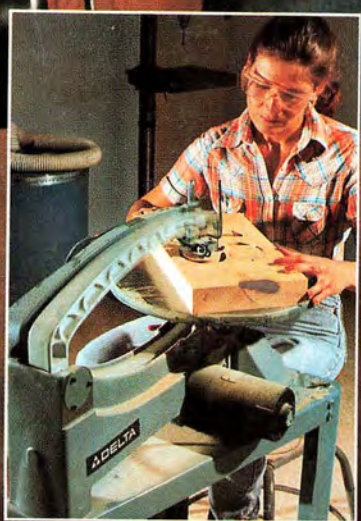
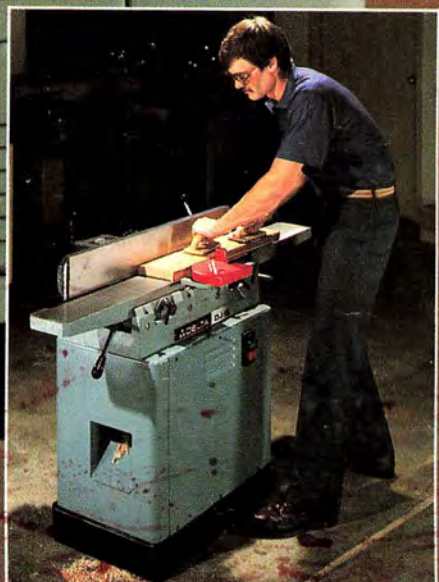
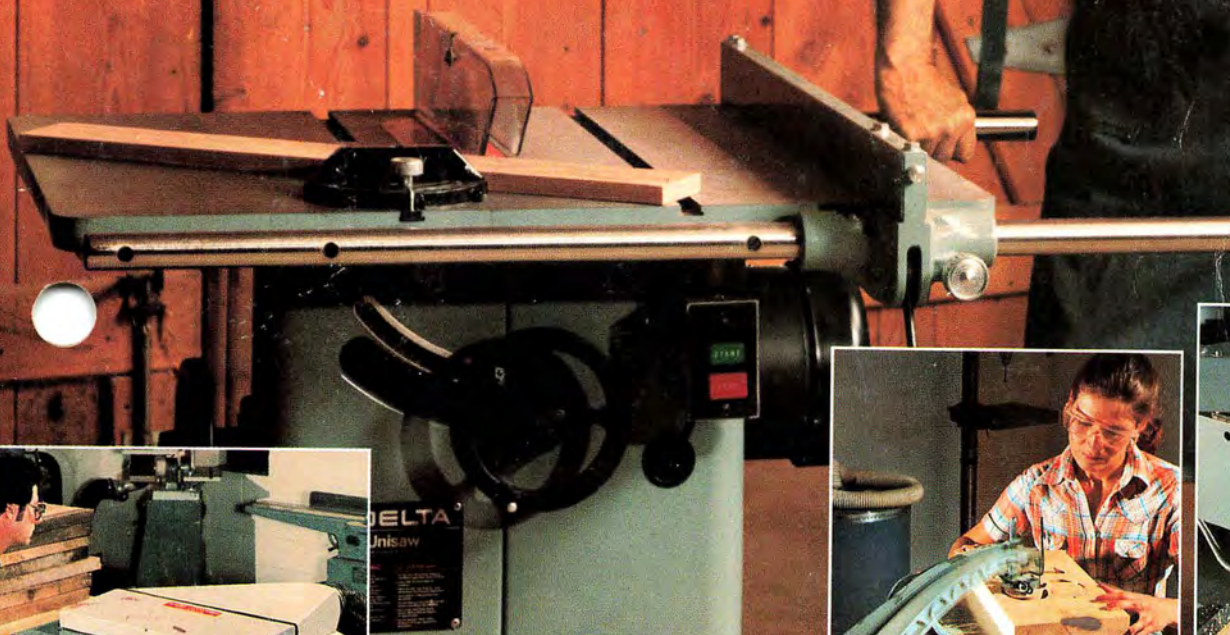
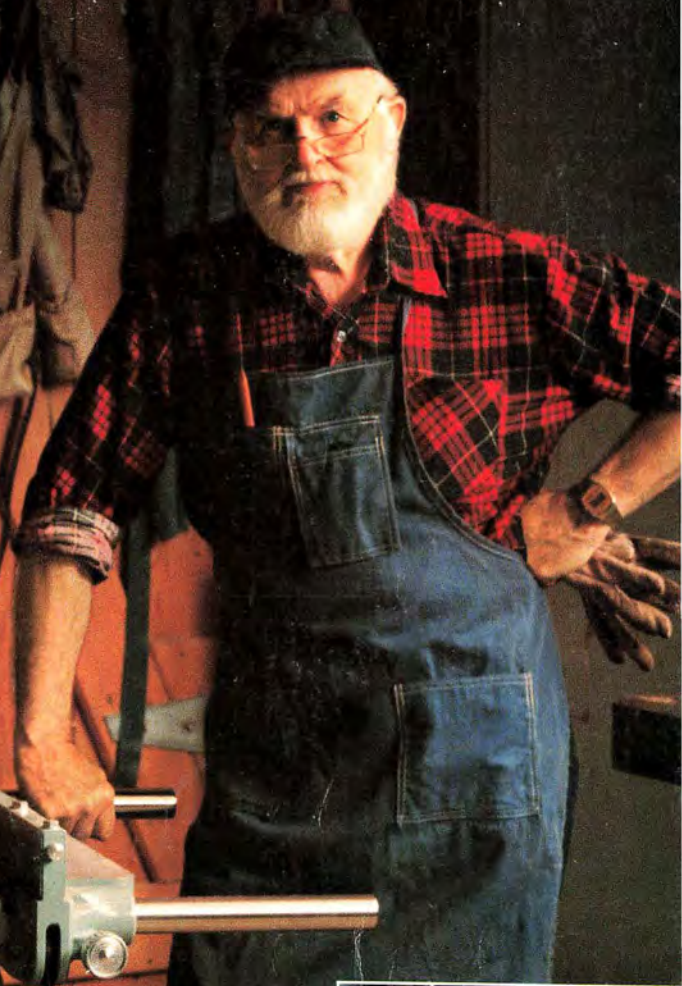


 **DELTA**

Delta Industrial Machinery



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The original Delta 10" UNISAW[®]
as introduced in 1938.

DELTA
Building On Tradition

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Delta is proud to be a member of the following trade associations. This gives us an opportunity to exchange ideas and viewpoints on new techniques, processes and developments in many industries. As today's manufacturing methods and concepts change, Delta will continue to design and develop new equipment to meet those changes.



Note to NIDA-SIDA members:

This edition of the Delta Catalog lists numbers that are compatible with the National Industrial Distributors Association standard numbering system as suggested by your Modern Methods Committee. It meets EDP requirements. Number 698145 is the manufacturer's code number assigned to Delta International Machinery Corp. by the NIDA-SIDA Modern Methods Committee.

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Your assurance of satisfaction of Delta Machinery is the integrity of your Delta Distributor and Delta's long-standing reputation for quality.

See your owner's manual for our express warranty of your particular product.

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Delta Industrial Machines are manufactured and sold under the following patents either owned by Delta or under which Delta is licensed. Other U.S. and foreign patents are pending:

D-266,766; D-267,720; D-268,762; D-268,932; 573,257; 1,830,813; 3,491,422; 3,581,784; 3,604,482; 3,686,524; 3,702,740; 3,718,168; 3,718,405; 3,754,493; 3,761,794; 3,762,231; 3,762,830; 3,770,331; 3,786,998; 3,816,677; 3,821,918; 3,877,500; 3,884,094; 3,917,967; 4,018,256; 4,150,598; 4,174,100; 4,212,214; 4,248,115; 4,308,777; 4,436,126; 4,450,397; 4,452,117; 4,600,184; 4,619,171; 4,681,006; 4,694,720; 4,694,721; 4,711,032; 4,174,100; 4,212,214.

Canada: 46964; 46965; 46966; 46967; 52665; 52666; 460,271; 1089764; 1,032,208; 1,082,080; 1,105,810; 1,132,442; 1,193,945; 870,396; 879,486; 881,316; 885,251; 967,399. South Africa: 78/6506; 79/1293; 83/1624.

Brazil: MI 3900356; MI 3900357; MI 3900360; PI 7901827. Germany: 1,808,138. The right is reserved to make changes in design or equipment of any item, without incurring any obligation to install these on machines previously sold, and to discontinue models of machines, motors or accessories at any time without notice.

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Delta Circular Saws

No matter which Delta circular saw you select—the big RE-35 14" Sliding Table Panel/Scoring Saw, the world famous 10" Tilting Arbor UNISAW[®], or the popular 10" Contractors' Saw—you get precision accuracy with big capacity and maximum convenience. This is because Delta has engineered dozens of quality features into every one of their saws. Furthermore, you can select from a wide range of accessories for even greater job performance.

When you need a saw, ask for a Delta. It's backed by an old reputation for quality and service!



Delta RE-35 14" Sliding Table Panel/Scoring Saw

Performs every conventional sawing operation while offering easy, simplified cutting of large stock!

The Delta RE-35 is no ordinary panel/scoring saw. Not only will it handle conventional operations like ripping, crosscutting, beveling and mitering, but also dadoing as well.

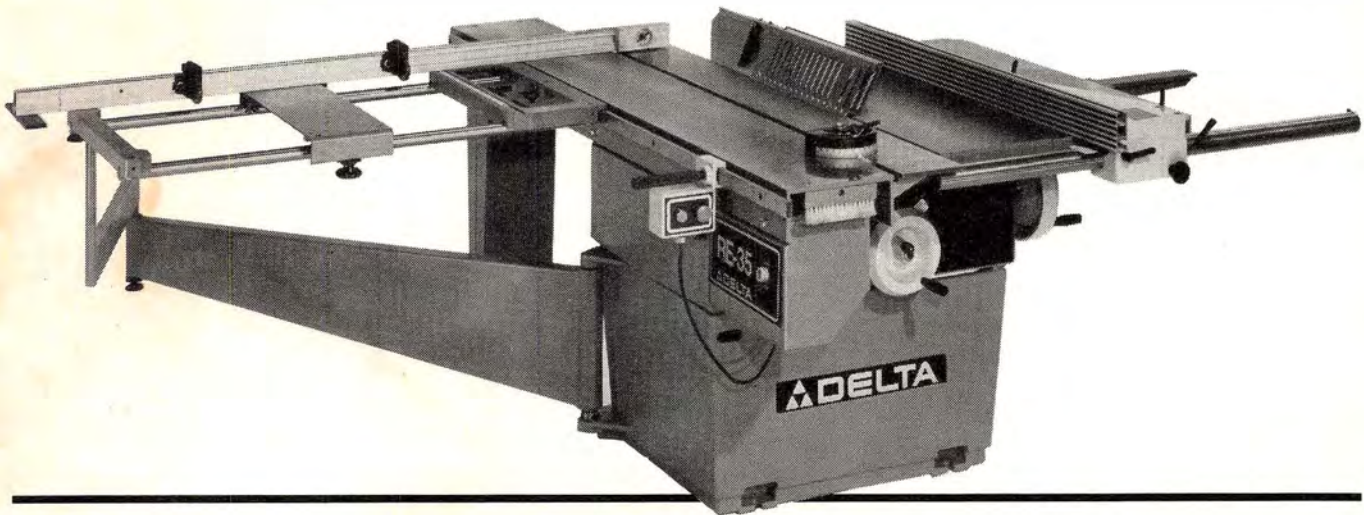
With its big 29³/₈ x 43³/₈" fixed table in combination with the 17³/₄ x 78³/₄" sliding table, large panel cutting becomes a simple operation.

Here are the high quality features that make it all possible: a rugged drive system, flexible control station, spacious fixed and sliding tables, twin arbor speeds, arbor locking mechanism, two-position rip fence, convenient blade controls, dadoing capability, versatile crosscut/

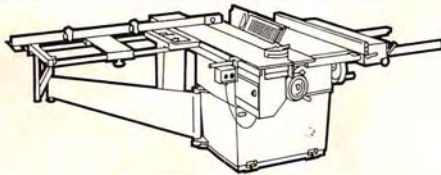
mitering fence, solid cast iron base and much more.

Using a 4" scoring blade with a 14" main blade, the RE-35 will give high quality performance on all types of materials: chipboard, surface finished veneer, core panels coated with synthetic material on one or both sides, acrylic sheets, PVC and wood of all types and thickness up to 4¹/₂" thick.

See this outstanding saw value today!



Catalog Listing



No. 34-794 14" Sliding Table Panel/Scoring Saw with 71¹/₂" table stroke. Includes scoring unit with 3/4 HP 220/440 V (specify voltage) three phase motor; 7¹/₂ HP, 220/440 V (specify voltage), 60 Hertz, 3 phase main motor with magnet starter; blade guard;

splitter; rip fence; extension cross cut fence; two stock stops; miter gauge; two arbor extensions, 1" diameter, for dadoing; one 1³/₄" and two 4" diameter arbor flanges; 29³/₈ x 43³/₈" fixed table; 17³/₄ x 78³/₄" sliding table; articulating arm support and tool set.

Machine Data

Motor (TEFC), Main 7¹/₂ HP, 220/440 V (specify voltage), 60 Hz, three phase
Motor (TEFC), Scoring 3/4 HP, 220/440 V (specify voltage), 60 Hz, three phase

Diameter of Arbor:
 Main 1" (25.4 mm)
 Scoring 3/4" (19.05 mm)
 Scoring (dado extension) 1" (25.4 mm)

Diameter of Main Saw Blade 14" (355.6 mm)
Diameter of Scoring Blade 4" (101.6 mm)

Capacities:
 Maximum depth of cut at 90° 4¹/₂" (114.3 mm)
 Maximum depth of cut at 45° 3¹/₈" (79.37 mm)
 Maximum scoring depth 1/4" (6.1 mm)
 Maximum width of dado cut 1³/₁₆" (20.64 mm)
 Maximum rip to right of blade 51¹³/₁₆" (1316.04 mm)
 Maximum length of cut with crosscut fence in front-most position:
 Main blade 54" (1371.6 mm)
 Scoring blade 50" (1270 mm)
 Maximum length of cut with crosscut fence in rear position:
 Main Blade 64" (1625.6 mm)
 Scoring Blade 60" (1524 mm)
 Distance, front of table to center of blade 27" (685.8 mm)

Table:
 Height from floor 33¹/₂" (850.9 mm)
 Fixed table size 29³/₈" x 43³/₈" (746.1 mm x 1101.7 mm)
 Sliding table size 17³/₄" x 78³/₄" (450.8 mm x 2002.2 mm)
 Sliding table extension size 24" x 47" (609.6 mm x 1193.8 mm)
 Sliding table stroke 71¹/₂" (1816.1 mm)
 Maximum crosscut stop setting 103" (2616.2 mm)

Speeds:
 Main blade 3000, 4500 RPM
 Scoring blade 9000 RPM

Chip Exhaust Opening . . . 4" O.D. (101.6 mm)

Dust Collection Capability see Page O2

Overall Dimensions:
 Height 41¹/₄" (1047.7 mm)
 Width (fully extended) 116¹/₂" (2959.1 mm)
 Depth 150³/₄" (3829 mm)

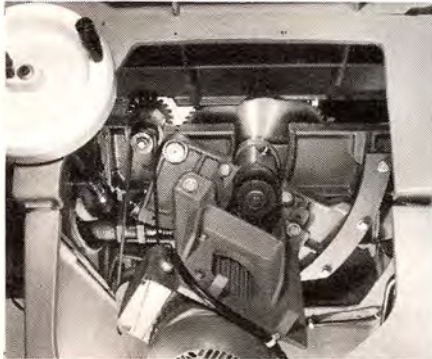
Net Weight 1791 lbs. (494.9 Kg.)

See circular saw accessories beginning on Page A17.

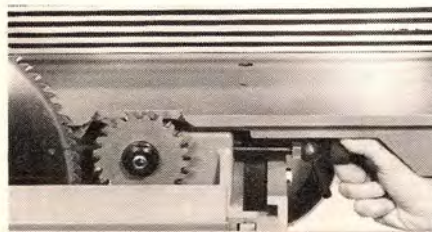
RE-35 Quality Features



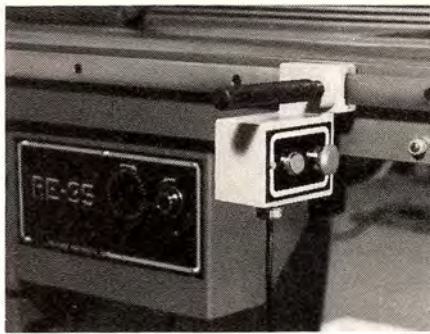
Dadoing Capability. Unlike most sliding table saws, the RE-35 is equipped with arbor extensions for the main and scoring arbors and for lateral adjustment of the sliding table. This makes possible dadoing operations, including scoring on both sides of the dado.



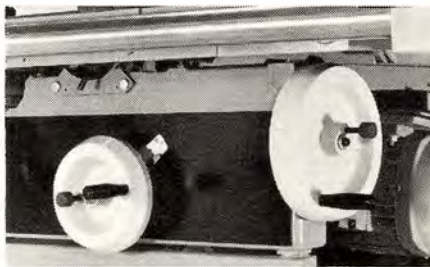
Rugged Drive System. Entire drive system is housed inside the massive cast iron base and is powered by a totally enclosed, fan-cooled 7½ HP motor. Double V-belt drive can be set for arbor speeds of 3000 or 4500 RPM. Motor plate, trunnions and arbor support bracket are constructed of cast iron for solid support and vibration-free operation. The heavy trunnions support a large, cast iron trunnion bracket, which carries the entire arbor assembly. Arbor runs on prelubricated, sealed ball bearings and raises to the correct height and angle of tilt by a rack and worm-screw operating mechanism. Special "0" clearance rear guide for arbor bracket helps maintain perfect saw alignment for accurate cutting. Saw is equipped with adjustable, positive stops at 90° and 45°.



Scoring Blade Adjustment. Lateral adjustment of scoring blade is easily accomplished from the front of the machine. Lever firmly locks blade at correct setting.



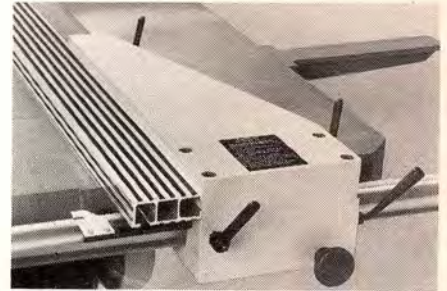
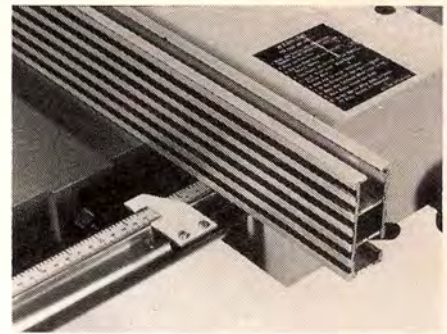
Flexible Control Station. On-off controls for machine are located on a movable mount which can be positioned anywhere along the sliding table to suit operator's working position. Control operates main blade and also scoring blade when scoring unit is chosen, using lighted indicator button on main saw panel.



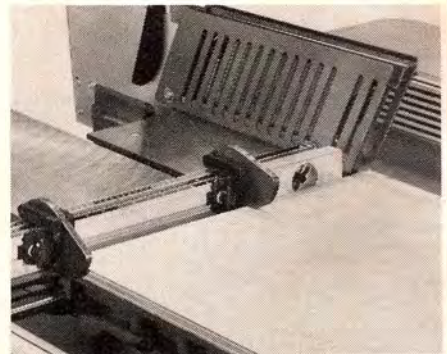
Precision Blade Adjustment. A large diameter handwheel operates the blade raising mechanism. Handwheel has a locking knob for securing blade at desired height and prohibiting blade movement during sawing operations. Blade tilt scale, located in close proximity to handwheel, shows blade angle from 0 to 45°. Each rotation of handwheel tilts blade a full 2°. Tilting mechanism is easily locked to maintain correct blade position.



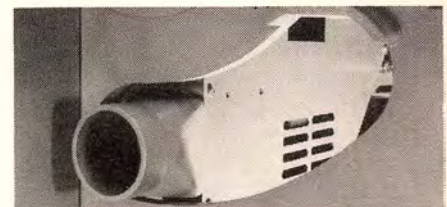
Arbor Locking Mechanism. The convenient arbor-locking button emerges close to the table surface when the blade is raised to its full upright position. When button is depressed, arbor locks in position for simple, safe blade changing using wrench supplied. Lock automatically retracts when button is released.



Two-Position Rip Fence. Extruded aluminum 1¼" x 3⅞" x 47⅞" rip fence can be set vertically or horizontally and slides on a steel guide bar. A setting scale, calibrated in inches and millimeters, is fastened on the guide rail for accurate fence positioning. Guide rail is equipped with a measuring cursor, providing good visibility in making correct fence adjustments. Cursor is adjustable to suit different blade thicknesses and fence positions. Fence and fence support are easily secured by locking levers and knobs.



Stock Stops. Unique stops rise easily when stock is pushed against them, then automatically fall back into position for final dimension cuts. Excellent for repetitive cutting operations, they can be positioned as close as 2" apart.



Large Diameter Chip Exhaust. Saw incorporates a 4" O.D. exhaust chute that moves with the saw arbor when blade is tilted, providing effective saw dust and chip removal. Chute may be easily attached to a central dust collection system.

Delta RT-40 14" Tilting Arbor Saw

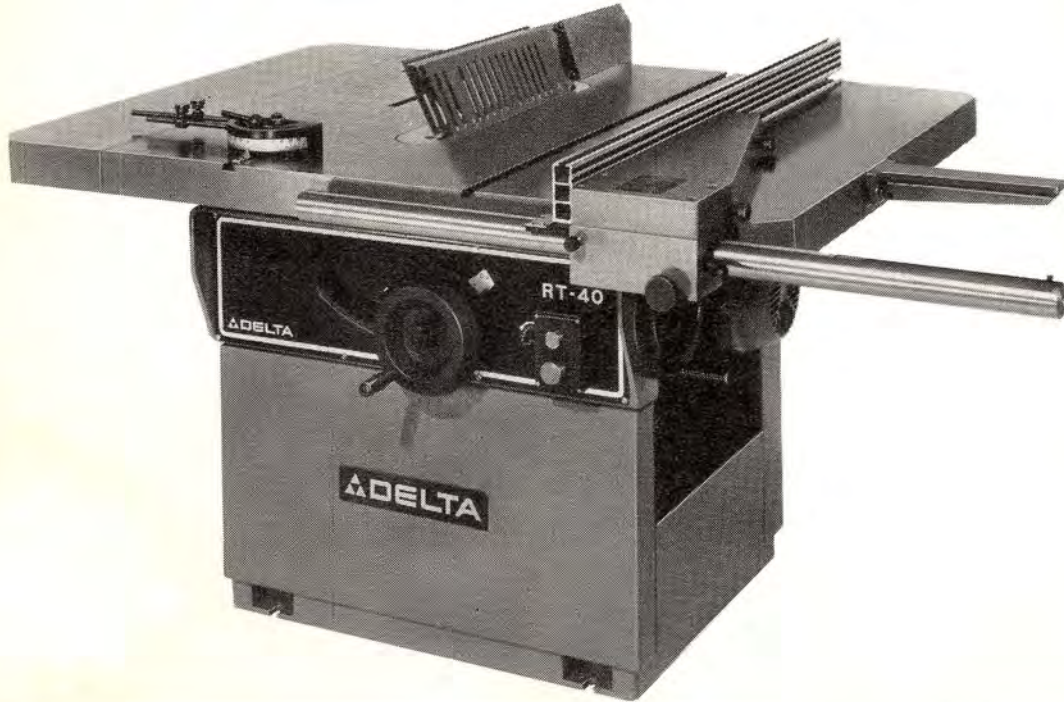
Powerful! Big capacity! Extra smooth cutting performance!

If your operation requires a saw that offers large capacity combined with precision accuracy, all on a production basis; then, investigate the RT-40 14" Tilting Arbor Saw.

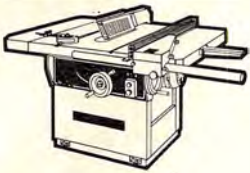
It's loaded with quality features to meet your most demanding requirements: 4 1/2" depth of cut, 3 1/8" at 45° (will also accommodate a 16" blade, providing a bigger 5 1/2" depth of cut, 4 1/8" at 45°)—a powerful 7 1/2 HP 200-220/440 V motor with magnetic controls—twin V-belt drive with speeds of 3000 and 4500 RPM—extra large 43 x 59" table—

two-position rip fence that can be used vertically or horizontally—large blade positioning handwheels with lock knobs—arbor locking mechanism—built-in chip chute—plus heavy duty construction throughout.

See this great saw value today!



Catalog Listing



†No. 34-790 14" Tilting Arbor Saw. Includes 7 1/2 HP, 200-220/440 V (wired 220 V), 60 Hertz, 3 phase motor with magnetic starter and automatic reset overload; blade guard; splitter; rip fence; guide bar; miter gage, 43 x 59" table with two extension wings and fence support extension.

No. 34-791 14" Tilting Arbor Saw. Same as above, except with 5 HP, 230 V, 60 Hertz, single phase motor with magnetic starter and automatic reset overload.

†No. 49-000 "JIC" Type Control Kit.

Specify this Catalog Number, in order to obtain machine with factory mounted and wired "JIC" type electricals.

Machine Data

Motor (TEFC)	7 1/2 HP, 200-220/440 V (Wired 220 V), 60 Hertz, 3 phase 5 HP, 230 V, 60 Hertz, 1 phase
Diameter of Arbor	1" (25.4 mm)
Diameter of Saw Blade	Up to 16" (400 mm)
Capacities:	
Maximum depth of cut (blade is not completely below table surface in fully lowered position—.4" with 14" blade, 1.4" 16" blade):	
With 14" blade	4 1/2" (115 mm)
With 16" blade	5 1/2" (140 mm)
Maximum rip to right of blade	5 13/16" (1300.1 mm)
Maximum thickness of cut at 45°:	
With 14" blade	3 1/8" (80 mm)
With 16" blade	4 1/8" (105 mm)
Distance, front of table to center of blade	22 13/16" (580 mm)
Table in front of 14" blade at maximum cut	17 1/8" (435 mm)
Max. width of cut-off with 14" blade (1" stock)	30 1/2" (774.7 mm)
Maximum width of dado cut	1 3/16" (20.64 mm)

Table:

Height	33 7/16" (850 mm)
Size	39 3/8" x 43 1/4" (1000 x 1100 mm)
Size, including two extensions	59 x 43.3" (1500 x 1100 mm)
T-slot miter gage groove on either side of saw blade	
Removable table insert with built-in levelling screws	

Cabinet Size 32 3/4" wide x 25 3/4" deep
(831.85 x 654.05 mm)

Chip Exhaust Opening 4" O.D. (101.6mm)

Dust Collection Capability see Page O2

Arbor Speed (two) 3000 and 4500 RPM

Dimensions:

Height	41" (1041.4 mm)
Width	98" (2489.2 mm)
Depth	49 1/2" (1257.3 mm)

Net Weight 1197 Lbs. (543 Kg.)

See circular saw accessories beginning on Page A17.

RT-40 Quality Features

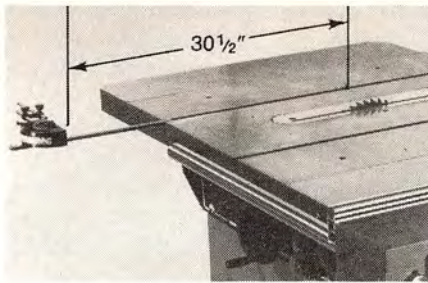
Big capacities plus ample power. With the RT-40 14" Saw, you get a 4½" depth of cut, 3⅞" at 45°. The machine also will accommodate a 16" blade, providing a big 5½" depth of cut, 4⅞" at 45°. The powerful 7½ HP motor will handle the hardest woods.



