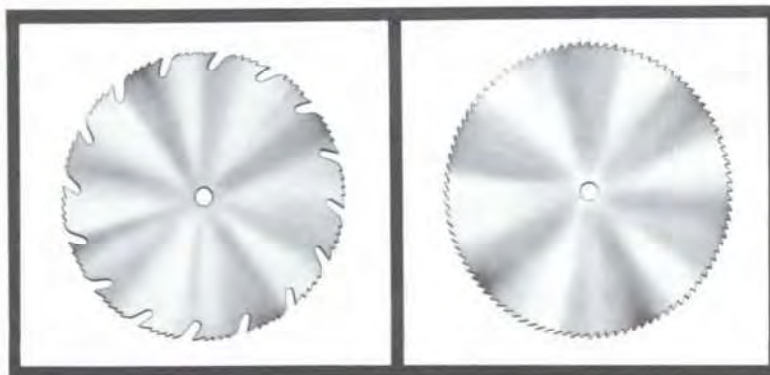
Table with std. extensions 38" x 48"  
Rip fence, box type,  
precision ground 2" x 3 3/8" x 43"  
Diameter of arbor 1"  
Diameter of saw blade 12"  
Blade tilt 45°  
Maximum depth of cut 90°: 4 1/8",  
45°: 2 7/8"  
Maximum rip with std. extensions, to right of saw blade 30"

Maximum rip with std. extensions, to left of saw blade 24"  
Maximum width cut-off in front of saw blade in 1" stock 21"  
Maximum width cut-off in front of saw blade in 4 1/8" stock 17"  
Maximum width of dado cut 1"  
Motor power recommended  
3-HP, 1-Ph.  
5-HP, 3-Ph.  
7 1/2-HP, 3-Ph.

Recommended speed of saw 3600 RPM  
Table Height 35"  
Cabinet Size 26" x 30"  
Weight, Net with motor 792 lbs.  
Weight, Domestic crated w/motor 895 lbs.  
Weight, Export boxed w/motor (60.7 cu. ft.) 1025 lbs.  
25



# Tilting Arbor Saw Blades and Accessories

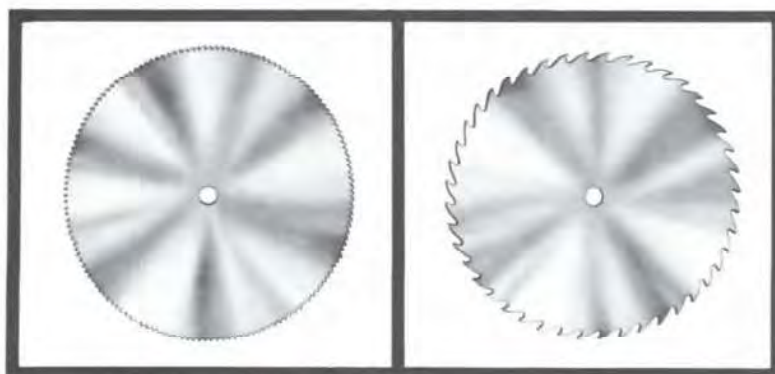


## HOLLOW GROUND PLANER BLADE

#6500-14 for #65 Saw  
#7200-28 for #72 Saw

## 100 TOOTH CUT-OFF

#6500-12 for #65 Saw  
#7200-13 for #72 Saw

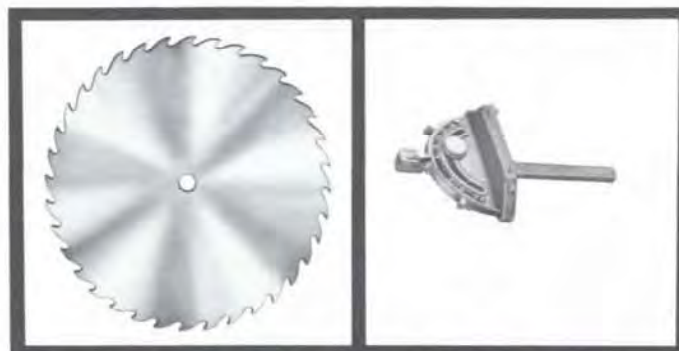


## 150 TOOTH CUT-OFF

#6500-12A for #65 Saw

## #60 COMBINATION BLADE

#6500-11 for #65 Saw  
#7200-12 for #72 Saw



## RIPSAW BLADE

#6500-13 for #65 Saw  
#7200-14 for #72 Saw

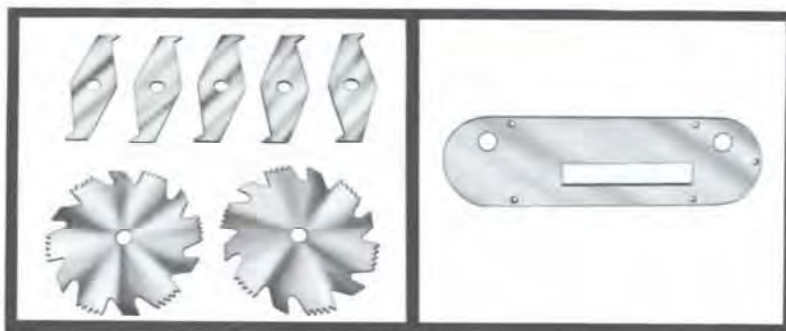
## MITER GAUGE

Precision cast aluminum miter gauge for hairline accuracy.

#6500-10 for #65 Saw  
#7200-11 for #72 Saw

## DADO HEAD SET

#3 Production type Dado Sets.  
Will cut grooves from  $\frac{1}{4}$ " to  $\frac{13}{16}$ ".  
#6500-15 ..... 6" Dia.  
#7200-15 ..... 6" Dia.  
#7200-16 ..... 8" Dia.



## DADO INSERT PLATE

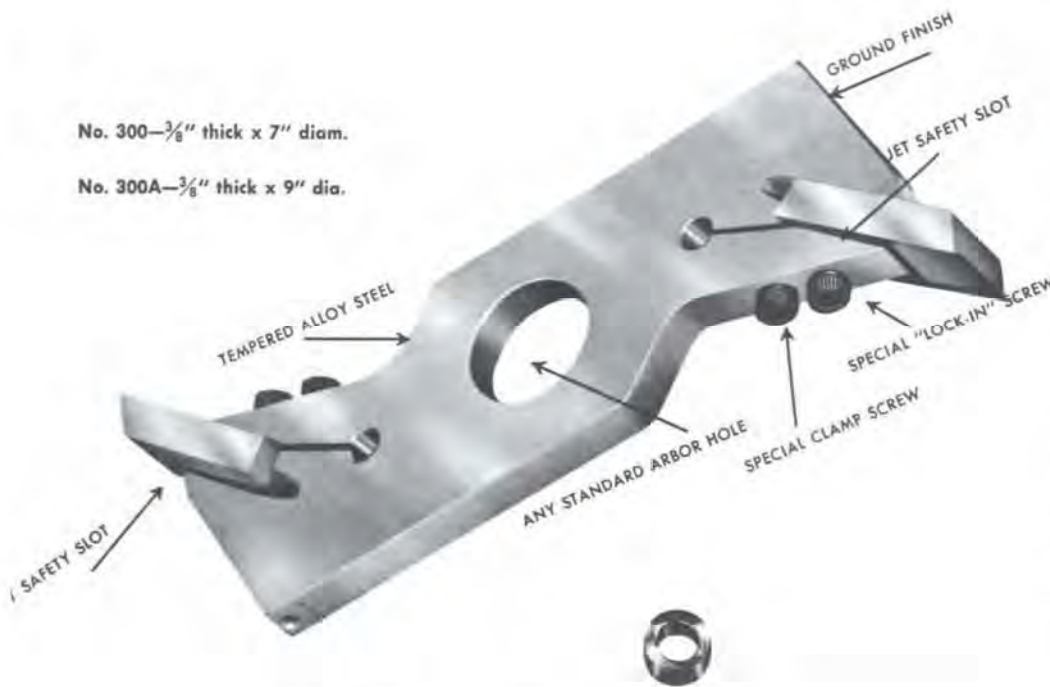
For use with DADO HEADS  
#6500-17 for #65 Saw  
#7200-17 for #72 Saw



# Fitting Arbor Saw Dado and Shaping Accessories

No. 300— $\frac{3}{8}$ " thick x 7" diam.

No. 300A— $\frac{3}{8}$ " thick x 9" dia.



**Spacing Washers**  
in  $\frac{1}{8}$ ",  $\frac{1}{4}$ " and  $\frac{3}{8}$ " thicknesses,  
and recessed to insure both  
sides being parallel for ac-  
curate "inline" cutting.

**Machined Bushings**  
with standard O.D.'s and I.D.'s  
are available for use in Power-  
matic Heads to adapt them to  
standard size arbors.

You can now do all your DADO-  
ING AND SHAPING with this one  
versatile precision tool on your  
present table saw. Just this one  
inexpensive accessory quickly con-  
verts your saw for shaping, fluting,  
beading, coving, jointing, door  
lipping, etc., and dadoing. Add  
additional cutters as needed to  
make an almost unlimited variety  
of shapes.

- Made of special tempered alloy steel, that will withstand severe impact and tortional strain. . . .
- Cadmium plated for rust proofing.
- Dynamically balanced to elimi-  
nate vibration. ● Two cutter de-  
sign allows maximum chip clear-  
ance. ● Safety is assured under  
all operating conditions because of  
the "Lock-In" design of Head and  
Cutters—cutters cannot come out.



See Page 31 for knives for use with No. 300 and No. 300A Heads . . .

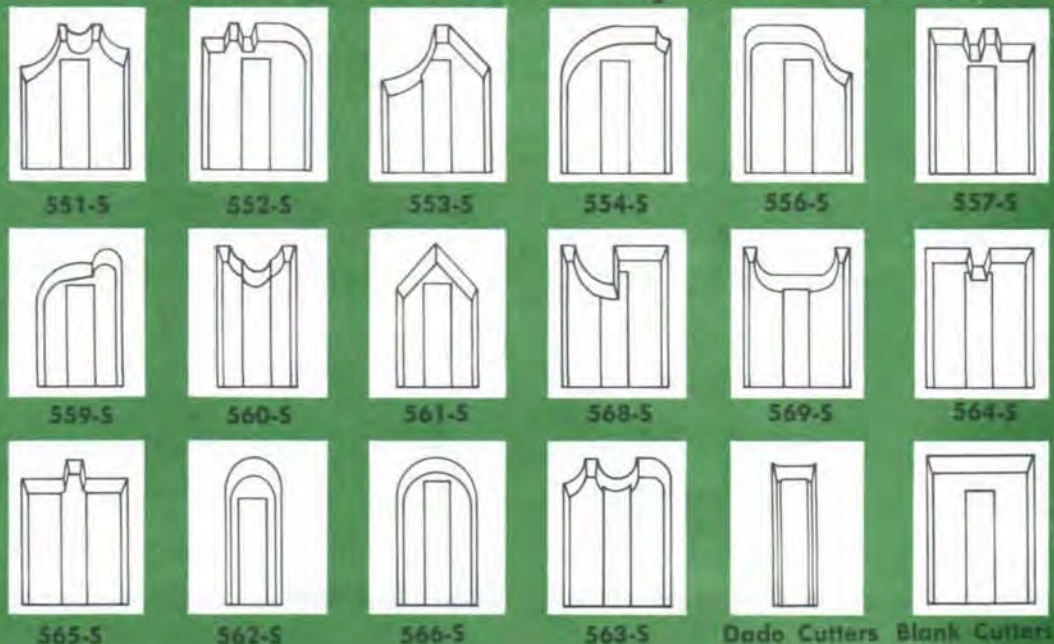
**Here's the Time-Tested Junior Head.**  
Now conveniently-packed with ten  
pairs of the most wanted, most  
useful shaping and dado cutters.  
Here's the quality, safety, and econ-  
omy you have come to know and  
respect . . . PLUS . . . the attractive,  
functional convenience of a sep-  
arately-compartmented, long-life  
storage case.

## ORDERING INFORMATION

- 514  $\frac{1}{4}$ " Straight Dado Cutters
- 538  $\frac{3}{8}$ " Straight Dado Cutters
- 512  $\frac{1}{2}$ " Straight Dado Cutters
- 534  $\frac{3}{4}$ " Straight Dado Cutters
- 51316  $\frac{13}{16}$ " Straight Dado Cutters
- 551-S  $\frac{1}{4}$ " Radius Bead,  $\frac{1}{8}$ " Radius  
Half Round,  $\frac{3}{8}$ " Radius Bead
- 552-S Glue Joint and  $\frac{1}{4}$ " Radius Cove
- 553-S  $\frac{1}{2}$ " Radius Bead, 45° Flute
- 554-S  $\frac{1}{8}$ " Radius Bead,  $\frac{1}{2}$ " Radius  
Cove
- 556-S  $\frac{1}{4}$ " Radius "OG",  $\frac{1}{8}$ " Radius  
Cove
- 557-S Glue Joint
- 559-S  $\frac{1}{8}$ " Radius Flute,  $\frac{3}{8}$ " Radius  
Cove
- 560-S  $\frac{1}{8}$ " Radius Clover Leaf
- 561-S 45° Flute
- 562-S  $\frac{1}{4}$ " Radius Flute
- 563-S  $\frac{3}{8}$ " Radius Half Round,  $\frac{3}{8}$ "  
Radius Bead,  $\frac{3}{8}$ " Radius Cove
- 564-S  $\frac{7}{8}$ " Tongue Cutters
- 565-S  $\frac{7}{8}$ " Groove Cutters
- 566-S  $\frac{3}{8}$ " Radius Flute
- 567-S  $\frac{3}{8}$ " Radius Flute
- 568-S Door Lip Cutters
- 569-S  $\frac{3}{4}$ " Screen Mould
- 5012  $\frac{1}{2}$ " Blank Cutters
- 5034  $\frac{3}{4}$ " Blank Cutters
- 5101 1" Blank Cutters

**No. 500 Combination Dado & Moulding Head,**  
 $\frac{5}{8}$ " Arbor; spacer washer;  $\frac{1}{4}$ " thick,  
 $\frac{5}{8}$ " bore, and bushing;  $\frac{5}{8}$ " O.D.,  $\frac{1}{2}$ "  
I.D., complete.

## Cutters for No. 500 Safety Cutter Head





# Model 26 Spindle Shaper

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

Designed to produce high quality work for furniture, cabinet, reproduction and sash and door plants, the Model 25 Spindle Shaper is a rugged, dependable, multi-purpose tool constructed to accommodate five interchangeable spindles and a variety of solid spindles for extra heavy duty work. The shaper spindle features a 3" vertical adjustment controlled by a convenient front mounted hand wheel. A large 28" x 29 1/2" precision ground, cast iron table is mounted on an enclosed steel stand.



## Spindle Removal

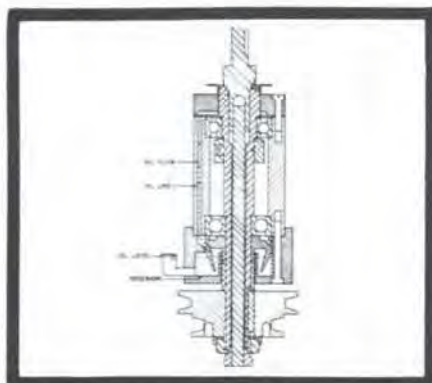
Solid spindles are quickly removed and interchanged by loosening one locking bolt and sliding complete assembly from housing, reducing "set up" time to an absolute minimum.



T.E.F.C. Motor Standard

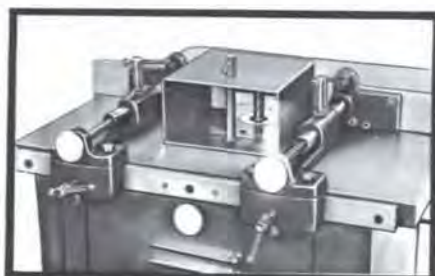
## Another Powermatic Exclusive

During operation, Quill Bearings are constantly bathed in a cooling mist of oil, increasing bearing life up to 90%.



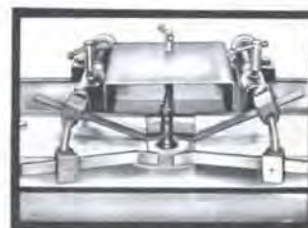
## Precision Fence

Fully adjustable or removal for any and all shaping operations, this precision machined fence assembly guarantees rigidity, accuracy and ease of adjustment.



## Holddown Guides

Spring steel work hold-down guides eliminate hazardous free-hand feeding of stock and assure smooth, accurate moulding. Part No. 250-12.



## Starting Pin

A standard accessory, starting pins facilitate easy initial cuts on free-hand shaping.

Part No. 250-30.



## Table Inserts

250-18—seven inch diameter insert.

250-19—four and one-quarter inch diameter insert.

250-20—three inch diameter insert.





# Performance Proven... Utmost Flexibility, Precision and Simplified Operation

## FEATURES

**TABLE:** 28" x 29½" (including 1 extension wing) is made from fine grey-iron castings, reinforced for maximum rigidity. Table has 7" diameter spindle throat with 4¼", 3" and 1¾" inserts. This makes it possible to use any kind of head or cutter and also to do bottom cutting for safer and more uniform work.

**BASE:** Table is supported by an extremely heavy gauge steel cabinet with clean-out door.

**FENCE:** The cast iron fence is precision machined and faced with hard wood blocks. Fence may be easily adjusted to any position on table by locking handles, or completely removed for free-hand shaping. The fences are mounted

on a box-type center support that acts as a shavings exhaust chute.

**SPINDLE:** Mounted in heavy duty precision ball bearings lubricated by a constant flow of cooling oil. Spindles available include interchangeable 5/16", ½", ¾" standard, ¾" and 1" solid, and 1" extra long solid.

**SPINDLE SPEEDS:** The spindle is driven by a two-step "V" pulley, adjustable for spindle speeds of 7000 and 10,000 RPM, the correct speeds for both small and large cutters.

## STANDARD EQUIPMENT

**MODEL 25 SHAPER LESS MOTOR:** Fence, dust chute, ½" and ¾" interchangeable spindles, exclusive oil bath bearing and Quill assembly, 3 table inserts, wrenches, motor cover, Arbor pulley, motor pulley and belt—Less motor and switch.

**MODEL 25 SHAPER WITH MOTOR:** Fence, dust chute, ½" and ¾" interchangeable spindles, exclusive oil bath bearing and quill assembly, 3 table inserts, wrenches, motor cover, arbor pulley, motor pulley, belt, motor, switch and wiring.

## STANDARD MACHINES

**250-01**—Model 25 Wood Shaper, with 28" x 29½" table with fence, ½" and ¾" interchangeable spindles, table inserts, wrenches and motor pulleys, less motor.

**250-02**—Same as 250-01, except with 1-HP, 1-phase motor and switch #1-21.

**250-03**—Same as 250-01, except with 1½-HP, 1-phase motor, and switch #1-21.

**250-04**—Same as 250-01, except with 2-HP, 1-phase motor and switch #1-21.

**250-05**—Same as 250-01, except with 1-HP, 3-phase motor and switch #3-25.

**250-06**—Same as 250-01, except with 1½-HP, 3-phase motor and switch #3-25.

**250-07**—Same as 250-01, except with 2-HP, 3-phase motor and switch #3-25.

## OPTIONAL ACCESSORIES

**250-10**—Table extension 8" x 28" for use w/o fences, wt. 28 lbs.

**250-11**—Miter Gauge, wt. 4 lbs.

**250-12**—Work hold-down guides, wt. 5 lbs.

**250-13**—Quill assembly with ¾" solid spindle, wt. 8 lbs.

**250-14**—Quill assembly with 1" solid spindle, wt. 12 lbs.

**250-15**—¾" interchangeable spindle, wt. 1 lb.

**250-16**—½" interchangeable spindle, wt. 8 oz.

**250-17**—5/16" interchangeable spindle, wt. 1 lb.

**250-18**—7" diameter insert, wt. 4 oz.

**250-19**—4¼" diameter insert, wt. 4 oz.

**250-20**—3" diameter insert, wt. 3 oz.

**250-25**—Reversing switch, wt. 1 lb.

**250-26**—Magnetic 1-phase Switch #1-29 & 1-3-32, wt. 6 lbs.

**250-27**—Magnetic 3-phase Switch #3-30 & 1-3-32, wt. 6 lbs.

**250-28**—1-phase Overload Switch #1-23, wt. ¾ lb.

**250-29**—3-phase Overload Switch #3-27, wt. 1 lb.

**250-30**—Starting Pins

**250-31**—Safety Ring Guard

**250-32**—1" Solid Spindle Assembly. 4¼" under nut.

## SPECIFICATIONS

Table size 28" x 29½"  
Table extensions 8" Each  
Table height 34"  
Spindle opening diameters 7", 4¼", 3" and 1¾"  
Spindle dia. furnished as standard equipment ½" and ¾"  
Interchangeable  
Other spindles available 5/16"  
Interchangeable, ¾" and 1" extra long solid type.

Spindle capacity, ¾" and 1" (under nut) 3¼"  
½" (under nut) 2½"  
5/16" (under nut) 1½"  
Spindle travel 3"  
Spindle speeds (RPM) 7000 & 10,000  
Largest table opening 7"  
Fence size (each side) 3¼" x 12¾"  
Weight, net, less motor 330 lbs.  
Weight, domestic crated,

less motor 370 lbs.  
Weight, domestic crated, with 1 or 1½-HP motor 410 lbs.  
Weight, domestic crated, with 2-HP motor 450 lbs.  
Weight, export boxed, less motor (32.2 cu. ft.) 485 lbs.  
Weight, export boxed, with motor (32.2 cu. ft.) 550 lbs.