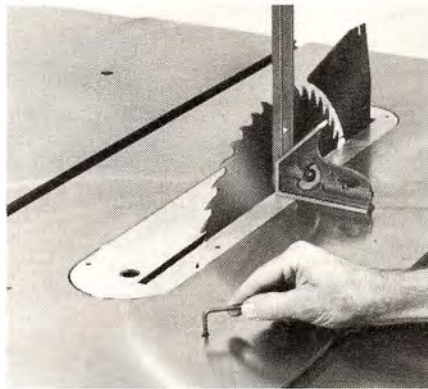
Rugged Drive System. Housed inside a heavy, fabricated steel cabinet, drive system is powered by a totally enclosed, fan-cooled 7½ HP motor. Double V-belt drive can be set for speeds of 3000 or 4500 RPM for best cutting performance. Motor plate, trunnions and arbor support bracket are constructed of cast iron for solid support and vibration-free operation at the saw arbor. Arbor runs on pre-lubricated, sealed ball bearings and raises to the correct height and angle by a rack and worm screw operating mechanism.



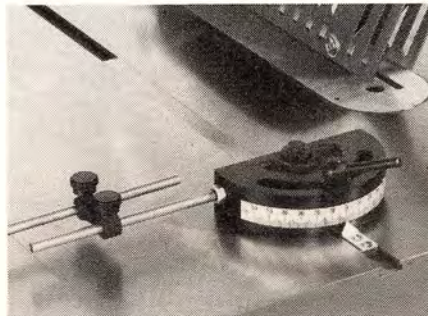
Arbor Locking Mechanism. Convenient arbor locking button emerges close to table surface when blade is raised to its full upright position. When depressed, arbor locks in place for easy, safe blade changing. Lock automatically retracts when button is released.



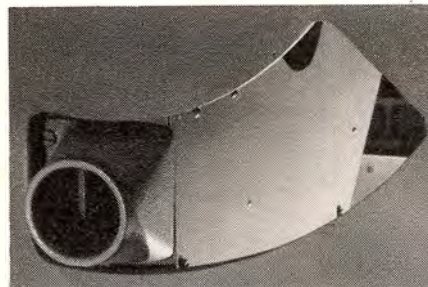
Big Front-of-Blade Capacity. T-slots on either side of saw blade hold miter gage securely, even beyond front of table. With miter gage fully extended, you get 30½" cut-off on 1" stock using a 14" saw blade.



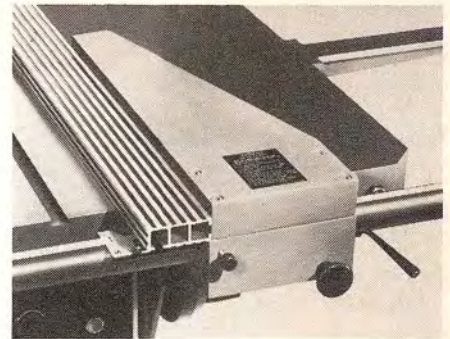
Adjustable, Positive Stops on Table. Saw blade stops, adjustable from the top of the table, assure perfect 90° and 45° settings.



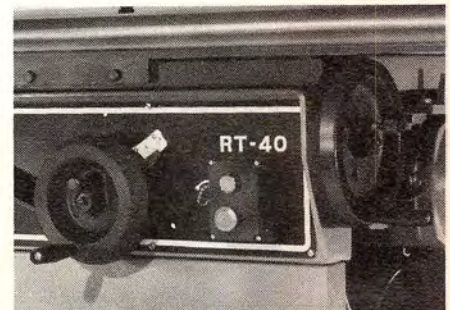
Accurate Miter Gage. For straight and angle cutting. Has a locking lever for securing miter gage at desired angle of cut. Gage can be adjusted from 90° to 30° with easy-to-read angle-of-cut scale calibrated in 1° increments. Furnished with adjustable stop rods.



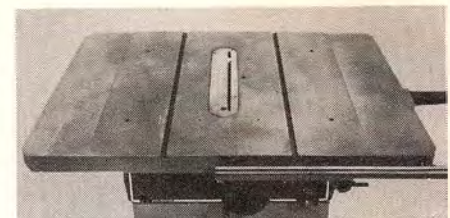
Efficient Chip Exhaust. Saw incorporates a 4" O.D. chip exhaust chute that moves with the saw arbor when blade is tilted for effective collection of sawdust and chips.



Two-Position Rip Fence. Extruded aluminum rip fence can be used vertically or horizontally, also can be positioned toward operator for ripping solid stock more safely. Fence assembly glides smoothly and with little effort on guide bar. Calibrated scale (in inches and millimeters) permits accurate fence positioning. Guide rail has a measuring indicator for good visibility in making correct fence adjustments. Fence and fence support are easily secured in position by locking levers and knobs.



Convenient Controls. All operating controls, including on-off switch, blade raising and tilting handwheels, are grouped "up-front" for easy operation. A large diameter handwheel operates blade raising mechanism. Lock knob on handwheels secures blade at desired height or angle.



Spacious Table. Massive, extra large table (including extension wings) is 43 x 59" in size, providing extra support for handling large stock. Table is heavily ribbed to prevent warping and distortion.

Delta RT-31 10" Scoring Saw

Especially suited for cutting problem materials while offering exceptional accuracy and versatility!

You'll be amazed at the RT-31's great capability. Using a scoring blade, it's capable of high performance on all types of materials:

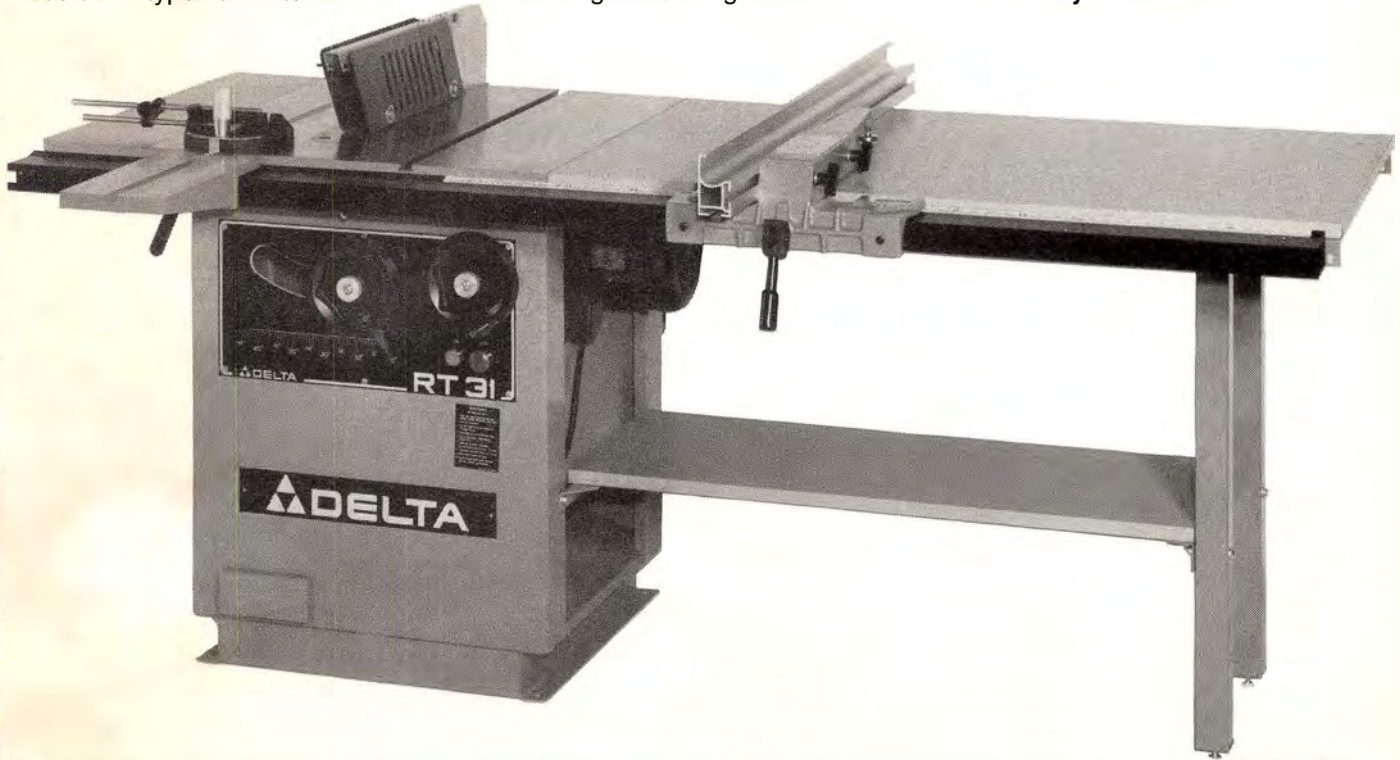
chipboard, surface finished veneer, core panels coated with synthetic material, plastic sheets, PVC and wood of all types.

Since it incorporates the unique Delta UNIFENCE™ Saw Guide, precision cutting to 1/64th of an inch is simple and easy. You can make accurate setups in seconds to keep production moving—reduce labor costs by eliminating time-consuming measuring. With its

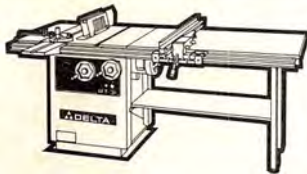
52 7/8" rip capacity to the right of the blade, sizing of extra large panels becomes an easy operation.

But don't overlook the RT-31's many other fine features: its giant 83 5/8" x 28 1/2" table—efficient 3-belt drive system—close-coupled blade design—massive trunnions—ball bearing arbor assembly—up-front handwheels—and much more.

See the high-performance RT-31 today and save!



Catalog Lising



No. 34-899 10" Scoring Saw. Includes 3 HP, 230V, 60 Hertz, single phase motor with magnetic starter and automatic reset overload; blade guard; splitter; UNIFENCE™ saw guide; miter gage with stop rods; miter gage extension and 35 1/2" x 28 1/2" main table (including one extension wing). Less UNIFENCE table and shelf boards.

†**No. 34-890 10" Scoring Saw.** Same as above except with 5 HP, 200-220/440V (wired 220 V), 60 Hertz, 3 phase motor with magnetic starter and automatic reset overload.

†**No. 49-000 "JIC" Type Control Kit.** Specify this Catalog Number, in addition to three phase cat. no., in order to obtain machine with factory mounted and wired "JIC" type electricals.

Machine Data

Motor (TEFC) 3 HP, 230 V, 60 Hz, single phase; 5 HP, 200-220/440 V (wired 220 V), 60 Hz, 3 phase

Diameter of Main Arbor 1" (25.4 mm)

Diameter of Scoring Arbor 1" (25.4 mm)

Diameter of Main Saw Blade (when scoring blade not used) up to 12" (300 mm)

Diameter of Scoring Blade (uses 10" main blade when scoring) 4" (101.6 mm)

Capacities:

Max. depth of cut:

With 10" blade 3 1/8" (80 mm)

With 12" blade (blade remains 1" above table in fully lowered position) 4 1/8" (104.8 mm)

Max. rip to right of blade 52 7/8" (1343 mm)

Max. thickness of cut at 45°:

With 10" blade 2 1/8" (55 mm)

With 12" blade 2 13/16" (71.4 mm)

Distance, front of table to center of blade 16 1/2" (419.1 mm)

Table in front of 10" blade at max. cut 11 3/4" (298.45 mm)

Table in front of 12" blade at max. cut 10 3/4" (273.05 mm)

Max. width of cut-off with 10" blade (1" stock) 25" (635 mm)

With miter gage extension 38" (965.2 mm)

Table:

Height 34" (863.6 mm)

Size, including UNIFENCE™ table 83 5/8" wide x 28 1/2" deep (2124 x 723.9 mm)

Cabinet Size 24 3/4" wide x 23" deep (628.65 x 584.2 mm)

Chip Exhaust Opening 2 15/16" OD (74.6 mm)

Main Arbor Speed 4000 RPM

Scoring Arbor Speed 8600 RPM

Dimensions:

Height 40" (1016 mm)

Width 83 5/8" (2124 mm)

Depth 33" (838.2 mm)

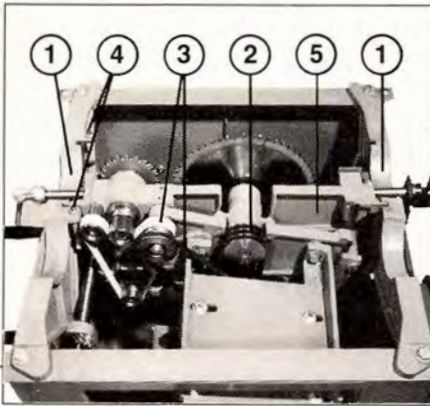
Net Weight 545 lbs. (245.2 Kg)

Accessories

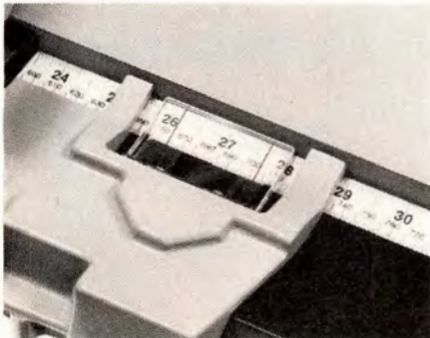
No. 34-999 Table Board and Shelf. With laminate coating for long life. Table board measures 3/4" x 28 3/4" x 48"; shelf board 3/4" x 15" x 40".

No. 34-878 Cut-Off Fence. 10 1/2" long, for repetitive cutoff operations. 2 1/2 lbs.

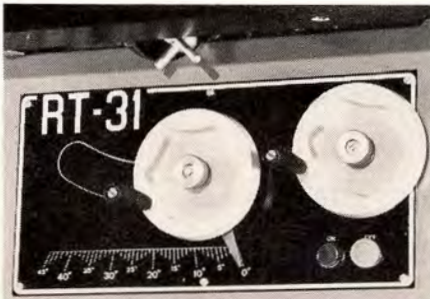
RT-31 Quality Features



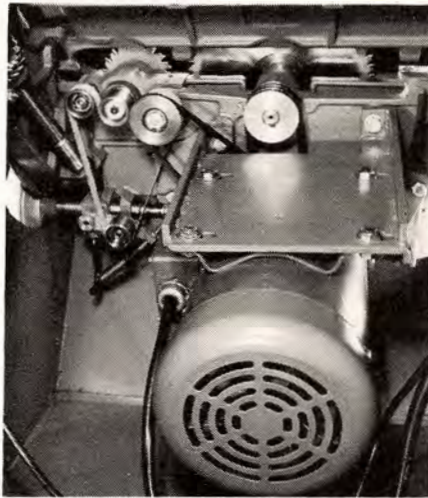
Superior Construction: 1. Husky trunnions carry the saw carriage. Trunnions are fully adjustable to insure perfect alignment. 2. Positive three-belt drive operates on a heavy duty ball bearing arbor. 3. Scoring blade is powered by a combination V and flat belt drive. 4. Table top adjustable blade stops at 90° and 45° to assure lifetime saw accuracy. 5. Massive cast iron member provides rigid support for arbor assembly.



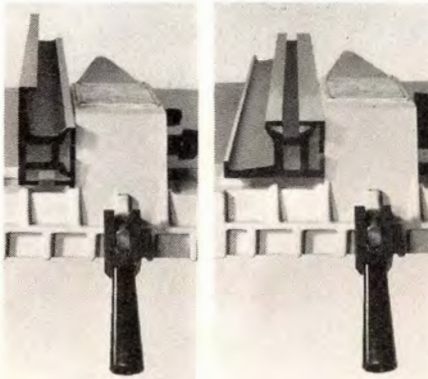
Dual English/Metric Scale. Saw guide scale is calibrated in 32nds of an inch, providing 52 $\frac{7}{8}$ " rip capacity to right of blade. Fence may be set to 1/64th inch accuracy when required. Viewing window has two fine witness lines—one for fence used in horizontal position and one for fence used in vertical position.



Convenient Controls. All operating controls, including on-off switch, blade raising and tilting handwheels, are grouped "up front" for easy operation. Large diameter handwheels simplify blade raising and tilting. Lock knob on handwheels secures blade at desired height or angle.



Efficient Drive System. Saw drive system is powered by a 3 or 5 HP, TEFC motor. Triple V-belts transmit full motor power for smooth cutting performance while V and flat belts furnish power to scoring unit. Arbor assembly is supported by a massive cast iron member and extra heavy trunnions for stability. Arbor runs on sealed, prelubricated ball bearings for long, trouble-free performance.



Two-Position Fence. Versatile fence may be set vertically for normal ripping or horizontally for convenient trimming operations on laminates. Fence is made of extruded, anodized aluminum for protection against corrosion, also provides a long-lasting wear surface.



Close-Coupled Blade Design. Positioning of scoring unit as close as possible to main saw blade insures greater cutting accuracy. When using scoring blade, a 10" main blade is used. Up to a 12" blade may be used when scoring blade is removed.



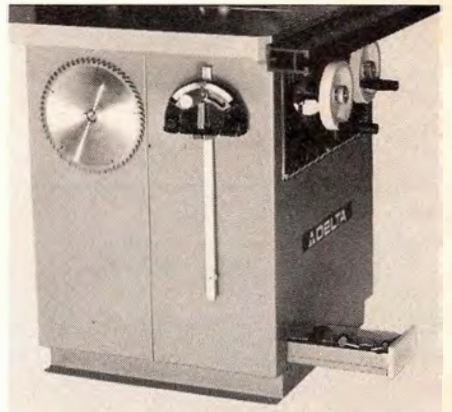
Scoring Saw Cutting Depth Adjustment. Scoring saw is mounted on an eccentric, permitting easy depth-of-cut setting from the top of the table.



Fast Scoring Saw Adjustment. Lateral adjustment of scoring blade is easily accomplished from the front of the machine. Second lever firmly locks blade at correct setting.



Trimming Laminated Stock. When fence is in horizontal position, it may be raised $\frac{1}{8}$ ", making it ideal for trimming laminated materials. Note how laminate can overlap fence while straight edge of panel is used for ripping reference.



Convenient Accessory Storage. Built into the saw cabinet is a handy tray for storing miscellaneous saw accessories. Miter gage, saw blades and other accessories may be stored on the side of the saw cabinet.

Delta Quality Extras

Built-in chip chute that moves with saw arbor when blade is tilted effectively collects sawdust and chips.

T-slots on either side of blade hold miter gage securely, even beyond front of table.

Delta UNISAW® 10" Tilting Arbor Saw

An "all purpose" saw that's built to satisfy the needs of all users on every job!

The Delta 10" UNISAW is a rugged, big capacity saw at an unmatched dollar-for-dollar value. It is the most popular cabinet model saw on the market today, used in a majority of the nation's schools and in thousands of millwork, furniture,

cabinet and home workshops.

The tremendous acceptance of the UNISAW results from the fact that it offers these essential advantages to every user, on the job:

Rugged Durability. Massive table is fully ribbed to prevent distortion—carriage swings on strong, heavy trunnions with working surfaces fully machined... triple V-belt drive transmits full power and reduces vibration.

Versatility. With the Delta UNISAW you can do precision ripping

and cross cutting, plus dadoing, moulding and tenoning, all with complete accuracy even on a production basis.

Safety Designed. Drive mechanism, including all belts, is completely contained in the steel cabinet. Revolutionary UNIFENCE™ is accurate, versatile, big in capacity and steps up production. Unique UNIGUARD™ (Accessory extra) provides greater protection for all saw operations...has practically no operational limitations.



The world famous UNISAW when equipped with the unique UNIFENCE is the ultimate sawing machine!

- "See-thru" swing-type, splitter-mounted guard.
- Rips 51" to right of blade, cuts stock 3 1/8" thick.
- Lubricated-for-life ball bearings.
- Triple V-belt drive transmits full motor power.
- Widely spaced, massive trunnions.
- Big 27 x 28" cast iron table, scientifically ribbed to prevent distortion.

No. 34-783 10" UNISAW®
Shown with UNIFENCE and accessory 34-998 Table and Shelf Boards and 34-843 Motor Cover.

Here's a saw that has been imitated by many but never equalled!

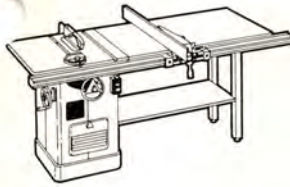
- "See-thru" swing-type, splitter-mounted guard.
- Rips to center of a 50" panel, 100" with extra long guide bars
- Precision bored bearing seats, preloaded bearings, precision ground arbor.
- Dynamically balanced pulleys.
- Jet-Lock, Micro-Set® rip fence.
- 24-volt safety control station on models with magnetic controls.

See Page A 10 for additional features.



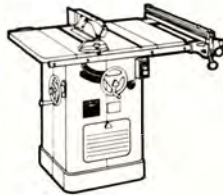
No. 34-764 10" UNISAW®
Shown with Splitter-Mounted Guard and accessory 34-843 Motor Cover.

Catalog Listing



Complete 10" Tilting Arbor Unisaw[®] with 34-639 see-thru blade guard; 34-897 UNIFENCE[®]; extension wing; 34-105 combination blade; 34-895 miter gage; 34-154 table insert; 41-644 motor pulley ($\frac{3}{4}$ " bore); 49-124 set of three matched V-belts; motor and controls. Less UNIFENCE table and shelf boards.

Catalog Number	Motor	Motor Control	Motor Enclosure	Hertz and Motor RPM	Motor Voltage	Shipping Wt./Lbs.
34-781	Single Phase 1½ HP	Push Button Switch with Overload	TEFC	60-3450	115/230	447
34-782	Single Phase 3 HP	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-3450	230	469
34-783†	Three Phase 5 HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-3450	230/460	456
34-784			TEFC	60-3450	200	456



Complete 10" Tilting Arbor Unisaw[®] with 34-639 see-thru blade guard; 34-896 Jet-Lock, Micro Set[®] rip fence; 34-545 pair of extension wings; 34-105 combination blade; 34-895 miter gage, front guide bar, rear guide bar; 34-154 table insert; 41-644 motor pulley, ($\frac{3}{4}$ " bore); 49-124 set of three matched V-belts, motor and controls.

Catalog Number	Motor	Motor Control	Motor Enclosure	Hertz and Motor RPM	Motor Voltage	Shipping Wt./Lbs.
34-761	Single Phase 1½ HP	Push Button Switch with Overload	TEFC	60-3450	115/230	455
34-763	Single Phase 3 HP	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-3450	230	477
34-764†	Three Phase 5 HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-3450	230/460	464
34-765			TEFC	60-3450	200	464

NOTE: Single phase 1½ HP electricals will be supplied wired for 230V unless 115V is specified. Single phase 3 HP electricals will be supplied wired for 230V only. Three phase electricals will be supplied wired for 230V unless 460V is specified. Power Cord and Plug supplied on single phase UNISAWS only. Motors and Motor Controls for Delta 10" UNISAWS

may be ordered unmounted. For listing, see Section R.

†No. 49-000 "JIC" Type Control Kit. Specify this catalog number, in addition to Three Phase Cat. No. 34-783 or 34-764, in order to obtain 10" UNISAWS with "JIC" type electricals, factory mounted and wired.

Machine Data

Diameter of Arbor	..... $\frac{5}{8}$ " (15.8 mm)
Diameter of Blade	..... 10" (254 mm)
Capacities:	
Maximum depth of cut	..... $3\frac{1}{8}$ " (79.3 mm)
Maximum rip to right of blade	..... 25" (635 mm)
Maximum rip to right of blade with extra long guide bars (accessory)	..... 50" (1270 mm)
Maximum rip to left of blade	..... $15\frac{1}{2}$ " (393.7 mm)
Maximum thickness of cut at 45°	..... $2\frac{1}{8}$ " (53.9 mm)
Distance, front of table to center of blade	..... $16\frac{13}{16}$ " (427 mm)
Table in front of saw blade at maximum cut	..... $12\frac{1}{4}$ " (311.1 mm)
Maximum width of dado	..... $1\frac{3}{16}$ " (20.6 mm)
Table:	
Height	..... 34" (863.6 mm)
Size	..... 20 x 27" (508 x 685.8 mm)
Size with Extension Wings	..... 36 x 27" (914.4 x 685.8 mm)
T-Slot Miter Gage Groove	..... $\frac{3}{8}$ x $\frac{3}{4}$ " (9.5 x 19.05 mm)

Overall Dimensions with Wings and Guide Bars:

Depth	..... $35\frac{3}{4}$ " (908 mm)
Width	..... $45\frac{3}{8}$ " (1152.5 mm)
Height	..... $36\frac{3}{4}$ " (933.4 mm)

Speed:

With 3450 RPM Motor 4000 RPM

Rip Fence locked both front and back by single handle at front of machine

Dust Collection Capability see Page O3

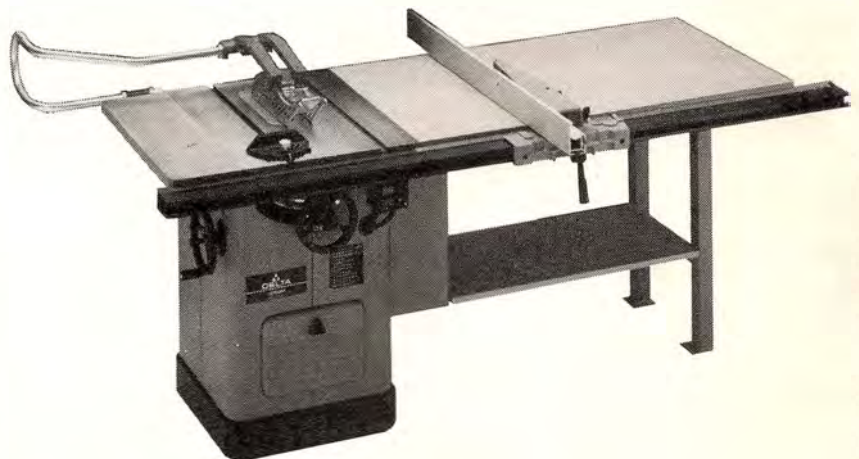
See Page A16 for UNIFENCE[™] Saw Guide.

See Page J2 for Stock Feeder.

See circular saw accessories beginning on Page A17

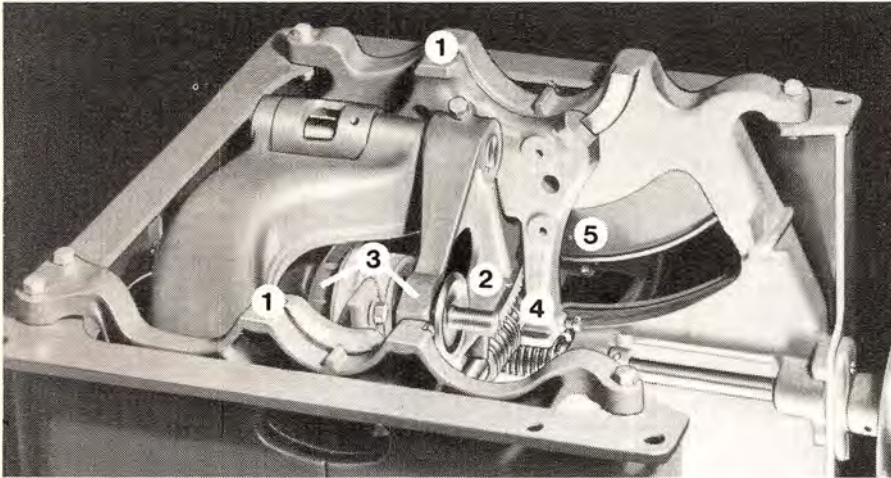


10" UNISAW shown with 34-985 Stock Feeder for fast, repetitive ripping operations.

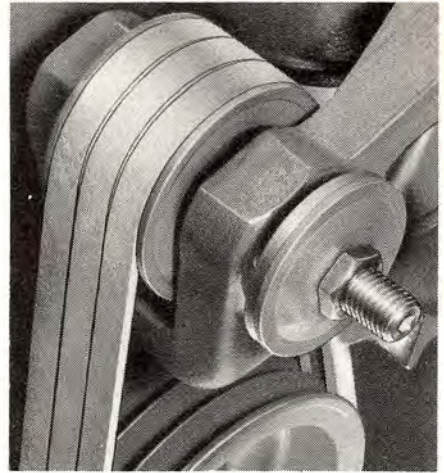


10" UNISAW shown with UNIFENCE saw guide and accessory 34-885 UNIGUARD saw guard and 34-843 motor cover.

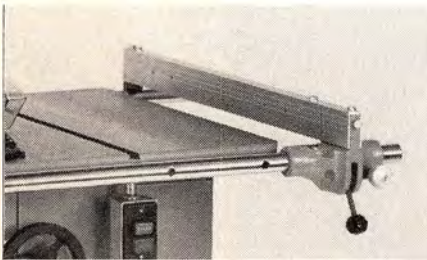
Delta 10" UNISAW® Quality Features



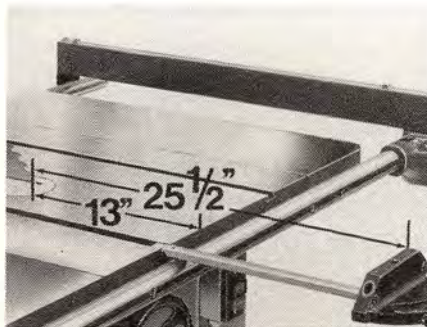
UNISAW® features that set the standard in industry: 1. Widely spaced, massive trunnions carry the husky saw carriage. Machined from fine-grained cast iron, trunnions are completely adjustable to insure perfect alignment. 2. Precision ground, stress-proof arbor is flange-faced after assembly. 3. Positive traction, three-belt drive operates between two massive, lifetime ball bearings. 4. Specially designed Acme threads prevent sawdust and chips from jamming trunnion rack. 5. Adjustable blade stops at 90° and 45° assure lifetime accuracy.



Positive Traction, Three-Belt Drive. Three-belt drive makes use of all power from the motor—eliminates vibration and assures smooth operation. You get no loss of power through belt slippage.



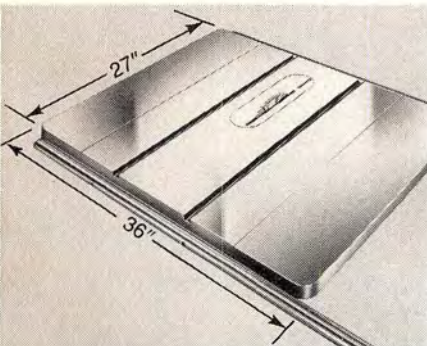
Exclusive Jet-Lock, Micro-Set® Rip Fence. Single control handle automatically aligns fence parallel to blade as it simultaneously locks to front guide rail; then, fence locks securely to rear guide bar. Extruded aluminum fence body is pre-drilled to mount wooden faceplate for dadoing and moulding.



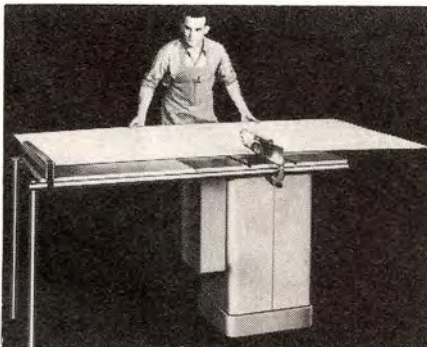
Modern T-Slot Table. T-slots on either side of saw blade hold miter gage securely, even beyond front of table. They provide accurate support for work up to 25½" on 1" stock. Miter gage can't twist or fall out.



Exclusive Delta 24-Volt Safety Control Station. Delta 10" UNISAWS® offer a low 24 volts at the push button station for extra operator safety. Magnetic motor control system, mounted in dust-tight enclosure, provides on-off control, low-voltage control and no-voltage protection. Start/stop push button station is conveniently located "up front", easily accessible to the operator.

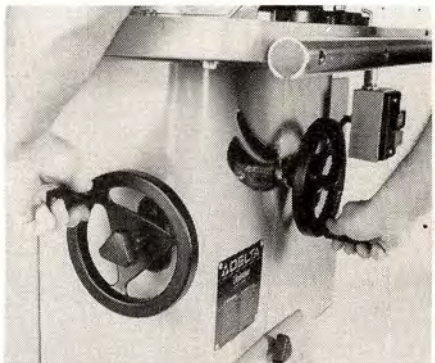


Large, Specially Designed Table. Big 27 x 36" cast iron table (with wings) has accurately ground face for precision work. Table and wings are scientifically ribbed to prevent warping and springing.



Giant Rip Capacity. Extra Long Guide Bars expand the rip capacity of the Delta 10" Unisaw to the center of a 100" panel. Give you the extra rip capacity usually found only on much larger and much more expensive saws. This low-cost accessory (No. 34-472) makes the Delta Unisaw the ideal machine for ripping large, bulky panels and other hard-to-handle materials.

Note: Standard guide bars furnished with machine are used as supports for Extra Long Guide Bars.



Conveniently Placed Controls. Hand wheels are located at convenient height and proper position for easy operation. No interference between controls. Knobs in center of wheels lock mechanism at desired settings.

UNIGUARD for all Delta UNISAWS®

**A versatile saw guard.
Has practically no
operational limitations.
Permits ripping to the
center of a 50" panel!**

In industry, the building trades, custom and school shops, users express the same requirements of a saw guard. It should provide protection for all saw operations; it should be easy to use; it should be easy to remove and replace.

The Delta UNIGUARD meets all of these requisites and more!

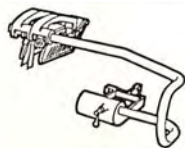
Here's why:

It provides protection for all cutting operations. • Mounts easily without special machining. • Unique, double basket with "disappearing" splitter provides guarding for even rabbeting operations. • Splitter has anti-kickback protection feature. • Fixed splitter maintains

perfect alignment with saw blade at all times. • "Clear-View" basket offers excellent visibility for every operation. • Offers extra large capacity with ease of operation. • Low in cost... less than half the price of comparable guards.



Catalog Listing

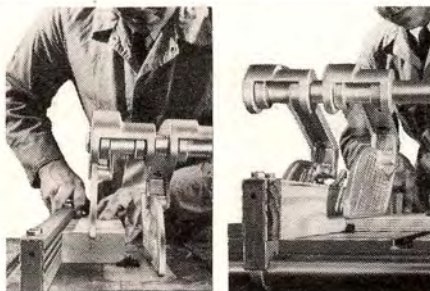


No. 34-885 Uniguard, for all Delta UNISAWS®. Includes stable mounting bracket, support arm, two bracket arms, two guards, plastic shield, splitter assembly with anti-kickback fingers and instructions for mounting. 15 lbs.

Quality UNIGUARD Features

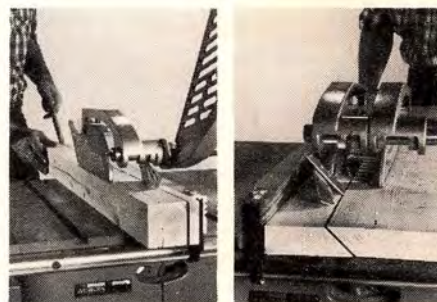


Unique Disappearing Splitter. For dadoing and similar operations, flip basket up, remove saw insert and depress splitter—a two-second operation. For ripping or cross-cutting, reverse this easy, quick operation.



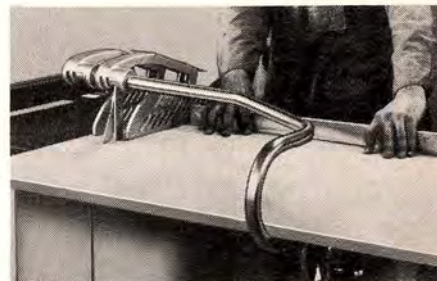
(Left) Moulding. UNIGUARD affords excellent operator protection for all jobs, even when the "disappearing" splitter is not required. Split basket design permits basket to raise up onto stock while other basket stays on table for maximum operator protection.

(Right) Rabbeting. The close-to-fence operation heretofore could not be performed with a conventional guard. The UNIGUARD's "disappearing" splitter and lateral adjustment feature make it safe.



(Left) Ripping Thin Stock. Special split basket design permits use of push stick between rip fence and adjustable plastic shield. Splitter fingers prevent kickback of stock.

(Right) Angle Cutting. UNIGUARD's retractable splitter tilts with the arbor while the "clear-view" basket remains stationary. Provides operator increased visibility.



Big Cut-Off Capacity. Modern, operator-engineered UNIGUARD provides unusually wide cut-off capacity. With miter gauge extended to end of T-slot, operator can cut off stock up to two feet wide.

Delta 10" Tilting Arbor Bench Saw

**A high quality,
big capacity saw at a
modest price!**

Many users, from the industrial plant to the cabinet or school shop, desire a bench saw that offers big saw features with precision cutting performance, all at an economical price.

Delta's 10" Tilting Arbor Bench Saw answers this challenge. It offers 3 $\frac{1}{8}$ " depth of cut and rips to the center of a 50" panel (100" with

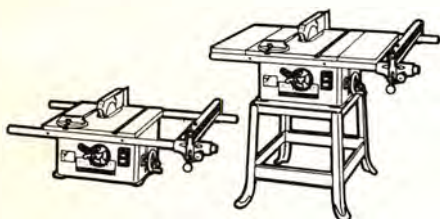
extra long guide bars)—has a large 36 x 27" T-slot table—self-aligning, Micro-Set® rip fence—table-top adjustable saw blade stops—heavy duty, TEFC, ball bearing motor—and much more.

See this new standard in bench saws today!



No. 34-429 Bench Saw
with accessory 49-364
Casters.

Catalog Listing



No. 34-426 Basic Machine less extension wings. Includes 10" Tilting Arbor Bench Saw, 34-641 "see-thru" splitter-mounted blade guard, JET-LOCK rip fence, 34-105 combination blade, 34-895 miter gage, front graduated guide bar, rear guide bar, 34-154 table insert, 41-203 motor pulley with $\frac{5}{8}$ " bore and V-belt. Without motor and switch. 158 lbs.

NOTE: For Motors and Controls, see Section R.

No. 34-429 10" Tilting Arbor Bench Saw complete, for single phase operation.

Includes 34-426 Saw with 34-545 pair of side extension wings, 50-315 steel stand, 62-006 1 $\frac{1}{2}$ HP, 115/230 V., TEFC motor with manual control switch and 230 V grounding type plug. Saw shipped unassembled. 302 lbs.

Machine Data

Diameter of Arbor	$\frac{5}{8}$ " (15.8 mm)	Size	20 x 27" (508 x 685.8 mm)
Diameter of Saw Blade	10" (254 mm)	Size with extension wings	36 x 27" (914.4 x 685.8 mm)
Capacities:		T-slot miter gage groove	$\frac{3}{8}$ x $\frac{3}{4}$ " (9.5 x 19.05 mm)
Maximum depth of cut	3 $\frac{1}{8}$ " (79.3 mm)	Speed:	
Maximum rip to right of blade	25" (635 mm)	With 3450 RPM motor	4000 RPM
Maximum rip to right of blade with extra long guide bars (accessory)	50" (1270 mm)	Rip fence is locked both front and back by single operating handle at front of machine.	
Maximum rip to left of blade	15 $\frac{1}{2}$ " (393.7 mm)	Overall Dimensions:	
Maximum thickness of cut at 45°	2 $\frac{1}{8}$ " (53.9 mm)	With Wings and Guide Bars	30 $\frac{1}{4}$ " x 45 $\frac{3}{8}$ " (768.3 x 1152.5 mm)
Distance, front of table to center of blade	16 $\frac{13}{16}$ " (427 mm)	Shipping Weight	158 lbs. (71.6 Kg.)
Table in front of saw blade at maximum cut	12 $\frac{1}{4}$ " (311.1 mm)		
Maximum width of dado	1 $\frac{3}{16}$ " (20.6 mm)		
Table:			
Height (bench model)	12 $\frac{1}{4}$ " (311.1 mm)		
(on steel stand)	33 $\frac{1}{2}$ " (850.9 mm)		

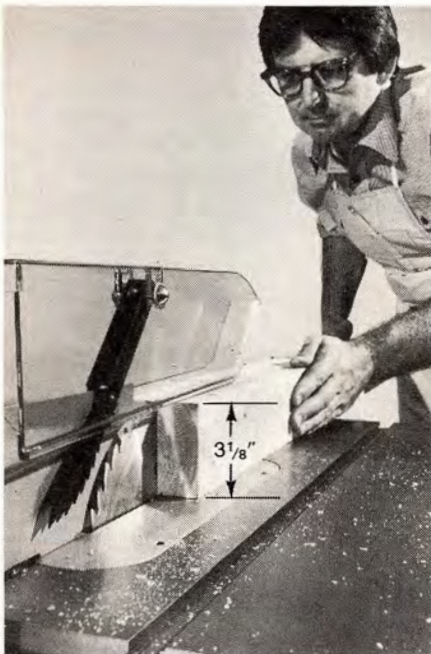
See Page J2 for Stock Feeder.

See Page A16 for UNIFENCE™ Saw Guide.

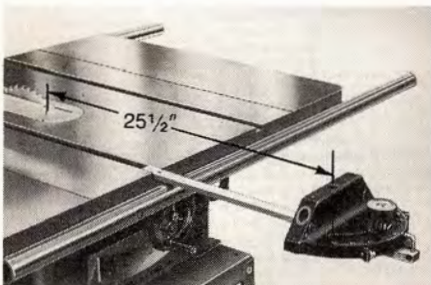
See circular saw accessories beginning on Page A17

See Page A11 for UNIGUARD™ Saw Guard.

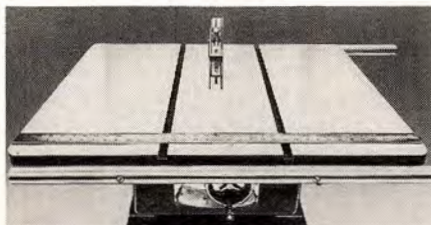
10" Tilting Arbor Bench Saw Quality Features



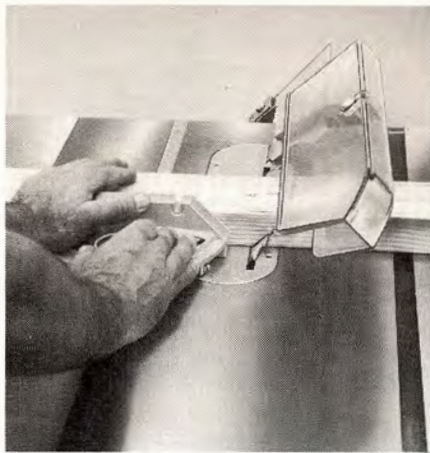
Big Saw Capacities. This Delta saw offers capacities not usually found in bench saws—cuts stock $3\frac{1}{8}$ " thick...rips to center of a 50" panel, 100" with Extra Long Guide Bars (accessory).



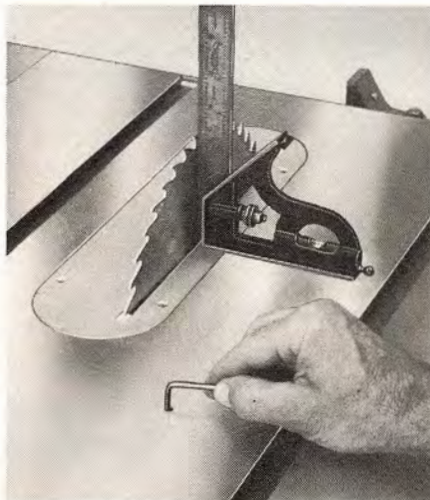
Preferred T-Slot Table. T-slots on either side of saw blade hold miter gage securely, even beyond front of table. They provide accurate support for work up to $25\frac{1}{2}$ " on 1" stock. Miter gage can't twist or fall out.



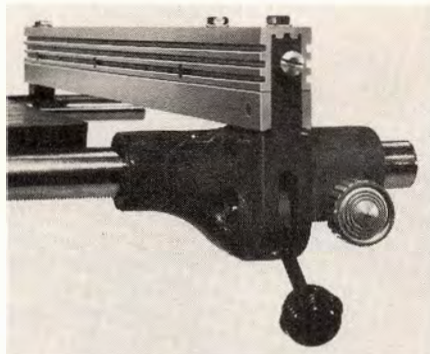
Extra Large Table Surface. Big 36 x 27" table (with wings) provides extra support for handling large panels. Precision ground table is scientifically ribbed to prevent warping and distortion.



Correct Blade Tilt. Unlike some competitive saws, the blade on the Delta 10" bench saw tilts *to the right*, away from the operator's hands. This assures greater safety for the operator because most people prefer to work on the *left* side of the blade.



Adjustable, Positive Stops on Table. Saw blade stops can be adjusted for perfect 90° and 45° settings on the top of the table. Saw blade insert contains similar adjusting screws for levelling insert in place.



Exclusive Jet-Lock, Micro-Set® Rip Fence. Single control handle automatically aligns fence parallel to blade as it simultaneously locks to front guide rail; then, fence locks securely to rear guide bar. Extruded aluminum fence body is pre-drilled to mount wooden faceplate for dadoing and moulding.



Rugged Interior Construction. The heavy trunnions support a large cast iron trunnion bracket which carries the arbor assembly. Note husky rack and gear mechanism that assures smooth, easy positioning of saw blade.



Conveniently Grouped Controls. All controls are grouped "up-front" for fast, safe operation. Smooth functioning rack and gear mechanism makes it easy to raise, tilt and lower saw blade while 3-spoke lock holds desired saw settings.



Exclusive Delta Safety Control Station. Shrouded green "start" button prevents accidental starts while protruding "red" stop button is extra large for quick, emergency stops. Switch cover and buttons are made of non-conductive material for added safety.

Delta 10" Contractor's Saw

Precision performance plus built-in quality features throughout!

The Delta 10" Contractor's Saw is built with just one thought in mind—to produce a machine that will offer precision accuracy, big capacity, maximum convenience and more built-in value than any similar saw on the market.

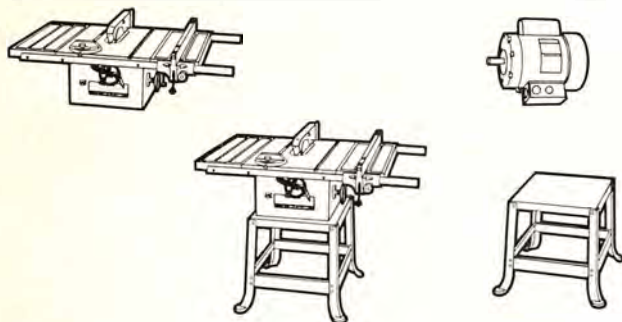
You will agree when you check its many fine features: Big saw capacities—extra large table surface—self aligning rip fence—"see thru" blade guard with anti-kickback attachment—up-front controls—lubricated-for-life ball bearing design—plus rugged interior construction.

Let us show you this BIG VALUE saw in action today!



No. 34-410
10" Contractor's Saw
Shown with electricals.

Catalog Listing



No. 34-440 10" Contractor's Saw with extension wings. Includes basic machine, 34-658 "see thru" blade guard with splitter and anti-kickback attachment. Jet-Lock rip fence, front graduated guide bar, rear guide bar, 34-895 miter gage, 10" saw blade, table insert, arbor pulley, 41-043 motor pulley ($\frac{5}{8}$ " bore), 49-034 V-belt and two 34-862 table extension wings. Less motor and stand. 192 lbs.

No. 34-410 10" Contractor's Saw with extension wings, Stand, Belt and Pulley Guard. Includes 34-440 basic machine; 50-315 stand and 34-965 belt and pulley guard. Less motor. 223 lbs.

Basic Accessories

No. 62-042 Motor, 1½ HP, single phase, ball bearing, capacitor start, 3450 RPM, 115/230V, TEFC, with 8-foot cord with 115V grounding type plug, remote control on-off toggle switch, with locking feature and cord connected to motor. 42 lbs.

No. 50-315 Stand for 10" Contractor's Saw. 28 lbs.

Machine Data

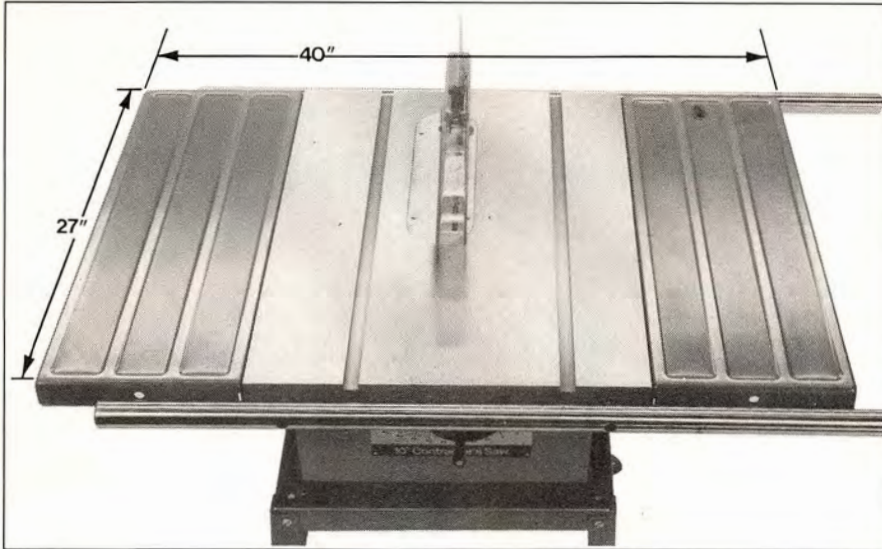
Speed:	
With 3450 RPM motor.....	4000 RPM
Blade:	
Diameter.....	10" (254 mm)
Arbor.....	$\frac{5}{8}$ " (15.8 mm)
Capacity:	
Max. depth of cut.....	3 $\frac{1}{8}$ " (79.375 mm)
Max. depth of cut at 45°.....	2 $\frac{1}{8}$ " (53.975 mm)
Max. rip to right of blade.....	.25" (635 mm)
Max. rip to right of blade with extra long guide bars (accessory).....	.50" (1270 mm)
Max. rip to left of blade.....	15 $\frac{1}{2}$ " (83.7 mm)
Table in front of saw blade at maximum cut.....	12 $\frac{1}{4}$ " (311.15 mm)
Max. width of dado.....	1 $\frac{3}{16}$ " (20.64 mm)
Table:	
Size.....	20 x 27" (508 x 685.8 mm)
Height on steel stand.....	34 $\frac{1}{4}$ " (184.95 mm)
Size with extension wings.....	40 x 27" (1016 x 685.8 mm)
Miter gage groove.....	$\frac{3}{8}$ x $\frac{3}{4}$ " (9.525 x 19.05 mm)
Overall Dimensions:	
Height.....	18" (457.2 mm)
Width.....	.45" (1143 mm)
Depth.....	39 $\frac{3}{4}$ " (1009.65 mm)

See Page J2 for Stock Feeder.

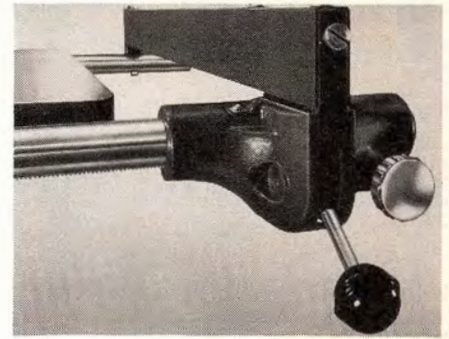
See Page A16 for UNIFENCE™ Saw Guide.

See circular saw accessories beginning on Page A17.

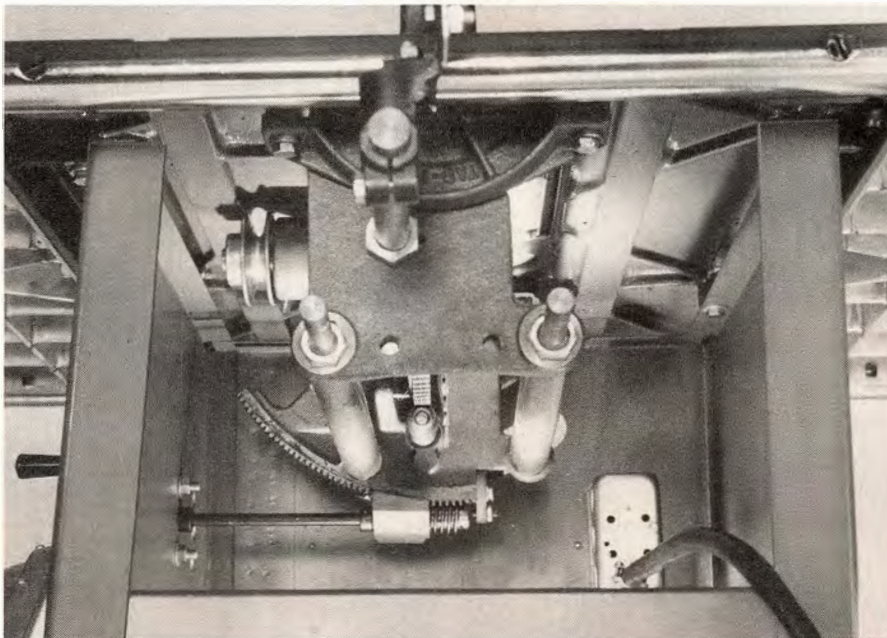
10" Contractor's Saw Quality Features



Large Table Surface. Contractors like the big 40 x 27" table on the 10" saw. Table is precision ground and scientifically ribbed to prevent warping and distortion.



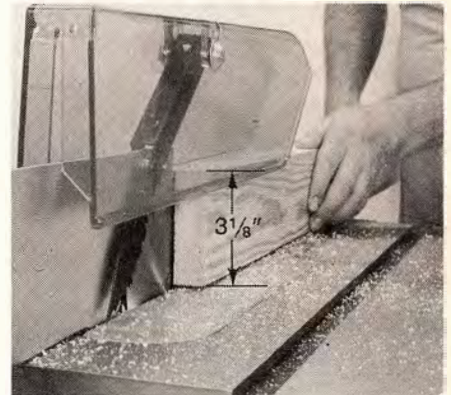
Exclusive Jet-Lock, Micro-Set® Rip Fence. Single control handle automatically aligns fence parallel to blade as it simultaneously locks to front guide rail; then, fence locks securely to rear guide bar.



Positive-Action Rack and Worm Gear blade elevating and tilting mechanism outperforms and outwears less costly, threaded screw and nut arrangement of some competitive saws.

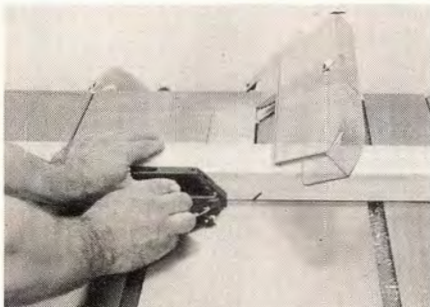


Blade Raising and Tilting Controls. Are located up front for easy, safer operation. Protected on-off switch prevents accidental starts.



Big Capacity. The 10" Contractor's Saw cuts stock $3\frac{1}{8}$ " thick and rips to the center of a 50" panel (100" with accessory Extra Long Guide Bars).

Preloaded, lubricated-for-life ball bearings with precision bored bearing seats and accurately ground arbor assure longer, trouble-free operation.



Correct Blade Tilt. Unlike some competitive saws, the blade on Delta Contractor Saws tilts *to the right*, away from the operator's hands. This assures greater safety for the operator because most people prefer to work on the *left* side of the blade.



Rigid Splitter Support. Splitter for "clearview" blade guard has a double mounting that provides the rigidity required for accurate cutting. Guard has spring-loaded, anti-kickback fingers.

Delta UNIFENCE™ Saw Guide

**Accurate, versatile!
Big capacity!
Steps up production!**

Now the world famous Delta 10" UNISAW®, the ultimate in sawing machines, is better than ever. With the addition of the UNIFENCE Saw Guide, precision cutting is simple and easy. You can make accurate set-ups in seconds to keep production moving.