# Spindle Shaper Cutters and Depth Collars

Powermatic Shaper Cutters are select, high-quality, tool-steel, heat treated and carefully ground to retain their sharp cutting edges under long continuous service. Resharpening is easily done by grinding across face of cutting edges.



KL-21



KL-22



KL-23



KL-24



KL-25



KL-26



KL-27



KL-28



KL-29



KL-30



KL-31



KL-40



KL-41



KL-42



KL-43



KL-44



KL-45

Cat. No.	Description
KL-20	Shaping Cutter (Set 11 Pcs.)
KL-21	1/4" Tongue Cutter
KL-22	1/4" Groove Cutter
KL-23	Glue Joint Cutter
KL-24	Screen Mould Cutter
KL-25	Moulding Cutter

Cat. No.	Description
KL-26	Beading Cutter
KL-27	Table Edge Cutter
KL-28	Moulding Cutter
KL-29	1" Straight Face Cutter
KL-30	1/2" Straight Face Cutter
KL-31	1/4" Straight Face Cutter

Cat. No.	Description
KL-40	Door Lip
KL-41	Moulding
KL-42	Moulding
KL-43	Radius Edging
KL-44	Moulding
KL-45	Sash and Door

Cat. No.	Description
Set	1/2" Hole, 1/4" wide
WS-31	7/8"-1 1/16"-1 1/8"-1 1/4" and 1 1/4" O.D.



Depth Collars



## Safety Shaper Collars

Made of selected alloy steel, accurately machined, ground and concentrically balanced. Exclusive features incorporated at no extra cost include "Edge-Pin" locking of cutters for safety; independent micro adjustment of cutters; cap screws to maintain set-up; 60° bevel to make possible the use of ordinary shaper steel; and cadmium plating. No. S-25 2¼" dia. No. S-30, 3" dia.



### Lock-In Shaped Cutters

are available in many standard patterns as illustrated on the following pages. They are case hardened to Rockwell from 60 to 63 "C" but have tough cores with great resistance to torsional strain impact shock. The inherent safety of Powermatic Cutters cannot be over emphasized!

### Lock-In Dado Cutters

with patented chipbreaker spurs are perhaps the fastest, cleanest cutting knives available. Expert heat treating, precision grinding and ample chip clearance insures perfect cutting. Available in 22 sizes from ⅜" to 2".



### Lock-In Blank Cutters

are available in widths from ⅜" to 2" for those who prefer to grind their own special patterns. These blanks are made of the same fine heat treated steel and can be locked in either moulding heads or Safety Shaper Collars.



## Spindle Shaper Cutters and Depth Collars

### ORDERING INFORMATION

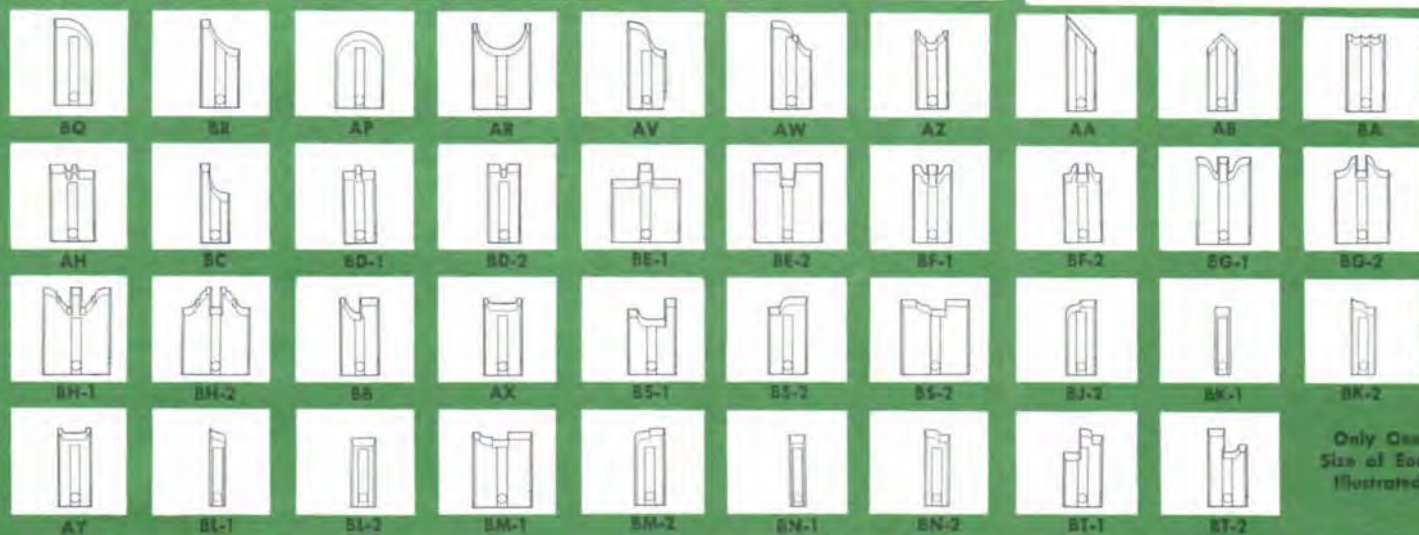
Please Order By Catalog Number and Width

#### Dado Cutters With Chipbreakers

Cat. No.	Size	Cat. No.	Size
3316	⅜"	31316	1⅜"
314	¼"	378	⅜"
3932	⅝"	31516	1⅝"
3516	⅝"	31	1"
338	⅜"	3118	1⅜"
3716	⅜"	3114	1¼"
312	½"	3138	1⅜"
3916	⅝"	3112	1½"
358	⅝"	3158	1⅝"
31116	1⅜"	3134	1¾"
334	¾"	32	2"

#### Underground Blank Cutters

Cat. No.	Size	Cat. No.	Size
238	⅜"	2118	1⅜"
212	½"	2114	1¼"
258	⅝"	2138	1⅝"
234	¾"	2112	1½"
21316	1⅜"	2134	1¾"
278	⅝"	22	2"
21	1"		



Only One Size of Each Illustrated

### STANDARD SHAPED CUTTERS

AA	45° Flute	AS	1½" Radius Half Round	BH-1 & 2	1⅜" to 1¾" Door
AB	90° Flute	AT	¾" Radius Half Round	BJ-1 & 2	Matched "OG" Sash Set
AC	1½" Radius Bead	AU	¾" Radius Half Round	*BK-1 & 2	Matched "OG" Cope & Tenon (Lower Sash Check Rail)
AD	¾" Radius Bead	AV	¾" Radius Ogee	*BL-1 & 2	Matched "OG" Cope & Tenon (Upper Sash Check Rail)
AE	¾" Radius Bead	AW	¾" Radius Cove & Bead	BM-1 & 2	Matched "OVOLO" Sash Set
AF	¾" Radius Round Nose	AX	¾" Screen Mould	*BN-1 & 2	Matched "OVOLO" Cope & Tenon (Lower Sash Check Rail)
AG	¾" Radius Round Nose	AY	¾" Screen Mould	*BO-1 & 2	Matched "OVOLO" Cope & Tenon (Upper Sash Check Rail)
AH	Glue Joint	AZ	Cloverleaf	BP	5/16" Radius Half Round
AJ	5/8" Radius Cove	BA	Reed Mould	BQ	¾" Radius Cove
AK	1½" Radius Cove	BB	Door Lip	BR	¾" Radius Bead
AL	¾" Radius Cove	BC	Base Shoe	BS-1 & 2	Matched Screen Door Set
AM	5/16" Radius Round Nose	BD-1 & 2	¾" Tongue & Groove	BT-1 & 2	Matched Window Screen Set
AN	5/8" Radius Bead	BE-1 & 2	1¾" Tongue & Groove	BU-1 & 2	Paneling (Not shown)
AO	¾" Radius Cove	BF-1 & 2	¾" to 1" CC Door		
AP	¾" Radius Round Nose	BV-1 & 2	Drop Leaf Table (not shown)		
AQ	1½" Radius Round Nose	BG-1 & 2	¾" to 1⅜" CC Door		
AR	5/8" Radius Half Round				

\* Use in Combination Dado and Molding Heads Only

www.OzarkToolManuals.com If Opposite Hand Is Wanted, Specify by Adding "L.H." to Catalog Number.



## Model 45 12" Lathe

ALL MACHINES PERFORMANCE TESTED BEFORE SHIPMENT

### **new, medium-weight variable or four-speed model**

From cabinet and school shops to industrial high production, the Powermatic 45 is acclaimed superior in its field! The big one-piece cast iron bed and rugged reinforced steel cabinet base assure vibration-free performance on every job.

For wood turning, metal spinning\*, or both . . . large or small job precision performance is simple in record time, with maximum safety for the experienced operator or the novice.

**\*NOTE**—To use as metal spinning lathe, the following accessories are required: 4500-16, 4500-15, and 4500-39.



**T.E.F.C. Motor Standard**

**Instant-Set Speed Control** is easy to read without stooping or bending. Large calibrations for fast, accurate setting.



**Motor Fully Protected** against damage from dust and chips in enclosed base. Easy access through door in cabinet base.



**Choice of Straight or Gap Bed.** Handles up to 12" stock over straight bed. #45 handles 16" stock over gap.



**Constant, Smooth Cutting Precision** assured through non-slip drive mechanism. Cutting tool bites freely and evenly with minimum effort.





# *rugged stability guarantees perfect cutting control*

**Model 45  
12" Lathe**

## FEATURES

**CAPACITY:** Swing 12" over straight lathe bed; 16" over gap bed. 39" between centers.

**BED:** One-piece construction of finest grey iron casting, rib-reinforced for permanent perfect alignment and maximum rigidity. Standard bed length 59".

**HEAD STOCK:** Available with built-in variable speed drive from 350 to 2800 RPM or with four-speed drive of 915, 1380, 2150 and 3260 RPM. Drive pulley spindle mounted between extra large sealed-for-life ball bearings for smoother operation at any speed.

**SPINDLE:** 60-stop type with steel plunger-type index wheel. Machined from special carbon steel and precision ground for perfect running alignment and balance. Arc threaded 1". Nose is bored for No. 2 Morse Taper. Locking pin holds spindle rigid for easy face plate removal.

**TAIL STOCK:** 1" tail stock spindle is bored for a No. 2

Morse Taper. The center may be easily removed by using the large hand-wheel to back out the tail stock screw.

**MOTOR DRIVE:** Motor is mounted in lathe cabinet with wide V-belt and two variable sheaves (in variable speed model) or multiple mounted inverse pulleys (in four-speed model). Drive fully accessible through snap-up drive guard on top of lathe head.

**LATHE BASE:** Ruggedly built of heavy-gauge, reinforced steel. Designed for complete vibration-free operation whether machine is anchored or not. Large hinged door for quick access to motor and tool storage area in base. Full length chip deflector apron.

**MOTOR SWITCH:** Toggle type mounted away from exposed operational area to prevent accidental engagement. Special switch available for starting at slow speed only. (See accessories, P. 27)

## STANDARD EQUIPMENT

**45-4 SPEED LATHE LESS MOTOR:** 16" Tool rest, 1 12" tool rest, 1 cup center, 1 spur center, 1 faceplate wrench, 1 6" faceplate, 1 center drift rod, index wheel, blueprint holder, tool support base, tailstock wrench, motor base, V-belt and motor pulley—Less motor, switch and wiring.

**45 LATHE WITH MOTOR** (variable or 4-speed): 16" Tool rest, 1 12" tool rest, 1 cup center, 1 spur center, 1 faceplate wrench, 1 6" faceplate, 1 center drift rod, index wheel, blueprint holder, tool support base, tailstock wrench, motor base, V-belt and motor pulley—motor, switch and wiring.

## STANDARD MACHINES

**4500-01**—#45 Four Speed (Gap Bed) Lathe with standard equipment.

**4500-02**—#45 Four Speed (Gap Bed) Lathe with standard equipment and ½-HP, 1-phase motor, switch #1-21, cord and plug.

**4500-03**—Same as 4500-02 except with ½-HP, 3-phase motor and switch #3-25.

**4500-04**—#45 Four Speed (Straight Bed) Lathe with standard equipment.

**4500-05**—#45 Four Speed (Straight Bed) Lathe with standard equipment, ½-HP, 1-phase motor and switch #1-21, cord and plug.

**4500-06**—Same as 4500-05 except with ½-HP, 3-phase motor and switch #3-25.

**4500-07**—#45 Variable Speed (Gap Bed) Lathe with standard equipment and ¾-HP, 1-phase motor and switch #1-21.

**4500-08**—Same as 4500-07 except with ¾-HP, 3-phase motor and switch #3-25.

**4500-09**—#45 Variable Speed (Straight Bed) Lathe with standard equipment and ¾-HP, 1-phase motor and switch #1-21.

**4500-10**—Same as 4500-09 except with ¾-HP, 3-phase motor and switch #3-25.

## SPECIAL LISTINGS

**4500-35**—Four Speed (specify gap or straight bed) with standard equipment, ½-HP, 1-phase motor with O/L switch #1-23 cord and plug.

**4500-36**—Four Speed (specify gap or straight bed) with standard equipment, ½-HP, 1-phase motor and switch and magnetic controls #1-29 and #1-3-32.

**4500-37**—Variable Speed (specify gap or straight bed) with standard equipment, ¾-HP, 3-phase motor with O/L Switch #3-27.

**4500-38**—Variable Speed (Specify gap or straight bed) with standard equipment, ¾-HP, 3-phase motor and magnetic controls #3-30 and #1-3-32.

## OPTIONAL ACCESSORIES (see page 36)

## SPECIFICATIONS

Overall Length.....63"  
Distance between centers.....39"  
Swing over bed.....12"  
Swing over gap.....16"  
Width of gap.....4½"  
Variable Speed range.....350 to  
2800 RPM

Step pulley, four speed  
drive.....915-1380-2150-3260 RPM  
Motor recommended, variable  
speed model.....¾-HP  
Motor recommended, four  
speed drive.....½-HP  
Height of bed from floor.....36"

Spindle, inboard and outboard  
1" #2 Morse Taper—8 Thread  
Weight, net with stand  
and motor.....350 lbs.  
Weight, domestic crated with  
stand and motor.....439 lbs.  
Export boxed, with stand  
and motor (49.4 cu. ft.).....540 lbs.



# Model 90 12" Lathe

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

## heavy-duty, variable speed 500 to 4000 RPM

The tougher and bigger the job . . . the harder this giant works to give you the ultimate in precision performance. Exacting engineering to meet every shop and production requirement, the Model 90 is the most flexible 12" lathe available in its price range. Designed for wood turning, metal spinning or a combination of each, it is massively built to give years of dependable, accurate service even under the most extreme operating conditions.



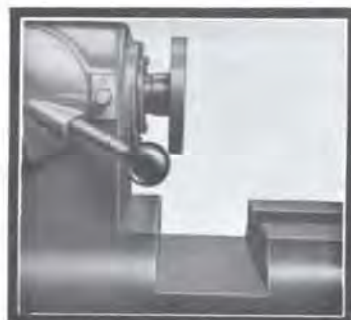
T.E.F.C. MOTOR STANDARD

**Vibration-Free Headstock** runs in sealed-for-life ball bearings. Spindle "whip" is virtually eliminated. Drive pulley is mounted outside headstock housing for easy access.



**A MODEL 90 BONUS FEATURE . . . AT NO EXTRA COST!** Exclusive, Safe-Stop Speed Limiter—Prevents novice operator from exceeding pre-set safe speed range. 5 limit "stops" . . . easy supervisory control with Allen wrench setting.

**Choice of Straight or Gap Bed.** Handle stock up to 12" over straight bed, 17" over gap. Gap is ideally suited for Bowl turning and metal spinning.



## STANDARD EQUIPMENT WITH 90-12" LATHE WOOD TURNING

- 1—6" tool rest
- 1—12" tool rest
- 1—cup center
- 1—spur center
- 1—3" faceplate
- 1—6" faceplate
- 1—combination faceplate and handwheel
- 1—faceplate wrench
- 1—blueprint holder
- 1—center drift rod
- 1—tool support base
- 1—tailstock wrench
- 1—safe stop speed limiter
- 1—motor
- 1—motor pulley
- 1—switch
- 1—set Allen wrenches

## METAL SPINNING

- 1—metal spinning tool rest
- 1—6" faceplate
- 1—8" combination faceplate handwheel
- 1—faceplate wrench
- 1—ball bearing tailstock center with plug and cup center
- 1—center drift rod
- 1—blueprint holder
- 1—set metal spinning tools (6)
- 1—safe stop speed limiter
- 1—tool support base
- 1—tailstock wrench
- 1—motor
- 1—motor pulley switch
- 1—set Allen wrenches

## COMBINATION

All wood and metal standard equipment.



# ***rugged stability guarantees perfect cutting control***

## **FEATURES**

**CAPACITY:** Swing 12" over straight bed; 17" over gap bed. Standard bed affords full 38" between centers.

**BED:** One-piece construction from finest grey iron casting, rib-reinforced for perfect alignment and maximum rigidity. Standard length: 60". Also optionally available in longer or shorter lengths on special order. See P. 27.

**HEAD STOCK:** Has built-in variable speed drive from 500 to 4000 RPM. Variable speed drive pulley spindle-mounted between extra large sealed-for-life ball bearings for perfectly smooth operation at any speed.

**SPINDLE:** Machined from special carbon steel and precision ground for perfect running alignment and balance. Spindle nose is threaded 1½" and bored for No. 2 Morse Taper. Outboard end is threaded 1½" for outboard face plate.

Locking pin holds spindle rigid for easy face plate removal. Spindle cannot be accidentally locked while ma-

chine is in operation . . . speed range control and switch must be in "Off" position.

**TAIL STOCK:** The 1½" tail stock spindle is bored for No. 2 Morse Taper. Center may be easily removed by using the large hand-wheel to back out the tail stock screw.

**MOTOR DRIVE:** Motor is mounted in lathe bed with a wide V-belt driving the two variable sheaves.

Outboard drive makes V-belt removal simple without dismantling any part. Drive and motor are fully accessible through drive guard.

**LATHE BASE:** Wide-stance pedestal base with streamlined design. No sharp corners. Constructed from extra-heavy gauge reinforced steel for perfectly rigid operation in permanent or temporary installation.

**MOTOR SWITCH:** Activated only by variable speed control switch. Lathe can be started only at slow speed.

## **STANDARD MACHINES**

**900-01**—Wood turning lathe (specify whether Gap or Straight Bed), complete with 1-HP 3-phase motor, manual switch with overload protection and all standard equipment.

**900-02**—Same as 900-01, except with 1-HP 1-phase motor.

**900-03**—Metal spinning lathe (specify whether Gap or Straight Bed), complete with 1-HP 3-phase motor, manual switch with overload protection and all standard equipment.

**900-04**—Same as 900-03, except with 1-HP 1-phase motor.

**900-05**—Combination wood turning and metal spinning lathe (specify whether Gap or Straight Bed), complete with 1-HP 3-phase motor, manual switch with overload protection and all standard equipment.

**900-06**—Same as 900-05, except with 1-HP 1-phase motor.

## **SPECIAL LISTINGS**

**900-36**—No. 90 wood turning (specify gap or straight bed) complete with ¾-HP 1-phase motor, magnetic controls and all standard equipment.

**900-37**—No. 90 wood turning (specify gap or straight bed) complete with ¾-HP 3-phase motor, magnetic controls and all standard equipment.

**900-38**—No. 90 wood turning (specify gap or straight bed) complete with 1-HP 1-phase motor, magnetic controls, and all standard equipment.

**900-39**—No. 90 wood turning (specify gap or straight bed) complete with 1-HP 3-phase motor, magnetic controls and all standard equipment.

## **SPECIFICATIONS**

Overall length.....67"  
Distance between centers.....38"  
Inboard spindle (8 thread).....1½"  
Outboard spindle (8 thread).....1½"  
Swing over bed.....12"  
Swing over gap.....17"

Width of gap.....5¼"  
Variable speed range.....500 to  
4000 RPM  
Motor recommended.....1-HP  
Height of bed from floor.....36"  
Weight, net with stand.....550 lbs.

Weight, domestic crated  
with stand.....623 lbs.  
Export boxed, with stand  
(55.2 cu. ft.).....755 lbs.



# Lathe Accessories

## to speed production on every turning job

### SPECIAL HIGH PERFORMANCE TURNING TOOLS

Require less tool care than standard tools.  
4500-50—For #45 Lathe, wt. 4 lbs.  
900-50—For #90 Lathe, wt. 4 lbs.

### TOOL SUPPORT BASE:

For use when making extra long turnings  
requiring 24" tool support.  
4500-44—For #45 Lathe, wt. 12 lbs.  
900-29—For #90 Lathe, wt. 12 lbs.

### OUTBOARD TURNING STAND

Floor stand with offset tool holder for  
turning pieces larger than 12" diame-  
ter.  
4500-12—For #45 Lathe, wt. 75 lbs.  
900-12—For #90 Lathe, wt. 75 lbs.

### FACE PLATE #90 #45

3" R.H. face plate (2 lbs.) 900-17 4500-17  
4" R.H. face plate (2 lbs.) 900-18 4500-18  
6" R.H. face plate (3 lbs.) 900-19 4500-19  
8" R.H. face plate (6 lbs.) 900-20 4500-20  
12" R.H. face plate (9 lbs.) 900-21  
8" Outboard face plate  
(6 lbs.) 900-22 4500-22

### METAL SPINNING TOOLS:

Set of 5, consisting of: flat tool, pointed  
tool, flat ball, diamond point and beading  
roll.  
4500-15—For #45 Lathe, wt. 12 lbs.  
900-15—For #90 Lathe, wt. 12 lbs.