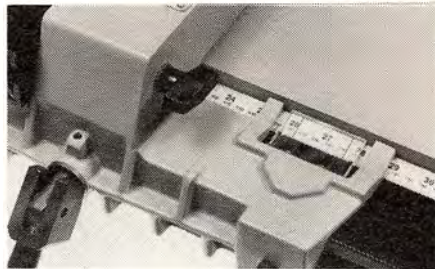
With the Delta UNIFENCE Saw Guide exceptionally accurate ripping of large stock (including 4' x 8' panels) is easily and quickly accomplished.

You can reduce labor costs by eliminating time-consuming measuring. You can stop work spoilage because the accurate scale and fine witness lines allow you to make settings to 1/64th of an inch while the control lever solidly locks fence at desired setting.

Check its other special features: two-position fence can be set up vertically for normal ripping, or set horizontally for trimming laminates; short fence section (accessory) is excellent for accurate, repetitive cut-off work.

The unique Delta UNIFENCE offers a giant step forward in precision cutting performance.

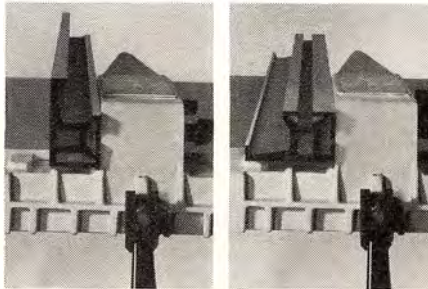
UNIFENCE Quality Features



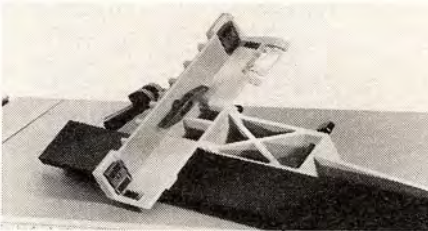
Dual English/Metric Scale. UNIFENCE scale is calibrated in 32nds of an inch, providing 51" or 96" rip capacity to right of blade. Fence may be set to 1/64th inch accuracy when required. Viewing window has two fine witness lines—one for fence used in horizontal position and one for fence used in vertical position.



Trimming Laminated Stock. When fence is in horizontal position, it may be raised 1/8", making it ideal for trimming laminated materials. Note how laminate can overlap fence while straight edge of panel is used for ripping reference.

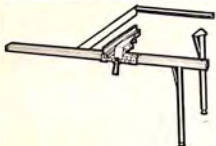


Two-Position Fence. Versatile fence may be set vertically for normal ripping or horizontally for convenient trimming operations on laminates. Fence is made of extruded, anodized aluminum for protection against corrosion; also provides a long-lasting wear surface.



Fence Carriage Assembly. Large 14 3/4" wide, cast aluminum fence carriage assembly is designed for maximum strength while light in weight. Using a cam lock, control lever solidly locks fence at desired setting while lock knobs firmly secure fence to carriage. Fence glides on six bearing pads for smooth, effortless positioning. Entire fence and carriage may be instantly removed from guide rail by a simple twist of the locking lever.

Catalog Listing



No. 34-897 Unifence Saw Guide. 51" Capacity. For Delta 10" UNISAWS® (new and old style models), 10" Tilting Arbor Bench Saw and 10" Contractor's Saw. Includes fence, carriage assembly, front guide bar, table frame, legs and mounting hardware. No. 34-998 Table and Shelf Boards listed under Accessories must be ordered separately or may be made by user following instructions provided with the UNIFENCE. 70 lbs.

No. 34-908 Unifence Saw Guide. 96" Capacity. Same as 34-897 except with longer front rail, extra set of legs, table frame and mounting hardware. Table and shelf must be made by user.

Machine Data

Capacities:

Rip to right of saw blade 51" or 96"
Rip to left of saw blade 8 3/4"

Fence:

Length 43"
Height (vertical position) 3 1/2"
Height (horizontal position) 1/2"
Adj. above table surface (horizontal) 1/4"
Adj. above table surface (vertical) 1/8"

Guide Bar:

Overall length 83" or 128"
Scale calibrations (English) 1/32"
Scale calibrations (Metric) 1.0mm

Table Size 27" deep x 48" or 93" wide

Delta Quality Extras

- Fence is adjustable for parallelism from front of saw *without* removing fence from machine.
- When ripping to left of saw blade is necessary, fence may be repositioned to right of fence carriage for this operation.

Accessories

No. 34-878 Cut-Off Fence, 10 1/2" long, for repetitive cut-off operations. 2 1/2 lbs.

No. 34-894 Fence, 43" long. Same as supplied with 34-897 UNIFENCE. Ideal for use as spare fence for rabbeting and moulding operations. 6 3/4 lbs.

No. 34-998 Table and Shelf Boards. For

34-897. With laminate coating for long life. Table board measures 3/4" x 27" x 48"; shelf board 3/4" x 15" x 40". 53 lbs.

No. 34-867 Front Rail, with 96" capacity to right of blade. 32 lbs.

No. 34-909 Set of Legs, table frame and mounting hardware.

Delta Circular Saw Accessories

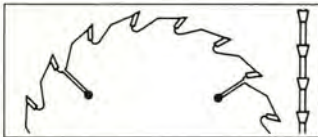
Industrial Carbide-tipped circular saw blades

Designed, engineered and manufactured to uncompromising quality standards for optimum cutting performance and maximum service life. Made from quality materials, quality controlled at each step of production. Check their many fine features:

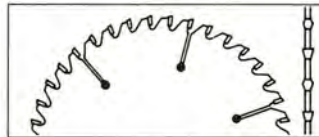
- Fine-grain carbide tips, consistent in composition and highly resistant to wear. Laboratory tested pre- and post-sinter.
- Chrome alloy steel body, polished, roll-and-hammer tensioned and balanced for running accuracy.
- Expansion slots to dissipate heat; prevent warping. With copper rivet inserts to reduce noise level.
- Tips silver brazed to body by high-frequency electric techniques. Impact tested to guarantee set.
- Tooth clearance angle precision-ground for smoothness. Cutting edges mirror polished for razor sharpness, cutting efficiency.



Four Popular Tooth Designs



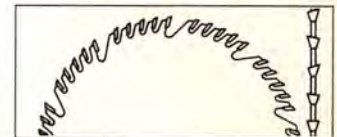
Flat Top Grind (FT). Generally, for cutting material with grain. Larger gullets on this type blade accept greater chip loads; permit higher feed rates. Excellent for ripping on either single or multi-rip machines where speed of cut is more important than quality of cut. Teeth with square or flat top shape act as chisels, cutting material with chisel-like action. Also serve as rakers to clean out the cuttings or chips.



Triple Chip & Flat Grind (TC&F). Recommended for cutting brittle and/or hard, abrasive-type materials. Two shapes of teeth—alternate triple-edge and flat top design for dual action cutting. Triple-edge teeth chip down center of kerf; flat top raker teeth follow to clean out material from both sides. TC&F blades with negative hook angle are also recommended for cutting non-ferrous metals. Negative hook angle prevents climbing; gives you total control over the feed rate. Generally, the blade with the higher number of teeth will produce the higher quality of cut.



Alternate Top Bevel Grind (ATB). For across-the-grain cutting and/or cut-off and trimming operations on undefined grain work. Top bevel shaped teeth sever the material with shearing action alternately left and right. Given a choice, the ATB blade with the higher number of teeth will produce the higher quality of finish cut. Where finish is no concern, select the blade with fewer teeth.



Alternate Top Bevel & Raker (ATB&R). Excellent for cutting operations both with and/or across the grain. Achieves a fairly high level of quality over wide range of cuts. Two sets of shearing-action alternate left and right top bevel teeth followed by a raking action flat top tooth with large round gullet to facilitate chip removal.

Select the right blade with the appropriate tooth design for the material to be cut on your particular job!

The chart lists the Delta Carbide-tipped Blades recommended for various type machines and rates each of them according to the material to be cut and the quality of finish cut you can expect on a particular operation.

Catalog Number	Blade Description	Plate	Kerf	Hook	Bore	Material													Application	
						Hardwood	Softwood	Plywood	Compositions	Single Sided Laminates	Double Sided Laminates	Non-ferrous Metal	Tile/Asbestos	Solid Plastic	Hard Fibers/Paper	Rip	Trim Cut With Grain	Trim Cut Across Grain		

Miter Boxes, Sawbuck Frame & Trim Saws, Radial Saws and Other Pendulum Type Cutting Machines

35-593	8" x 48 TC&F	.079	.110	-6°	5/8"	10	10	8	8	10	10	10	8	10	8		F	F
35-600	9" x 80 TC&F	.086	.118	-6°	5/8"	10	10	8	8	10	10	10	8	10	8		F	F
35-619	10" x 60 TC&F	.094	.118	-6°	5/8"	9	9	7	8	9	9	9	7	9	7		F	F
35-622	10" x 80 ATB	.086	.126	5°	5/8"	7	7	10	10	9	8	na	na	5	7	F	F	F
35-625	10" x 80 TC&F	.094	.118	-6°	5/8"	10	10	8	8	10	10	10	8	10	8		F	F
35-626	10" x 60 ATB	.086	.126	5°	5/8"	5	6	7	5	10	8	na	na	3	4		F	F
35-646	12" x 60 TC&F	.102	.126	-6°	1"	9	9	7	8	9	9	9	7	9	7		F	F
35-655	12" x 96 ATB	.095	.142	5°	5/8"	7	7	10	10	9	8	na	na	5	7	F	F	F

F = Fine M = Medium C = Coarse

Ten (10) rating indicates blade works best cutting that type of material.

Delta Circular Saw Accessories (continued)

Catalog Number	Blade Description	Plate	Kerf	Hook	Bore	Material													Application	
						Hardwood	Softwood	Plywood	Compositions	Single Sided Laminates	Double Sided Laminates	Non-ferrous Metal	Tile/Asbestos	Solid Plastic	Hard Fiber/Paper	Rip	Trim Cut With Grain	Trim Cut Across Grain		

Circular Saws

35-590	8" x 48 TC&F	.079	.110	50	5/8"	8	8	5	5	6	4	10	5	10	5		F	F
35-591	8" x 24 ATB	.079	.118	100	5/8"	10	10	8	8	8	5	na	na	4	4	M	M	F
35-592	8" x 64 ATB	.079	.118	80	5/8"	6	6	10	10	9	8	na	na	7	10		M	M
35-601	9" x 60 TC&F	.079	.118	100	5/8"	5	5	9	10	na	na	na	10	na	9		M	F
35-602	9" x 34 ATB	.079	.118	100	5/8"	9	9	9	8	8	5	na	na	na	8		M	M
35-603	9" x 24 ATB	.079	.118	150	5/8"	8	8	8	7	7	4	na	na	na	7		M	M
35-604	9" x 64 ATB	.079	.118	100	5/8"	6	6	9	10	9	8	na	na	8	10		M	M
35-605	9" x 48 ATB	.086	.126	100	5/8"	5	5	6	8	10	8	na	na	na	8		M	F
35-606	9" x 40 ATB&R	.086	.126	150	5/8"	10	10	8	8	na	na	na	na	na	na		M	
35-611	10" x 18 FT	.086	.118	200	5/8"	10	10	8	8	na	na	na	na	na	na	M		
35-612	10" x 24 ATB	.086	.126	200	5/8"	10	10	8	8	8	6	na	na	na	5	F	M	F
35-613	10" x 40 ATB	.086	.126	120	5/8"	8	8	9	9	7	6	na	na	na	na		M	M
35-614	10" x 48 ATB	.086	.126	120	5/8"	9	9	10	10	8	7	na	na	na	na		F	F
35-615	10" x 48 TC&F	.086	.126	120	5/8"	5	4	4	10	6	5	na	10	na	9		F	F
35-616	10" x 60 ATB	.086	.126	120	5/8"	7	8	8	9	10	7	na	na	na	7		M	F
35-617	10" x 50 ATB&R	.086	.126	150	5/8"	10	10	8	8	na	na	na	na	na	na	F	F	F
35-618	10" x 60 TC&F	.086	.126	120	5/8"	8	7	8	8	5	3	na	10	na	10		M	F
35-620	10" x 72 ATB	.086	.126	80	5/8"	9	8	7	5	10	7	na	3	3	na		F	M
35-621	10" x 72 TC&F	.086	.126	100	5/8"	7	6	7	5	10	8	na	na	5	na		M	F
35-623	10" x 80 ATB	.086	.126	80	1"	5	6	8	10	9	4	na	na	na	10		M	F
35-624	10" x 80 TC&F	.086	.126	100	5/8"	5	5	7	7	9	10	na	na	10	na		F	F
35-641	12" x 24 FT	.095	.142	200	1"	10	10	8	8	na	na	na	na	na	na	M		
35-642	12" x 36 ATB	.095	.142	150	1"	10	10	8	8	8	6	na	na	4	6	F	M	M
35-643	12" x 48 TC&F	.095	.142	150	1"	9	9	9	8	9	8	na	10	na	8		F	F
35-644	12" x 48 ATB	.095	.142	150	1"	7	7	9	9	7	6	na	na	na	na		M	M
35-645	12" x 60 TC&F	.095	.142	100	1"	10	10	10	9	10	9	na	10	na	9			
35-647	12" x 72 ATB	.095	.142	120	1"	6	5	6	10	10	8	na	na	na	6		M	F
35-648	12" x 90 TC&F	.095	.142	100	1"	5	5	7	7	9	10	na	na	10	na		F	F
35-649	12" x 96 ATB	.095	.142	80	1"	5	6	7	10	9	4	na	na	na	9		F	M
35-656	12" x 60 TC&F	.126	.173	100	5/8"	9	9	9	8	8	7	na	na	na	8	F	M	F
35-657	12" x 60 ATB&R	.086	.126	150	1"	10	10	8	8	na	na	na	na	na	na	F	F	F
35-671	14" x 24 FT	.110	.157	200	1"	10	10	8	na	na	na	na	na	na	na	M		
35-672	14" x 42 ATB	.110	.157	150	1"	10	10	8	8	8	6	na	na	4	6	M	M	F
35-673	14" x 72 ATB	.110	.157	120	1"	9	9	8	8	7	6	na	na	5	7		F	F
35-674	14" x 84 TC&F	.110	.173	100	1"	8	7	5	4	5	3	na	10	na	10		M	F
35-675	14" x 84 ATB	.110	.173	120	1"	6	5	6	10	10	8	na	na	na	6		M	F
35-676	14" x 108 TC&F	.110	.173	100	1"	5	5	7	7	9	10	na	na	10	na		F	F
35-677	14" x 108 ATB	.110	.173	80	1"	5	6	7	10	9	4	na	na	na	9		M	F
35-691	16" x 36 FT	.126	.173	200	1"	10	10	8	8	na	na	na	na	na	na	M		
35-692	16" x 48 ATB	.126	.173	150	1"	10	10	8	8	8	6	na	na	4	6	M	M	F
35-693	16" x 60 ATB	.126	.173	100	1"	7	7	9	9	7	6	na	na	na	na		M	M
35-694	16" x 60 TC&F	.126	.173	100	1"	9	9	8	8	8	7	na	na	7	10		F	F
35-695	16" x 80 ATB	.126	.173	100	1"	9	9	8	8	7	6	na	na	5	7		F	F
35-696	16" x 96 ATB	.126	.173	100	1"	6	5	6	10	10	8	na	na	na	6		M	F
35-697	16" x 96 TC&F	.126	.173	100	1"	8	7	5	4	5	3	na	10	na	10		M	F
35-698	16" x 128 TC&F	.126	.173	100	1"	5	5	7	7	9	10	na	na	10	na		F	F

Gang Rip and Single Rip Saws (very fast feed rate)

35-610	10" x 10 FT	.086	.126	200	5/8"	10	10	8	8	na	na	na	na	na	na	C		
35-640	12" x 12 FT	.086	.142	200	1"	10	10	8	8	na	na	na	na	na	na	C		
35-670	14" x 14 FT	.110	.157	200	1"	10	10	8	8	na	na	na	na	na	na	C		
35-690	16" x 16 FT	.126	.173	200	1"	10	10	8	8	na	na	na	na	na	na	C		

F = Fine M = Medium C = Coarse

Ten (10) rating indicates blade works best cutting that type of material.

Complete Selection of Saw Blades



Combination/Rip. For rip and cut-off work. Higher number of teeth gives better quality of cut

Cat. No.	Diameter	Teeth	Arbor Hole
34-531	8"	44	
34-708	9"	44	5/8"
34-105	10"	44	
34-197	12"	44	1"



Master Combination. A general-purpose blade for fast, smooth ripping, cross-cutting and mitering.

Cat. No.	Diameter	Teeth	Arbor Hole
34-536	8"	12 Sections	
34-163	9"	16 Sections	5/8"
34-164	10"	16 Sections	



Thin Rim/Plywood. A special-purpose plywood cutting blade. Thin rim clearance for splinter-free cutting.

Cat. No.	Diameter	Teeth	Arbor Hole
34-534	8"	200	
34-165	9"	200	5/8"
34-166	10"	200	



Plywood/Paneling. For smooth, clean cutting of plywood, paneling and veneer. High number of teeth reduces splintering.

Cat. No.	Diameter	Teeth	Arbor Hole
34-535	8"	200	5/8"



Rip. Recommended for cutting with the grain in hard or soft woods.

Cat. No.	Diameter	Teeth	Arbor Hole
33-003	12"	36	5/8"
33-199	12"	24	
33-180	14"	32	1"
33-184	16"	32	



Hard Tooth Combination. A longer-lasting blade for rip and cut-off work. Features special flame-hardened teeth.

Cat. No.	Diameter	Teeth	Arbor Hole
34-709	9"	44	5/8"



Chisel Tooth Combination. All-purpose blade for ripping and cross-cutting when quality of cut is of little concern relative to speed of cut.

Cat. No.	Diameter	Teeth	Arbor Hole
33-157	8"	28	
34-530	8"	28	
34-627	9"	28	5/8"
33-247	10"	28	



Hollow Ground Planer. All-purpose blade for ripping and cross-cutting and mitering. Gives satin smooth finish; eliminates sanding.

Cat. No.	Diameter	Teeth	Arbor Hole
34-532	8"	12 Sections	
33-227	9"	16 Sections	5/8"
34-016	10"	16 Sections	
33-005	12"	18 Sections	
33-228	12"	18 Sections	
33-182	14"	22 Sections	1"
33-186	16"	22 Sections	



Crosscut. For cutting across the grain in hard or soft woods when a smoother finish is needed.

Cat. No.	Diameter	Teeth	Arbor Hole
34-533	8"	100	
33-223	9"	100	5/8"
34-018	10"	104	
33-004	12"	112	
33-246	12"	112	
33-002	14"	100	1"
33-001	16"	100	

Carbide-Tipped Scoring Saw Blade Sets



Matched sets of (14" & 4" diam. and 10" & 4" diam.) scoring saw blades with flat top shaped teeth and 1" diam. arbor hole for cutting melomine, coreboard, laminates and other manmade materials.

No. 35-680. For 14" Sliding Table Panel Scoring Saw. 14" Dia. x 72T/TC&F and 4" Dia. x 24T/Flat Grind Blades.

No. 35-630. For 10" Scoring Saw. 10" Dia. x 48T/TC&F and 4" Dia. x 24T/Flat Grind Blades

Individual Scoring Saw Blades

Although not available in set form, a 4" dia. scoring blade in a conical tooth design can be ordered to match either the 14" or 10" main blade. Note also that scoring blades are available separately with 3/4" arbor hole for

those who prefer using the 3/4" arbor extension on the 14" Sliding Table Panel Scoring Saw.

Cat. No.	Description	Hook Angle	Kerf	Arbor Hole
35-678	14" Dia. x 72T/TC&F	10	.157"	1"
35-629	10" Dia. x 48T/TC&F	10	.157"	1"
35-583	4" Dia. x 24T/F. G.*	—	.161"	1"
35-584	4" Dia. x 24T/C. G.†	—	.150"-.165"	1"
35-581	4" Dia. x 24T/F. G.*	—	.161"	3/4"
35-582	4" Dia. x 24T/C. G.†	—	.150"-.165"	3/4"

* F. G. - Flat Grind † C. G. Conical Grind

Dado Head Sets



Carbide-Tipped Dado Head Sets. Four stackable dado assemblies consisting of two outer blades, (1/8" thick) and four inside chippers (1 - 1/4" thick; 2 - 1/8" thick and 1 - 1/16" thick) in 6" and 8" diameter sets with 5/8" arbor hole and 8" and 10" diameter with 1" arbor hole; all complete with sturdy wood storage case. Cut grooves from 1/8" to 13/16" wide. Individual replacement blades and chippers also available separately. No. 35-566, 35-570 and 35-540 Dado Head Sets are not recommended for use on 9" and 10" table saws.

Cat. No.	Description	Outer Blades		Inside Chippers		
		1/2" Thk. L.S.	1/2" Thk. R.S.	1/8" Thk.	1/8" Thk.	1/16" Thk.
35-560	6" Dia. w/5/8" Arbor Hole	35-551L	35-551R	35-552	35-553	35-554
35-560	8" Dia. w/5/8" Arbor Hole	35-561L	35-561R	35-562	35-563	35-564
35-570	8" Dia. w/1" Arbor Hole	35-571L	35-571R	35-572	35-573	35-574
35-540	10" Dia. w/1" Arbor Hole	35-541L	35-541R	35-542	35-543	35-544



No. 34-333 Production Type 6" Dia. Dado Head Set. High quality steel. Consisting of two hollow ground outer blades (1/8" thick) and five inside cutters (four 1/8" thick and one 1/16" thick). With 5/8" arbor hole. Cuts grooves from 1/8" to 13/16" wide. 3 1/2 lbs.

No. 34-334 Economy 6" Dia. Dado Head Set. High quality steel. Consisting of two flat ground outer blades (1/8" thick) and five inside cutters (four 1/8" thick and one 1/16" thick). With 5/8" arbor hole. Cuts grooves from 1/8" to 13/16" wide. 4 lbs.

Delta Circular Saw Accessories (continued)

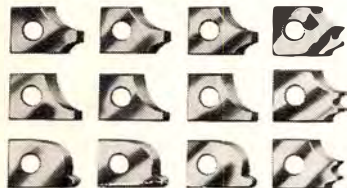
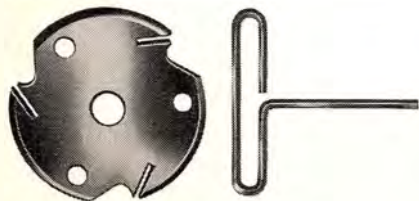
Delta Micro-Set™ Adjustable Dado

No. 34-959 Micro-Set™ Adjustable Dado. For ploughing, rabbeting, grooving or making decorative cuts. Adjusts without removing dado from saw arbor. You just dial the width of cut you want from 1/4" to 13/16". Depth of cut can be set to a maximum of 3/4" deep. The supplied 6 3/8" blade, with 5/8" arbor hole, has 12 carbide tips for cutting wood and plastic laminates smoothly and accurately many times. Supplied in a sturdy plastic carrying case. 2 lbs.



NOTE: Do not use on machines exceeding 7000 RPM.

Moulding Cutterhead Sets



No. 34-813 Heavy Duty Moulding Cutterhead & Knife Set. Includes No. 34-562 cutterhead, No. 34-521 wrench and Nos. 35-102, 35-103, 35-221 and 35-222 cutterhead knives. For use on 1/2" and 5/8" dia. arbors. 4 lbs.

No. 34-821 Basic Moulding Cutterhead & Knife Set. Includes No. 34-562 cutterhead, No. 34-521 wrench and No. 35-102 set of knives. For use on 1/2" and 5/8" dia. arbors. 3 lbs.

No. 34-562 Moulding Cutterhead. Heavy duty, solid steel. For use on 1/2" and 5/8" arbors. Less wrench and knives. 3 lbs.

No. 34-941 Moulding Cutterhead, Heavy duty, solid steel 6" diameter, to fit 1" or 1 1/8" saw arbors. Less wrench and knives. 10 lbs.

No. 34-521 Wrench. For moulding cutterhead. 1/8 lb.

With a Moulding Cutterhead and these 32 sets of knives you can get thousands of different mouldings on your circular saw. Can be used with all Delta Moulding Cutterheads.

Each set consists of three knives. 1/4 lb. Knives are shown 1/2 size.



35-100
1/2" Cove,
5/16" Quarter Round



35-101
5/16" Cove,
3/8" Bead



35-102
1/8" and 3/8" Quarter
Round and 1/4" Bead



35-103
1/4" and 1/2"
Quarter Round



35-104
Straight



35-106
90° V-Groove



35-110
Drawer Joint



35-120
Ogee



35-121
Window Sash



35-123
Door Moulding (m)



35-126
Door Moulding (f)



35-131
Glue Joint



35-190
3 Bead (3/16" Bead)



35-196
Wedge Tongue



35-197
Wedge Groove



35-198
Table Edge



35-201
1/2" Flute



35-202
1/2" Bead



35-204
3/4" Flute



35-211
1" Flute



35-221
Thumb Moulding



35-222
1/2" Cove & 1/4" Flute



35-223
Ogee



35-224
5/8" Cove



35-236
5/8" Flute



35-237
5/8" Bead



35-238
3/4" Bead



35-241
1/4" Tongue



35-242
1/4" Groove



35-243
Cove & Bead Moulding



35-245
Oval Sash



35-247
Door Lip

For Hook-Up of Circular Saws to Wood Dust Collectors

No. 50-220 Table Saw Connector. 5" dia. outlet. Including mounting screws. Attaches to underside of saw mounted to No. 50-315 Open Stand.

No. 50-222 Unisaw Connector. 5" dia. outlet. Attaches over opening in base frame of Delta Unisaw.

No. 50-236 Increaser. 4" to 5". Clamping lug on 4" end. Attaches to exhaust chute of Delta RE-35 and RT-40 Saw.

No. 50-237 Increaser. 3" to 5". Clamping lug on 3" end. Attaches to exhaust chute of Delta RT-31 Saw.

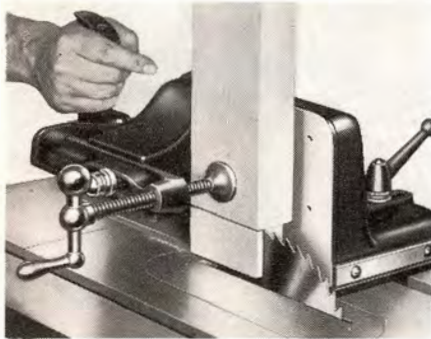
For adapters and quick-disconnects, see Dust Collectors on Pages O1 to O4.

For RT-40 14" T.A. Saw

No. 34-796 Extra Long Guide Rails. Permit ripping to the center of a 100" panel. 81 lbs.

NOTE: For complete information on Automatic Electronic Brake, see Page P2.

For 10" Saws



No. 34-172 Tenoning Attachment.

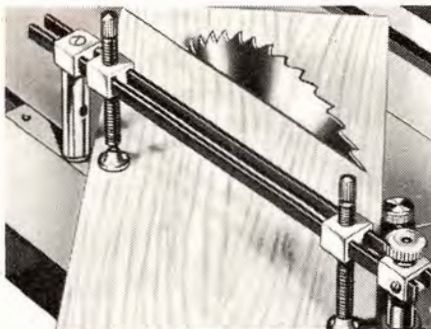
Simplifies operation of cutting tenons for mortise and tenon joints. Stock can be fed with one hand—far removed from saw blade(s). Handles stock up to 2 3/4" thick. Base plate included. 30 lbs.

No. 34-171 Spacer Collars. Set of two: 1/4" and 3/8" widths with 5/8" arbor hole. For spacing saw blades to cut tenons in one pass. 1 lb.



No. 34-895 Auto-Set® Miter Gage.

For straight and angle operations. Has 3/8 x 3/4 x 18" guide bar and pivoting work support body with pointer and calibrations reading through 120° swing. Adjustable, positive stops at 90° and 45° positions. Accommodates No. 34-568 Clamp Attachment. 3 1/2 lbs.



No. 34-568 Clamp Attachment for Miter Gage. Holds work securely for accurate miter and cut-off operations. Complete with clamp bar, front and rear posts and two sliding clamp screws and blocks. For use with No. 34-895 Miter Gage. 1 1/2 lbs.

No. 34-873 Extra Clamp Screw and Block Only. For use with No. 34-568 Clamp Attachment. 1/2 lb.

No. 43-170 Tenoner for use with No. 43-186 Sliding Jig. Can also be used on wood shaper. 21 lbs.

Table Saw Inserts



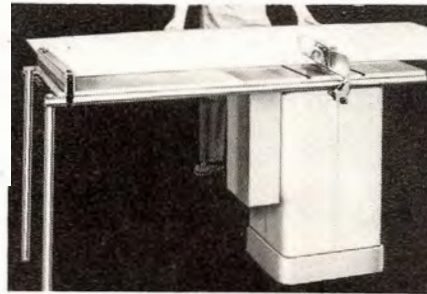
Dado head insert



Moulding cutterhead insert

Model	Standard	Dado	Moulding Cutterhead
10" Unisaw®	34-154	34-254	34-453
10" T.A. Bench Saw	34-154	34-254	34-453
10" Contractors' Saw	34-154	34-254	34-453

For 10" UNISAW®, 10" T.A. Bench Saw and 10" Contractors' Saw



No. 34-472 Extra Long Guide Bars that permit ripping to center of a 100" panel. 22 lbs.

No. 34-896 Aluminum Body Jet-Lock Micro-Set® Rip Fence complete. 20 lbs.



No. 34-869 Miter Gage Extension. For Delta 10" Unisaws, 10" T.A. Saws and 10" Contractors' Saws equipped with Unifence Saw Guide. Mounts to front guide rail of Unifence to increase cut-off capacity of saw by 13". Includes table, mounting hardware and instructions.

For 10" UNISAW®

No. 34-545 Side Extension Wings to make table 36 x 27" (per pair). 49 lbs.

No. 34-639 "See-Thru" Swing-Type, Splitter-Mounted Blade Guard complete with spring-loaded anti-kickback fingers. 8 lbs.

No. 34-843 Motor Cover with mounting hardware. 13 lbs.

No. 49-124 V-belts, matched set of three, 26 1/16" O.C. 1 1/2 lbs.

No. 50-260 Mobile Base. With support rods. For Unisaw equipped with Unifence Saw Guide. 30 lbs.

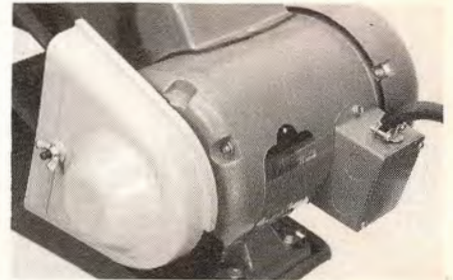
No. 50-261 Mobile Base. For Unisaw. 22 lbs.

For 10" T.A. Bench Saw

No. 34-545 Side Extension Wings to make table 36 x 27" (per pair). 49 lbs.

No. 34-641 "See-Thru" Splitter-Mounted Blade Guard complete with spring-loaded anti-kickback fingers. 6 lbs.

For 10" T.A. Bench Saw and 10" Contractor's Saw



No. 34-965 Belt Guard. Encloses entire V-belt and motor pulley, preventing small pieces of stock from striking and damaging the belt or pulley during operation. 4 lbs.

No. 49-364 Retractable Caster Set. 13 lbs.

No. 50-315 Steel Stand, 24" high with 20 x 22 1/2" top. 47 lbs.

No. 50-265 Mobile Base. For 10" Contractor's Saw or 10" T.A. Saw on 50-315 Stand. 31 lbs.

For 10" Contractors' Saw

No. 34-658 "See-Thru" Splitter-Mounted Blade Guard complete with spring-loaded anti-kickback fingers. 6 lbs.



Headquarters, Pittsburgh, PA

DELTA...Manufacturer of Wood and Metalworking Machinery for Use in Industry, the Building and Construction Trades, Schools and Home Workshops!

Manufacturing, Distribution and Service Facilities



Manufacturing Center, Tupelo, MS



Distribution/Service Center, Memphis, TN



Canadian Distribution/Service Center, Guelph, Ontario, Canada



Invicta-Delta Manufacturing Subsidiary, Limeira, S.P., Brazil

**Building
On Tradition**
DELTA
A Pentair Company

Delta Specialty Saws

Sawbuck Frame and Trim Saw

The only saw that cross-cuts, miters, bevels, cuts compounds, then folds up to roll away.

10" Motorized Miter Box

For fast, accurate miter and square cuts in a variety of materials.

The Lumber Co./Portable Sawmill

Cuts dimensioned lumber from rough logs on the spot where the tree is felled.



Delta Sawbuck® Frame and Trim Saw

Unique Delta Sawbuck Frame & Trim Saw

You've got to try it to believe it. The only saw that crosscuts, miters, bevels, cuts compounds, then folds up to roll away. The unique Delta Sawbuck Frame & Trim Saw does everything a miter box can. Plus

everything you could ask of a radial saw. Without the drawbacks of either one.

SAWBUCK has all the accuracy of a miter box, but a much bigger capacity. So you can make just about any cut (except rips) on any stock up to—and including—2 x 12's. Even bevel cuts on crown moulding.

Because the saw's two guide bars

are supported by arms on both ends, this remarkable tool maintains its accuracy as no radial saw can.

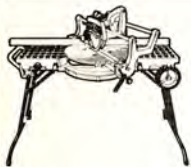
For all that, the Sawbuck Frame & Trim Saw is so light and so compact that you can set it up by yourself in less than a minute. And roll it from one place to another with just one hand. See it at your Delta Industrial Distributor today!



Delta Sawbuck Frame & Trim Saw No. 33-150

- Unmatched versatility—crosscuts, miters, bevels, cuts compounds, then folds up to roll away.
- Makes any cut (except rips) on almost any stock from moulding to 2 x 12's, vinyl or aluminum siding.
- Big capacity: 16" cut-off at 90°, 12" at 45°, 2 3/8" depth of cut at 90°, 2 1/8" at 45°.
- Powerful 15 amp gear drive motor.
- Built-in electronic blade brake.
- Extra large 21 3/4" miter scale with positive bevel and miter stops, plus special miter and bevel stops for crown moulding.
- Telescoping extension for supporting long stock.

Catalog Listing



No. 33-150 Frame & Trim Saw complete, including 15 amp, single phase motor with 6-foot, 3-conductor cord with 115 V grounding type plug; electronic, push button brake; blade guard; retractable leaf guard; stock stop; 8" saw blade; folding legs and wheels. 130 lbs.

Machine Data

Motor 15 amps, 115 V, AC, 25-60 Hertz, 5700 RPM, gear driven

Brake Electronic, manually operated, stops blade in one second

Blade Diameter:

Standard 8" (203.2 mm)

Maximum 8 1/4" (209.5 mm)

Minimum 7 1/4" (184.1 mm)

Arbor 5/8" (15.9 mm)

Capacity:

Cut-off at 0° 16" (406.4 mm)

Cut-off at 45° R & L 12" (304.8 mm)

Depth of cut at 90° 2 3/8" (60.3 mm)

Depth of cut at 45° 2 1/8" (54 mm)

Table:

Diameter of cutting surface 20 3/16" (512.8 mm)

Extension on both sides of table 12" (304.8 mm) long

Overall length 44 1/2" (1130.3 mm)

Fences 24" (609.6 mm) long.

Both R and L side of blade

Positive Stops:

Miter 0°, 45° right and left

Bevel 90°, 45° left

Stops for Cutting 52°-38° Crown Moulding:

Miter (positive) 31.62°

Bevel (ball detent) 33.85°

Storage Area Required,

Folded 32" wide x 22" deep

x 50" high (812.8 x 558.8 x 1270 mm)

Carton Size 33" wide x 24" deep

x 49" high (838.2 x 609.6 x 1244.6 mm)

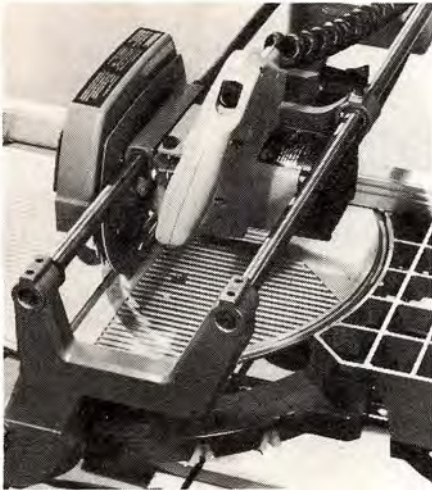
Net Weight 95 lbs. (43 Kg.)

Shipping Weight 130 lbs. (58.9 Kg.)

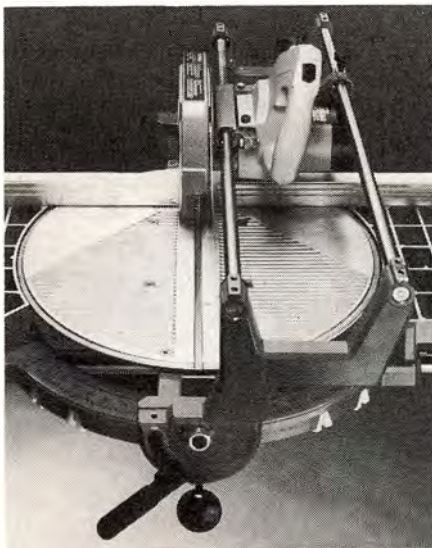
See Accessories on Page B8.



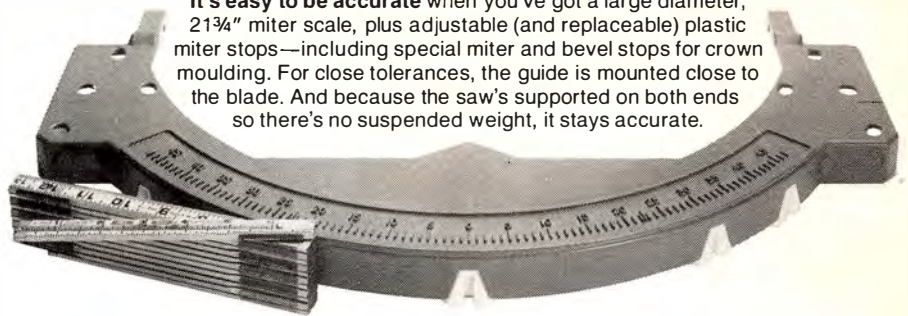
Sawbuck Quality Features



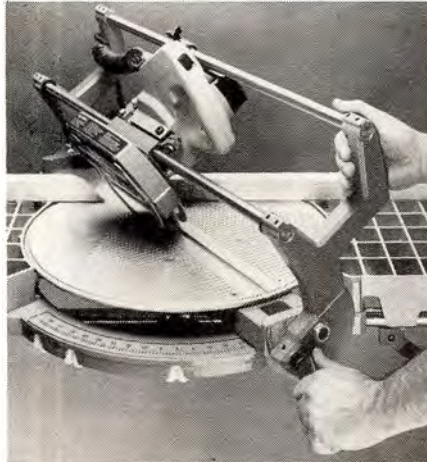
Accuracy Maintained. Because the saw is supported by arms at both ends, it will maintain its accuracy as no radial saw can. Even after traveling in the back of a pickup truck on a bumpy road.



Combines Accuracy and Portability. The unique SAWBUCK Frame & Trim Saw combines the accuracy and portability of a power miter box with the capacity of a radial saw. It handles most of the jobs they can—all by itself!



It's easy to be accurate when you've got a large diameter, 21 $\frac{3}{4}$ " miter scale, plus adjustable (and replaceable) plastic miter stops—including special miter and bevel stops for crown moulding. For close tolerances, the guide is mounted close to the blade. And because the saw's supported on both ends so there's no suspended weight, it stays accurate.



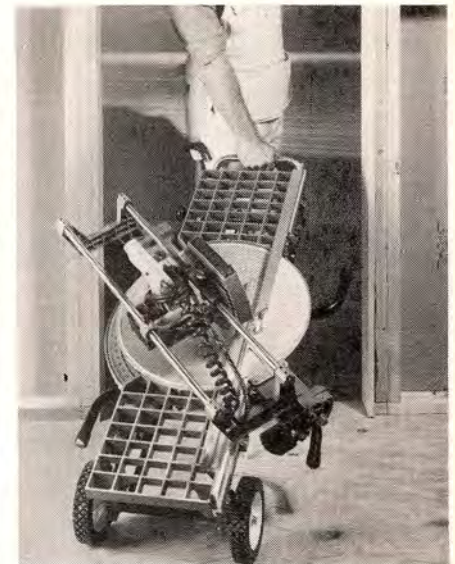
Set-up is Simple and Fast. Table center disc and fence move simultaneously with track arm for mitering. Motor tilts around a common table-level pivot point for beveling. No hand cranking necessary to set up for any cuts. Fast for changing settings, too!



Powerful 15 Amp, 5700 RPM Gear-Driven Motor features an electronic, manually operated blade brake. Stops blade in one second.



Compound Angle Cutting Simple and Fast. Special built-in bevel and miter stops make compound cutting of even the biggest crown moulding easy. You can cut inside or outside corners on 52/38 degree wall angle crown moulding and get tight fitting corners every time.

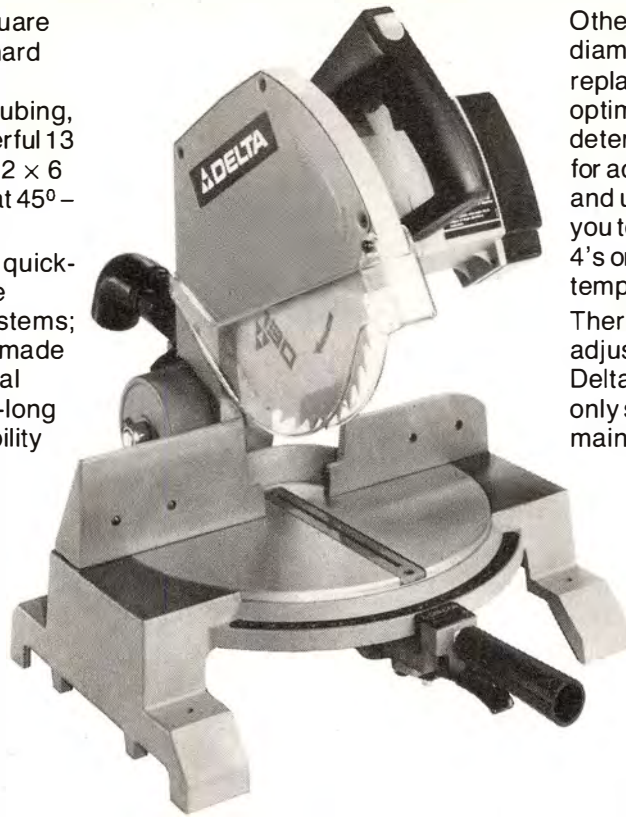


Fold-Up Legs, Wheels for Portability. When you're ready to go, so's your SAWBUCK Frame & Trim Saw, with its fold-up legs and big 7 $\frac{1}{2}$ " diameter wheels. Roll it anywhere with one hand. Fits through a standard doorway with no problem at all.

Delta 10" Motorized Miter Box

For fast, accurate miter and square cuts in a variety of materials – hard and softwoods; mouldings, aluminum extrusions, copper tubing, plastic pipe and more. Its powerful 13 amp motor lets you cross-cut a 2 x 6 or miter a 2 x 4 flat or on edge at 45° – all in a single pass.

An exclusive drive system with quick-change cog belt, eliminates the costly repairs of gear driven systems; replacement of the belt can be made right on the job site, with minimal down-time. Independent extra-long arbor adds greater cutting stability and accuracy.



Other features include a big 12" diameter rotating table with a replaceable cut-through insert for optimum chip breaking; positive detents at 90°, 45° and 22½° R and L for accurate cutting repeatability, and unique base design that allows you to position it over a couple of 2 x 4's on saw horses to make a temporary workbench.

There's even an exclusive heeling adjustment feature that makes the Delta 10" Motorized Miter Box the only saw that can be realigned to maintain true cutting accuracy.



Catalog Listing



No. 34-080 10" Motorized Miter Box.

Includes basic machine, 13 amp, 115V, 60 Hz motor, 10" all-purpose steel blade, replaceable table insert, see-thru blade guard, 5-foot cord, wrenches and instruction manual.

Machine Data

Motor 13 amp, develops up to 2.5HP,
115V, 25-60 Hz, AC-DC

Blade:

Diameter 10" (254.0mm)
Arbor 5/8" (15.8mm)
Speed 4500 RPM (under avg. load)

Capacity:

Cross Cut . . . 2½ x 5¾" (63.5 x 146.0mm)
3½ x 4¼" (88.9 x 104.6mm)
Miter 45° R & L . 3½ x 2¾" (89.9 x 72.9mm)
2¾ x 4" (60.2 x 101.6mm)
Miter 22½° R & L 3½ x 3¾"
(88.9 x 95.3mm)
2½ x 5¼" (63.5 x 133.4mm)

Fence Size: . . 3¾ x 6¾" (85.7 x 171.4mm) L
2½ x 6¾" (63.5 x 171.4mm) R

Table Size: . 16⅞ x 43⅙" (409.4 x 106.2mm)

Positive Stops: 90°, 45° and 22½° R & L

Overall Dimensions:

. 18¾" wide x 22" deep x 16⅞" high
(466.6 x 558.8 x 428.4mm)

Weight 55lbs.(24.9 kg.)

See Accessories on Page B8.

Delta Quality Features

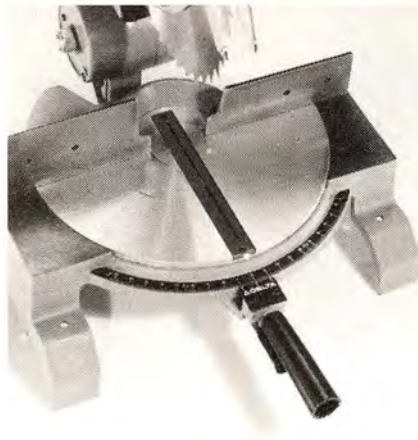


Unique Base Design. Allows you to position the tool over a couple of 2 x 4's on saw horses to make a temporary workbench. Lengthen

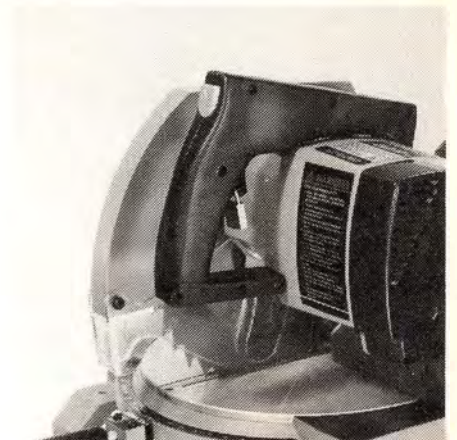
the 2 x 4's and add scrap blocks and you've got a custom-made extension table.



Heavy-Duty 13 Amp Motor. Develops up to 2.5 HP under load. Plenty of power to crosscut a 2 x 6 at 90° or miter a 2 x 4, flat or on edge, at 45° - in a single pass.

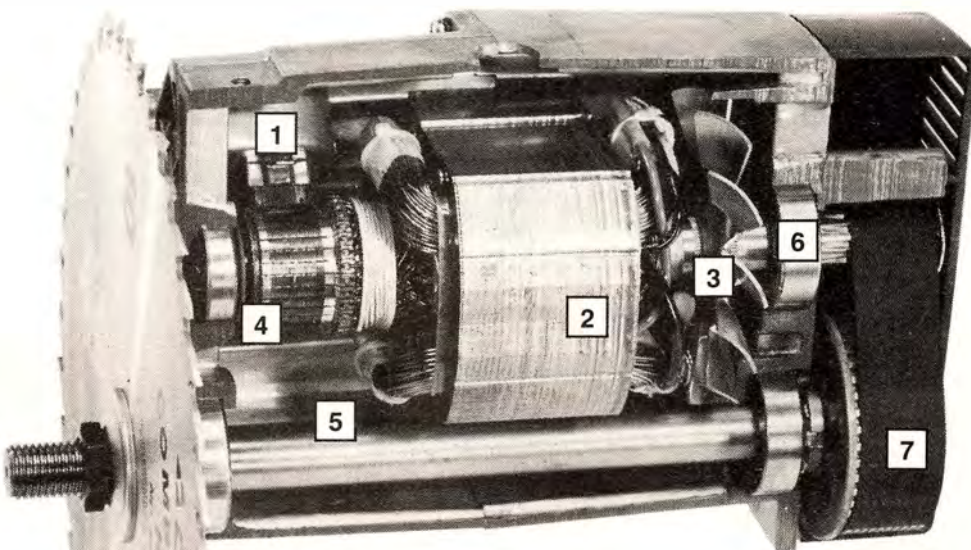


Big 12" Diameter Rotating Table. Features positive detents at 90°, 45° and 22½° R & L positions. Easy-to-read scale, accurate to ¼ of a degree, facilitates in-between settings. Extra-wide fence provides extra support when cutting wide crown mouldings.



Comfortable D-Handle. With fingertip control of the on-off trigger switch and brake button. Selective brake stops the blade in seconds for faster set up. Trigger switch can be locked to prevent unauthorized use.

Delta Quality and Craftsmanship Go Into Every Tool We Make



1. Spring loaded brushes for better commutation. Self-limiting type to protect the tool and alert the operator when brush maintenance is needed.
2. Machine wound armature with resin coated and bonded wire withstands high overload temperatures.
3. Efficient cooling system with multi-blade fan and flow-thru venting to maintain lower motor operating temperatures.
4. Heavy duty steel mica commutator with welded lead connectors. More resilient and resistant to heat for extended life.

5. Separate independent saw arbor (not an extension of motor shaft) for greater stability; increased cutting accuracy.
6. Lubricated for life ball bearings at vital wear points to assure trouble free performance with less maintenance.
7. Exclusive cog belt drive for maximum power to blade with minimum belt slippage. Positioned opposite the blade for faster, easier placement.
8. (Not shown) Full 16 Amp rated switch for positive power control and longer unit life.

Delta Portable Sawmill/The Lumber Company

Cut Dimensional Lumber from Rough Logs On the Spot Where the Tree is Felled

Now you can make boards any thickness from 1/8" to a full 5"; up to 18" wide from your own logs up to 23" in diameter.

A furniture maker's dream! Two men and the Delta Lumber Company can mill hundreds of board feet of dimensional lumber in a day's time. Its industrial rated 5HP, 4-Cycle, Briggs & Stratton engine will run over 8 hours on just 2 gallons of gas.

An adjustable slabbing rail is used to guide the horizontal rollers of the sawmill on the first cut to assure that all subsequent cuts are flat and even. Its narrow-kerf bandsaw blade produces more usable lumber with 80% less sawdust waste than circular or chain sawmills.

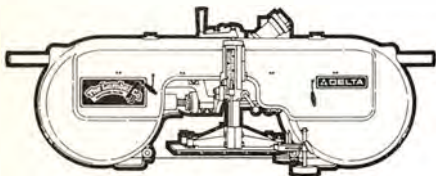
Made of aluminum, steel and a special ABS material, the Lumber Company weighs only 165 pounds; and can easily be moved from one wood site to another. No heavy loading or hauling equipment is required.

What's more, with an accessory resaw kit, the Lumber Company can be converted to a vertical band saw for wood site edging and resawing operations.

So when you start to multiply board feet times the price of oak, or times the price of walnut or cherry...and factor into that the quality of what you end up with...maybe it's time you thought of owning your own Lumber Company.



Catalog Listing



Cat. No. 36-360 The Lumber Company. Includes 5HP, 4-Cycle, Briggs & Stratton Gasoline Powered Engine; Lift and Carrying Handles; Front and Rear Guide Rollers; Hand-Operated Throttle Control; Spark Arrester Muffler; Blade and Wheel Guards; Centrifugal Clutch; Safety Stop Collar; V-Belt, Two 1 1/2" Wide x 120 1/2" Long Stellite Tip Saw Blades; Three Guide Rail Brackets and Operating Instructions.

Machine Data

Industrial Engine . . . 5HP, 4-Cycle, Briggs & Stratton, Gasoline Powered.

Equipped with Spark Arrester Muffler and Dual Air Filter System.

Capacities:

Thickness of Cut 1/8" to 5"

Handles Logs Up to 23" in Diameter

Length of Board Cut Unlimited

Blade:

Speed 5000 SF/M (No Load)

Length 120 1/2"

Width & Thickness . 1 1/2" Wide x .032 Thick

Type Alternate Stellite Tip; 3/4" Pitch

Kerf Cut Thickness090"

Overall Dimensions:

Width 60"

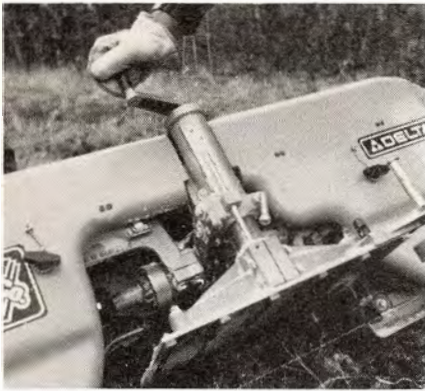
Depth 29"

Height 24"

Net Weight 156 lbs.

See Accessories on Page B8.

Delta Quality Features



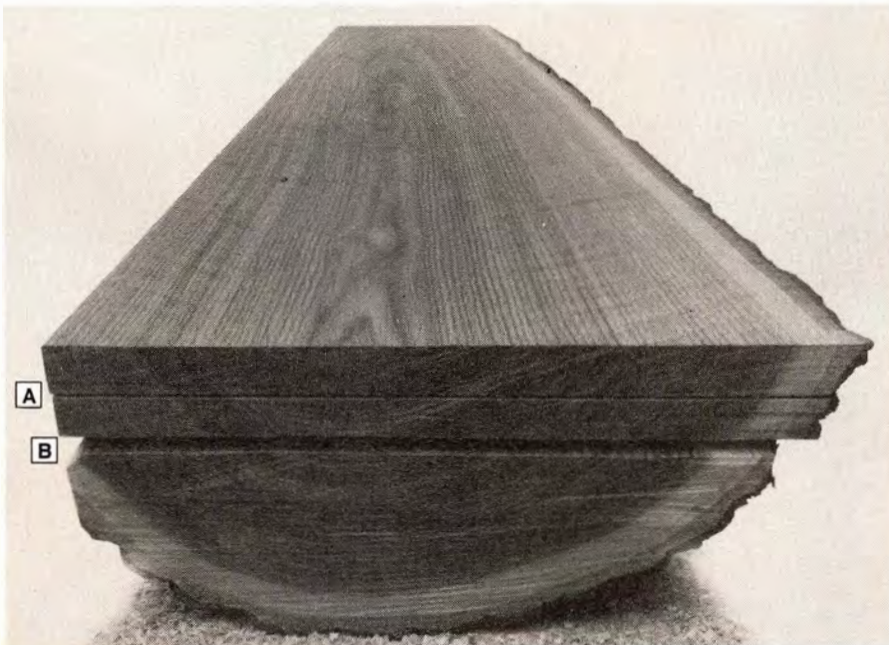
Thickness of cut is adjustable from 1/8" to a full 5". Cuts lumber up to 18" wide from logs up to a maximum 23" in diameter; to any length.



Guide wheel is set for width of log and depth of cut.

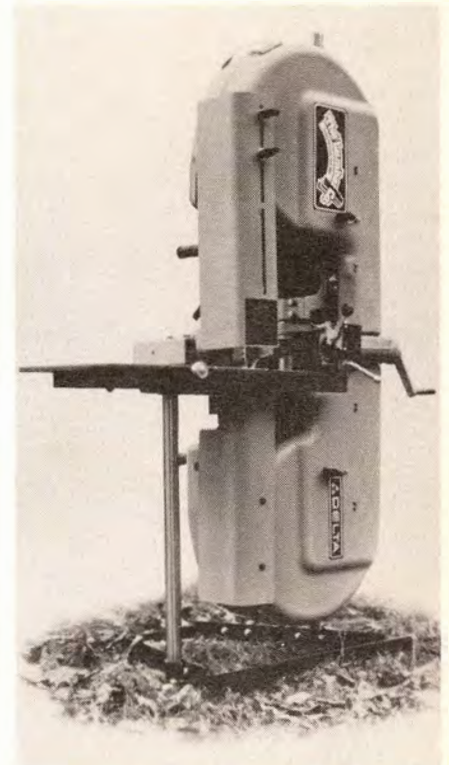


Slabbing rail gives the platen a smooth surface to ride on for the first cut only. Platen actually rides on the log for subsequent cuts; assures perfectly smooth, uniform cuts. Adjustable brackets nail tight to log to hold slabbing rail assembly in place.