### WOOD TURNING CHISELS:

Set of 8 turning tools, consisting of 1/4"  
skew, 1/2" skew, 3/4" skew, 1/2" round  
point, 1/4" gouge, 1/2" gouge, 3/4" gouge  
and 1/2" parting tool.  
4500-13—For #45 Lathe, wt. 5 lbs.  
900-13—For #90 Lathe, wt. 5 lbs.  
Set of 6 turning tools, consisting of 1"  
skew, 3/4" skew, 1/2" skew, 1/2" round,  
3/8" gouge and 1/2" parting tool.  
4500-14—For #45 Lathe, wt. 4 lbs.  
900-14—For #90 Lathe, wt. 4 lbs.



### CHUCKS: #90 #45

3" screw chuck,  
threaded, 1 lb. 900-23  
2" screw chuck,  
No. 2 Taper, 8 oz. 900-25  
1/2" three-jaw chuck,  
with No. 2 Taper Arbor,  
1 1/2 lb. 900-26 4500-26

### CENTERS: #90 #45

Ball bearing tail stock  
center, 1 lb. 900-16 4500-16  
1" spur center, 4 oz. 900-27 4500-27  
3/4" cup center, 4 oz. 900-28 4500-28

### TOOL SUPPORTS: #90 #45

Right angle tool support  
(3 lbs.) 900-40 4500-40  
6" tool support (1 1/2 lb.) 900-30 4500-23  
12" tool support (2 lbs.) 900-31 4500-24  
24" tool support (5 lbs.) 900-32 4500-25  
Metal spinning tool rest  
(3 lbs.) 900-33 4500-39  
Offset tool support  
(3 lbs.) 900-41 4500-43

### ELECTRICALS:

4500-29—Magnetic 1-phase Switch #1-29  
& 1-3-32, wt. 6 lbs.  
4500-30—Magnetic 3-phase Switch #3-30  
& 1-3-32, wt. 6 lbs.  
4500-41—JIC Electricals for 1 or 3-phase  
operation, wt. 20 lbs.  
4500-42—Magnetic starter with built-in  
110-volt transformer wired to  
push-button station, wt. 15 lbs.  
4500-45—Magnetic controls with special  
slow start feature. Specify  
phase desired.  
4500-33—3-wire 8' cord and plug.  
4500-34—4-wire 8' cord and plug.  
4500-31—1-phase overload switch, #1-23,  
wt. 3/4 lb.  
4500-32—3-phase overload switch, #3-27,  
wt. 1 lb.  
900-10—Magnetic starter with built-in  
110-volt transformer wired to  
push-button station, wt. 15 lbs.  
900-11—Magnetic controls for 1 or 3-  
phase operation, wt. 7 lbs.  
900-42—JIC Electricals for 1 or 3-phase  
operation, wt. 20 lbs.  
900-34—3-wire 8' cord and plug.  
900-35—4-wire 8' cord and plug.



**Quick...Easy to Use...Easy to Read**



**Bed and Feed Roll Gauge**—Dual purpose . . . gauge mounted with swivel on cast iron base with leveling screws for simplified operation. Dial face rotates for easy zeroing. Part No. 19.



**Cutter Head Gauge**—Chrome plated plunger type gauge mounted on cast iron base. Designed to rest squarely on cutterhead for fast micrometer accuracy in setting knives. Part No. 18.

## Planer Dial Gauges

**Knife Setting Made  
The Easiest Possible . . .  
Greater Precision . . .**



Proper use of Micrometer Knife setting gauge will maintain equal knife height, assuring a smooth, even planed surface. Check knife height with Dial Indicator immediately upon receipt of your new machine. Knives are set approximately  $\frac{1}{16}$ " above high point of chipbreaker in knife locking shim. When knives are ground or a new set installed, care should be taken to re-set to original height.

**Quik-Set® accuracy in JOINTER cutterhead**

## Model 150 Quik-Set Knife Gauge



### NEW, QUICK WAY TO SET KNIVES ACCURATELY

Anyone can set jointer knives or bed rollers speedily and precisely with this easy-to-use gauge. Variations are micrometer calibrated and are easy to read on this fool-proof measuring instrument.

If you've ever had to make settings by "guess," you quickly found out how important accurate positioning is

. . . in outfeed and infeed efficiency as well as the cutterhead itself.

Avoid poor machine performance. Install every new or resharpened blade in perfect cutting position . . . adjust bed rollers fast and sure for top feed performance.

wt. 2 lbs.



# Model 100 12" Planer

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

Smaller shops everywhere applaud the features of this mighty mite of the Powermatic planer line. Though small in size, cabinet, school, pattern and light-duty millwork shops have found the Model 100 completely adequate for the most precise requirements.

Incorporating many famous features of the larger Powermatic planers, this low-cost model is proving its dependably superior performance year-in and year-out in every type of small shop.

## smoother surfacing saves finishing time

The unique chipbreaker construction and perfectly synchronized operation of cutterhead and feed rollers assure virtually gap-free surfacing for a wide variety of stocks at maximum speed.

The extra size 12" x 24" one-piece bed is the longest available on any 12" planer and assures greater infeed and outfeed support of longer stock for more accurate surfacing.

See how fast the Model 100 will start paying for itself in your shop with faster precision production.



T.E.F.C. Motor  
Standard

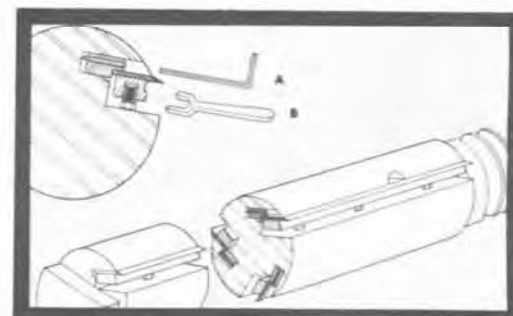
**Extra Safety in Operation**—the chipbreaker is mounted extremely near the cutterhead and extends completely over it to permit deep-cut surfacing without difficulty. All moving parts completely guarded.



**Convenient Bed-Adjustment Hand-Wheel** activates bed acme-thread screws which operate in ball thrust bearings. Easy-to-read thickness gauge. One-piece cast iron frame keeps perfect alignment.



**Built For Heavy Work-Loads**—Top rollers and pressure bar adjustments are fully visible and can be adjusted while machine is in operation. Positive clutch starts or stops feed rolls instantly.



**Speeds Accurate Knife Setting**—a standard feature!

Set and secure all cutterhead knives in as little as half the time. Adjust knife support jack-screws (A) with Allen wrench and pressure-lock knife safety shim (B) with end wrench. Cutterhead mounted in over-size sealed ball bearings. Finest carbon tool steel.



# combining safety, precision and new economy

**Model 100  
12" Planer**

## FEATURES

**FRAME:** Precision machined from extra heavy one-piece cast iron. All bearing housings are line bored for perfect bearing alignment.

**BED:** 12" x 24", the longest one-piece bed of all 12" planers. Built of heavily rib-reinforced cast iron, precision ground to satin smoothness for perfect finishing.

Convenient hand-wheel adjusts bed through full 5" range, with 1/16" movement upon each complete turn. Adjacent front-mounted gauge is calibrated for quick, easy reading.

**CUTTERHEAD:** Safety-type, milled from high carbon steel and fitted with 3 high-speed knives. Mounted in sealed ball bearings, the entire cutterhead unit may be lifted free by removing feed drive pulley and two locking screws from flange mounting.

Operating speed is 4400 RPM, making 13,200 cuts-per-minute (72 knife-cuts-per-inch) at 15 feet-per-minute feed rate. See Knife Adjustment feature on opposite page.

**FEED ROLLS:** Corrugated infeed roller and smooth outfeed roller are 2" in diameter and driven with extra heavy cut gears. 1" diameter feed roller journals are mounted in 3"

shaft bearings for longer bearing life. Feed roll pressure springs are top mounted over roller and fully visible for quick adjustment.

**PRESSURE BAR:** Features extra wide foot and is mounted extremely close to cutterhead for perfect outfeed control. Easy to adjust from either end while machine is in operation.

**CHIPBREAKER:** Mounted adjacent to cutting circle for top quality finishing. Accurately machined foot is extra wide for longer wear.

**POWER FEED CONTROL:** Handy clutch lever to start and stop feed instantly without stopping power. 15 feet-per-minute feed rate at 4400 RPM.

**STOCK CAPACITY:** Surfaces stock up to 12" wide and from 1/16" to 5" thick. Stock length can be as short as 7 1/2".

**POWER:** 2-HP motor is adequate for light and medium work; 3-HP motor is recommended for heavy-duty operation. Motor is furnished with 2-groove drive pulley.

**FEED DRIVE:** Positive action V-Belt drive assures smooth, trouble-free stock feed. Feed problems associated with gear transmissions are eliminated.

## STANDARD EQUIPMENT

**12" PLANER WITH STAND LESS MOTOR:** Set of 3 high-speed steel knives, scaled B bearing cutterhead, Jack screws, cutterhead pulley, steel stand, set of wrenches and pivot type motor base—less motor, motor pulley, belt, switch, and wiring.

**12" PLANER WITH STAND AND MOTOR:** Same as above except with motor, motor pulley, belt, switch, and wiring.

## STANDARD MACHINES

**120-01**—Complete Model 100 Planer with stand, wrenches and knives, less motor.

**120-02**—Planer with 3-HP, 1-phase motor, O/L Switch #1-23.

**120-03**—Planer with 3-HP, 3-phase motor, O/L Switch #3-27.

**120-04**—Planer with 2-HP, 1-phase motor, and Switch #1-21.

**120-05**—Planer with 2-HP, 3-phase motor, and Switch #3-25.

**120-07**—Planer with 1 1/2-HP, 3-phase motor, and Switch #3-25.

**120-08**—Planer, less stand.

## OPTIONAL ACCESSORIES

When planer is ordered with motor, all equipment is furnished to run same, including switch.

**120-20**—Motor Pulley (1725 RPM) 6 1/2" Diameter (Specify bore). Wt. 2 lbs.

**120-21**—Motor Pulley (3450 RPM) 3.40" Diameter (Specify bore). Wt. 2 lbs.

**120-22**—2 Belts (3450 RPM) 4L360. Wt. 1 lb.

**120-23**—2 Belts (1725 RPM). Wt. 1 lb.

**120-24**—Knives (set of 3). Wt. 1 lb.

**120-25**—1-phase O/L Switch #1-23. Wt. 3/4 lb.

**120-26**—3-phase O/L Switch, #3-27. Wt. 1 lb.

**120-27**—Magnetic 3-phase Switch, #3-30 & 1-3-32. Wt. 6 lbs.

**120-28**—Magnetic 1-phase Switch. #1-29 & 1-3-32. Wt. 6 lbs.

**120-29**—JIC electricals for one or 3-phase. Wt. 20 lbs.

## SPECIFICATIONS

Bed.....12" x 24"  
Feed Roll Diameter  
(infeed and outfeed).....2"  
Table Roll Diameter.....1 1/2"  
Maximum depth of cut.....1/4"  
Stock thickness range.....1/16" to 5"  
Widest stock.....12"  
Shortest planable stock (butted).....7 1/2"  
Cutterhead (3-knife) cutting arc.....3"  
Knife-cuts-per-inch.....73  
Recommended cutterhead  
speed.....4500 RPM

Knife size.....1/8" x 7/8" x 12"  
Rate of feed.....15 FPM  
Power recommended for light  
and medium work.....2-HP  
Power recommended  
for heavy work.....3-HP  
Weight, net, less stand.....300 lbs.  
Weight, net, with stand.....378 lbs.  
Weight, domestic crated,  
less stand.....350 lbs.  
Weight, domestic crated,  
with stand.....410 lbs.

Weight, domestic crated,  
with stand and motor.....455 lbs.  
Weight, export boxed,  
less stand (15.3 cu. ft.).....405 lbs.  
Weight, export boxed,  
with stand (27.6 cu. ft.).....500 lbs.  
Weight, export boxed,  
with stand and motor  
(27.6 cu. ft.).....560 lbs.



# Model 160 16" Planer

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

## First to Offer Quik-Set Table Roll Adjustment as Standard Equipment!!

Equipped with Powermatic's exclusive micrometer-type Quik-Set table roll adjustment, the 160 adjusts planing from rough to finished stock and back again in seconds. Merely touch the Quik-Set knob to set the planing thickness you want, from 0" to .040". Setting is completely accurate and "stays put" until you re-set.

This is only one reason why the 160 is a sales leader in the entire Powermatic line. It is large enough to surface most common sizes of stock with superior precision and greater speed. It is rugged enough to withstand years of constant use in most cabinet, school, pattern, sample and millwork shops. Too, it's rapidly becoming a favorite in many industrial plants.



Model 160-D, Direct Drive



Model 160-B, Belted Drive  
T.E.F.C. Motor Standard

**Belted Drive Assembly** is simple, yet completely dependable. Note variable speed feed pulley, lower ght, and compound sheaves and V-Belts which eliminate transmissions and gear boxes. Heavy cut gears drive feed rolls.



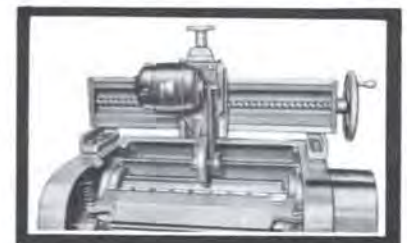
**Feed Speed Adjustable** to from 15 to 37 feet-per-minute with variable speed pulley. Sets quickly for every stock or production requirement.



**"Rough" to "Finished" in Seconds**—Exclusive Quik-Set Table Roll Adjustment offers lever-controlled instant change from 0" to .040". Setting cannot drift.



**Knife Grinder and Jointer** (optional) bolts directly to frame. Easily removable grinder and jointer assembly glides along extra heavy 6" precision ground bar and is guided by steep-pitch screw which prevents blade burning.





## FEATURES

**FRAME:** Precision machined from extra heavy cast iron. Extra wide side panels with gibs offer rigid bed support. One-piece 38" x 28" cast iron base.

**BED:** 16" x 31½", accurately machined with extra heavy rib-reinforcing for perfect alignment always. Bed raises and lowers on large acme-thread screws mounted on enclosed thrust bearings.

Convenient hand-wheel adjusts bed through full 6" range with 1/16" movement upon each complete turn. Adjacent front-mounted gauge is calibrated for quick, easy reading.

**CUTTERHEAD:** Safety-type, milled from high carbon steel and fitted with 3 high-speed knives. Mounted in over-size, sealed ball bearings, the entire cutterhead unit may be lifted free by removing drive pulley and three locking screws from flange mounting.

Operating speed is 4600 RPM (belted) with 13,800 cuts-per-minute (50 knife-cuts-per-inch) at 20 feet-per-minute feed rate. Direct drive operating speed of 3600 RPM yields 10,800 cuts-per-minute (40 knife-cuts-per-inch) at 20 feet-per-minute feed rate.

**See Knife Adjustment feature on page 38.**

**FEED ROLLS:** Milled from carbon steel, 2 3/16" in diameter with mounting yield of ¾". Driven through over-size cut gears by V-belts from cutterhead spindle.

**PRESSURE BAR:** Mounted concentric to cutterhead and fitted

extremely close to knife-cutting circle. The bar has extra wide foot for long wear and can be adjusted for perfect alignment while machine is in operation.

**CHIPBREAKER:** Swings concentric to cutterhead and mounted just forward of the knife-cutting circle. Extra wide, accurately machined foot assures longer wear and top quality finish.

**POWER FEED CONTROL:** Variable speed pulley affords a complete range of feed from 15 to 37 feet-per-minute.

**STOCK CAPACITY:** Surfaces stock up to 16" wide and from ½" to 6" thick.

**DRIVES:** Belted drive (Model 160-B) cutterhead is driven by V-belts from motor mounted on the side of machine.

Direct drive (Model 160-D) cutterhead is driven by motor mounted directly to the cutterhead shaft.

**POWER:** 3-HP motor is recommended for light and medium work, such as pattern shops, schools, etc. 5-HP motor is recommended for heavier requirements and production work. 1 or 3-phase motors. **Direct drive (Model 160-D) cannot be furnished with 5-HP 1-phase motor.**

**KNIFE GRINDING AND JOINTING ATTACHMENT: (Optional).** Mounted on extra heavy 5½" bar, precision ground for extreme accuracy. Grinder and jointer may be easily removed from permanently mounted grinder bar when not in use. ¼-HP, 110V. motor.

## STANDARD EQUIPMENT

**PLANER LESS MOTOR:** 3 high-speed steel knives, sealed ball bearing cutterhead, Jack screws, cutterhead pulley, motor mount base, set of wrenches and quik set table roll adjustment—Less motor, motor pulley, belts, switches, wiring and belt guard.

**PLANER WITH MOTOR:** Same as Less Motor Unit, except with motor, motor pulley, belts, belt guard, magnetic controls with overload, low voltage and no voltage protection, and separate push button start station.

## STANDARD MACHINES

**160-10—160-D Powermatic 16" x 6" Single Surface Planer,** with three-knife round safety cutterhead mounted in heavy-duty precision ball bearings. Direct Motor Drive. 3-HP, 1-phase, 220-volt 60 cycle motor. (Specify motor characteristics when ordering). Variable speed of 15 to 37 feet-per-minute. Motor includes magnetic starter with under and overload voltage protection and push-button station.

**160-11—160-D,** same as 160-10 except 3-HP 3-phase 220/440-volt 60 cycle Direct Drive Motor.

**160-13—160-D,** same as 160-10, except 5-HP 3-phase 220/440-volt 60 cycle Direct Drive Motor.

**160-01—160-B,** same as 160-10, less cutterhead drive motor, equipped with V-pulley on cutterhead shaft.

**160-02—160-B,** same as 160-10, except 3-HP 1-phase 220-volt 60 cycle Belted Drive Motor.

**160-03—160-B,** same as 160-10, except 3-HP 3-phase 220/440-volt 60 cycle Belted Drive Motor.

**160-04—160-B,** same as 160-10, except 5-HP 1-phase 220-volt 60 cycle Belted Drive Motor.

**160-05—160-B,** same as 160-10, except 5-HP 3-phase 220/440-volt 60 cycle Belted Drive Motor.

**160-06—160-B,** same as 160-10 except 7½-HP, 3-phase, 220/440-volt, 60 cycle Belted Drive Motor.

## OPTIONAL ACCESSORIES

**160-20—Extra set of knives (3),** high speed steel. Wt. 2½ lbs.

**160-21—Shaving hood (6" outlet size).** Wt. 15 lbs.

**160-22—Extra heavy duty Knife Grinding and Jointing Attachment** with indexing mechanism. Wt. 90 lbs.

**160-23—2-Groove B-section Motor Pulley** for 3450 RPM motor. Wt. 3 lbs.

**160-24—2-Groove B-section Motor Pulley** for 1725 RPM Motor. Wt. 2 lbs.

**160-25—Belt Guard** for 3450 RPM Motor. Wt. 6 lbs.

**160-26—Belt Guard** for 1750 RPM Motor. Wt. 6 lbs.

**160-28—JIC electricals** for 5 to 7½-HP

## SPECIFICATIONS

Bed.....16" x 31½"  
Cutterhead (3-knife) cutting arc.....4"  
Recommended cutterhead speed,  
    Belted drive.....4600 RPM  
    Direct drive.....3600 RPM  
Knives, 3, high speed  
    steel.....16" x 1¼" x 5/32"  
Feed rollers.....2 3/16" dia.  
Bed rollers.....2" dia.  
Variable speed feed  
    range.....15 to 37 FPM  
Knife cuts per minute,

Belted drive.....13,800  
Knife cuts per minute,  
    Direct drive.....10,800  
Maximum depth of cut.....½"  
Stock thickness range.....½" to 6"  
Widest planable stock.....16"  
Shortest planable stock, butted.....4"  
Shortest planable stock,  
    not butted.....13"  
Motors recommended for:  
    Light & medium work.....3 to 5-HP  
    Heavy duty work.....7½-HP

Weight, net, less motor.....1000 lbs.  
Weight, net, with motor.....1100 lbs.  
Weight, Domestic crated,  
    less motor.....1110 lbs.  
Weight, Domestic crated,  
    with motor.....1230 lbs.  
Weight, export boxed  
    less motor (50 cu. ft.).....1225 lbs..  
Weight, export boxed  
    with motor (63.9 cu. ft.).....1360 lbs.



# Model 180 18" Planer

ALL MACHINES PERFORMANCE TESTED BEFORE SHIPMENT

**planes up to 1/2" . . .  
handles rough-  
sawn stock!**

Equipped with Powermatic's exclusive micrometer-type Quik-Set table roll adjustment, the 180 adjusts planing from rough to finished stock and back again in seconds. Merely touch the Quik-Set knob to set the table rolls, from 0" to .040". Setting is completely accurate and "stays put" until you re-set. The only 18" Planer designed to handle such deep stock-planing jobs. Feed the rough stock in and watch this Powermatic performance master wade right through as fast as you like! Special high speed steel cutter-head knives are designed for hard or soft stock.