A Lumber Company's narrow kerf band saw cut (.090 thickness of cut) **B** Standard sawmill or chainsaw mill kerf.

Efficient narrow kerf band saw blade (.032" thick) produces more usable lumber with 80 less sawdust waste than circular or chain saw mills.



Accessory resaw kit converts the Lumber Company to a vertical band saw for edging and resawing operations.

Delta Specialty Saws Accessories

For Sawbuck Frame and Trim Saw

No. 33-152 Extra Table Extension. For use on right side of machine.



No. 33-153 Stock Stop. Attaches to fence, for repetitive cut-off work.

No. 35-593 Carbide-Tipped 8" Dia. x 48 TC&F x 5/8" Saw Blade. With negative hook (-6°) angle for use on "pendulum" type machines whose cutting action is contrary to workfeed. For cutting hard and soft woods; non-ferrous metals; also plastics.

No. 35-590 Carbide-Tipped 8" Dia. x 48 TC&F x 5/8" Saw Blade. With 5° positive hook angle for sizing and mitering non-ferrous metal and plastic tubes and profiles.

No. 35-591 Carbide-Tipped 8" Dia. x 24 ATB x 5/8" Saw Blade. For cutting soft and hardwoods.

No. 35-592 Carbide-Tipped 8" Dia. x 64 ATB X 5/8" Saw Blade. A trimming and parting blade for plastic laminates, veneers, compositions and other hard fiber materials.

For 10" Motorized Miter Box

No. 34-083 Replacement Cog Belt.



No. 35-619 Carbide-Tipped 10" Dia. x 60 TC&F x 5/8" Saw Blade. With negative hook angle. For cutting non-ferrous metals, plastics; also finish cutting of hard and soft woods.

No. 35-625 Carbide-Tipped 10" Dia. x 80 TC&F x 5/8" Saw Blade. Extremely fine finish cutting of non-ferrous metals, hard and soft woods.

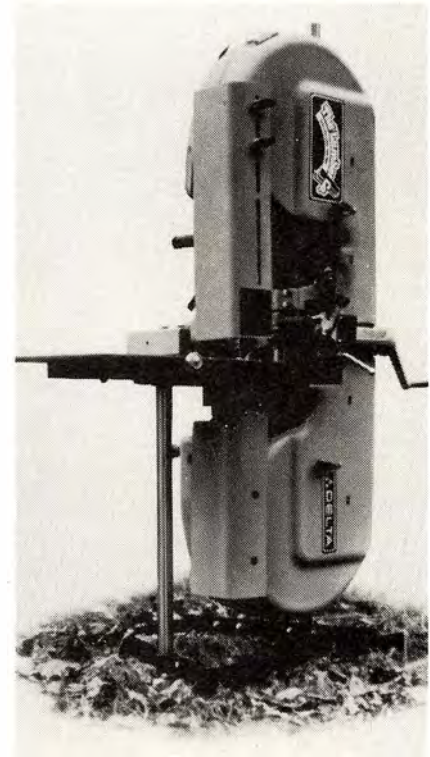


No. 34-084 Dust Bag. Attaches to dust spout of blade guard.

For The Lumber Company Portable Saw Mill

No. 36-733 Package of 3 Band Saw Blades. For cutting hard woods. All 1 1/2" Wide x 120 1/2" Long. .032" Thick. 3/4 Pitch. Alternate Setllite Tip.

No. 36-734 Package of 3 Band Saw Blades. For cutting soft woods. Same except 1" Pitch.



No. 36-366 Resaw Kit. Converts Portable Sawmill into a Vertical Band Saw for Edging and Resawing Operations. Includes Base, Table with Rip fence, Blade Guards, Throttle Control, Assembly Parts and Instructions.

Delta Radial Saws

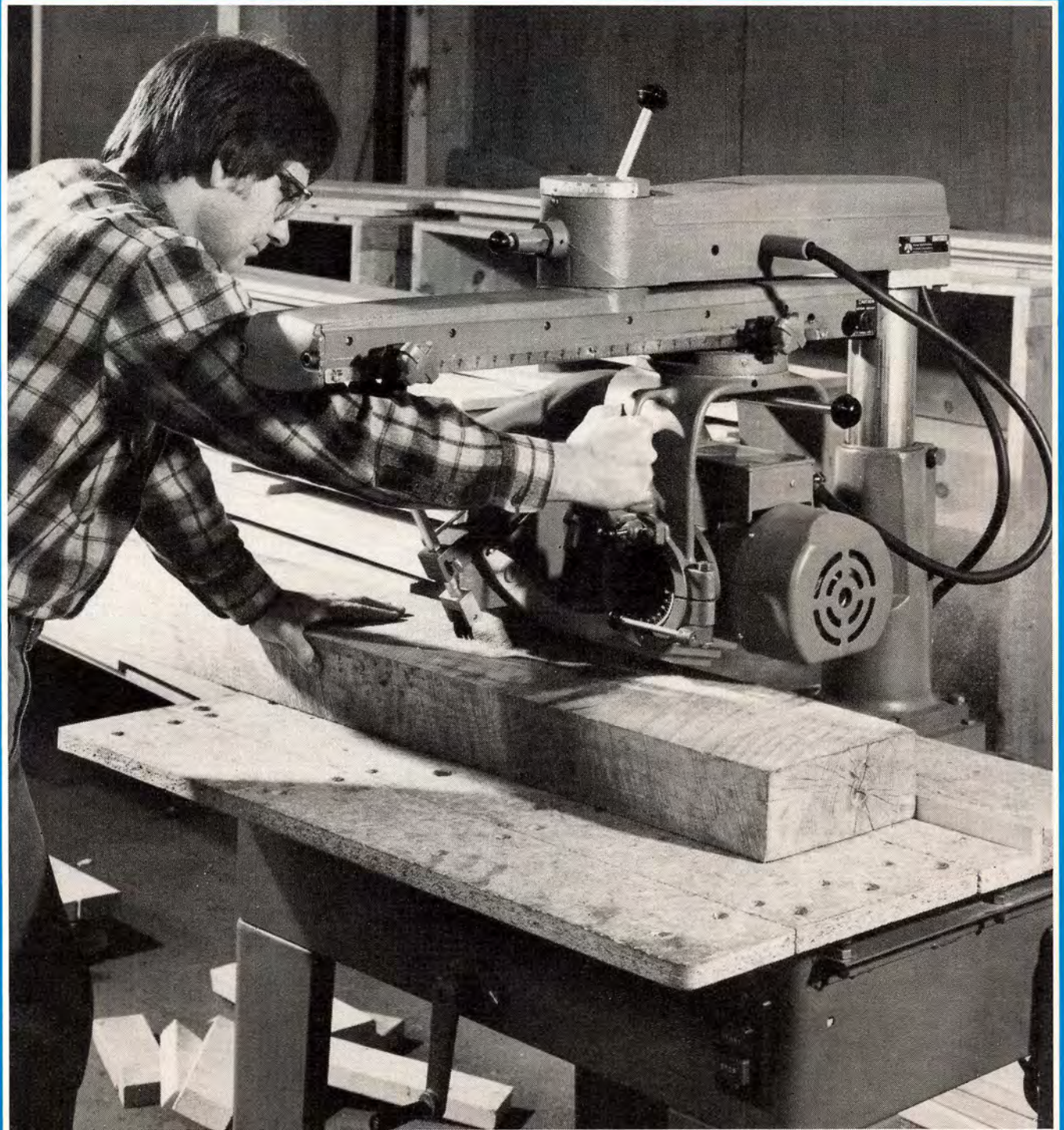
A model to satisfy every user!

18" Radial Saw—built for high production and continuous operation. Offers extra large capacities as required in lumber mills and shipyards.

16" Radial Saw—designed for continuous, accurate production cutting. Has an extra long overarm and spacious table to handle big cutting jobs.

14" Radial Saw—a high volume production performer that's well suited for either job site or shop use. Has same fine features as 16" Model.

12" Radial Saw—a portable unit that can be easily carried through a standard doorway to maximize profits on the job site as well as in the plant.



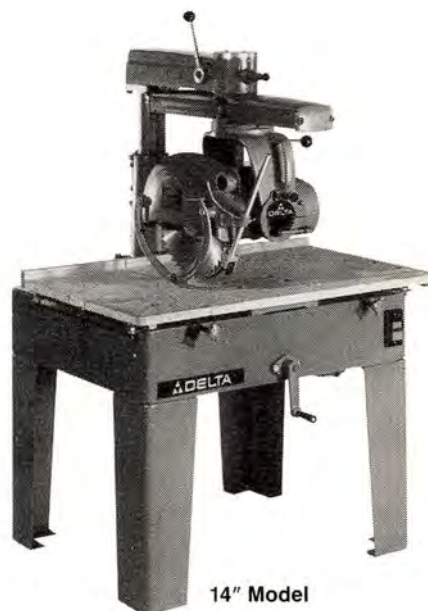
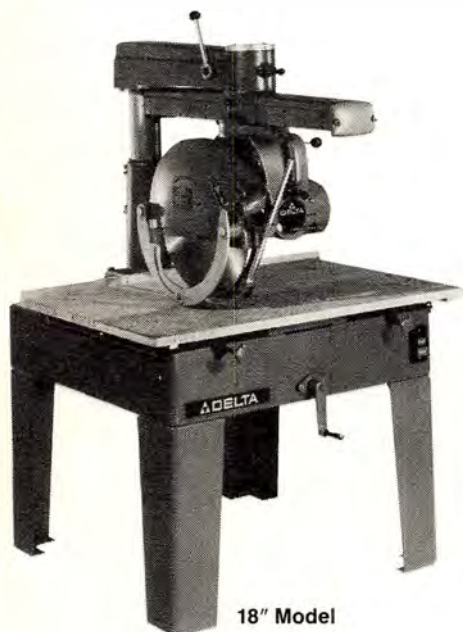
Delta 18", 16" and 14" Radial Saws

**Designed for faster,
more accurate cutting
...lower operating costs!
Ruggedly built for years
of dependable saw
performance!**

Whatever your operation—production line cutting in the shop or sizing stock out on the job site—Delta Radials will perform superbly for you. Their superior features make it all possible. Only Delta gives you "turret-arm" action for centralized cutting; an electronic brake that stops the blade in seconds; lifetime track rods for continued cutting accuracy; convenient,

"up-front" operating controls for easier, safer operation—plus all the power, precision and capacity to handle any job.

These are just a few reasons why Delta Radials are satisfying the daily needs of industrial users, home builders and prefabricators, lumber yards and woodworking shops everywhere.



Catalog Listing



Complete Radial Saws, including TEFC motor with automatic electronic brake; 18", 16" or 14" blade guard with anti-kickback attachment; retractable leaf guard; 18", 16" or 14" combination blade; rip position lock for carriage; adjustable crosscut stop and steel legs.

Catalog Number	Size	Motor	Motor Control	Motor Enclosure	Hertz and Motor RPM	Motor Voltage
33-061	18"	1 Phase 5 HP	24 V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-3450	230
33-062	18"	3 Phase 7½ HP	24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-3450	†230/460
33-063	18"	3 Phase 5 HP	24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-3450	200
33-071	16"	1 Phase 3 HP	24 V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-3450	230
33-072	16"	3 Phase 5 HP	24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-3450	†230/460
33-073	16"	3 Phase 5 HP	24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-3450	200
33-081	14"	1 Phase 3 HP	24 V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-3450	230
33-082	14"	3 Phase 5 HP	24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-3450	†230/460
33-083	14"	3 Phase 5 HP	24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-3450	200

NOTE: Single phase electricals will be supplied wired for 230 V only. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. 575 V, 5 HP, three phase electricals are available at the same prices as those shown for 200 V electricals.

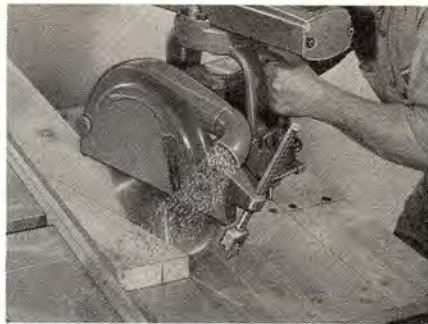
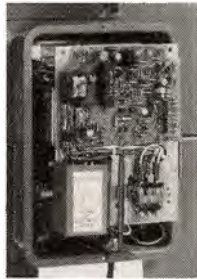
†No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to Three Phase Cat. No. 33-062, 33-072 or 33-082, in order to obtain radial saw with "JIC" type electricals, factory mounted and wired.

Quality Features for Delta 18", 16" and 14" Radial Saws

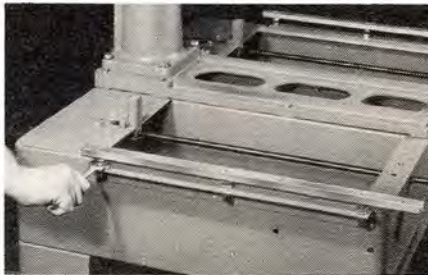


Famous Delta Double Overarm Action. This preferred construction permits the saw blade to rotate a full 360° above the work table—gives full table capacity for left and right-hand miters.

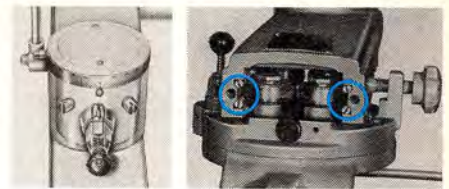
Automatic Electronic Brake. When the motor "stop" button is actuated, the electronic brake stops the blade automatically in seconds. This eliminates excessive blade coasting, enabling production schedules to be maintained. Split saw arbor nut prevents blade from loosening when brake is actuated.



Extra Left-Hand Miter Capacity. Delta famous "turret arm" action lets you cut in any direction above the table. Here, the operator cuts the lower chord (2 x 6") of a low pitch roof truss, 1/6 pitch (4-12), on the 16" Model. (Note: Leaf guard removed to aid in photo clarity.)



Positive Table Leveling Jacks—Massive Frame Construction. Six easy-to-adjust leveling jacks assure sustained table accuracy. The extra deep channel, unitized base, which is rigidly reinforced by the cast iron center piece, guarantees continuous alignment of the entire machine.



Exclusive "Micro-Set" Miter Stops. Only Delta gives you individually adjustable positive stops. When required, each setting can be quickly adjusted to assure perfect 90° and 45° cuts for the life of the saw.

Lifetime Trackways. Delta Radial Saws feature lifetime track rods with glass-smooth, hardened surfaces that minimize roller friction. They can be easily rotated to provide a new surface, providing precision cutting accuracy for the life of the machine.

Delta Quality Extras

Convenient, "Up-Front" Operating Controls. Every control, lever and scale is within easy reach for safer operation. Positive stops at most-used positions and accurately calibrated scales for in-between settings eliminate guesswork, make it easy to set up operation.

Extra Powerful Motors. The motor on every Delta Radial Saw is quality built to deliver extra power for handling the toughest cutting jobs.

Safe Blade Guard Design. Unlike some competitive models, the blade guard on Delta Radial Saws covers the entire saw spindle for increased safety.

Machine Data

Models	18" Radial Saw	16" Radial Saw	14" Radial Saw
Motor HP and Speed	5 and 7½ HP/3450 RPM	3 and 5 HP/3450 RPM	3 and 5 HP/3450 RPM
Crosscut Cap.—1" (25.4mm) stock	23¼" (590.6mm)	23" (584.2mm)	17¾" (450.9mm)
Miter Cap.—1" (25.4mm) stock			
at 45° Left	19½" (495.3mm)	19½" (495.3mm)	14¼" (361.9mm)
and 45° Right	11" (279.4mm)	11" (279.4mm)	5¾" (146.1mm)
Maximum Out Rip Capacity	37¾" (958.9mm)	37" (939.8mm)	30¾" (781mm)
Maximum Depth of Cut, approx.			
(less leaf guard)	6" (152.4mm)	5" (127mm)	4½" (104.8mm)
Maximum Depth of Cut, approx.			
(with leaf guard)	4⅝" (117.5mm)	4¾" (120.7mm)	3⅝" (85.7mm)
Maximum Depth of Cut at 45° Bevel, approx.(less leaf guard)	3¾" (95.3mm)	2½" (63.5mm)	2⅝" (66.7mm)
Maximum Depth of Cut at 45° Bevel, approx.(with leaf guard)	3⅞" (90.5mm)	2¼" (57.2mm)	¾" (19mm)
Dado Capacity:			
With 12" (304.8mm) dado	2⅛" (52.3mm) wide	2⅛" (53.9mm) wide†	1⅞" (47.6mm) wide‡
With 10" (254mm) dado	N/A	1" (25.4mm)	1" (25.4mm)
Diameter Saw Arbor	1" (25.4mm)	0", 45° and 90°	0", 45° and 90°
Bevel Positive Stops	0°, 45° and 90°	90° and 45°, R & L	90° and 45°, R & L
Miter Positive Stops	90° and 45°, R & L	56" (1422.4mm)	56" (1422.4mm)
Overall Height	62" (1574.8mm)	32" x 42" (812.8 x 1066.9mm)	26" x 42" (680.4 x 1066.8mm)
Wood Table Top	29" x 44" (736.6 x 1117.6mm)	32" (812.8mm)	32" (812.8mm)
Height Table Top	32" (812.8mm)	610 lbs. (276.7 kg.)	600 lbs. (272.2 kg.)
Shipping Weight (approx.)	810 lbs. (367.4 kg.)		

* Using one standard flange on motor side of shaft, capacity is 1⅞" (47.6mm). To obtain 2⅞" (52.3mm) dado capacity, use one flange, No. 33-814, on motor side of shaft.

† Using no flanges, dado capacity is 2⅛" (53.9mm); using one standard flange on motor side of shaft, dado capacity is 1⅞" (47.6mm).

‡ 1⅞" (47.6mm) dado capacity is obtained using only standard flange on motor side of shaft.

Delta 12" Radial Saw

**Designed for portability
... can be easily moved
about the shop or on
the job site!**

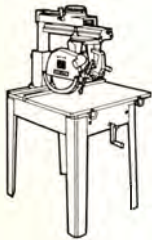
This Delta Radial offers big capacity, together with superior construction, all in a portable unit. That's why it meets the high standards required by industry, builders, contractors, commercial and school shops. The extra powerful motor will handle the toughest cutting jobs. The rigid frame, massive column base and precision index ring assure top quality cuts on all jobs. And the convenient on-off switch with lock-out key, automatic brake and all "up-front" operating controls provide additional operator safety.

Designed for easy movement, it can be taken right to the job, even carried through a standard entrance for on-the-spot, centralized cutting. See this great saw value today!



No. 33-890 12" Radial Saw

Catalog Listing



Complete 12" Radial Saw, including motor with automatic electro-mechanical brake, blade guard with anti-kickback attachment, retractable leaf guard, 12" combination blade and set of four steel legs.

Catalog Number	Motor	Motor Control	Motor Enclosure	HZ and Motor RPM	Motor Voltage
33-890	Single Phase 1½ HP	On-Off, Key-Lock Switch and Overload Protection	GD	60-3450	115/230
33-891		24 V at On-Off, Key Lock Switch; Magnetic Starter; Transformer and Overload Protection (LVC)	GD	60-3450	115/230
33-892	Three Phase, 1½ HP (develops 3½ HP)	24 V at On-Off, Key Lock Switch; Magnetic Starter; Transformer and 3-Leg Overload Protection (LVC)	GD	60-3450	230/460
33-893			GD	60-3450	200

NOTE: Single phase dual-voltage electricals will be supplied wired for 230 V, unless 115 V is specified. Three phase 230/460 V electricals will be supplied wired for 230 V, unless 460 V is specified.

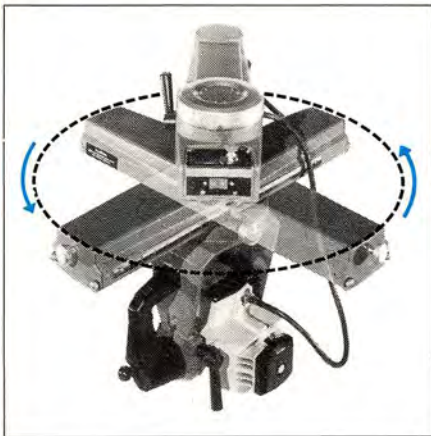
Machine Data

Motor
Horsepower 1½
Speed 3450 RPM
Blade:
Diameter (supplied) 12" (304.8 mm)
Arbor 5/8" — 12 L.H. Acme (15.8 mm)
Capacity:
Maximum depth of cut,
approx. (less leaf guard) 4" (101.6 mm)

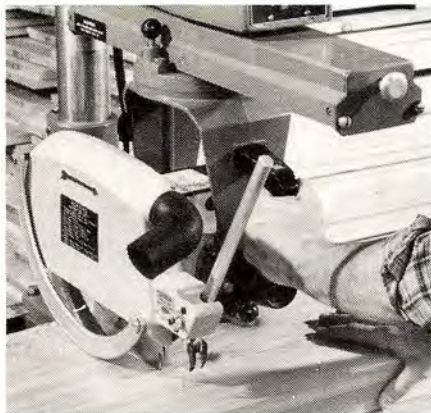
Maximum depth of cut,
approx. (with leaf guard) 3¾" (95.3 mm)
Maximum depth of cut at 45° bevel,
approx. (less leaf guard) 2½" (63.5 mm)
Maximum depth of cut at 45° bevel, approx.
(with leaf guard) 1¼" (31.8 mm)
Cross-cut 14¾" (365.1 mm)
Rip 24¼" (615.9 mm)
Miter (1" or 25.4 mm stock)
at 45° Right 9½" (241.3mm)
at 45° Left 10" (254mm)

Bevel Positive Stops 0°, 45° and 90°
Miter Positive Stops 90° and 45° R & L
Table Size 25½ x 30" (647.7 x 762 mm)
Overall Dimensions:
. 30" wide x 32" deep x 63½" high
(762 x 812.8 x 1612.9 mm)
Shipping Wt. (approx.) 300 lbs. (136 Kg.)

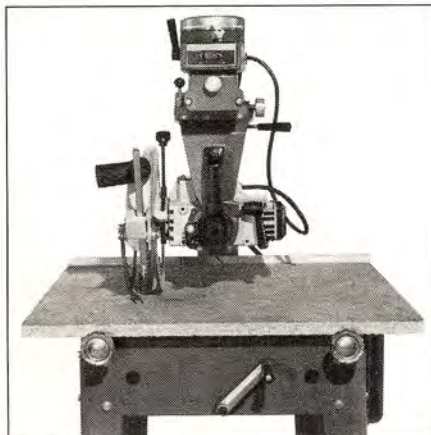
**Delta 12" Radial Saw
Quality Features**



Unique "Turret Arm" Action. Permits saw blade to rotate a full 360° above work table — gives full table capacity for left and right-hand miters.



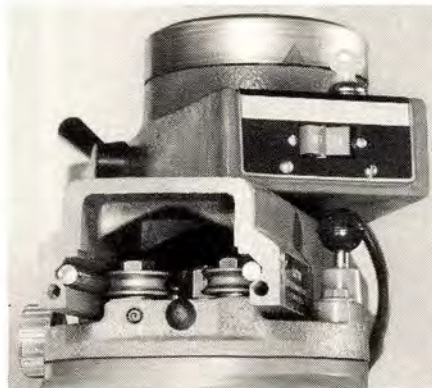
Powerful Motor; Automatic Electro-Mechanical Brake. Three phase 1½ HP motor develops up to 3½ HP under heavy workloads. Electro-mechanical brake, that's built into motor, stops blade automatically in seconds, after switch is turned off. This eliminates excessive blade coasting, enabling production schedules to be maintained.



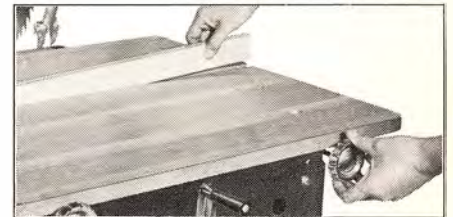
All Controls Located "Up Front". Every control, including the elevating crank, is "up front," away from the blade for faster, safer operation.



Convenient On-Off Switch. Eye level switch can be turned on or off in an instant for greater operator protection. Lock-out feature permits switch to be locked so that saw cannot be turned on, restricting unauthorized use of machine.



Convenient Index Control. Index release knob is conveniently located "up front" permitting quick, easy selection of desired miter positions.

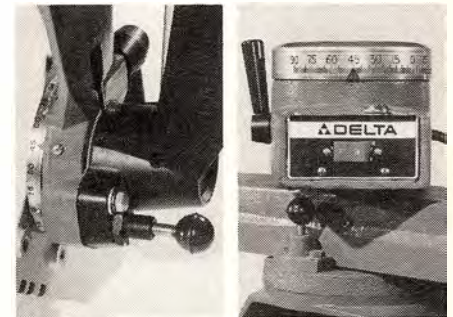


Handy Fence Lock Knobs. Large, convenient knobs enable fence to be adjusted and locked from the front for added safety. This important feature saves time, especially when cutting stock in varying widths.



Lifetime Trackways. Turret arm features glass-smooth, hardened track rods to minimize roller friction. Rods can be adjusted or replaced to assure precision cutting accuracy for the life of the machine.

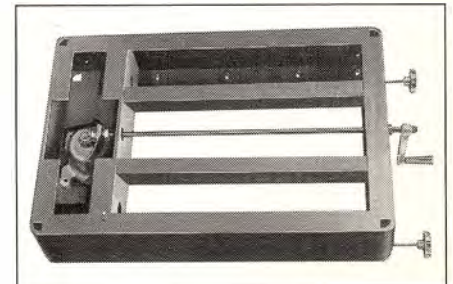
Specially Constructed Base. Massive column is supported by a husky split-column base with adjustable gibs and solid steel column key for accurate cutting.



Large Bevel and Miter Scales. They are extra large in size and conveniently located, making them easy to use. This speeds up production and improves accuracy on close tolerance jobs.



Precision Index Ring for Miter Cuts. 90° and 45° positive miter stops are precision machined simultaneously at the factory, assuring lifetime accuracy on the job. Adjustment, if ever required, is easily made.



Heavy, Deep Channel Frame Construction. This underside view of the frame shows its rugged, box-type construction that makes it practically distortion proof. This assures continuous alignment of the entire machine, guaranteeing the user trouble-free performance and accuracy year after year.

Delta Radial Saw Accessories

Saw Blades

Diameter and Arbor Hole	Combination Rip (Flat Ground)	Rip (Flat Ground)	Crosscut (Flat Ground)	Planer or Miter (Hollow Ground)	Weight Lbs.
18 x 1"	33-740		33-742	33-743	7½
16 x 1"		33-184	33-001	33-186	5½
14 x 1"		33-180	33-002	33-182	4
12 x 1"	33-197	33-199	33-246	33-228	4
12 x 5/8"		33-003	33-004	33-005	4

For Additional Saw Blades, See Circular Saw Accessories, Page A19.

Flanges

No. 33-548 Pair of Flanges, 5" diameter, for use with 18" or 20" diameter saw blades. 4 lbs.

No. 33-814 Steel Flange, 4" diameter. Use this flange in place of standard flanges

No. 33-548, furnished with machine, to obtain 2¼" dado capacity.

Spacer Collars

No. 34-171. Use with above saw blades to make accurate, clean tenons. Set of two, one ¼" thick and one ¾" thick, 2½" diameter with 5/8" arbor hole. 1 lb.

Industrial Carbide-Tipped Saw Blades

Designed, engineered, and manufactured to uncompromising quality standards for optimum cutting performance and maximum service life. Especially recommended for use with radial saws and pendulum type machines.



Compositions, Veneers

Very fine and high quality cut for trimming and parting packs of composition materials, veneers, plastic laminates and sheets, hard fibers and papers, PVC plastics and celluloid.