**"Rough" to "Finished"  
in Seconds—Exclusive  
Quik-Set Table  
Roll Adjustment offers  
lever-controlled instant  
change from 0" to .040".  
Setting cannot drift.**



**T.E.F.C. Motor  
Standard On  
Belted Drive**

**Quik-Set Table Roll Adjustment  
Standard Equipment**

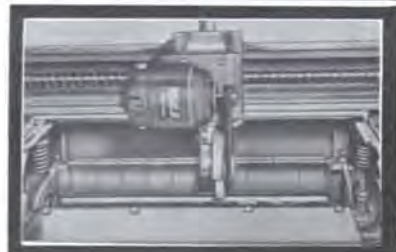
**Belted Drive Assembly** is simple, yet completely dependable. Note variable speed feed pulley, lower right, and compound sheaves and V-Belts which eliminate transmissions and gear boxes. Heavy cut gears drive feed rolls.



**Feed Speed Adjustable** to from 15 to 37 feet-per-minute with variable speed pulley. Sets quickly for every stock or production requirement.



**Knife Grinder and Jointer** (optional) bolts directly to frame. Easily removable grinder and jointer assembly glides along extra heavy 6" precision ground bar and is guided by steep-pitch screw which prevents blade burning.





# big value... outstanding for most planing jobs

## FEATURES

**FRAME:** Exceptionally heavy cast iron frame with one-piece cast iron base, 32" x 41". Frame has extra wide side panels with gibs to support planer bed.

**BED:** Heavy, substantially ribbed, accurately machined. Table size, 18" x 32". Bed raises and lowers on large acme-thread screws mounted on enclosed thrust bearings.

**CUTTERHEAD:** 3 knives, safety type, with 4" cutting circle, fitted with 3 high speed knives. Cutterhead is milled from high carbon steel and is mounted in heavy-duty ball bearings.

**FEED ROLLS:** Upper feed rolls 2 3/16" diameter, milled from tool steel. Have 5/8" yield. Driven by V-belts from cutterhead spindle to oversize cut gears.

**HOLDDOWN:** Bar is mounted concentric to cutterhead and fitted close to knife cutting circle. Bar has extra wide foot for long wear. Can be adjusted while machine is in operation for perfect alignment.

**CHIPBREAKER:** The chipbreaker swings concentric to the cutterhead and fits very close to the knife-cutting circle. Has extra wide, accurately machined foot for long wear.

**RATE OF SPEED ADJUSTMENT:** A complete range from 15 to 37 feet per minute is offered with the use of Variable speed pulley.

**DRIVES AVAILABLE:** Model 180-B, Belted Drive: Cutterhead is driven with V-belts from motor mounted on the side of machine. Cutterhead speed, 4600 RPM. Model 180-D, Direct Drive: Cutterhead is driven by motor mounted direct to the cutterhead shaft. Cutterhead speed, 3600 RPM.

**KNIFE GRINDING AND JOINTING ATTACHMENT:** The Model 180 Knife grinding and jointing attachment is mounted on an extra heavy 5 1/2" bar, precision ground for accuracy. The Grinder bar is mounted in a permanent position on the machine and grinder or jointer are easily removed from bar when not in use.

## STANDARD EQUIPMENT

**PLANER LESS MOTOR:** 3 high-speed steel knives, sealed ball bearing cutterhead, Jack screws, cutterhead pulley, motor mount base, set of wrenches and quik set table roll adjustment—Less motor, motor pulley, belts, switches, wiring and belt guard.

**PLANER WITH MOTOR:** Same as Less Motor Unit, except with motor, motor pulley, belts, belt and guard, magnetic controls with overload, low voltage and no voltage protection and separate push button start station.

## STANDARD MACHINES

**180-10—180-D Powermatic 18" x 6" Single Surface Planer,** with three-knife round safety cutterhead mounted in heavy-duty precision ball bearings. Direct Motor Drive. 3-HP, 1-phase, 220-volt 60 cycle motor. (Specify motor characteristics when ordering). Variable speed of 15 to 37 feet-per-minute. Motor includes magnetic starter with under and overload voltage protection and push-button station.

**180-11—180-D,** same as 180-10 except 3-HP, 3-phase 220/440-volt 60 cycle Direct Drive Motor.

**180-12—180-D,** same as 180-10 except 5-HP, 3-phase 220/440-volt 60 cycle Direct Drive Motor.

**180-01—180-B,** same as 180-10, less cutterhead drive motor, equipped with V-pulley on cutterhead shaft.

**180-02—180-B,** same as 180-10, except with 3-HP 1-phase 220-volt 60 cycle Belted Drive Motor.

**180-03—180-B,** same as 180-10, except 3-HP 3-phase 220/440-volt 60 cycle Belted Drive Motor.

**180-04—180-B,** same as 180-10, except 5-HP 1-phase 220-volt 60 cycle Belted Drive Motor.

**180-05—180-B,** same as 180-10, except 5-HP 3-phase 220/440-volt 60 cycle Belted Drive Motor.

**180-06—180-B,** same as 180-10, except 7 1/2-HP, 3-phase, 220/440-volt 60 cycle Belted Drive Motor.

## OPTIONAL ACCESSORIES

**180-20—Extra Set of Knives (3),** high speed steel. Wt. 2 1/2 lbs.

**180-21—Shaving hood (6" outlet size).** Wt. 15 lbs.

**180-22—Extra heavy duty Knife Grinding and Jointing Attachment** with indexing mechanism. Wt. 90 lbs.

**180-23—2-Groove B-Section Motor Pulley** for 3450 RPM

Motor. Wt. 3 lbs.

**180-24—2-Groove B-Section Motor Pulley** for 1725 RPM Motor. Wt. 2 lbs.

**180-25—Belt Guard** for 3450 RPM Motor. Wt. 6 lbs.

**180-26—Belt Guard** for 1725 RPM Motor. Wt. 6 lbs.

**180-28—JIC electricals** for 5 to 7 1/2-HP.

## SPECIFICATIONS

Bed.....18" x 32"  
Cutterhead (3-knife) cutting arc.....4"  
Recommended cutterhead speed  
Belted drive.....4600 RPM  
Direct drive.....3600 RPM  
Knives, 3 high speed  
steel.....18" x 1 1/4" x 5/32"  
Feed rollers.....2 3/16" dia.  
Bed rollers.....2" dia.  
Variable speed feed  
range.....15 to 37 FPM

Knife cuts per minute,  
Belt drive.....13,800  
Knife cuts per minute,  
Direct drive.....10,800  
Maximum depth of cut.....1/2"  
Stock thickness range.....1/8" x 6"  
Widest planable stock.....18"  
Shortest planable stock, butted.....4"  
Shortest planable stock,  
not butted.....13"

Motors recommended for:

Light and medium work.....3 to 5-HP  
Heavy duty work.....7 1/2-HP  
Weight, net, less motor.....1050 lbs.  
Weight, Domestic crated,  
less motor.....1145 lbs.  
Weight, Domestic crated,  
with motor.....1255 lbs.  
Weight, Export crated,  
less motor (50 cu. ft.).....1350 lbs.  
Weight, Export crated,  
with motor (63.9 cu. ft.).....1500 lbs.



# Model 221 20" Planer

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

## unexcelled performance for every surfacing job

Thousands of school, millwork and pattern shops, as well as hundreds of high production plants throughout America have discovered that the Powermatic 20" planer is unsurpassed for dependable, precision performance in an extremely wide variety of planing requirements. It incorporates every modern safety and operational feature for maximum efficiency.



Model 221-B Belted Drive  
T.E.F.C. Motor Standard



Model 221-D Direct Drive

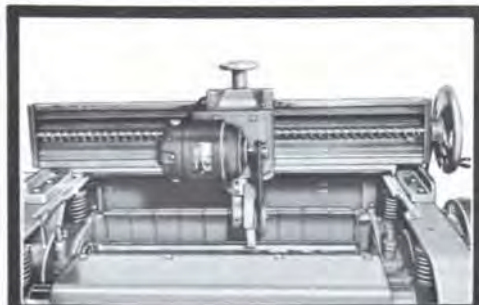
### Quik-Set® Table Roll Adjustment . . .

*It's standard equipment!*  
Adjust all rolls from 0" to .040" with a flick of the finger. Just move the Quik-Set lever at right of the table from rough to semi-finished stock.



### Knife Grinding and Jointing Attachment

(Optional) Keeps knives with a perfect edge always! Permanently mounted, extra heavy 6" grinder bar is precision ground for smooth, accurate operation. Grinder and jointer are belt driven by 1/4-HP 1-phase, 110 Volt motor and are easily removed from bar when not in use.



### 2" Sectional Infeed Rollers

(Optional on Model 221), have milled surfaces. 4" in diameter, roller offer maximum feeding accuracy especially important in working rough, uneven stock.



### Knife Indexer

Quick acting plunger type indexing finger locks cutter-head securely for grinding knives. Predetermined and pre-set stops properly position knife.

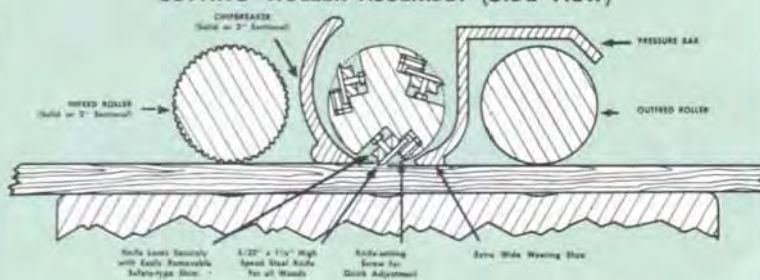


### Variable Speed Control

hand-wheel is easy to reach . . . easy to set. Adjusts rate of feed from 20 to 50 FPM.



### CUTTING-ROLLER ASSEMBLY (SIDE VIEW)





## FEATURES

**FRAME:** Precision machined from extra heavy cast iron. Extra wide side panels with gibs offer rigid bed support and perfect alignment. One-piece 34" x 44 3/4" cast iron base.

**BED:** 20 1/4" x 40", accurately machined with extra heavy rib-reinforcing for perfect alignment and maximum strength. Bed raises and lowers on large acme-thread screws, mounted on enclosed thrust bearings.

Convenient handwheel adjusts bed through full 8" range with 1/16" movement upon each complete turn. Adjacent front-mounted gauge is calibrated for quick, easy reading.

**CUTTERHEAD:** Safety-type, milled from carbon tool steel and fitted with 3 high-speed knives, 5/32" x 1 1/4" x 20". Mounted in over-size, sealed ball bearings, the entire cutterhead unit may be lifted free by removing feed drive pulley and locking screws from flange mounting. 4 1/4" cutting circle.

Operating speed is 4600 RPM (belted) with 13,800 cuts-per-minute (50 knife-cuts-per-inch) at 20 feet-per-minute feed rate. Direct drive operating speed of 3600 RPM yields 10,800 cuts-per-minute (40 knife-cuts-per-inch) at 20 feet-per-minute feed rate.

See knife adjustment feature on opposite page.

**FEED ROLLS:** Milled from tool steel. Extra large, 4" in diameter with mounting yield of 1/4". Mounted in sealed-for-life ball bearings and plunger-type coil springs. Feed rolls fully reversible on 3-phase current only.

Infeed roll: corrugated, solid type is standard. Sectional type optional.

Outfeed roll: smooth, 4" diameter, solid type with two adjustable, 2 3/4" table idler rollers. Fully adjustable, with drive through over-size cut gears by V-belts from cutterhead spindle.

**PRESSURE BAR:** Mounted concentric to cutterhead and fitted extremely near knife cutting circle. The bar has extra wide foot for long wear (see side view drawing) and can be adjusted while machine is in operation.

**CHIPBREAKER SOLID TYPE:** (Sectional Optional) Swings concentric to cutterhead and mounted just forward of the knife-cutting circle. Has 3/8" yield with extra wide, accurately machined foot to assure longer wear and top grade finishing.

**POWER FEED CONTROL:** Variable speed pulley affords complete range of feed from 20 to 50 feet-per-minute. Driven by 1-HP totally enclosed motor mounted in base. Controlled by side mounted instantly reversing drum switch.

**STOCK CAPACITY:** Surfaces stock up to 20" wide and from 1/8" to 8" thick.

**GUARDS:** Designed for complete operating safety, guards enclose all moving parts. Easily removed for quick access.

**LUBRICATION:** All bearings either sealed-for-life type or equipped with easy-to-reach Alemite fittings.

**DRIVES:** Belted drive (Model 221-B) cutterhead is driven by V-Belts from motor mounted on the side of machine.

Direct Drive (Model 221-D) cutterhead is driven by motor mounted directly to cutterhead shaft.

**POWER:** 5-HP motor is recommended for light and medium work loads. For heavier requirements and high production use, the 7 1/2 or 10-HP motor is recommended.

Direct drive (Model 221-D) cannot be furnished with 5-HP 1-phase motor.

**ELECTRICALS:** Machine standard equipped with magnetic controls protecting both feed and drive motor. With this exclusive safety feature, both motors shut off instantly after power failure.

## STANDARD EQUIPMENT

**PLANER LESS MOTOR:** Set of 3 high-speed steel knives, 3 knife round cutterhead mounted in sealed ball bearings, Jack screws, cutterhead pulley, SOLID infeed and chipbrakes, motor mount base, 1 HP feed drive motor, set of wrenches, and quik-set table roll adjustment—Less motor, motor pulley, belts, switches, wiring, and belt guard.

**PLANER WITH MOTOR:** Same as Less Motor Unit, except with cutterhead, motor pulley, belts, belt guard, magnetic controls with overload, low voltage and no voltage protection, separate push button station and reversing drum switch (for 3-phase operation only.)

## STANDARD MACHINES

- 221-01**—221-D, 20" x 8" Single Surfacers, Direct Drive, 5-HP, 3-phase, 220/440 or 550-volt, 50/60 cycle motor. Motor includes magnetic starter under and overload voltage protection and push-button station, solid infeed roll and chipbreaker.
- 221-03**—221-D, same as 221-01, except with 7 1/2-HP, 3-phase, 220/440-volt, 60 cycle, Direct Drive motor.
- 221-04**—221-D, same as 221-01, except with 10-HP, 3-phase, 220/440-volt, 60 cycle, Direct Drive motor.
- 221-05**—221-B, same as 221-01, except less cutterhead mo-

tor. With V-pulley on cutterhead shaft. Specify feed motor voltage.

- 221-06**—221-B, same as 221-01, except with 5-HP, 3-phase, 220/440-volt, 60 cycle Belted Drive motor.
- 221-07**—221-B, same as 221-01, except with 5-HP, 1-phase, 220-volt, 60 cycle Belted Drive motor.
- 221-08**—221-B, same as 221-01, except with 7 1/2-HP, 3-phase, 220/440-volt, 60 cycle Belted Drive motor.
- 221-09**—221-B, same as 221-01, except with 10-HP, 3-phase, 220/440-volt, 60 cycle Belted Drive motor.

## OPTIONAL ACCESSORIES

- 221-15**—KNIFE GRINDING AND JOINTING ATTACHMENT. Wt. 100 lbs.
- 221-16**—SECTIONAL TOP INFEED ROLLS. (In lieu of standard) 4" diameter, 2" sections of cast steel mounted on milled carbon tool steel shaft. Wt. 50 lbs.
- 221-17**—SECTIONAL CHIPBREAKER. (In lieu of standard). Made of 2" cast steel sections. 3/8" yield. Wt. 45 lbs.
- 221-18**—SHAVING HOOD. 6" outlet. Wt. 25 lbs.
- 221-19**—FOUR-KNIFE CUTTERHEAD. (In lieu of standard).
- 221-20**—Set of Three High-Speed Steel Knives. Wt. 3 1/2 lbs.
- 221-21**—Set of Four High-Speed Steel Knives. Wt. 4 lbs.
- 221-22**—3 Groove B-Section 5.45" pulley for 3450 RPM motor.

- 221-23**—Switch for 5-HP, 1-phase, 220-volt, 60 cycle motor with magnetic starter and push-button station.
- 221-24**—Same as 221-23, except for 5-HP, 3-phase, 220/440-volt motor.
- 221-25**—Same as 221-23, except for 7 1/2-HP, 3-phase, 220/440-volt motor.
- 221-26**—Same as 221-23, except for 10-HP, 3-phase, 220/440-volt motor.
- 221-27**—3 Groove B-Section 9.40" Dia. pulley for 1725 RPM motor.
- 221-28**—JIC Electricals for 5 to 7 1/2-HP. Wt. 25 lbs.
- 221-29**—JIC Electricals for 10-HP. Wt. 30 lbs.
- 221-30**—Belt Guard for 3450 RPM motor.
- 221-31**—Belt Guard for 1725 RPM motor.



# Model 225 24" Planer

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

**adjust from rough  
to semi-finished stock  
in a second!**

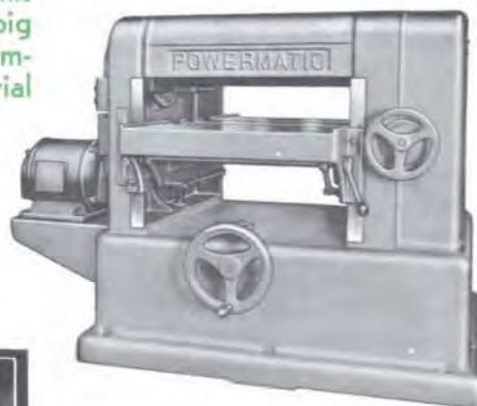
**big, rugged . . . for cabinetry and  
high production accuracy**

Regardless of the stock, from heavy, structural laminates to finished glued panels . . . the Powermatic 24" planer has proved highly dependable for unerring accuracy and extremely smooth surfacing qualities.

In finer cabinet work, the precision performance of this planer cuts finishing time to the bare minimum. Its big capacity assures a maximum range of flexibility as important for the smaller shop as it is for the larger industrial operation.



Model 225-D, Direct Drive



Model 225-B,  
Belted Drive  
T.E.F.C. Motor  
Standard

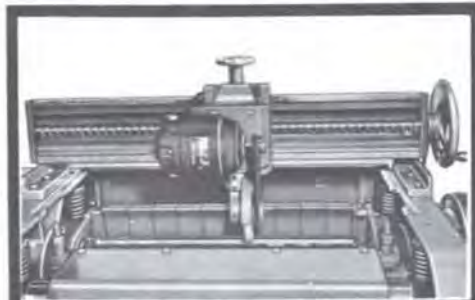
## Quik-Set<sup>®</sup> Table Roll Adjustment . . .

It's standard equipment!  
Adjust all rolls from 0" to  
.040" with a flick of the  
finger. Just move the  
Quik-Set lever at right of  
the table for fast, accurate  
change from rough to semi-  
finished stock.



## Knife Grinding and Jointing Attachment

(Optional) Keeps knives  
with a perfect edge always!  
Permanently mounted, extra  
heavy 6" grinder bar is  
precision ground for smooth,  
accurate operation. Grinder  
and jointer are belt driven  
by 1/4-HP, 1-phase, 110 Volt  
motor and are easily removed  
from bar when not in use.



## 2" Spring-Loaded Sectional Infeed Rollers

have milled surfaces.  
4" in diameter, rollers  
offer maximum feeding  
accuracy especially  
important in working  
rough, uneven stock.



## Knife Indexer

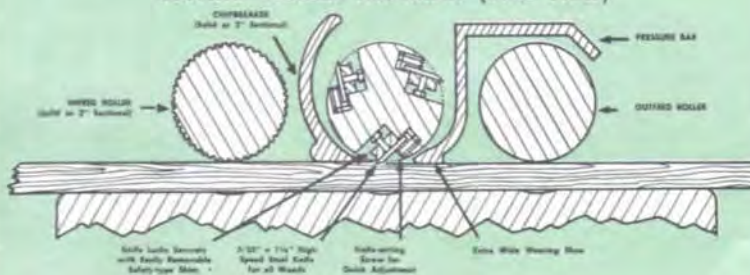
Quick acting plunger type  
indexing finger locks cutter-  
head securely for grinding  
knives. Predetermined and  
pre-set stops properly  
position knife.



**Variable Speed Control**  
hand-wheel is easy to reach  
... easy to set. Adjusts rate  
of feed from 20 to 50 FPM



## CUTTING-ROLLER ASSEMBLY (SIDE VIEW)





## FEATURES

**FRAME:** Precision machined from extra heavy cast iron. Extra wide side panels with gibs offer rigid bed support and perfect alignment. One-piece base.

**BED:** 24" x 48", accurately machined with extra heavy rib-reinforcing for perfect alignment and maximum strength. Surface precision ground from a one-piece casting. Bed raises and lowers on large acme-thread screws mounted on enclosed thrust bearings, running in steel cut bevel gears.

Convenient handwheel adjusts bed through full 8" range with 1/16" movement upon each complete turn.

**CUTTERHEAD:** Safety-type, milled from carbon tool steel and fitted with 4 high-speed knives, 5/32" x 1 1/4" x 24". Mounted in over-size, sealed ball bearings, the entire cutterhead unit may be lifted free by removing 4 locking screws from flange mounting. 4 1/2" cutting circle.

**Infeed Roll:** Corrugated, 2" cast steel sectional type mounted on milled alloy steel spline shaft. Reversible without damage to springs.

**Outfeed Roll:** Smooth, solid type with 2 adjustable idler rollers. Fully adjustable, with drive through over-size cut gears.

**PRESSURE BAR:** Mounted concentric to cutterhead and fitted extremely near knife-cutting circle. The bar has extra wide foot for long wear (see side view drawing page 32) and can be adjusted during machine operation.

**CHIPBREAKER:** 2" cast steel, sectional-type with independent 3/8" yield. Sections are mounted on a steel bar just forward of the knife-cutting circle and swing concentric to the cutterhead.

**POWER FEED CONTROL:** Variable speed pulley affords complete range of feed from 20 to 100 feet-per-minute. Driven with 1 1/2-HP totally enclosed motor, and mounted in machine base.

**POWER:** 5-HP Motor is recommended for light and medium work loads. For extra heavy and high production requirements, the 7 1/2- to 15-HP motor is recommended.

**ELECTRICALS:** Machine standard equipped with magnetic controls protecting both feed and drive motor. With this exclusive safety feature, both motors shut off instantly after power failure.

## STANDARD EQUIPMENT

**PLANER LESS MOTOR:** Set of 4 knives, 4 knife round cutterhead mounted in sealed ball bearings, Jack screws, cutterhead pulley, sectional infeed roll and chipbreaker, motor mount base, 1 1/2 HP feed drive motor, set of wrenches—Less motor, motor pulley, belts, switches, wiring, and belt guard.

**PLANER WITH MOTOR:** Same as less motor unit except with cutterhead drive motor, motor pulley, belts, belt guard, magnetic controls with overload, low voltage and no voltage protection, separate push button stations and reversing drum switch for 3-phase operation only.

## STANDARD MACHINES

Be sure to specify motor characteristics when ordering.

**225-01—225-D,** 24" x 8" Single Planer as specified on opposite page, with four-knife round safety cutterhead, sectional chipbreaker, sectional feed rolls and 1 1/2-HP totally enclosed feed motor. 5-HP, 3-phase, 220, 440 or 550-volts, 50 or 60 cycle cutterhead motor. Motor includes Magnetic starter with overload and low voltage protection and push-button station.

**225-03—225-D,** same as 225-01, except with 7 1/2-HP, 3-phase, 220/440-volt, 60 cycle Direct Drive motor.

**225-04—225-D,** same as 225-01, except with 10-HP, 3-phase, 220/440-volt, 60 cycle Direct Drive motor.

**225-05—225-B,** same as 225-01, except less cutterhead motor. With V-pulley on cutterhead shaft.

**225-06—225-B,** same as 225-01, except with 5-HP, 3-phase, 220/440-volt, 60 cycle Belted Drive motor.

**225-07—225-B,** same as 225-01, except with 5-HP, 1-phase, 220-volt, 60 cycle Belted Drive motor.

**225-08—225-B,** same as 225-01, except with 7 1/2-HP, 3-phase, 220/440-volt, 60 cycle Belted Drive motor.

**225-09—225-B,** same as 225-01, except with 10-HP, 3-phase, 220/440-volt, 60 cycle Belted Drive motor.

**225-10—225-B,** same as 225-01, except with 15-HP, 3-phase, 220/440-volt, 60 cycle Belted Drive motor.

## OPTIONAL ACCESSORIES

**225-20—KNIFE GRINDING AND JOINTING ATTACHMENT.** Wt. 105 lbs.

**225-21—SHAVING HOOD.** 8" outlet. Wt. 30 lbs.

**225-22—Set of Four High-Speed Steel Knives.** Wt. 5 1/2 lbs.

**225-23—3 Groove B-Section 5.45" pulley for 3450 RPM motor.**

**225-24—Switch for 5-HP, 1-phase, 220-volt, 60 cycle motor with magnetic starter and push-button station.**

**225-25—Same as 225-24, except for 5-HP, 3-phase, 220/440-volt motor.**

**225-26—Same as 225-24, except for 7 1/2-HP, 3-phase, 220/440-volt motor.**

**225-27—Same as 225-24, except for 10-HP, 3-phase, 220/440-volt motor.**

**225-28—JIC Electricals for 5 to 7 1/2-HP.** Wt. 25 lbs.

**225-29—JIC Electricals for 10-HP.** Wt. 30 lbs.

**225-30—Cutterhead Brake.**

**225-31—Belt Guard for 3450 RPM motor.**

**225-32—Belt Guard for 1725 RPM motor.**

## SPECIFICATIONS

Bed \_\_\_\_\_ 24" x 48"  
Cutterhead \_\_\_\_\_ 4 1/2"  
Cutting circle \_\_\_\_\_ 4 1/2"  
Recommended Cutterhead speed,  
beltd drive \_\_\_\_\_ 4600-5000-5500 RPM  
direct drive \_\_\_\_\_ 3600 RPM  
Knives (4), high speed  
steel \_\_\_\_\_ 24" x 1 1/4" x 5/32"  
Feed rollers \_\_\_\_\_ 4" dia.  
Bed rollers \_\_\_\_\_ 4" dia.  
Variable speed feed  
range \_\_\_\_\_ 20 to 100 FPM

Knife-cuts-per-minute,  
beltd drive \_\_\_\_\_ 18,400  
Knife-cuts-per-minute,  
direct drive \_\_\_\_\_ 14,400  
Maximum depth of cut \_\_\_\_\_ 1/2"  
Stock thickness range \_\_\_\_\_ 1/8" to 8"  
Widest planable stock \_\_\_\_\_ 24"  
Shortest planable stock, butted \_\_\_\_\_ 4"  
Shortest planable stock,  
not butted \_\_\_\_\_ 13"  
Motors recommended for:  
Light and medium work 5 to 7 1/2-HP

Heavy duty work \_\_\_\_\_ 10 to 15-HP  
Weight, Net, less motor \_\_\_\_\_ 2450 lbs.  
Weight, Net, with motor \_\_\_\_\_ 2600 lbs.  
Weight, Domestic crated,  
less motor \_\_\_\_\_ 2760 lbs.  
Weight, Domestic crated,  
with motor \_\_\_\_\_ 2885 lbs.  
Weight, Export boxed,  
less motor (92.1 cu. ft.) \_\_\_\_\_ 2990 lbs.  
Weight, Export boxed,  
with motor (123.8 cu. ft.) \_\_\_\_\_ 3115 lbs.



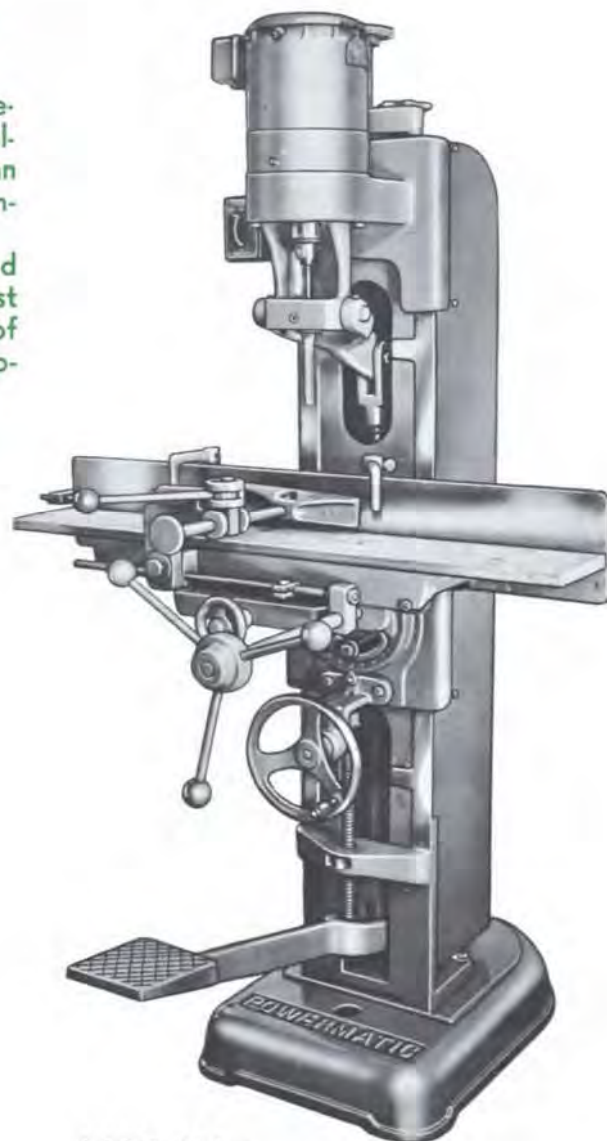
# No. 10 Hollow Chisel Mortiser

ALL MACHINES PERFORMANCE TESTED BEFORE SHIPMENT

## vibration free . . . for perfect performance

Designed to speed through the most complicated work requirements with clean, crisp cuts every time! Perfectly balanced head precision mounted on a heavy, rigid column assures smooth-action without the jumping, pounding or jamming so common in many other mortisers.

Day-in, day-out use in hundreds of millwork, pattern and cabinet shops as well as manufacturing operations from coast to coast continues to win high acclaim from thousands of experienced and novice operators. No other mortiser is operated easier in continuous production.



T.E.F.C. Motor  
Standard

**Universal Table**  
assures complete flexibility  
for mortise cuts at any  
angle. Fast, simple 45°  
right or left tilting.  
14" vertical and 12"  
longitudinal  
table adjustment.



**BUILT-IN FAN KEEPS WORK  
CLEAN AND CUTTING  
EDGE COOL!**



**Sliding Table Rack**  
with adjustable stops  
enables operator to  
make successive  
straight-line cuts with  
utmost precision on  
the #10 hollow chisel  
machine.



**Quick-Acting  
Eccentric Clamp** per-  
mits fast stock change  
with complete  
accuracy in high pro-  
duction operations.



**every cut...  
clean, sharp  
and clear**

Exactly Powermatic engineered and built for years of dependable service. Whether in simple shop operation or industrial high production, Powermatic mortisers are famous for hair-line accuracy without jumping or pounding.

Check each feature carefully for proof of Powermatic superiority in every type of mortise operation. Compound table with quick-acting stock clamp permits easy, fast and accurate successive cuts at any angle.

## FEATURES

**FRAME:** Perfectly fitted from heavy, reinforced castings for extreme rigid support and to eliminate vibration.

**TABLE:** Universal style, 6" x 36" with 4" back fence. Compound rack and pinion unit which tilts 45° right or left with a 14" vertical adjustment range operated by convenient, front-mounted handwheel. Lateral hand-wheel table adjustment 4".

Stock is held snugly in position with a quick acting, adjustable eccentric clamp. Front-mounted turret wheel operates rack and pinion for full 12" straight-line mortising without unclamping work.

**STROKE:** Maximum bit action range is 4", the deepest cutting depth. Stroke is operated by foot lever through linkage which provides for full leverage adjustment. Assures

maximum operator production with minimum fatigue.

**BITS:** Equipped with 3/8" chisel and bit, chuck, 2 chisel bushings and complete wrench set.

Boring bit is 9" in overall length with a twist of 6". Accommodates soft wood mortise chisels up to 3/4".

**MOTOR:** Direct drive type, built-in. Choose from either 1-HP or 1½-HP 1-phase (110 or 220-volt) or 3-phase (220 or 440-volt) models for light and medium work requirements. For extra heavy mortising operations the 2-HP 3-phase (220 or 440-volt) motor is recommended.

Motor spindles operate in high-speed ball bearings for years of perfect alignment and trouble-free service. Across-the-line motor switch is front-mounted at eye level.

## STANDARD EQUIPMENT

**MORTISER WITH MOTOR:** 3/8" chisel and bit, key chuck with key, eccentric stock clamp, holddowns, universal table, work stops, 2 chisel bushings, wrench set, motor, switch, and wiring.

## STANDARD MACHINES

**400-01**—Powermatic #10 Hollow Chisel Mortiser complete with 3/8" chisel and bit, chuck, chisel bushings, wrench set and 1-HP 1-phase motor and switch, #1-21, cord and plug.

**400-02**—Same as 400-01 except with 1-HP, 3-phase motor, #3-25.

**400-03**—Same as 400-01 except with 1½-HP, 1-phase motor, switch #1-21, cord and plug.

**400-04**—Same as 400-01 except with 1½-HP, 3-phase motor, switch #3-25.

**400-05**—Same as 400-01 except with 2-HP, 3-phase motor, switch #3-25.

## OPTIONAL ACCESSORIES

All Standard-size 4" Chisels and Bits Available:

**420-01**—1/4" diameter. Wt. 8 oz.  
**420-02**—5/16" diameter. Wt. 8 oz.  
**420-03**—3/8" diameter. Wt. 8 oz.  
**420-04**—7/16" diameter. Wt. 10 oz.  
**420-05**—1/2" diameter. Wt. 11 oz.  
**420-06**—9/16" diameter. Wt. 11 oz.  
**420-07**—5/8" diameter. Wt. 12 oz.  
**420-08**—11/16" diameter. Wt. 12 oz.  
**420-09**—3/4" diameter. Wt. 12 oz.

**400-10**—Magnetic 3-phase switch #3-30 & 1-3-32. Wt. 6 lbs.

**400-11**—Magnetic 1-phase switch #1-29 & 1-3-32. Wt. 6 lbs.

**400-12**—1-phase O/L switch #1-23. Wt. 3/4 lb.

**400-13**—3-phase O/L switch #3-27. Wt. 1 lb.

**400-14**—JIC Electricals for 1 or 3-phase. Wt. 20 lbs.

## SPECIFICATIONS

Table \_\_\_\_\_ 6" x 36"  
Table, Lateral Travel \_\_\_\_\_ 4"  
Table, Longitudinal Travel \_\_\_\_\_ 12"  
Tables, Vertical Adjustment \_\_\_\_\_ 14"  
Fence \_\_\_\_\_ 4" x 36"  
Chisel-to-Table Top, maximum \_\_\_\_\_ 14"  
Chisel Center-to-Back Stop, \_\_\_\_\_

maximum \_\_\_\_\_ 4"  
Maximum Stock Width \_\_\_\_\_ 14"  
Range of Depth Stop \_\_\_\_\_ 4"  
Maximum Boring Depth \_\_\_\_\_ 4"  
Maximum Bit Size \_\_\_\_\_ 1/2" shank, 1½"  
Chisel Shank Hole Diameter \_\_\_\_\_ 1½"  
Chisel Bushings Shank Sizes 3/8" & 3/4"

Chuck Capacity \_\_\_\_\_ 1½"  
Motor Speed \_\_\_\_\_ 3600 RPM  
Weight, Net \_\_\_\_\_ 575 lbs.  
Weight, Domestic Crated \_\_\_\_\_ 605 lbs.  
Weight, Export boxed, \_\_\_\_\_  
(82.4 cu. ft.) \_\_\_\_\_ 820 lbs.



# No. 15 Chain Saw Mortiser

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

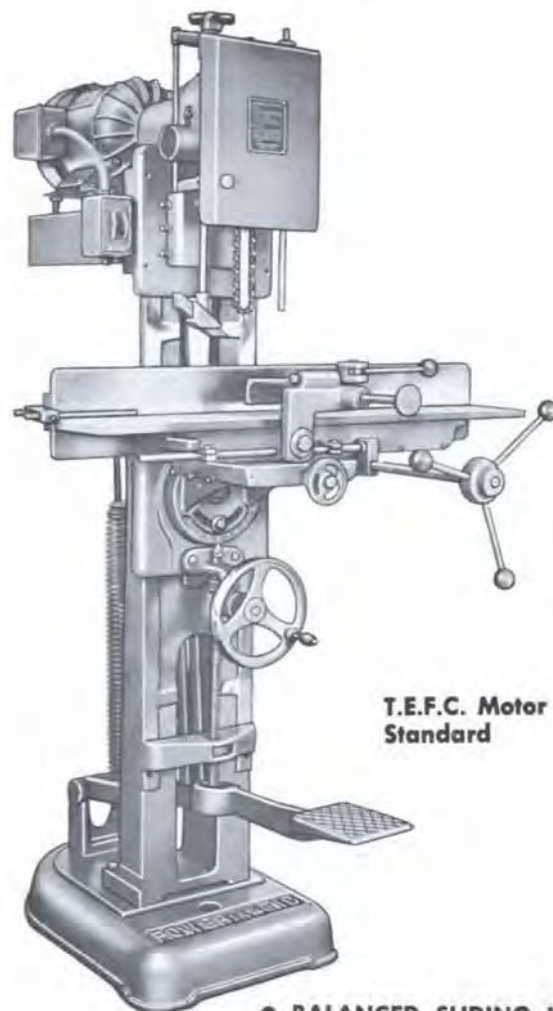
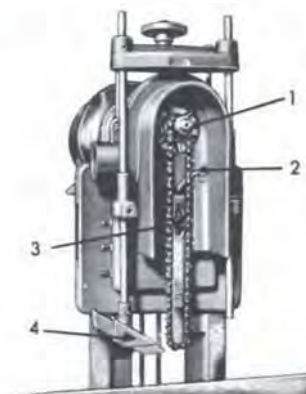
## big capacity . . . to speed production

Here is the ruggedness, versatility and outstanding performance required for every type of mortising operation . . . big or small. The massive balanced sliding head of the Powermatic #15 Chain Saw Mortiser assures smooth-as-velvet action which means superb production accuracy with minimum effort for any operator . . . veteran or novice.

Universal table offers increased flexibility . . . so easy to adjust for any type of cut you desire. Advanced safety features and low operating cost mean extra dollar value and extra production in every shop or plant.

### Simplified Mortiser Head Mechanism

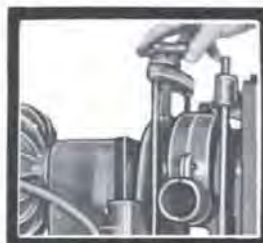
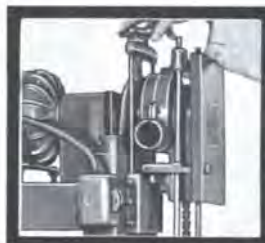
1. Built-in chip blower.
2. Oiler for positive chain lubrication.
3. Block-mounted mortise bar for easy adjustment.
4. Adjustable chipbreaker.



T.E.F.C. Motor Standard

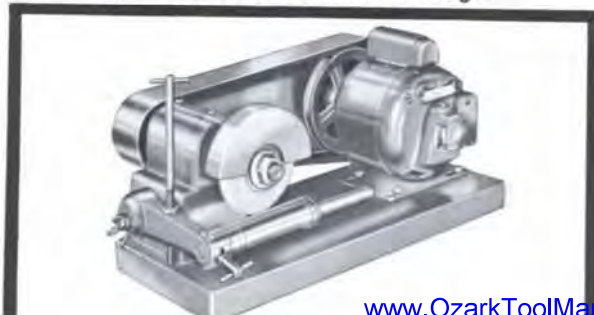
- BALANCED SLIDING HEAD
- UNIVERSAL TABLE
- VERSATILE . . . RUGGED

**Sliding Head** is spring counter-balanced on heavy, rigid machined column with convenient foot pedal control for safe, easy operation.



**Chain Tension Adjustment** is quick and easy. Helps make chain bar and sprocket last much longer. The most important adjustment in mortiser operation.

**Chain Grinder (Optional)** For #15 Mortisers. Specially built for precision chain grinding with absolute uniformity. Grinds correct cutting angle absolutely essential to top quality work and to prevent jumping, binding and excessive chain breakage.



**Quick-Acting Eccentric Clamp** permits fast stock change with complete accuracy in high production operations.



**Rigid Chipbreaker** assures smooth, clean, splinter-free cuts on #15 chain saw mortisers.



## FEATURES

**FRAME:** Perfectly fitted from heavy, reinforced iron castings for extreme rigid support and perfect alignment. Mounted on heavy cast iron base to eliminate annoying vibration.

**TABLE:** Universal style, 6" x 36" with 4" back fence. Compound rack and pinion unit which tilts 45° right or left with a 14" vertical adjustment range operated by convenient, front-mounted hand-wheel. Table may be laterally adjusted up to 4" with hand-wheel.

Stock is held snugly in position with a quick-acting, adjustable eccentric clamp. Front-mounted turret handle operates rack and pinion for full 12" straight-line mortising without unclamping work.

**STROKE:** Maximum range is 4", the deepest cutting depth. Stroke is easily controlled by foot lever through linkage which provides full leverage adjustment. Speeds production and reduces operator fatigue.

**HEAD:** Precision built of cast iron with adjustable gibs.

Runs on extra long, precision machined ways.

**SPINDLE:** 1 3/16" in diameter, mounted in sealed ball bearings. Spindle is driven with shaft coupled directly to motor. A built-in, spindle-mounted fan keeps work clean and free from dust and chips.

**CHAIN:** Equipped with 3/8" x 1 1/2" chain, bar and sprocket mortise set as standard equipment. May be fitted with mortise sets from 1/4" x 3/4" to 3/8" x 3" (available at extra cost).

**LUBRICATION:** Automatic oiler assembly assures constant oil application to chain while machine is in operation. Chain, bar and sprocket last months longer.

**MOTOR:** 1-HP, 3-phase motor is completely sufficient for all light mortising operations, up to 3/8". For heavier mortising, up to 3/4", a 2-HP motor is required. 1 1/2-HP and 2-HP motors are available either 1 or 3-phase.

Motor is controlled with a manually operated switch front-mounted at eye level.

## STANDARD EQUIPMENT

**MORTISER WITH MOTOR:** 3/8" x 1 1/2" mortise set, eccentric stock clamp, work holddowns, clipbreaker, universal table, work stops, wrench set, chipblower, automatic oiler, motor, switch and wiring.

## STANDARD MACHINES

**320-01**—Powermatic #15 Chain Saw Mortiser complete with 3/8" x 1 1/2" mortise set, wrench set and 1-HP, 3-phase motor and switch #3-25.

**320-02**—Same as 320-01 except with 1 1/2-HP, 1-phase motor, switch #1-21, cord and plug.

**320-03**—Same as 320-01 except with 1 1/2-HP, 3-phase

motor, switch #3-25.