Cat. No.	Description	Plate	Kerf	Hook	Bore
35-655	12" x 96 ATB	.095	.142	5°	5/8"

Soft and Hardwoods, Asbestos, Tile, Particle Board

Same applications as above, but with better results. This category is recommended when cutting abrasive-type materials, such as asbestos, particle board and tile or any glued materials.

Cat. No.	Description	Plate	Kerf	Hook	Bore
35-656	12" x 60 ATB	.095	.142	5°	5/8"
35-694	16" x 60 TC&F	.126	.173	10°	1"

Non-Ferrous Metals, Plastics

Non-ferrous, metal cutting blades with negative hook angle for sizing and miter cuts in thin tubes and profiles such as aluminum, copper, brass; also plastics.

Cat. No.	Description	Plate	Kerf	Hook	Bore
35-646	12" x 60 TC&F	.102	.126	-6°	1"

Plastic Laminates, Veneers, Compositions, Hard Fibers and Paper

Trimming and parting blades for packs of composition sheets and veneers up to 1.2" thick, plastic laminates up to .6" thick, plastic sheets, hard fibers and papers up to .2" thick, when quality of cut is of little importance.

Cat. No.	Description	Plate	Kerf	Hook	Bore
35-677	14" x 108 ATB	.110	.173	8°	1"

Abrasive-Type Materials

Cross-cutting, trimming, and parting blades for all abrasive-type materials when quality of cut is of little concern relative to speed of cut.

Cat. No.	Description	Plate	Kerf	Hook	Bore
35-674	14" x 84 TC&F	.110	.173	10°	1"
35-697	16" x 96 TC&F	.126	.173	10°	1"

Soft and Hardwoods, Plywood, Plastic Laminates, Veneers, Hardpaper

Trim and cross-cut blades for general use. Suitable for natural soft and hardwoods, one-sided plastic laminated and veneered boards, packs of veneers and plywood, hardpaper, etc.

Cat. No.	Description	Plate	Kerf	Hook	Bore
35-693	16" x 60 ATB	.126	.173	10°	1"

NOTE: For complete selection of carbide-tipped saw blades, see Page A17.

NOTE: For complete information on Automatic Electronic Brake, see Page P2.

Carbide-Tipped Dado Head Sets



Four stackable dado assemblies consisting of two outer blades (1/8" thick) and four inside chippers (1 - 1/4" thick; 2 - 1/8" thick and 1 - 1/16" thick) in 6" and 8" diameter sets with 5/8" arbor hole and 8" and 10" diameter with 1" arbor hole; all complete with sturdy wood storage case. Cuts grooves from 1/8" to 1 3/16" wide. Individual replacement blades and chippers also available separately.

Cat. No.	Description	Outer Blades		Inside Chippers		
		1/8" Thk. L.S.	1/8" Thk. R.S.	1/4" Thk.	1/8" Thk.	1/4" Thk.
35-550	6" Dia. w/5/8" Arbor Hole	35-551L	35-551R	35-552	35-553	35-554
35-560	8" Dia. w/5/8" Arbor Hole	35-561L	35-561R	35-562	35-563	35-564
35-570	8" Dia. w/1" Arbor Hole	35-571L	35-571R	35-572	35-573	35-574
35-540	10" Dia. w/1" Arbor Hole	35-541L	35-541R	35-542	35-543	35-544

Standard Dado Head Set



No. 34-333 Production Type 6" Dia. Dado Head Set. Consisting of two hollow ground outer blades (1/8" thick) and five inside cutters (four 1/8" thick and one 1/16" thick). With 5/8" arbor hole. Cuts grooves from 1/8" to 1 3/16" wide. 3 1/2 lbs.

No. 34-334 Economy Dado Head Set. Consisting of two flat-ground outer blades (6" diameter x 1/8" thick) and five inside cutters (four 1/8" thick; one 1/16" thick). With 5/8" arbor hole. Cuts grooves from 1/8" to 1 3/16" wide. 4 lbs.

No. 34-959 Micro-Set™ Adjustable Dado. For ploughing, rabbeting, grooving or making decorative cuts. Adjusts without removing dado from saw arbor. You just dial the width of cut you want from 1/4" to 1 3/16". Depth of cut can be set to a maximum of 3/4" deep. The supplied 6 3/8" blade with 5/8" arbor hole, has 12 carbide tips for cutting wood and plastic laminates smoothly and accurately many times. Supplied in a sturdy plastic carrying case. 2 lbs.

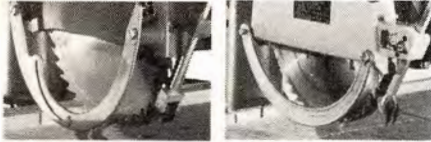
Blade Guard

Designed to cover entire saw spindle for additional operator safety.

No. 33-543, 20" Blade Guard for 18" Radial Saw. 18 lbs.

Retractable Leaf Guards

Provide additional safety for operator.



No. 33-450

No. 33-594

No. 33-446 For 20" blade guard. 4 lbs.

No. 33-471 For 18" blade guard. 4 lbs.

No. 33-450 For 16" blade guard. 2½ lbs.

No. 33-449 For 14" blade guard. 2½ lbs.

No. 33-594 For 12" blade guard. 2 lbs.

Moulding Cutterheads

Heavy duty, solid steel type. Less wrench and knives. 2½ lbs.

No. 33-307. With 1" arbor hole.

No. 34-562. With 5/8" arbor hole.

No. 34-521 Wrench. For moulding cutterheads, 1/8 lb.



No. 34-813 Standard Moulding Cutterhead and Knife Set. Includes No. 34-562 cutterhead, No. 34-521 wrench and Nos. 35-102, 35-103, 35-221, and 35-222 cutterhead knives. For use on 1/2" and 5/8" diameter arbor saws. 4 lbs.

No. 34-821 Basic Moulding Cutterhead and Knife Set. Includes No. 34-562 cutterhead, No. 34-521 wrench and No. 35-102 set of knives. For use on 1/2" and 5/8" diameter arbor saws. 3 lbs.

NOTE: For complete selection of moulding cutterhead knives, see Page A20.

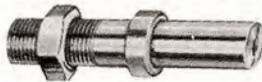
Adapters



No. 33-304 1/2" Bore Adapter with 1"-14 L.H. thread x 1/2" bore. Threads onto radial saw arbor to provide 1/2" bore hole to fit 1/2" shank accessories. 1/2 lb.

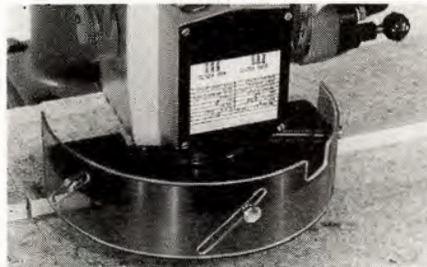


No. 33-851 Shaper Cutter Adapter for 12" Radial Saw. For mounting 1/2" wide 3-lip shapercutters on 5/8" - 12 L.H. Acme threaded motor shaft.



No. 43-990 Shaper Cutter Adapter. With 1/2" diameter shank and 1/2" L.H. threaded shaft to accommodate shaper cutters or other accessories up to 1" thick. Uses with 33-304 or 33-277 Adapter. 1/2 lb.

NOTE: For complete selection of 3-lip shapercutters, straight cutters and spacing collars, see Page I10.



No. 33-967 Moulding Cutterhead Guard for 12" Radial Saw. Provides additional operator protection.

Sanding Discs

Threaded to fit motor shaft. Furnished with one garnet disc.

No. 46-836 Sanding Disc, 8½" diameter, mounts on 1"-14 L.H. thread motor shaft. 2½ lbs.

No. 33-850 Sanding Disc for 12" Radial Saw, 8½" diameter with 5/8"-12 L.H. Acme thread. Supplied with one coarse and one medium self-adhesive paper disc. 2½ lbs.



Abrasive Paper and Disk Adhesive

No. 46-815 Abrasive Paper, 8½" diameter, No. 40 grit, coarse garnet. 1 doz. 2 lbs.

No. 46-817 Abrasive Paper, 8½" diameter, No. 80 grit, fine garnet. 1 doz. 2 lbs.

No. 49-503 Disk Adhesive. For changing abrasive paper. 1 lb.

Sanding Drums



No. 46-038 3" diameter x 3", with one sleeve. Fits 1/2" diameter shaft. 2 lbs.

No. 46-538 1¾" diameter x 2", with one sleeve. Fits 1/2" diameter shaft. 1 lb.

No. 46-048. 1½" diameter x 2½", with one sleeve. With 1/2" shank to fit 1/2" adapters or chuck. 1/2 lb.

Sanding Sleeves

3" Diameter x 3" Sleeves. Package of 6. For use with No. 46-038 Sanding Drum.

No. 46-138. Coarse Garnet. 40 grit. 1/2 lb.

No. 46-832. Medium Garnet. 60 grit. 1/2 lb.

No. 46-338. Al. Oxide (for metal) 50 grit. 1/2 lb.

1¾" Diameter x 2" Sleeves. Package of 6. For use with No. 46-538 Sanding Drum.

No. 46-638. Coarse Garnet. 40 grit. 1/4 lb.

No. 46-837. Medium Garnet. 60 grit. 1/4 lb.

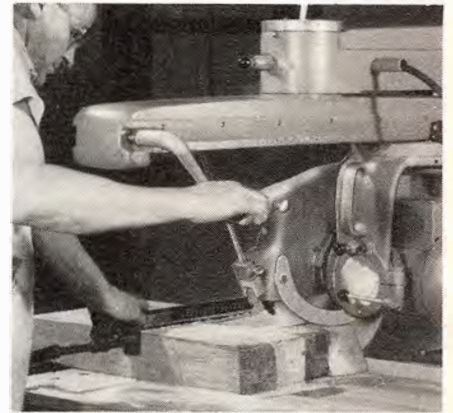
No. 46-838. Al. Oxide (for metal) 50 grit. 1/4 lb.

1½" Diameter x 2½" Sleeves. Package of 6. For use with No. 46-048 Sanding Drum.

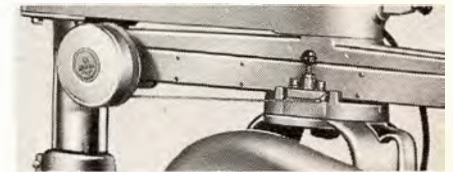
No. 46-841. Medium Garnet. 50 grit. 1/2 lb.

No. 46-248. Fine Garnet. 80 grit. 1/2 lb.

No. 46-847. Al. Oxide (for metal). No. 50 grit. 1/2 lb.



No. 33-544 Chain Feed Control. For 18" Radial Saw. Provides a constant, steady feed for cutting heavy timbers, gang sawing, rafter notching and other operations where a carefully controlled feed is required. Reduces waste and rejects. Special design permits operator to switch to regular saw operation in seconds. 8 lbs.

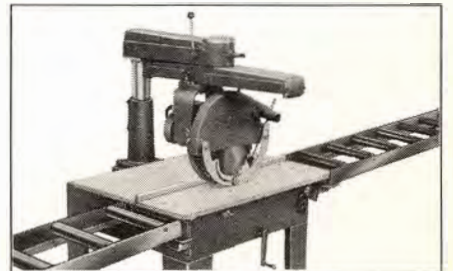


Cutterhead Return Attachments. Help speed up production. Operator makes cut and cutterhead automatically returns to an out-of-the-way position behind the guide fence. Stock then can be positioned for the next cut.

No. 33-550 For 18" Radial Saw. 4¼ lbs.

No. 33-549 For 14" and 16" Radial Saws. 4¼ lbs.

No. 33-885 For 12" Radial Saw. 4¼ lbs.



Extension Roller Table for Delta 18", 16" and 14" Radial Saws. Use several extension tables to increase the speed of your cutting operations. Your material always moves in a straight line on a level table — no matter what cut you make.

No. 33-521 One Roller Extension Table, eight feet long, with eight 12-inch rollers and one adjustable support stand. For direct coupling to steel table of Delta 18", 16", or 14" Radial Saw (specify Machine Catalog Number). 125 lbs.

You can depend on your Delta Industrial Distributor



He will provide you with:

Assistance in Your Production Planning. His years of experience and technical know-how have equipped him to give you expert advice on your specific job problems.

Fast Delivery from Local Stocks. Because of his knowledge of local markets, he stocks the products you need and delivers your orders quickly.

Prompt Information on New and Old Products. He is in constant touch with manufacturers who supply him with information on new products and developments.

One Source for Many Types of Products. One source ordering simplifies your purchasing procedure and reduces your accounting costs.

Your first source



Delta Vertical Band Saws

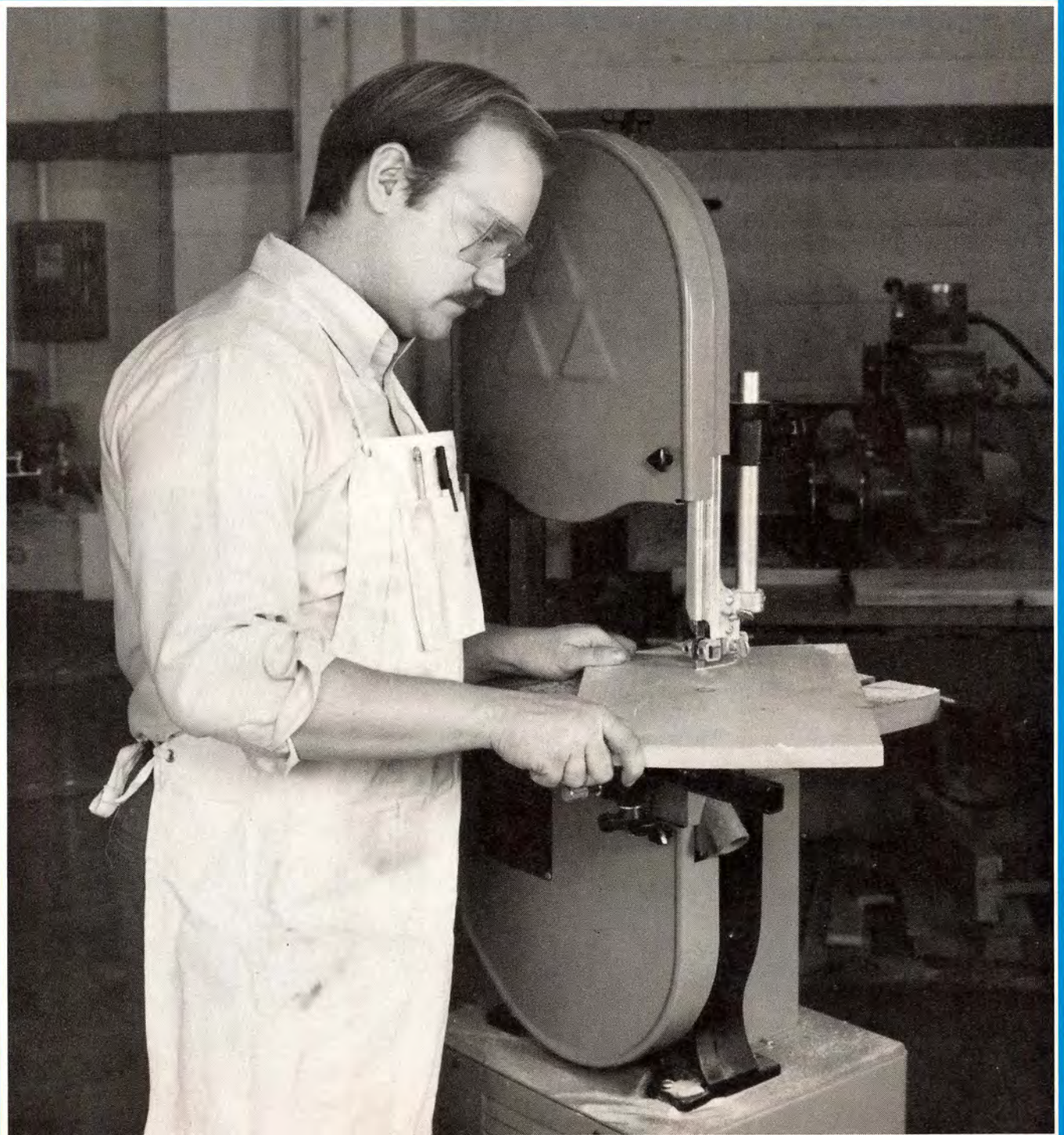
Efficient, high performance machines!

The 20" Metal Cutting Model, with foot-operated speed changer, lets you select the exact speed you require in seconds.

The 20" Wood/Non-Ferrous Metal Cutting Model has fast adjusting blade guides that support the blade right down to the work.

The 14" Wood Cutting Model offers extra safe independently adjustable blade guides that adjust with micrometer accuracy.

Finally, consider The 14" Metal-Wood Cutting Model. It lets you shift instantly from direct to gear drive...and you have a selection of eight cutting speeds.



Delta 20" Band Saws

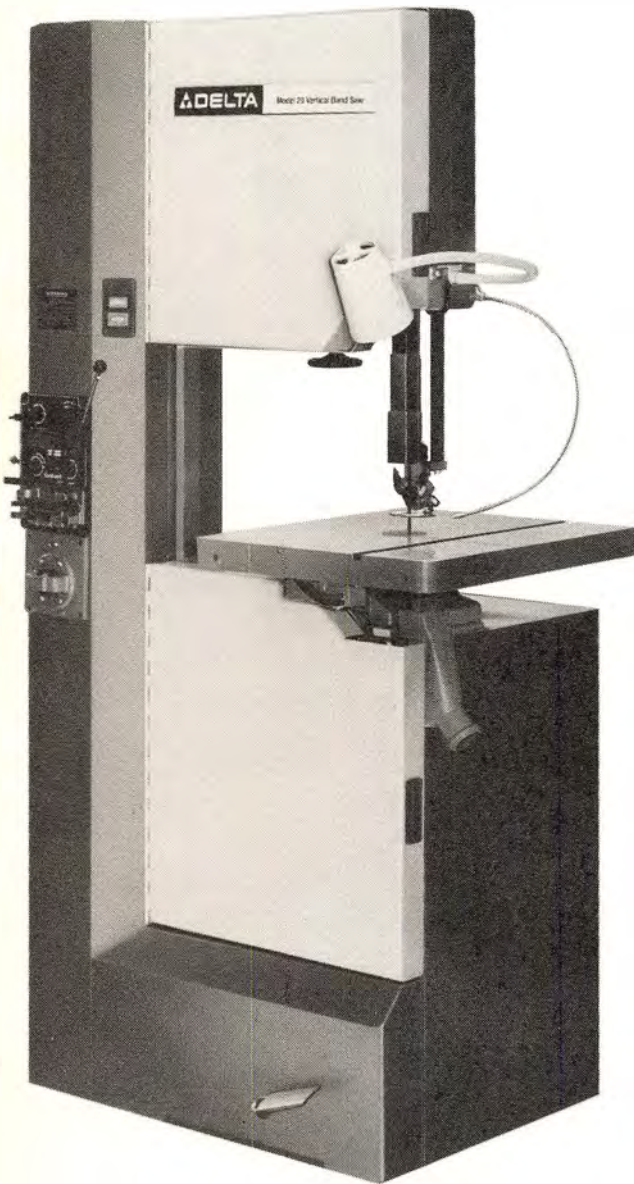
Built to deliver fast, high quality cutting performance!
Wood/Non-Ferrous Cutting Model.
Metal-Cutting Variable Speed Model.

Select the popular Delta 20" Wood/Non-Ferrous Cutting Band Saw and get a double duty machine. It offers a 4500 SF/M speed for wood cutting and a 2000 SF/M speed for cutting non-ferrous metals. In addition, it incorporates a majority of the high quality features provided in the Metal Cutting Model.

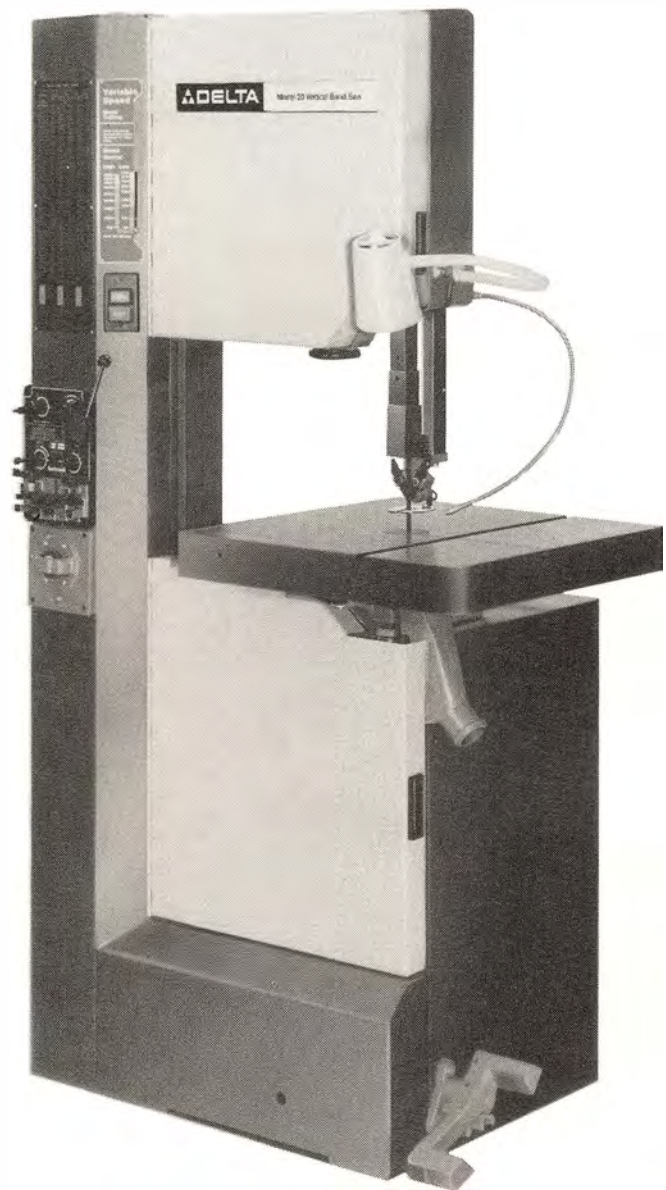
For even greater versatility, consider the Delta 20" Metal Cutting Variable Speed Band Saw. Its wide speed range of 50 to 4500 SF/M lets

you saw everything from stainless steel to wood. And the foot-operated speed changer helps you make speed changes fast, while your hands are free to position the work. Furthermore, you get an extra large 24 $\frac{1}{4}$ x 24 $\frac{1}{4}$ " table that's designed to handle heavy work loads, plus a built-in chip blower for truer sawing.

Let us prove the wide capability of these great Delta Band Saws with a "proof-by-performance" test today!



No. 28-654 Wood/Non-Ferrous Cutting Band Saw shown with accessory 25-857 Lamp Attachment, 28-714 Blade Welder and Flash Grinder, 28-005 Blade Shear and 28-720 Chip Blower.

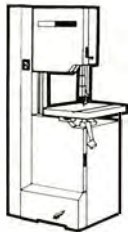


No. 28-663 Metal Cutting Band Saw shown with accessory 25-857 Lamp Attachment, 28-714 Blade Welder and Flash Grinder and 28-005 Blade Shear.



Basic Machine and all electrical kits, except 28-651, are certified in Canada.

Catalog Listing



Complete 20" Wood/Non-Ferrous Cutting Band Saw with foot brake, chip chute, adjustable blade guides, "clearview" protective blade guard, blade tension indicator, 3/8" blade, motor pulley, V-belt, motor and controls factory mounted and wired.

Catalog Number	Motor	Motor Control	Motor Enclosure	Hertz and Motor RPM	Motor Voltage	Shipping Wt./Lbs.
28-651*	Single Phase, 1 HP	Push Button Switch only	TEFC	60-1725	115/230	755
28-652*		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230	759
28-653	Single Phase, 2 HP	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	230	786
28-654†	Three Phase, 2 HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	771
28-655			TEFC	60-1725	200	771
28-656			TEFC	60-1725	575	771

NOTE: Single phase 1 HP electricals will be supplied wired for 230V, unless 115V is specified. Single phase dual-voltage 2 HP electricals will be supplied wired for 230V only. Three phase electricals will be supplied wired for 230V, unless 460V is specified. Power Cord and Plug supplied for single phase only. Motors and Motor Controls for Delta20" Band Saws may be ordered unmounted. For listing, see Section R.

†No. 49-000 "JIC" Type Control Kit. Specify this catalog number, in addition to Three Phase Cat. No. 28-654, in order to obtain 20" Band Saw with "JIC" type electricals, factory mounted and wired.

* Supplied only for woodworking applications.



Complete 20" Metal Cutting Variable Speed Band Saw including variable speed drive with belts and pulleys, counter balance for upper blade guide, "clearview" protective blade guard, chip blower, chip chute, chip removal brushes (2), blade and speed chart, one blade (1/2", 18 teeth, metal cutting), motor and controls factory mounted and wired.

Catalog Number	Motor	Motor Control	Motor Enclosure	Hertz and Motor RPM	Motor Voltage	Shipping Wt./Lbs.
28-662	Single Phase, 2 HP	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	230	972
28-663†	Three Phase, 2 HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	957
28-664			TEFC	60-1725	200	957
28-665			TEFC	60-1725	575	957

NOTE: Single phase electricals will be supplied wired for 230V, only. Three phase electricals will be supplied wired for 230V, unless 460V is specified. Power Cord and Plug supplied for single phase only.

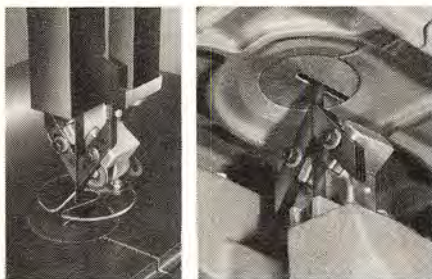
†No. 49-000 "JIC" Type Control Kit. Specify this catalog number, in addition to Three Phase Cat. No. 28-663, in order to obtain 20" Band Saw with "JIC" type electricals, factory mounted and wired.