**320-04**—Same as 320-01 except with 2-HP, 3-phase motor, switch #3-25.

**320-05**—Same as 320-01 except with 2-HP, 1-phase motor, switch #1-21 cord and plug.

## OPTIONAL ACCESSORIES

**320-10**—1-phase O/L switch #1-23. Wt. 3/4 lb.

**320-11**—3-phase O/L switch #3-27. Wt. 1 lb.

**320-12**—Magnetic 3-phase switch #3-30 & 1-3-32. Wt. 6 lbs.

**320-13**—Magnetic 1-phase switch #1-29 & 1-3-32. Wt. 6 lbs.

**320-14**—JIC Electricals for 1 or 3-phase operation. Wt. 20 lbs.

**320-15**—1/4" x 3/4" x 3" Mortise set including chain, bar and sprocket. Wt. 1 lb.

**320-16**—3/8" x 3/4" x 3" Mortise set including chain, bar and sprocket. Wt. 1 lb.

**320-17**—1/4" x 1" x 3 1/2" Mortise set including chain, bar and sprocket. Wt. 1 lb.

**320-18**—3/8" x 1 1/2" x 4 1/2" Mortise set including chain, bar and sprocket. Wt. 1 1/4 lbs.

**320-19**—1/2" x 1 1/2" x 5" Mortise set including chain, bar and sprocket. Wt. 1 1/2 lbs.

**Other Mortise sets available. Write factory for information.**

**520-01**—Mortise Chain Grinder, less motor.

**520-02**—Mortise Chain Grinder, with motor.

## SPECIFICATIONS

Table.....6" x 36"  
Table, Lateral Travel.....4"  
Table, Longitudinal Travel.....12"  
Table, Vertical Adjustment.....14"  
Fence.....4" x 36"  
Chain-to-Table Top, Maximum.....14"  
Chain Center-to-Back Stop,

Maximum.....4"  
Maximum Stock Width.....14"  
Range of Depth Stop.....5"  
Maximum Cutting Depth.....5"  
Maximum Usable Mortise Set.....3/8" x 3"  
Minimum Usable Mortise Set.....1/4" x 3/4"  
Standard Mortise Set

Furnished.....3/8" x 1 1/2"  
Motor Speed.....3600 RPM  
Weight, Net.....600 lbs.  
Weight, Domestic Crated.....670 lbs.  
Weight, Export boxed,  
(88.5 cu. ft.).....750 lbs.

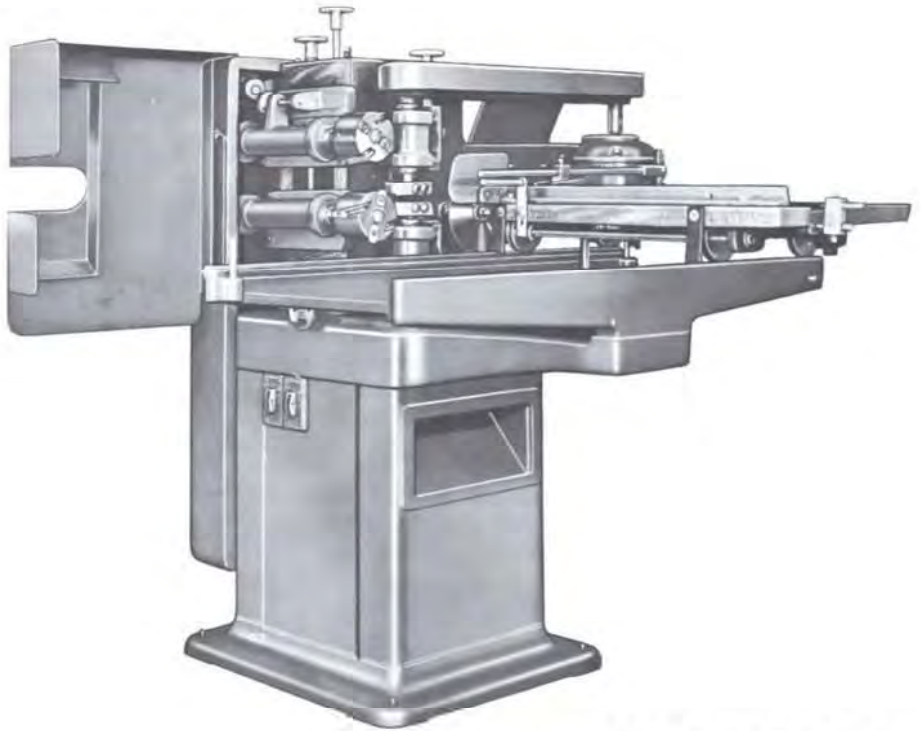


## No. 2-A Single End Tenoner

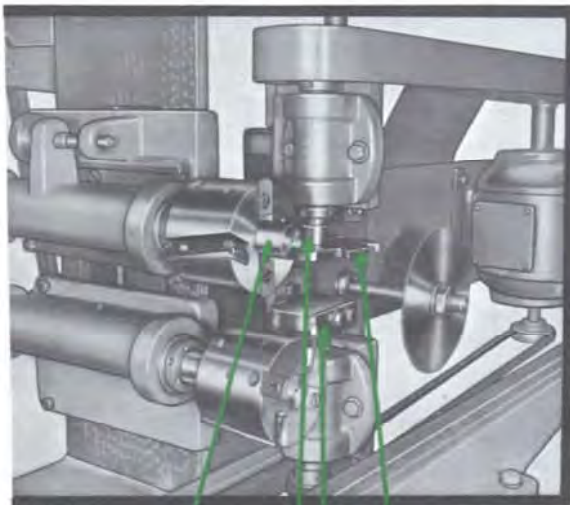
ALL MACHINES PERFORMANCE TESTED BEFORE SHIPMENT

### increase production, lower costs

Stock and style change-over is so fast and simple. Such complete flexibility cuts operating costs at every turn and superior Powermatic construction assures many years of precision, trouble-free operation. The comparatively small initial costs makes the #2-A Powermatic Tenoner just as practical for the smaller millwork, cabinet and pattern shop as for high speed production lines of the wood-working industry.



T.E.F.C. Motor Standard

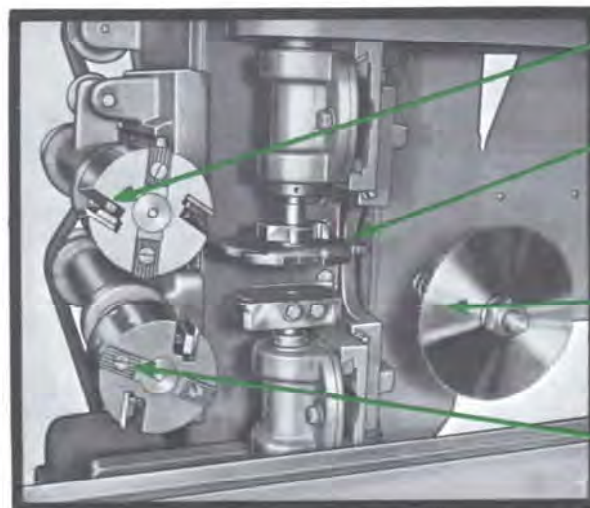


(A) Tenon heads may be easily set to cut off-set shoulders on tenons.

(C) Six-tooth, square check rail slot-cutter on upper cope arbor slots top and bottom stiles accurately.

(B) Cope heads or check rail cutters screw on threaded cope spindles and seat against machined shoulder to insure perfect alignment. Check rail cutter or cope head stiles are easily interchanged.

(D) Pattern-ground cope knives make sash pattern changes fast and simple.



(A) Angle-set high speed tenon knives reduce chipping hazards.

(B) Save production time! Combination check rail cutters perform with tenons in a single stock feed.

(C) Fully adjustable cut-off saw can be set quickly to cleanly trim tenon of any length.

(D) Spur-cutters cut ahead of tenon knives and prevent ragged edges.



## every tenon operation... with true accuracy

**TENON HEADS:** Round type, 3 3/4" in diameter. Both tenon heads may be vertically adjusted. Top tenon head has horizontal adjustment for cutting tenons with offset shoulders. Both heads can be instantly vertically adjusted as a unit to cut an identical tenon when change-over to stock of different thickness is made.

**TENON HEAD SPINDLES:** 1 3/16" in diameter. Mounted in sealed ball bearings.

**TENON HEAD MOTOR:** 2-HP, 3450 RPM motor mounted in base powers tenon heads through two double section V-belts.

**COPE:** (Optional) Equipped with dual carbon tool steel knives. Both heads may be individually adjusted vertically and horizontally.

**COPE HEAD SPINDLES:** 3/4" in diameter and mounted in sealed ball bearings. Spindle ends are threaded to accommodate solid steel cutters (for cutting check rail slots up to 6") or any style pattern cutters.

**COPE MOTOR:** (Optional) 1-HP, 3450 RPM motor powers cope spindles through dual V-belt drive.

**CUT-OFF SAW:** Blade 7" in diameter, mounted on shaft equipped with sealed ball bearings. Driven at 5000 RPM by special V-belt from tenon head motor.

**FRAME:** Heavy cast iron construction, mounted on cast iron base with heavy reinforced steel side panels and guards.

**GUARDS:** Heavy reinforced welded steel construction. Easily detachable for quick access.

**CARRIAGE:** Perfectly balanced for finger-tip control. Mounted on double rollers for speed and accuracy. Moves securely on precision-ground ways assuring perfect alignment with all cutters.

**CONTROLS:** Both motors have separate controls for individual operation of tenon or cope heads. Motors furnished complete with switches.

**CAPACITY:** 3" with tenon and cope heads fully open. Maximum tenon 3" thick, 3" long, 13" wide.

### STANDARD EQUIPMENT

**TENONER, Less Copes:** Tenon heads, complete with knives, shims and spur cutters, 2 HP tenon motor, cut-off saw, switch, belts, guards and motor pulleys. Ready to run.

**TENONER, With Copes:** Tenon heads, complete with knives, shims and spur cutters, cope heads with one set blank knives, 2 HP tenon and 1 HP cope motor, cut-off saw, switches, bolts, guards and motor pulleys. Ready to run.

### STANDARD MACHINES

**280-01—2-A Single-end Tenoner without Cope Heads and Cope Motor.** Equipped with 2-HP, 3-phase Tenon Head Motor and Switch #3-25.

**280-02—Same as 280-01, except with 2-HP, 1-phase Tenon Head Motor and Switch #1-21.**

**280-03—#2-A Single-end Tenoner including Cope Heads with 1-HP Cope Motor and 2-HP Tenon Head Motor.** Both motors 3-phase. Complete with switches #3-25.

**280-04—Same as 280-03, except for 1-phase operation.**

### OPTIONAL ACCESSORIES

**280-10—Tenon Head, less knives (Specify upper or lower).** Wt. 15 lbs.

**280-11—Cope Head, less knives (Specify upper or lower).** Wt. 4 lbs.

**280-12—Cope Knives (Specify upper or lower).** Wt. 4 1/2 lbs.

**280-13—Tenon Knives (Specify upper or lower).** Wt. 8 oz.

**280-14—Spur Cutters.** Wt. 8 oz.

**280-15—Tenon Belts (2 required) AA75.** Wt. 8 oz.

**280-16—Cope Belts (2 required) 4L560.** Wt. 8 oz.

**280-17—Pattern ground cope knives.** Wt. 8 oz.

**280-18—1-phase O/L switch #1-23. (2 required).** Wt. 3/4 lb.

**280-19—3-phase O/L switch #3-27. (2 required).** Wt. 1 lb.

**280-20—Magnetic 1-phase switch #1-29 & 1-3-32. (2 required).** Wt. 6 lbs.

**280-21—Magnetic 3-phase switch #3-30 & 1-3-32. (2 required).** Wt. 6 lbs.

### SPECIFICATIONS

Tenon Heads.....3" x 3 3/4"  
Tenon Spindles.....1 3/16" dia.  
Cope Spindles.....3/4" dia.  
Cutoff saw.....7" dia.  
Maximum Tenon cut.....3" thick,  
3" long, 13" wide  
Motors recommended:  
Tenon Head.....2-HP 3450 RPM

Cope Head.....1-HP 3450 RPM  
Recommended speed of Tenon  
and Cope heads.....3450 RPM  
Recommended speed of  
cutoff saw.....5000 RPM  
Weight, Net, less copes.....950 lbs.  
Weight, Net, with copes.....1045 lbs.  
Weight, Domestic crated,

less copes.....980 lbs.  
Weight, Domestic crated,  
with copes.....1145 lbs.  
Weight, Export Boxed,  
less copes (84.5 cu. ft.).....1400 lbs.  
Weight, Export Boxed,  
with copes (84.5 cu. ft.).....1500 lbs.



## MODEL 1150 15" DRILL PRESS

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

**CHANGE SPEED INSTANTLY . . .  
CHECK SPEED INSTANTLY**  
Powermatic's New Variable Speed  
Model WITH QUIK-SET SPEED  
SELECTOR AT EYE-LEVEL

No belts to handle when you change spindle speed! Just a twist of the accurately-calibrated variable speed control lets you choose speed instantly while machine runs.

Complete speed range (low to high) in one model. 475 to 4800 RPM increases accuracy and bit life in all drilling operations.

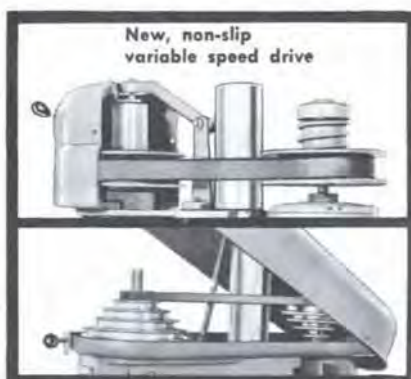
*single units or  
multiples...for  
every application*



**NOW—  
STANDARD EQUIPPED  
WITH A FULL  
6" STROKE!**



T.E.F.C. Motor  
Standard



New, non-slip  
variable speed drive

**FIVE-SPEED STEP PULLEY MODEL  
WITH EXCLUSIVE 'SNAP-OPEN'  
SPRING LOADED GUARD**

New, economy price makes this model very popular with smaller shops, schools and maintenance shops. Built with the same care and precision as the variable speed model, this powerful machine offers years of heavy-duty performance in the most common drill applications.

### SPECIFICATIONS

Spindle; carbon steel.....	10-spline, #2 Morse Taper or 0-1/2" Jacobs Chuck
Spindle travel .....	6"
Quill diameter .....	2 3/16"
Column diameter.....	3" O.D.
Column length, floor model.....	62"
Column length, bench model.....	37 1/2"
Column, Wall thickness.....	3/16"
Table working surfaces:	
Utility table .....	10" x 11"
Tilting table.....	10" x 14"
Production table.....	12" x 18"
Base working surface.....	8 1/2" x 12"
Capacity in cast iron.....	1/2"

Throat depth.....	Drills to center of 15" dia.
Spindle speed, variable model.....	475 to 4800 RPM
Spindle speed, step pulley model.....	400, 840, 1580, 2800, 5300
Bearings.....	(4) Sealed ball type
Drives, available.....	Variable or 5-step pulley
Height, floor model.....	62"
Height, bench model.....	37 1/2"
Weight, Net, bench model.....	245 lbs.
Weight, Net, floor model.....	310 lbs.
Weight, Domestic crated, bench model.....	230 lbs.
Weight, Domestic crated, floor model.....	385 lbs.
Weight, Export boxed, bench model (23.4 cu. ft.).....	425 lbs.
Weight, Export boxed, floor model (35 cu. ft.).....	560 lbs.



## HOW TO ORDER FLOOR AND BENCH MODELS

Variable— $\frac{1}{4}$ -HP Motor • 5-Speed— $\frac{1}{2}$ -HP Motor

Spindle & Motor Specs.	Utility Table Floor Model		Tilting Table Floor Model		Tilting Table Bench Model ★★		Production Table Floor Model ★		Production Table Bench Model ★★	
	Variable	Step Pulley	Variable	Step Pulley	Variable	Step Pulley	Variable	Step Pulley	Variable	Step Pulley
#2 Morse Taper 1-Phase	1150-01	1150-02	1150-03	1150-04	1150-05	1150-06	1150-07	1150-08	1150-09	1150-10
#2 Morse Taper 3-Phase	1150-11	1150-12	1150-13	1150-14	1150-15	1150-16	1150-17	1150-18	1150-19	1150-20
Key Chuck 1-Phase	1150-21	1150-22	1150-23	1150-24	1150-25	1150-26	1150-27	1150-28	1150-29	1150-30
Key Chuck 3-Phase	1150-31	1150-32	1150-33	1150-34	1150-35	1150-36	1150-37	1150-38	1150-39	1150-40
#2 Morse Taper Less Motor	1150-51	1150-41	1150-53	1150-42	1150-55	1150-43	1150-57	1150-44	1150-59	1150-45
Key Chuck Less Motor	1150-52	1150-46	1150-54	1150-47	1150-56	1150-48	1150-58	1150-49	1150-60	1150-50

★ Table Raising Mechanism Standard Equipment

★★ Head Raising Mechanism Standard Equipment

NOTE: Variable speed machines priced less motor for exchange purposes. Not available less motor.

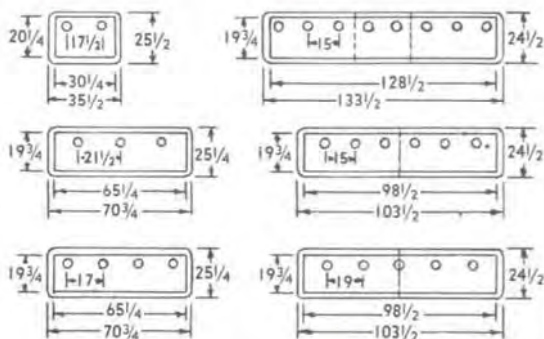
## MULTIPLE SPINDLE MODELS

Standard Equipped with Head Raising Mechanism and Legs

Spindle & Motor Specs.	2-Spindle		3-Spindle		4-Spindle		5-Spindle		6-Spindle		8-Spindle	
	Variable	Step Pulley	Variable	Step Pulley	Variable	Step Pulley	Variable	Step Pulley	Variable	Step Pulley	Variable	Step Pulley
#2 Morse Taper 1-Phase	1150-301	1150-302	1150-303	1150-304	1150-305	1150-306	1150-307	1150-308	1150-309	1150-310	1150-311	1150-312
#2 Morse Taper 3-Phase	1150-313	1150-314	1150-315	1150-316	1150-317	1150-318	1150-319	1150-320	1150-321	1150-322	1150-323	1150-324
Key Chuck 1-Phase	1150-325	1150-326	1150-327	1150-328	1150-329	1150-330	1150-331	1150-332	1150-333	1150-334	1150-335	1150-336
Key Chuck 3-Phase	1150-337	1150-338	1150-339	1150-340	1150-341	1150-342	1150-343	1150-344	1150-345	1150-346	1150-347	1150-348
#2 Morse Taper Less Motor	1150-001	1150-349	1150-003	1150-350	1150-005	1150-351	1150-007	1150-352	1150-009	1150-353	1150-011	1150-354
Key Chuck Less Motor	1150-002	1150-355	1150-004	1150-356	1150-006	1150-357	1150-008	1150-358	1150-010	1150-359	1150-012	1150-360



# Model 1150 15" Drill Press



Jacobs Chuck . . . 0-1/2" Jacobs chuck complete with key.

Part No. 1150-207



Mounting Flange . . . Available for special installations.

Part No. 1150-113



Lamp . . . A valuable aid in precise work.

Part No. 1150-213

## CHOOSE FROM THREE SPECIALLY-DESIGNED TABLES



Pump and Tank—Part No. 1520. Coolant Parts Assembly—Part No. 1521.

Centrifugal action . . . delivers large volume of liquid at low pressure . . . seals and bearings above liquid . . . Flow may be controlled or shut off without damage to motor . . . Coolant parts assembly: nozzle, valve, column mounting clamp and flexible hose, coolant piping and table clamps.



Utility Table affords completely rigid and level 10 x 11" working surface. Slotted for easy attachment of accessories.

Part No. 1150-114



Tilting Table tilts 90° right or left for any angle boring job. Provides 10" x 14" working surface slotted for accessories.

Part No. 1150-115



Production Table w/Raising Mechanism provides extra large 12" x 18" working surface, precision machined for extra drilling accuracy.

Part No. 1150-117

## Optional Accessories Speed Up Specialized Drilling Operations

**Mortising Attachment** securely positions stock for all mortising operations.



Part No. 1150-200

**Straight Vise** with accurately machined faces locks stock securely. Available in 1 3/8", 2 1/2" and 3" capacities.



Part No. 1150-204

**Tilting Vise**, with precision machined faces, is quickly adjustable for drilling stock at virtually any angle.



Part No. 1150-203

**Hollow Chisels And Bits** available for every specialized mortising application. Choose from 1/4", 3/8" and 1/2" sizes.



**Table And Head-Raising Mechanism** is quick, positive... easily operated crank operates worm gear on column rack.



Part No. 1150-201  
Part No. 1150-201A

**Spring-Balanced Foot Feed** with depth-stop frees operators hands for unusual drilling jobs.

Part No. 1150-202



## MODEL 1150

### 15" DRILL PRESS

#### HOW TO ORDER COMPLETE HEADS

- 1150-101**—Head assembly, 5-speed, key chuck, complete with ½-HP, single phase T.E.F.C. motor and switch, motor pulley and belt.
- 1150-102**—Head assembly, 5-speed, key chuck, complete with ½-HP three phase T.E.F.C. motor and switch, motor pulley and belt.
- 1150-103**—Head assembly, 5-speed, #2 Morse taper, complete with ½-HP single phase, T.E.F.C. motor and switch, motor pulley and belt.
- 1150-104**—Head assembly, 5-speed, #2 Morse taper, complete with ½-HP three phase, T.E.F.C. motor and switch, motor pulley and belt.
- 1150-105**—Head assembly, variable speed, key

chuck, complete with ¾-HP single phase, T.E.F.C. motor and switch, motor pulley and belt.

- 1150-106**—Head assembly, variable speed, key chuck, complete with ¾-HP three phase, T.E.F.C. motor and switch, motor pulley and belt.

- 1150-107**—Head assembly, variable speed, #2 Morse taper, complete with ¾-HP, single phase, T.E.F.C. motor and switch, motor pulley and belt.

- 1150-108**—Head assembly, variable speed, #2 Morse taper, complete with ¾-HP, three phase, T.E.F.C. motor and switch, motor pulley and belt.

#### LIMA DRIVE

- 1150-400**—Same as 1150-01 except with ¾-HP, 3-phase, 1800 RPM lima gear drive motor, Spindle speeds from 150 to 4800 RPM.
- 1150-401**—Same as 1150-400 except with 1-phase motor.
- 1150-402**—Same as 1150-01 except with ¾-HP, 3-phase, 1100 RPM lima gear drive motor, Spindle speeds from 88 to 4600 RPM.

- 1150-403**—Same as 1150-402 except with 1-phase motor.

- 1150-404**—Same as 1150-02 except with ¾-HP, 3-phase, 1100 RPM lima gear drive motor, Spindle speeds from 96 to 3498 RPM.

- 1150-405**—Same as 1150-404 except with 1-phase motor.

#### TWO SPEED MOTOR

- 1150-406**—Same as 1150-01 except with 1-HP, 3-phase, two speed motor, Spindle speeds

from 232 to 4800 RPM.

#### MULTIPLE SPINDLE TABLES AND STEEL SUPPORT LEGS

- 1150-120**—Production table 20¼" x 30¼" (accommodates one and two spindles).
- 1150-121**—Production table 19¾" x 65¼" (accommodates three and four spindles).
- 1150-122**—Production table 19¾" x 98½" (accommodates five and six spindles).
- 1150-123**—Production table 19¾" x 128½" (accommodates seven and eight spindles).

- 1150-124**—20" x 30" center section (accommodates 2 spindles) for making eight spindle table.

- 1150-125**—Legs, steel, 27½" high for mounting production tables.

- 1150-126**—Spindle assembly with Jacobs chuck, complete with bearing. Wt. 8 lbs., 3 oz.

#### OPTIONAL ACCESSORIES

- 1150-109**—Base for single spindle floor model. Wt. 60 lbs.
- 1150-110**—Column, floor model, 62". Wt. 31 lbs.
- 1150-111**—Column, multiple spindle, 37". Wt. 19 lbs.
- 1150-112**—Safety collar for head or table. Wt. 2 lbs, 4 oz.
- 1150-113**—Flange for mounting column on table. Wt. 9 lbs., 8 oz.
- 1150-114**—Utility table 10" x 11". Wt. 29 lbs., 8 oz.
- 1150-115**—Tilting table 10" x 4". Wt. 33 lbs.
- 1150-116**—Production table for bench model, 14½" x 16" working surface. Wt. 87 lbs.
- 1150-117**—Production table with raising mechanism for floor model, 12" x 18". Wt. 79 lbs.
- 1150-118**—Spindle assembly, #2 Morse taper complete with bearings. Wt. 7 lbs.
- 1150-119**—Spindle assembly, #33 taper, without Jacobs chuck, complete with bearings. Wt. 7 lbs.
- 1150-126**—Spindle assembly, with Jacob chuck, complete with bearings. Wt. 8 lbs., 3 oz.
- 1150-200**—Mortise attachment, complete with hold-down. Wt. 11 lbs.
- 1150-201**—Raising mechanism for head. Wt. 14 lbs., 4 oz.
- 1150-201A**—Raising mechanism for utility & tilting table. Wt. 14 lbs., 4 oz.
- 1150-202**—Foot Feed. Wt. 31 lbs., 8 oz.
- 1150-203**—Angle vise, 2½" capacity. Wt. 9 lbs.
- 1150-204**—Straight vise, 2½" capacity. Wt. 6 lbs.
- 1150-205**—Straight vise, 3" capacity. Wt. 7 lbs.

- 1150-207**—0 to ½" chuck. Wt. 1 lb., 6 oz.

- 1150-208**—¼" Hollow chisel and bit. Wt. 5 oz.

- 1150-209**—⅜" Hollow chisel and bit. Wt. 5 oz.

- 1150-210**—½" Hollow chisel and bit. Wt. 7 oz.

- 1150-211**—3-wire, 8 ft. cord, with attachment plug.

- 1150-212**—4-wire, 8 ft. cord, with attachment plug.

- 1150-213**—Work lamp. Wt. 10 oz.

- 1150-214**—Magnetic 1-phase switch, #1-29 and 1-3-32. Wt. 6 lbs.

- 1150-215**—Magnetic 3-phase switch, #3-30 and 1-3-32. Wt. 6 lbs.

- 1150-216**—JIC electricals for 1 or 3-phase operation. Wt. 20 lbs.

- 1150-217**—1-phase O/L switch #1-24. Wt. 2 lbs.

- 1150-218**—3-phase O/L switch #3-28. Wt. 3 lbs.

- 1150-218A**—Pushbutton 1-ph. switch #1-22. Wt. 7 lbs.

- 1150-218B**—Pushbutton 3-ph. switch #3-26. Wt. 7 lbs.

- 1150-219**—Magnetic starter, 3-phase w/built-in 110-volt transformer wired to pushbutton. Wt. 19 lbs.

- 1150-220**—O/L Switch for ½, ¾ and 1-HP.

- 1150-221**—1100 RPM motor, ¾-HP, 3-phase, #3431

- 1150-222**—Same as 1150-221, except single phase, #1211.

- 1520**—Coolant Pump and Tank. Wt. 37 lbs.

- 1521**—Coolant parts assembly, consisting of: nozzle, valve, column mounting clamp and hose assembly. Wt. 10 lbs.



# MODEL 1150 15" DRILL PRESS WITH EXTRA LARGE TABLE

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

Specifically designed for the pattern, machine shop and maintenance department operator requiring extra large working surface. Huge tables, 26" x 36", make the most difficult drilling operation one of ease and speed. Choose a unit from one of the many different-speed heads to meet your exacting requirements. The unique vari-drive or step-pulley models offers the versatility and flexibility demanded most in industry.

## SPECIFICATIONS

### Spindle Speeds:

Variable speed models: High Speed  
(with 1725 RPM Motor) 475-4800 RPM  
Two Speed Motor 232-4800 RPM  
Step-pulley models:  
High Speed 400, 840, 1580, 2800, 5300  
(with 1725 RPM Motor)

Quill Diameter 2-3/16"  
Stroke 6"  
Column Diameter 3"  
Column Wall Thickness 1/4"  
Column Length (standard) 37 1/2"  
Largest Dia. Hole in Cast Iron 1/2"  
Largest Dia. Hole in Steel 3/8"  
Weight, Net 516 lbs.  
Weight, Domestic Crated 636 lbs.  
Table Working Surface 20" x 30"  
Max. Distance, Spindle Nose to  
Table (with Standard Column) 21 3/4"  
Max. Distance, Key Chuck to Table  
(with Standard Column) 21 1/4"



T.E.F.C. Motor  
Standard

## STANDARD MACHINES

- \*1150-407 Variable Speed, 3/4 HP, 3-ph.
- \*1150-409 Step Pulley, 1/2 HP, 3-ph.
- \*1150-411 Same as 1150-407, except with  
two-speed motor. 1 HP, 3-ph.  
Single voltages only—220 or 440.

- \*1150-408 Variable Speed, 3/4 HP, 1-ph.
- \*1150-410 Step Pulley, 1/2 HP, 1-ph.
- \*NOTE: If Morse Taper desired in lieu of key  
chuck, please specify.



ALSO AVAILABLE  
WITH MODEL 1200  
20" DRILL HEADS  
See Special Literature  
Sheet at Your Dealer

**OPTIONAL EQUIPMENT**—Full length  
T-slots provide positive locking for  
large drill jigs and fixtures for high  
production operations.

Model 1150-120-A



**Satisfaction Guaranteed**  
**All Parts Replaceable**  
**at Low Cost.**



**Blades easily**  
**resharpened.**



## POWERMATIC Adjust-A-Drills cut clean accurate holes!

### No. 1 Adjust-A-Drill

Cuts holes  $\frac{3}{8}$ " to  $1\frac{1}{2}$ " diameter.  $\frac{1}{4}$ " pilot drill and shank. Complete with one long and one short blade and adjustment wrench.

### No. 2 Adjust-A-Drill

Cuts holes 1" to  $2\frac{1}{2}$ " diameter.  $\frac{3}{8}$ " pilot drill and shank. Complete with one long and one short blade and adjustment wrench.

### No. 3 Adjust-A-Drill

Cuts circles to 6" diameter— $\frac{3}{4}$ " deep.  $\frac{3}{8}$ " pilot drill and shank. Complete with one blade and adjustment wrench.

### No. 123 Set

**HOLE CUTTING SET . . .** Here is the full line of famous Adjust-A-Drills for hole-cutting. The same durable, top-quality tools you have used in the past, now convenience-boxed for full-range hole sizes,  $\frac{3}{16}$ -inch to 6-inches in diameter.

## "E-Z" BORE Machine Bits

Powermatic "E-Z" Bore Machine Bits are designed to permit easy boring of deep or shallow holes in all kinds of wood. Made from the finest tool steel expertly heat treated to produce keen, long lasting cutting edges. Length of pilot can be adjusted from flat bottom holes to  $\frac{3}{8}$ " for straight alignment even when used with portable tools.



**Pilot Drill**  
**NOT included in**  
**price of Cutterheads.**

### ORDERING INFORMATION

Cat. No.	Size	Cat. No.	Size
658	$\frac{5}{8}$ "	8214	$2\frac{1}{4}$ "
634	$\frac{3}{4}$ "	8238	$2\frac{3}{8}$ "
678	$\frac{7}{8}$ "	8212	$2\frac{1}{2}$ "
610	1"	8258	$2\frac{5}{8}$ "
*6514	$\frac{1}{4}$ " diameter	8234	$2\frac{3}{4}$ "
x $5\frac{1}{2}$ " drill to fit		8278	$2\frac{7}{8}$ "
any above Series		8300	3"
600 Cutters.		*7512	$\frac{1}{2}$ " diameter
7118	$1\frac{1}{8}$ "	x $5\frac{1}{2}$ " drill to fit	
7114	$1\frac{1}{4}$ "	any Series 700 or	
7138	$1\frac{3}{8}$ "	800 Round cutter-	
7112	$1\frac{1}{2}$ "	heads.	
7158	$1\frac{5}{8}$ "	Cutterheads in $\frac{1}{8}$	
7134	$1\frac{3}{4}$ "	sizes can be fur-	
7178	$1\frac{7}{8}$ "	nished at same	
8200	2"	price as next larger	
8218	$2\frac{1}{8}$ "	size, Plus \$1.00.	

## Adjustable COUNTERSINK

All  $\frac{1}{2}$ " O.D.

Cat. No.	Size
40	$\frac{1}{8}$ "
41	$\frac{3}{32}$ "
42	$\frac{7}{16}$ "
43	$\frac{1}{32}$ "
44	$\frac{1}{4}$ "
45	Set of five



## COMBINATION COUNTERSINK & COUNTERBORES

### Flat Bottom Counterbore

Cat. No.	Drill Size
60	$\frac{1}{8}$ "
61	$\frac{3}{32}$ "
62	$\frac{7}{16}$ "
63	$\frac{1}{32}$ "
64	$\frac{1}{4}$ "
65	Set of 5



### Combination Countersink- Counterbore

Cat. No.	Drill Size
50	$\frac{1}{8}$ "
51	$\frac{3}{32}$ "
52	$\frac{7}{16}$ "
53	$\frac{1}{32}$ "
54	$\frac{1}{4}$ "
55	Set of 5



**STOP COLLAR—Special "CHIP CLEARING" Type** (Permits unrestricted chip clearance when used with any of the above tools). May be ordered separately.

Catalog No.	I.D. Size	O.D. Size
46	$\frac{1}{2}$ "	1"

### No. 75 Set

**NOW, THE RIGHT TOOL AT YOUR FINGER TIPS!** Remember how often you have wasted time (and patience) looking for that right-size countersink or counterbore? It's always at the very bottom of your tool kit or cabinet drawer . . . isn't it? Now you can say good-bye to these exasperating "treasure hunts." This new Powermatic Set serves up the right cutter at the right time . . . at your finger tips when you want it.



### HOLLOW CHISELS AND BITS

Available for every specialized mortising application. Choose from  $\frac{1}{4}$ ",  $\frac{3}{8}$ " and  $\frac{1}{2}$ " sizes.





# Model 2100 Pedestal and Bench Grinders

ALL MACHINES PERFORMANCE-TESTED BEFORE SHIPMENT

choose from 10 models for  
precision grinding

## FEATURES

**TOOL RESTS:** Easy to adjust and lock at all vertical and lateral angles for full flexibility.

**SHAFTS:** Mounted in over-size sealed ball bearings for smooth, dependable performance

**GUARDS:** Heavy-gauge steel construction. Easy to remove for wheel changing.

**SPARK SHIELDS:** For safety and visibility. Easily adjustable to wear of wheels.

**MOTOR:** Totally enclosed for long life and maximum safety. ½, ¾, 1 and 2-HP, 1 or 3-phase available.

When ordering be sure to also specify voltage.



Note: Eyeshields are not standard equipment.

## STANDARD MACHINES

**2100-21—BENCH GRINDER** complete with steel guards, 2 spark shields, 2 adjustable tool rests, 2 wheels (1 coarse, 1 fine), toggle-switch in base, cord and totally enclosed ½-HP, 1-phase, 115 or 230-volt (specify), 1725 RPM motor.

**2100-22**—Same as 2100-21 except with ½-HP, 3-phase, 220 or 440-volt (specify) 1725 RPM motor.

**2100-23**—Same as 2100-21, except with ¾-HP, 1-phase, 115 or 230-volt (specify) 3450 RPM motor.

**2100-24**—Same as 2100-21, except with ¾-HP, 3-phase, 220 or 440-volt (specify) 3450 RPM motor.

**2100-27**—Same as 2100-21, except with ½-HP, 1-phase, 115 or 230-volt (specify) 3450 RPM motor.

**2100-28**—Same as 2100-21, except with 1-HP, 1-phase, 115 or 230-volt (specify) 1725 RPM motor.

**2100-29**—Same as 2100-21, except with ½-HP, 3-phase, 220 or 440-volt (specify) 3450 RPM motor.

**2100-30**—Same as 2100-21, except with 1-HP, 3-phase, 220 or 440-volt (specify) 1725 RPM motor.

**2100-25—PEDESTAL GRINDER** complete with steel guards, 2 spark shields, 2 adjustable tool rests, rigid cast iron pedestal, with tool tray and water pot, overload protected toggle-switch in base, cord and totally enclosed 2-HP, 3-phase, 208, 220 or 440-volt (specify) 1725 RPM motor. **WHEELS NOT INCLUDED.**

**2100-26**—Same as 2100-25, except with 2-HP, 1-phase, 115 or 230-volt (specify) 1725 RPM motor.

## OPTIONAL ACCESSORIES

**2100-31**—Steel Pedestal complete with tool rest and water pot for ½, ¾ and 1-HP grinders. Wt. 51 lbs.

**2100-32**—Set of two 12" x 2" grinding wheels. (1 coarse, 1 fine.) Wt. 19½ lbs.

**2100-32A**—Set of two 10" x 1" grinding wheels. (1 coarse, 1 fine.)

**2100-32B**—Set of two 8" x 1" grinding wheels. (1 coarse, 1 fine.)

**2100-32C**—Set of two 7" x 1" grinding wheels. (1 coarse, 1 fine.)

**2100-33**—Set of two shatterproof eye shields. Wt. 2½ lbs.

**2100-34**—Set of two shatterproof eye shields, illuminated type. Wt. 7 lbs.

**2100-35**—Pedestal complete with tool rest and water pot for 2-HP

**2100-36**—1-phase O/L switch #1-23. Wt. ¾ lb.

**2100-37**—3-phase O/L switch, #3-27. Wt. 3 lbs.

**2100-38**—Magnetic 1-phase switch, #1-29 and 1-3-32. Wt. 6 lbs.

**2100-39**—Magnetic 3-phase switch, #3-30 and 1-3-32. Wt. 6 lbs.

**2100-40**—JIC electricals for 1 or 3-phase operation. Wt. 20 lbs.

**2100-41**—Plane blade grinding attachment. Wt. 7 lbs.

## SPECIFICATIONS

Model No.	Power Rating	Speed RPM	Distance between Wheels	Wheel Diameter	Shaft Diameter
2100-21, 22	½-HP	1750	14¾"	7" x 1"	⅝"
2100-27, 29	½-HP	3450	16¼"	7" x 1"	⅝"
2100-23, 24	¾-HP	3450	16¼"	8" x 1"	⅝"

WEIGHT:	½-HP	¾-HP	1-HP	2-HP
Net, bench model	61	89	130	246
Net, pedestal model	132	141	180	412
Domestic crated, bench model	71	109	140	276

Model No.	Power Rating	Speed RPM	Distance between Wheels	Wheel Diameter	Shaft Diameter
2100-28, 30	1-HP	1725	17⅞"	10" x 1"	⅞"
2100-25	2-HP	1725	20½"	12" x 2"	1¼"
2100-26	2-HP	1725	27¼"	12" x 2"	1¼"

WEIGHT:	½-HP	¾-HP	1-HP	2-HP
Domestic crated, pedestal model	197	206	250	487
Export boxed, bench model	71	115	152	261
Export boxed, pedestal model	186	266	319	557



## MODEL 2300 GRINDER



### SPECIFICATIONS

Four sealed spindle bearings	
Overall length	32"
Shaft length	27"
Distance between centers	24"
Overall height	16½"
Wheels	7 x 1 x 5/8"—36 & 60 grit
Wheel guards: round 3" dust vents	
CSA and UL approved	
Motor: ½ HP, 115/230 volt, capacitor start, 1725 or 3450 RPM	
Shipping weight	94 lbs.

### STANDARD MODELS

- 2300-01** ½ HP, single phase, 115/230 volt, 1725 RPM, bench model grinder, complete with all standard equipment.
- 2300-02** ½ HP, single phase, 115/230 volt, 3450 RPM, bench model grinder, complete with all standard equipment.

### OPTIONAL EQUIPMENT

- 2300-10** Chisel and plane blade grinding attachment
- 2300-11** Steel pedestal for floor mounting
- 2300-12** Magnetic controls, 115/230 volt, single phase

This precision, adjustable diamond grinding wheel dresser reduces grinding time, increases the performance of cutting tools and grinders, and restores the true balance of the wheel.

Rotation of spindle with angle on tool keeps diamond sharp for long life.



ACCESSORY  
Part No. 2100-42  
Part No. 2200-42

## GRINDING WHEEL DRESSERS



Adjustable friction on spindle, for fine adjustment, to feed diamond in or out. No set screws or nuts to lock or unlock spindle each time diamond is fed in or out.

Sliding bracket is adjustable for different sizes of grinders and tool rests. Sides of grinding wheels may be dressed by moving bracket to fit side of tool rest. Bracket fits in "T"-slot of carbide tool rest.





## SINGLE PHASE MOTORS (Less Controls)

Catalog No.	HP	RPM	Volts	Cycles	Shaft	Frame	Type	Usage
1317	1/2	1725	115/230	60	5/8	Double 56	TEFC	Scroll Saw
1217	1/2	1725	115/230	60	5/8	56	TEFC	15" Drill-B & D Sander
1213	1/2	3450	115/230	60	5/8	56	TEFC	45 Lathe-14" W-M Saw
3417	3/4	1725	115/230	60	5/8	56	TEFC	6" Jointer
3413	3/4	3450	115/230	60	5/8	56	TEFC	15" Drill-45 Lathe
1017	1	1725	115/230	60	5/8	56	TEFC	6" & 8" Jointer
								15" & 20" Drill
								or B & D Sander
1013	1	3450	115/230	60	5/8	56	TEFC	90 Lathe (K & M only)
1517	1 1/2	1725	116/230	60	7/8	182	TEFC	6" & 8" Jointer
								20" M-W Band Saw
1513	1 1/2	3450	115/230	60	7/8	182	TEFC	20" Drill
								8" Jointer-Shaper
2017	2	1725	115/230	60	1 1/8	213	TEFC	12" Planer-15 Mortiser*
2013	2	3450	115/230	60	7/8	184	TEFC	20" M-W Band Saw
								12" Planer-Shaper
3013	3	3450	115/230	60	1 1/8	213	TEFC	Model 71-15 Mortiser
5013	5	3450	115/230	60	1 1/8	215	TEFC	12" T.A. Saw (Model 71)
SPECIAL MOTORS								16" 18" 20" 24" Planer
1513C	1 1/2	3450	115/230	60	5/8	56	TEFC	C Flange 10" T.A. Saw
2013C	2	3450	115/230	60	5/8	56	TEFC	C Flange 10" T.A. Saw
3013C	3	3450	115/230	60	5/8	56	TEFC	C Flange 10" & 12" T.A. Saw
1011	1	1100	115/230	60	7/8	213	TEFC	20" Drill Press
1511	1 1/2	1100	115/230	60	7/8	215	TEFC	20" Drill Press
3411	3/4	1100	115/230	60	5/8	56	TEFC	15" Drill Press

NOTE: When ordering, specify machine motor is to be used on.

## THREE PHASE MOTORS (Less Controls)

Catalog No.	HP	RPM	Volts	Cycles	Shaft	Frame	Type	Usage
1337	1/2	1725	220/440	60	5/8	Double 56	TEFC	Scroll Saw
1237	1/2	1725	220/440	60	5/8	56	TEFC	15" Drill-B & D Sander
								45 Lathe-14" M-W
1233	1/2	3450	220/440	60	5/8	56	TEFC	Band Saw
3437	3/4	1725	220/440	60	5/8	56	TEFC	6" Jointer
3433	3/4	3450	220/440	60	5/8	56	TEFC	45 Lathe-B & D Sander
1037	1	1725	220/440	60	5/8	56	TEFC	14" M-W Band Saw
								6" & 8" Jointer
								15" & 20" Drill
								or B & D Sander
1033	1	3450	220/440	60	5/8	56	TEFC	90 Lathe-20" Band Saw
1537	1 1/2	1725	220/440	60	7/8	182	TEFC	6" & 8" Jointer
1533	1 1/2	3450	220/440	60	7/8	182	TEFC	Shaper-15 Mortiser*
2033	2	3450	220/440	60	7/8	182	TEFC	20" M-W Band Saw
								20" Drill
								8" Jointer-Shaper
2037	2	1725	220/440	60	7/8	184	TEFC	Shaper & 12" Planer
3037	3	1725	220/440	60	1 1/8	213	TEFC	12" T.A. Saw (Model 71)-
3033	3	3450	220/440	60	7/8	184	TEFC	*15 Mortiser
								20" Metal Band Saw
5033	5	3450	220/440	60	1 1/8	213	TEFC	12" 16" 20" Planer
5033S	5	3450	220/440	60	7/8	184	TEFC	12" T.A. Saw (Model 71)
7533	7 1/2	3450	220/440	60	1 1/8	215	TEFC	16" 18" 20" 24" Planer
10033	10	3450	220/440	60	1 3/8	254U	TEFC	16" 18" 20" 24" Planer
15033	15	3450	220/440	60	1 3/8	256U	TEFC	20" 24" Planer
SPECIAL MOTORS								
1533C	1 1/2	3450	220/440	60	5/8	56	TEFC	C Flange 10" T.A. Saw
2033C	2	3450	220/440	60	5/8	56	TEFC	C Flange 10" T.A. Saw
3033C	3	3450	220/440	60	5/8	56	TEFC	C Flange 10" T.A. Saw
5033C	5	3450	220/440	60	7/8	184	TEFC	12" T.A. Saw
7533C	7 1/2	3450	220/440	60	7/8	184	TEFC	12" T.A. Saw
1031	1	1100	220/440	60	7/8	184	TEFC	20" Drill Press
1531	1 1/2	1100	220/440	60	7/8	184	TEFC	20" Drill Press
3431	3/4	1100	220/440	60	5/8	56	TEFC	15" Drill Press

NOTE: When ordering, specify machine motor is to be used on.

## POWERMATIC MAGNETIC STARTERS

The starters provide across the line overload, no load and low voltage protection for single and 3 phase motors. Specify Motor, HP, RPM, Phase and Voltage for proper heater coils.

### Single Phase:

#1-29

Magnetic Starter, single phase, size 1, NEMA type 1 enclosure, rated 220 V, 5 HP, supplied with reset button only. Separate P.B. Station must be used.

### Three Phase:

#3-30

Magnetic Starter, 3 phase, size 0, NEMA type 1 enclosure, rated 2 HP, 208/220/440, 60 Cycle, AC, supplied with reset button only. Separate Push Button Station must be used.

#3-31

Magnetic Starter, 3 phase, size 1, NEMA type 1 enclosure, rated 5 HP, 220 Volt, 7 1/2 HP, 440 Volt, 60 Cycle, AC. Supplied with reset button only. Separate Push Button Station must be used.

### Push Button Station

#1-3-32

Magnetic Control Push Button Switch. Includes switch, cover, case and 3 wire cord with wiring dia. For use with all Powermatic Magnetic Starters, both single and three phase.

### MAGNETIC STARTER WITH 110 VOLT TRANSFORMER AND PUSHBUTTON STATION

#1-3-33

Magnetic Starter, 3 phase, size 0, NEMA type 1 enclosure, 208/220/440 volt, 60-cycle AC, supplied with 110 volt controlled transformer with push-button station, complete.

## POWERMATIC SWITCHES

#1-21-Manual control toggle switch. Two pole single phase AC-DC 115-230 Volt. Includes switch, case, cover & 3 wire 3' cord.

#1-22-Manual control Push Button Switch. Two pole single phase AC-DC 115-230 Volt. Includes switch, case, cover & 3 wire 3' cord.

#1-23-Manual control overload protected toggle switch. Two pole single phase AC-DC 115-230 Volt. Includes switch, case, cover, heater coils & 3 wire 3' cord. Specify motor, RPM & Phase & Voltage to insure that proper heater coils are supplied.

#1-24-Manual control overload protected Push Button Switch. Two pole, single phase, AC-DC 115-230 Volt. Includes switch, case, cover, heater coils & 3 wire 3' cord. Specify motor, RPM & Phase & Voltage to insure that proper heater coils are supplied.

#3-25-Manual control toggle switch. Three pole, 3 phase, 208/220/440 Volt. Includes switch, case, cover & 4 wire 3' cord.

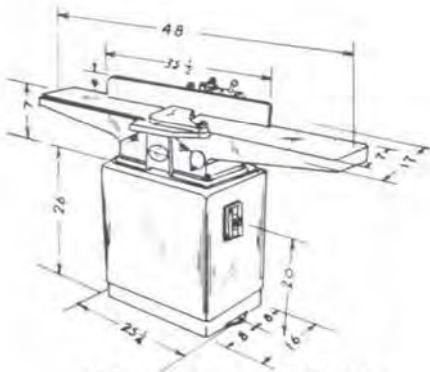
#3-26-Manual control Push Button switch. Three pole, 3 phase, 208/220/440 Volt. Includes switch, case, cover & 4 wire 3' cord.

#3-27-Manual control Overload Protected toggle switch. Three pole 3 phase, 208/220/440 Volt. Includes switch, case, cover, & 4 wire 3' cord. Specify motor, RPM, Phase and Voltage to insure that proper heater coils are supplied.

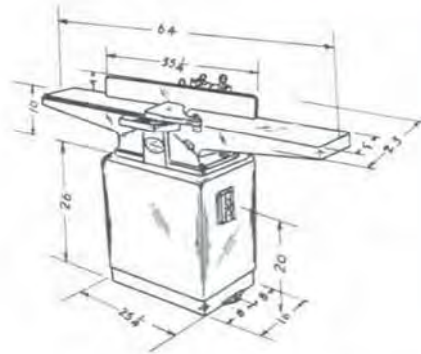
#3-28-Manual control, Overload Protected Push Button switch. Three pole, 3 phase, 208/220/440 Volt. Includes switch, case, cover, & 4 wire 3' cord. Specify motor, RPM, Phase and Voltage to insure that proper heater coils are supplied.



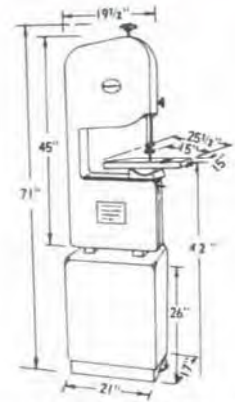
# Machine Dimensions and Space Requirements



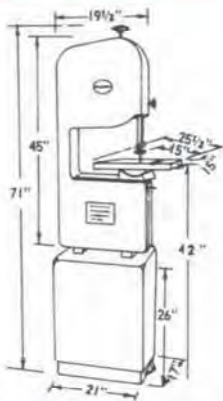
MODEL 50—6" JOINTER



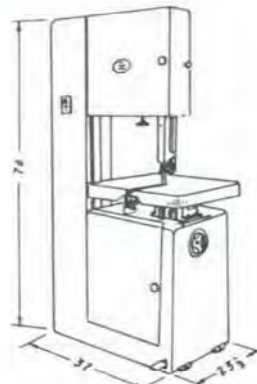
MODEL 60—8" JOINTER



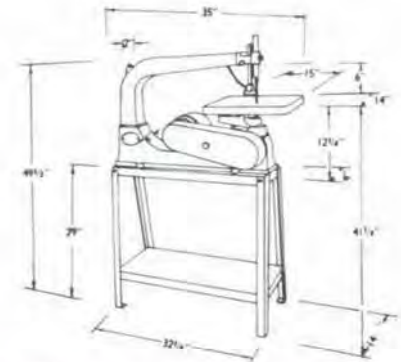
MODEL 141—14" WOOD BAND SAW



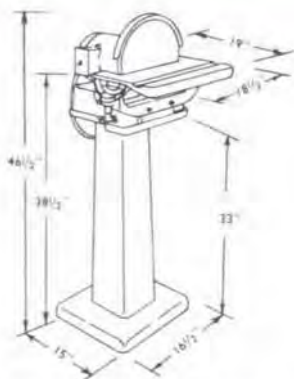
MODEL 143—14" METAL & WOOD BAND SAW



MODEL 81—20" BAND SAW



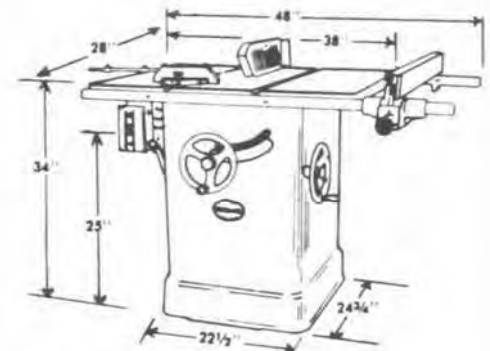
MODEL 95—SCROLL SAW



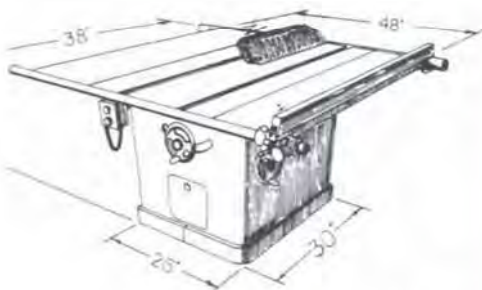
MODEL 35—DISC SANDER



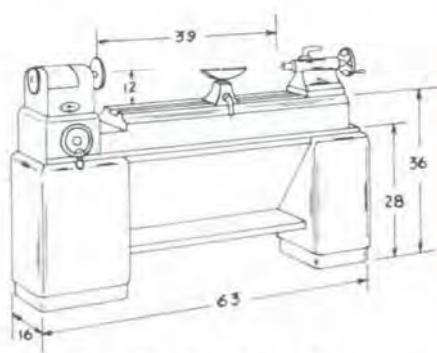
COMBINATION BELT & DISC SANDER



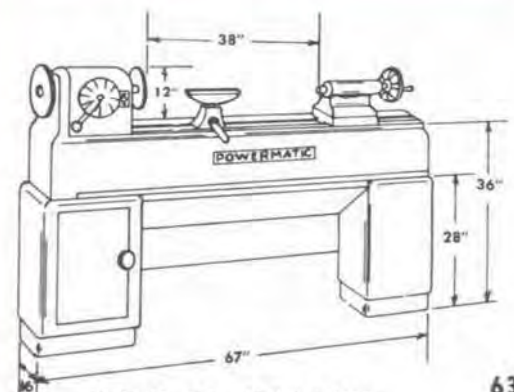
MODEL 65—10" T. A. SAW



MODEL 72—12" T. A. SAW



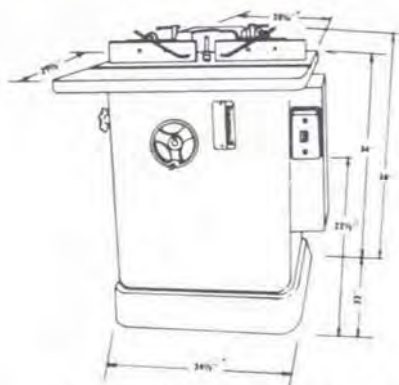
MODEL 77—12" LATH



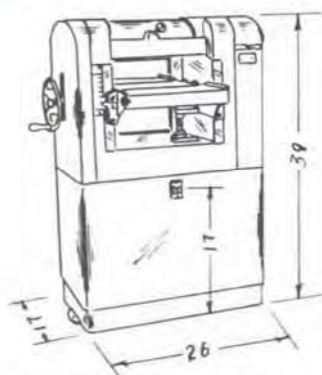
MODEL 90—12" LATH



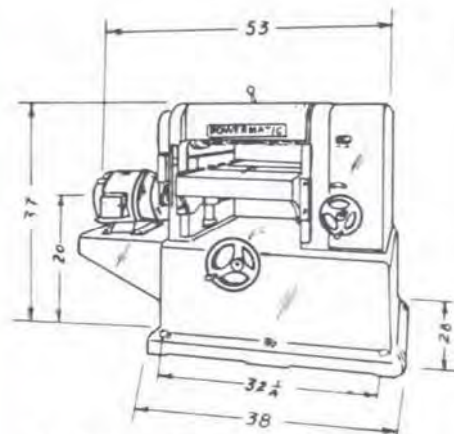
# Machine Dimensions and Space Requirements



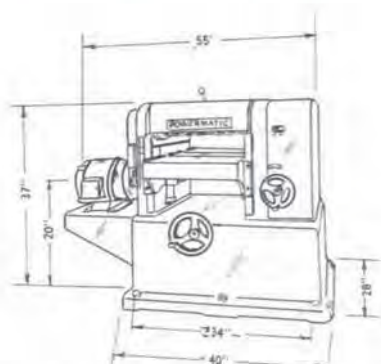
MODEL 25—SPINDLE SHAPER



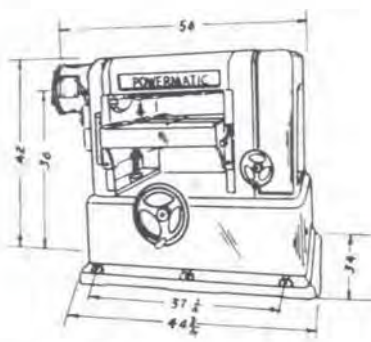
MODEL 100—12" PLANER



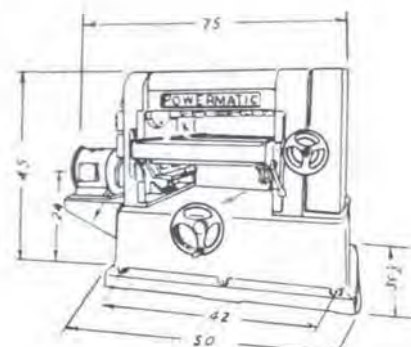
MODEL 160—16" PLANER



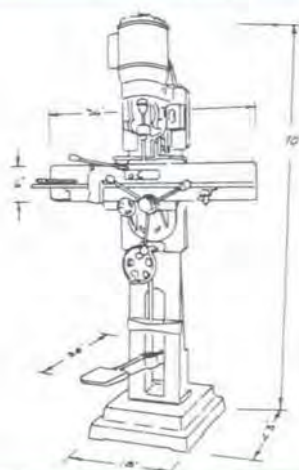
MODEL 180—18" PLANER



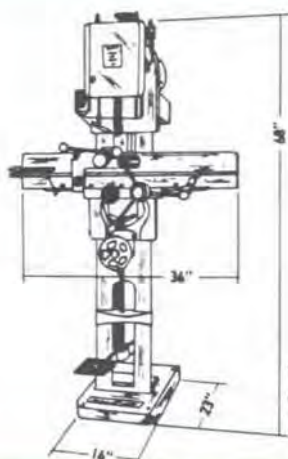
MODEL 221—20" PLANER



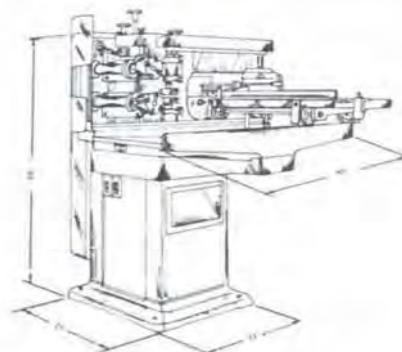
MODEL 225—24" PLANER



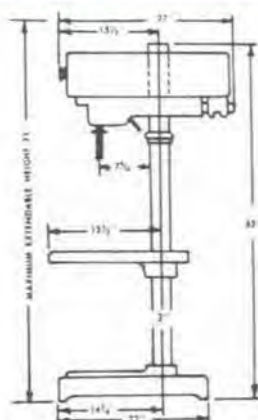
NO. 10  
HOLLOW  
CHISEL  
MORTISER



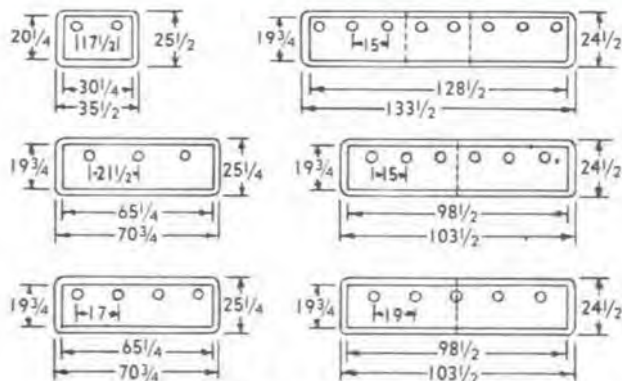
NO. 15  
CHAIN-SAW  
MORTISER



NO. 2-A SINGLE END TENONER



MODEL 1150—15" DRILL PRESS



STANDARD MULTIPLE SPINDLE ARRANGEMENTS



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1



2



3



4



5



6

1 Designing Department

2 Automatic Grinder

3 Automatic Lathe

4 Shipping Department

5 Assembly Line

6 Testing and Inspection

7 Pattern Shop

8 Milling



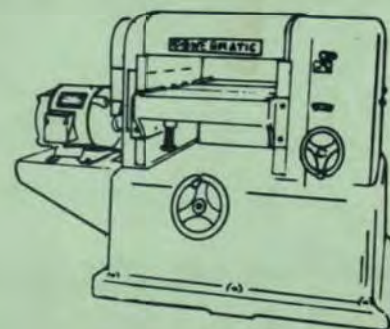
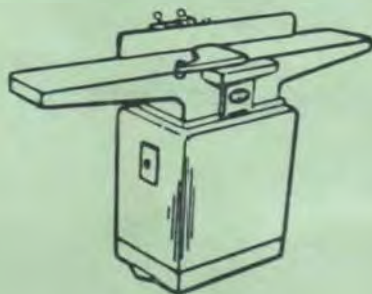
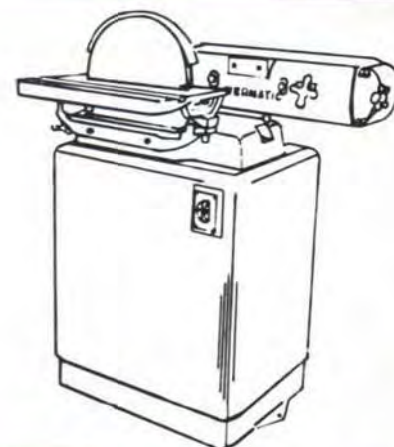
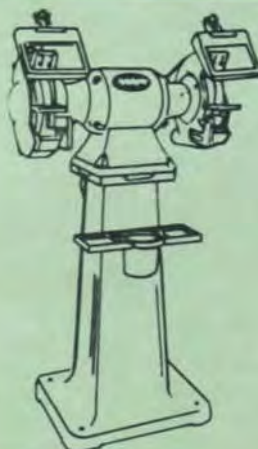
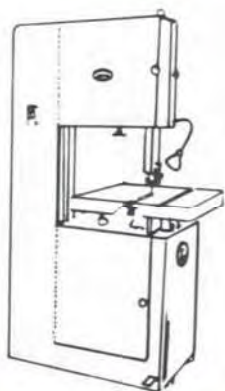
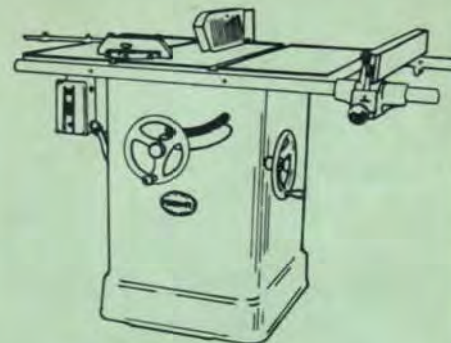
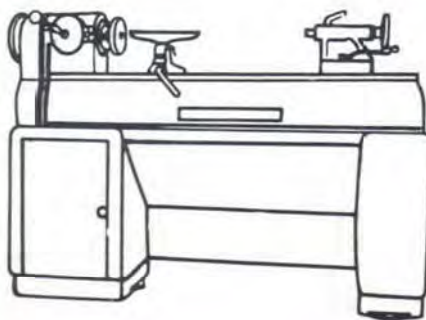
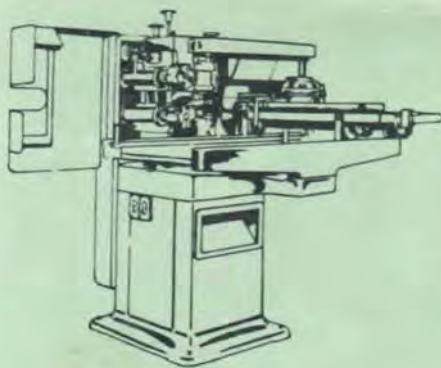
7



8

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