Machine Data

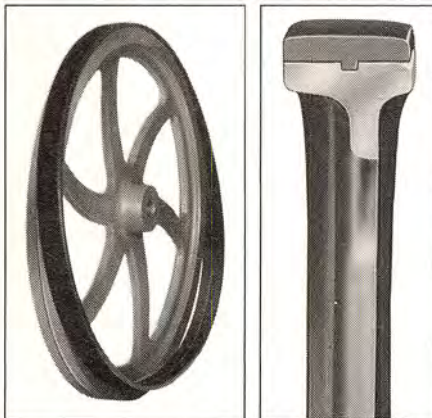
Capacity:	Wood/Non-Ferrous Cutting Band Saw	Metal Cutting Band Saw
Blade to column	19 3/4" (501.65 mm)	19 3/4" (501.65 mm)
Max. height under top guide	13 1/2" (342.9 mm)	12 1/2" (317.5 mm)
Height under upper wheel guard	12 1/2" (317.5 mm)	12 1/2" (317.5 mm)
Table:		
Size	20 x 24 1/2" (508 x 622.3 mm)	3 x 24 1/4 x 24 1/4" (76.2 x 615.95 x 615.95 mm)
Front to center of blade	10 1/2" (266.7 mm)	10 1/2" (266.7 mm)
Size of groove for miter gauge	3/8 x 3/4" (9.52 x 19.05 mm)	3/8 x 3/4" (9.52 x 19.05 mm)
Center of groove to blade	4 1/8" (104.77 mm)	4 1/8" (104.77 mm)
Center of blade to rear edge of table	13 1/2" (342.9 mm)	14" (355.6 mm)
Tilts	12° left and 45° right	12° left and 45° right
Trunnions	17" (431.8 mm) apart	17" (431.8 mm) apart
Height from floor	42 1/2" (1079.5 mm)	42 1/2" (1079.5 mm)
Speeds (with 1725 RPM Motor)	2000 and 4500 SF/M (609.6 and 1371.6 Surf. M/Min.) (To obtain non-ferrous cutting speed of 2000 SF/M (609.6 Surf. M/Min.), simply change V-belt setting on 2-speed pulley.)	50 to 530 SF/M (15.2 to 161.5 Surf. M/Min.) 450 to 4500 SF/M (137.1 to 1371.6 Surf. M/Min.)
Infinite choice of speeds in gear drive	NA	
Infinite choice of speeds in direct drive	NA	
Wheels, Cast Iron:		
Diameter (tire mounted)	20 1/8" (511.17 mm)	20 1/8" (511.17 mm)
Width	1 1/4" (31.75 mm)	1 1/4" (31.75 mm)
Blades:		
Length: Standard	150" (3810 mm)	150" (3810 mm)
Maximum	151" (3835 mm)	151" (3835 mm)
Minimum	147" (3733.8 mm)	147" (3733.8 mm)
Width: Maximum	1" (25.4 mm)	1" (25.4 mm)
Floor Space Required	30 3/4 x 42" (781.05 x 1066.8 mm)	30 3/4 x 44" (781.05 x 1117.6 mm)
Chip Chute Connection Diameter	2 1/4" (57.15 mm)	2 1/4" (57.15 mm)
	For wood collection see Page O3	
Motor Plate	Accommodates NEMA 143T, 145T, 182T, 184T frame motors	Accommodates NEMA 143T, 145T, 182T, 184T frame motors
Overall Dimensions:		
Front to rear	30 3/4" (781.05 mm)	30 3/4" (781.05 mm)
Left to right	42" (1066.8 mm)	44" (1117.6 mm)
Height	79 1/2" (2019.3 mm)	79 1/2" (2019.3 mm)

Delta 20" Band Saw (continued)

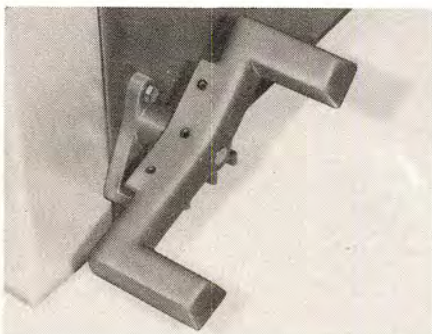
Delta 20" Band Saw Quality Features



Preferred Blade Guide Design. Easily and quickly adjusted blade guides firmly support blade right down to work. Self-locking inserts contain tabs for accurate stacking of inserts to suit any blade width up to 1". Lower guide supports blade to within $1\frac{5}{16}$ " from table surface. Two large ball bearings provide extra rigid back-up blade support. "Clear-view" protective guard keeps fingers away from blade, even when table is tilted to 45°.



Quick Change Tires. The specially constructed, "Snap-Lock" plastic tires are precision molded of tough, wear resistant TEXIN which is not affected by oil or commercial solvents. These tires do not have to be cemented to the wheel, never need to be ground or balanced, *will not come loose*. They can be replaced in about 10 minutes *without* removing the wheels.

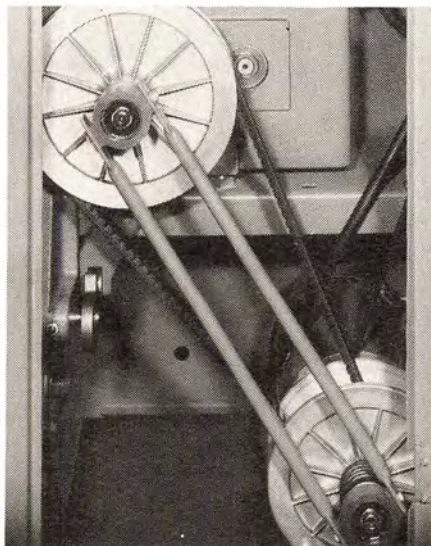


Foot-Operated Speed Changer (Metal Cutting Model). For fast speed changes. Operator simply pushes forward with toe to increase speed...down with heel to decrease speed. Easy-to-use control frees operator's hands for positioning work, also saves valuable production time.



Handy Blade and Speed Chart (Metal Cutting Model). Aids operator in selecting the correct blade and speed for cutting many ferrous and non-ferrous metals, also non-metallic materials such as Formica and wood. Chart also gives minimum cutting radius for different blade widths.

Convenient Blade Speed Indicator (Metal Cutting Model). Located at eye level for easy reading. Right-hand column indicates low, back gear blade speeds whereas left-hand column provides high, direct drive readings.



Wide Range Variable Speed Drive (Metal Cutting Model). Provides a tremendous speed range that is infinitely variable...50 to 530 FPM in gear drive...450 to 4500 FPM in direct drive (*no blind spots*) for cutting anything that can be sawed.



Massive, Extra Rigid Table. Scientifically ribbed, *more than two-foot square* table rests on two solid trunnions, spaced 17" apart. Side take-out slot for blade permits trunnion support *in front of the blade*, where work load is greatest. Compare this table mounting with others that have the trunnions located *behind the blade* which results in lengthy table overhang and inadequate support for heavy work loads.



Protected Drive Selector (Metal Cutting Model). "Hi-Lo" drive selector, for shifting transmission from direct drive to back gear, is located out of the way, inside lower cabinet. This prevents accidental shifting while blade is running.

Additional Delta Quality Features

Telescopic Blade Guard. Wrap-around design encloses blade from guide to upper wheel housing for maximum operator protection. Solid guide bar absorbs back thrust and is counter-balanced to hold blade guide at any position.

Unique "3-Point" Adjustability. Only Delta 20" Band Saws incorporate a "3-point" adjustability feature whereby the upper wheel, upper guide bracket, table and lower wheel can be minutely adjusted one to another. This exclusive, built-into-the-frame feature assures continued factory-adjusted machine alignment and perfect saw cuts for the life of the machine.

Chip Blower keeps cutting line free of chips for truer sawing.

Specially Designed Wheels, precision balanced with rims fully machined concentric to the shaft hole, guarantee smooth, safe running, even at high speeds.

Handy Blade Tension and Tracking Controls facilitate accurate adjustment of both blade and wheel. Eye-level tension scale inside cabinet enables operator to select exact tension to suit the job.

Exclusive "Locked-In" Table Insert cannot rotate and get chewed up by the blade.

Built-In Blade and Tire Cleaning Brushes (Metal Cutting Model) provide continuous cleaning action that lengthens blade and tire life.

Delta 20" Band Saw Accessories

Premium Wood and Metal Cutting Band Saw Blades

Made of pre-hardened and polished high carbon steel, blades are hard-tooth, flexible back type for faster cutting; longer life. All .025" thick; 150" long, 2 lbs. each. For cutting all kinds of woods; also aluminum, magnesium, plastics, compositions.

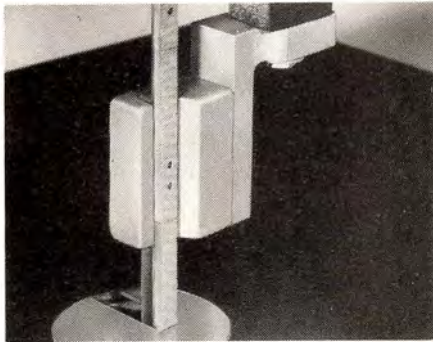
Number	Width	Minimum Cut. Rad.	Teeth Per Inch
28-725	3/16"	5/16"	6
28-726	1/4"	5/8"	6
28-727	3/8"	1 3/8"	6
28-728	1/2"	2 1/2"	6

For cutting all ferrous and non ferrous metals.

Number	Minimum Width	Teeth Cut. Rad.	Per Inch
28-742	1/2"	2 1/2"	10
28-744	1/2"	2 1/2"	18

No. 50-238 20" Band Saw/Dust Collector Connector. Attaches to 2 3/8" dia. dust spout of band saw increasing outlet to 5" dia. For use with No. 50-180 1HP, 50-181 2HP or 50-182 3HP Dust Collector.

For adapters and quick-disconnects, see Dust Collectors, Pages O1 to O4.



No. 28-700 File Band Guide Attachment. Easily bolts to guide block. Includes mounting hardware. File band and guide block are not supplied by Delta.

No. 28-714 Blade Welder and Flash Grinder, 115 V, 50/60 cycles, single phase, 3 KVA. Mounts flush into band saw column. Capacity 1/2" to 1" Blade Shear not included; order separately.

NOTE: All Delta 20" Band Saws are set up to accept welders in the field simply by using common hand tools.



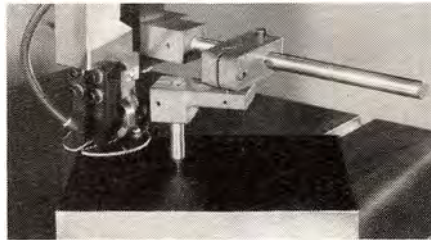
No. 28-715 Blade Welder and Flash Grinder. Same as 28-714 but for 230 V, single phase.



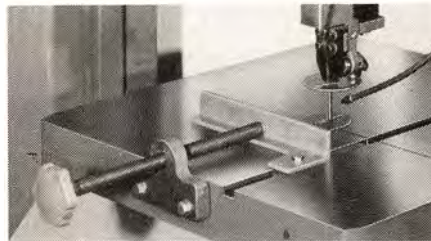
No. 28-005 Blade Shear for mounting on welder face. Capacity to 1".



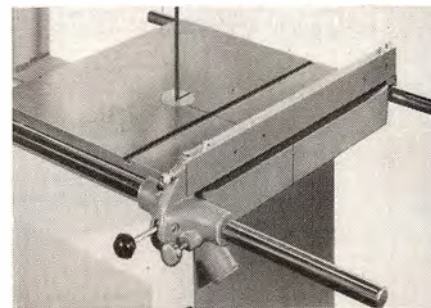
No. 28-703 30° Angle Blade Guides. Consist of blade fingers, back-up bearing and guide block.



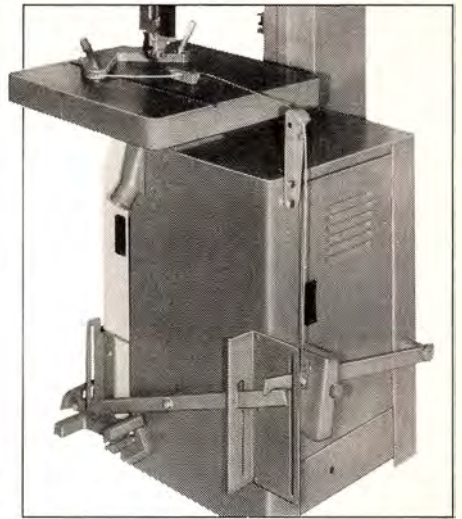
No. 28-704 Circle Cutting Attachment. Attaches quickly to guide arm, permitting radius cuts from 1 1/2" to 15" in diameter.



No. 28-705 Screw Feed Attachment. Consists of table mounting bracket, screw with handle, and angle feed block.



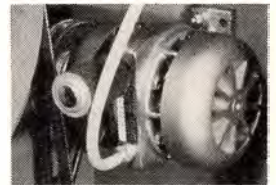
No. 28-862 Fence Attachment for ripping and re-sawing lumber. Includes 2 1/2 x 27" Micro-Set fence with front and rear locks, two 44" tubular guide rails, mounting screws. Fence may be set anywhere from 15 1/2" to left of blade and 25" to right, with pointer and calibrations reading from zero to 25" to right.



No. 28-708 Gravity Feed Attachment. Used primarily to avoid operator fatigue. Provides a variable feed pressure of approximately 5 to 29 pounds with standard 30-pound weight provided. Enables operator to devote his entire attention to guiding the work, assuring more accurate cutting. (For additional feed pressure, order extra weights.) Fits all past or present Delta 20" Metal Cutting Band Saws.

No. 28-826 Extra Weight. For 28-708 Gravity Feed Attachment. With one extra weight, attachment provides approximately 10 to 41 pounds feed pressure, or with two extra weights, 15 to 50 pounds.

No. 28-720 Chip Blower. Consists of pump with pulley and "O" belt. For field mounting.



No. 28-711 Safety Lock-Out Switch, factory mounted. For machines with magnetic controls only. Automatically shuts off power when lower wheel door is opened.

No. 25-857 Lamp Attachment, for 115 V. Includes 18" flexible gooseneck, reflector and 6-foot cord with 3-prong grounding type plug. Uses standard bulb (not included) up to 100 watts. 3 lbs.

For 20" Wood/Non-Ferrous Cutting Band Saw

No. 41-709 Motor Pulley, 7/8" bore, for 143T and 145T frame motors.

No. 41-710 Motor Pulley, 1 1/8" bore, for 182T and 184T frame motors.

For 20" Metal Cutting Band Saw

No. 49-159 Variable Speed Belt, 55" O.C.

NOTE: For complete information on Automatic Electric Brake, see Page P2.

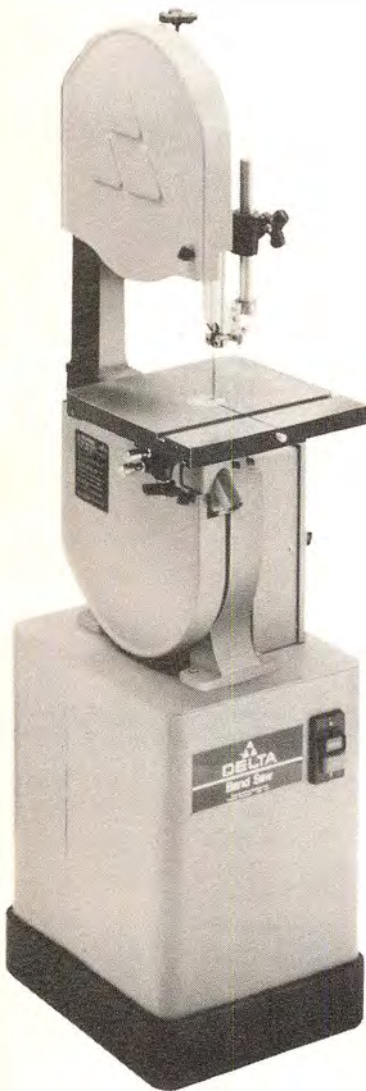
Delta 14" Band Saws

Select the model to suit your needs: Wood-Cutting or Metal/Wood-Cutting. First choice in industry!

Shop owners everywhere prefer versatile Delta 14" Band Saws because they give high-quality performance. They're ideal for contour cutting, straight cutting, or resawing (especially with the No. 28-984 Height Attachment). The wood-cutting model, when equipped with skip tooth saw blades, will cut wood, plastic, building materials, bakelite and non-ferrous metals such as aluminum and copper. The metal-cutting model, with eight speeds from 40 to 3000 FPM, will cut everything from stainless steel, armor plate, high-speed steel, alloy steel and cast iron to wood and plastic. To change from direct to gear drive, you simply shift a knob.

When you check all their fine features, such as—the resilient mount motor that practically eliminates noise and vibration; the micrometer adjustment blade guides; widely spaced double table trunnions; precision balanced, die-cast aluminum wheels; double sealed, lubricated-for-life ball bearings; hinged wheel guards—you can see why Delta 14" Band Saws are capably serving customers in all types of installations throughout the world.

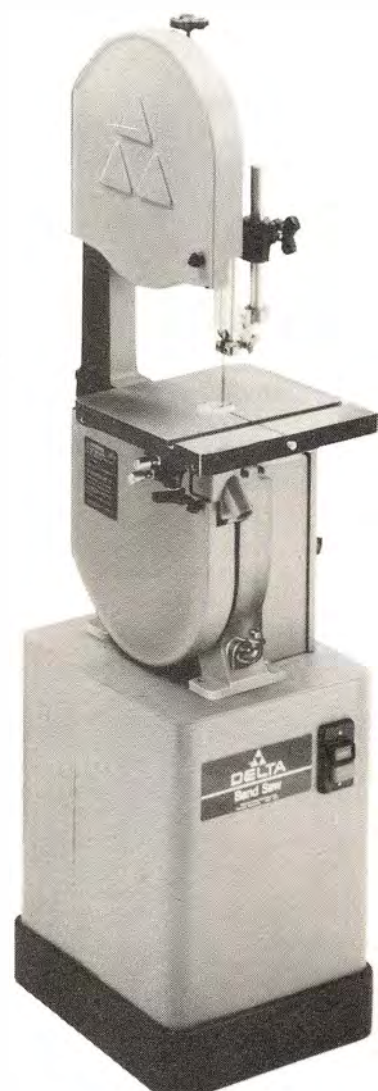
If you have need for an accurate, versatile, productive 14" band saw, choose a Delta. There is no equal!



14" Wood Cutting Band Saw shown on enclosed steel stand.

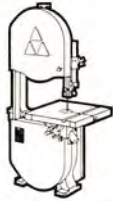


14" Wood Cutting Band Saw shown on open steel stand with accessory 62-246 Motor.

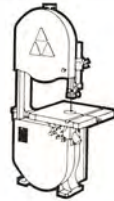


14" Metal/Wood Cutting Band Saw shown on enclosed steel stand.

Catalog Listing



No. 28-203 14" Wood Cutting Band Saw with wheel and blade guards, chip chute, 6" arbor pulley, 49-173 V-belt, 41-033 motor pulley (with $\frac{5}{8}$ " bore), blade guides and 28-034 wood cutting blade. Without stand, motor or switch. 144 lbs.



No. 28-303 14" Metal/Wood Cutting Band Saw with wheel and blade guards, chip chute, 7" arbor pulley for wood cutting, 41-724 4-step arbor pulley (with $\frac{3}{4}$ " bore) for metal cutting, $\frac{3}{4}$ " to $\frac{5}{8}$ " reducing bushing for motor pulley, 49-111 (set of two) matched V-belts, 41-714 4-step motor pulley (with $\frac{3}{4}$ " bore), blade guides and 28-062 metal cutting blade. Without stand, motor or switch. 168 lbs.



Enclosed Steel Stand with belt guard, motor and controls factory mounted and wired. For Catalog Nos. 28-203 and 28-303.

Catalog Number	Motor	Motor Control	Motor Enclosure	Hertz and Motor RPM	Motor Voltage	Shipping Wt./Lbs.
52-963	Single Phase, $\frac{3}{4}$ HP	Push Button Switch only	TEFC	60-1725	115/230	80
52-964		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230	81
52-972†	Three Phase, $\frac{3}{4}$ HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	94
52-973			TEFC	60-1725	200	94

NOTE: Single phase electricals will be supplied wired for 115V, unless 230V is specified. Three phase electricals will be supplied wired for 230V, unless 460V is specified. Power Cord and Plug supplied for single phase only. Motors and Motor Controls for Delta 14" Band Saws may be ordered unmounted. For listing, see Section R.

†**No. 49-000 "JIC" Type Control Kit.** Specify this catalog number in addition to Three Phase Cat. No. 52-972, in order to obtain 14" Band Saw with "JIC" type electricals, factory mounted and wired.



No. 28-283 14" Wood Cutting Band Saw. Includes 28-203 basic machine, 52-963 enclosed stand with $\frac{3}{4}$ HP, 115/230V, 60 Hertz, 1725 RPM, single phase, TEFC motor with resilient mount; push button switch; chip chute; wheel and blade guards; arbor and motor pulleys; V-belt; blade guides; 28-034 wood cutting blade. 224 lbs.

No. 28-243 14" Wood Cutting Band Saw. Includes 28-203 basic machine, open steel stand; chip chute; wheel, blade and belt guards; arbor pulley; V-belt; motor pulley; ($\frac{5}{8}$ " bore); blade guides and 28-034 wood cutting blade. Less motor and switch. 174 lbs.

No. 62-142 Motor: $\frac{1}{2}$ HP, 115 V, single phase, ball bearing, capacitor start, 1725 RPM, with 8' cord and 115 V grounding type plug. Supplied with remote control on-off toggle switch and cord connected to motor. 27 lbs.

No. 62-246 Motor: $\frac{3}{4}$ HP, 115/230 V, single phase, resilient mount, ball bearing, capacitor start, 1725 RPM, with 8' cord and 115 V grounding type plug. Supplied with remote control on-off toggle switch and cord connected to motor. 34 lbs.

Machine Data

Overall Dimensions:

Height on stand	65 $\frac{1}{2}$ " (1663.7 mm)
Width	25" (635 mm)
Front to rear	17 $\frac{1}{2}$ " (444.5 mm)

Capacities:

Blade to frame	13 $\frac{3}{4}$ " (349.2 mm)
Under guide and wheel	6 $\frac{1}{4}$ " (158.7 mm)
Under guide and wheel (with 28-984 height attachment)	12 $\frac{1}{4}$ " (311.1 mm)

Speeds (with 1725 RPM motor)

Wood Cutting Model	3000 SF/M (914.4 Surf. M/Min.)
Metal/Wood Cutting Model	40, 60, 85, 115, 160, 220, 335, 3000 SF/M (12.1, 18.2, 25.9, 35, 48.7, 67 and 102.1 Surf. M/Min.)

Table:

Size	14 x 14" (355.6 x 355.6 mm)
Groove	$\frac{3}{8}$ " (9.5 mm) deep by $\frac{3}{4}$ " (19.05 mm) wide
Tilt	to right, 45°; to left, 10°
Height from floor	42 $\frac{3}{4}$ " (1085.8 mm)

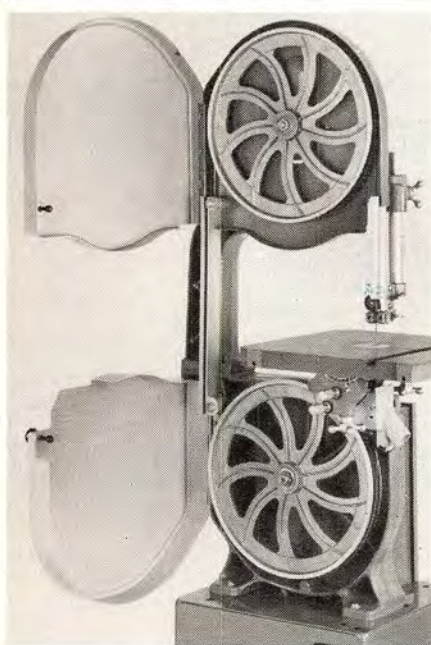
Blade:

Width: Maximum	$\frac{3}{4}$ " (19.05 mm)
Length: Maximum	94" (2387.6 mm)
Minimum	91 $\frac{1}{2}$ " (2324.1 mm)
Standard	93 $\frac{1}{2}$ " (2374.9 mm)
Length (with 28-984 height attachment):	
Maximum	106" (2692.4 mm)
Minimum	103 $\frac{1}{2}$ " (2628.9 mm)
Standard	105" (2667 mm)

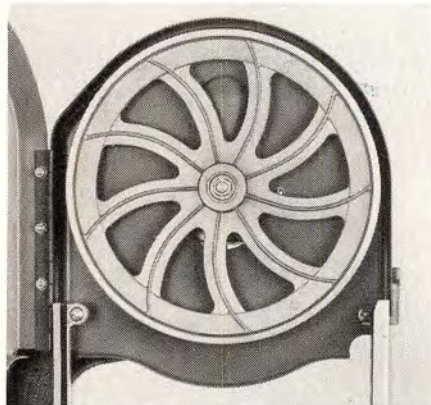


Delta 14" Band Saws (continued)

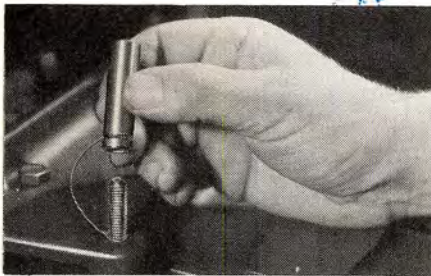
Delta 14" Band Saw Quality Features



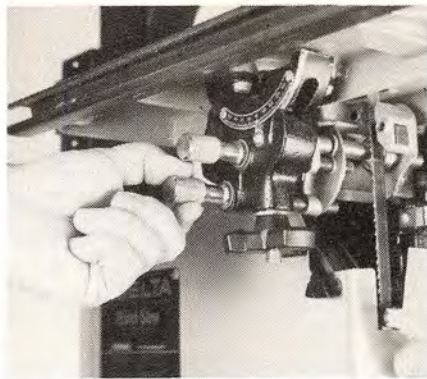
New Wheel Guards. Steel, hinged wheel guards open instantly and wide for fast, easy saw blade changes.



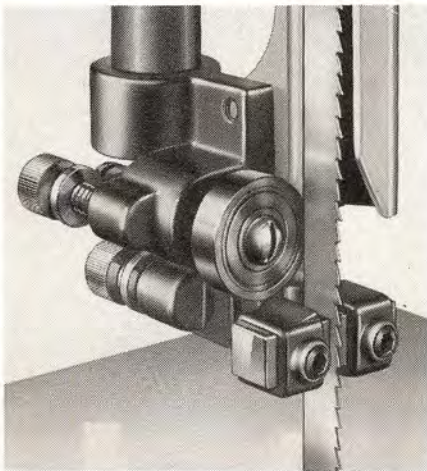
Smooth Running Wheels. Sturdy die-cast aluminum wheels are precision balanced with rims fully machined concentric with the shaft hole, for smooth running. Recess in rim eliminates use of messy cement—makes tire changing easy.



Special Table Stop. Adjustable sleeve provides positive stop for table at level position. Can be removed for a 10° left tilt. Table tilts full 45° to the right.



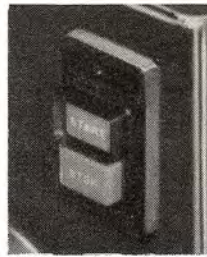
Precision Lower Blade Guides. Lower blade guides have safe, accurate, remote control micrometer adjustment. Lower guides support blade to within $\frac{3}{4}$ " of table work surface—assure accurate cutting.



Superior Upper Blade Guide Construction. Upper guide has separate, safe, remote control micrometer adjustments for ball bearing blade support and blade guide blocks. Guides and blade supports adjust independently.

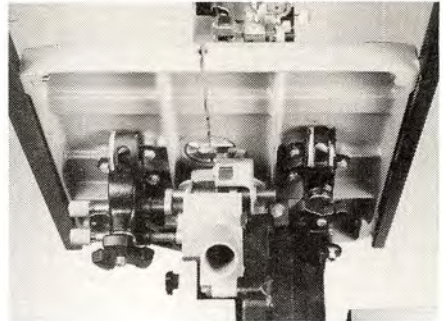


Exact Tension Blade Scale. Direct reading scale on blade tension adjustment shows correct tension for different blade widths. Scale readings are not affected by variable blade lengths.



Exclusive Delta 24-Volt Safety Control System.

14" Band Saws offer a low 24 volts at the push button station for extra operator safety. Magnetic motor control system, mounted in dust-tight enclosure, provides on-off control, low-voltage control and no-voltage protection. Switch cover and buttons are made of non-conductive material for safety.



Specially Designed Table. Side take-out slot for blade permits use of solid front trunnion (not split for blade removal) located directly under work load. Rip fence guide rails need not be removed when changing blades.

Additional Delta Quality Features

Double-Sealed, Lubricated-For-Life Ball Bearings for upper and lower wheels and blade supports and all shafts of back gear unit insure many years of trouble-free performance.

Upper and Lower Wheels are completely guarded. All portions of blade are enclosed and guarded except portion actually cutting material.

Rugged 14 x 14" Table has a $\frac{3}{8}$ x $\frac{3}{4}$ " miter gage groove. Machined for rip fence. Widely spaced double trunnions and heavy ribbing provide rigid support for work.

Guides are finest type ever offered. Each adjusts independently of the other, also adjusts with micrometer accuracy. Guide pins can be set to blade teeth without disturbing the setting of the blade supports; blade supports can be set without altering adjustment of guide pins. Ball bearing blade supports are reversible and double-sealed.

Aluminum Wheels are carefully balanced for true running, also rimmed for proper mounting of tire.

New Chip Chute directs sawdust and chips down and away from lower wheel and housing... may be easily connected to a central exhaust system.

New Style Blade Guide Bar has V-groove design for positive locking of blade guide at desired setting.

Delta 14" Band Saw Accessories

For 14" Wood Cutting Band Saw

- No. 41-033 Motor Pulley, 2 $\frac{3}{4}$ " diameter, $\frac{5}{8}$ " bore. $\frac{1}{2}$ lb.
- No. 49-173 V-Belt, 57 $\frac{1}{8}$ " O.C.

For 14" Metal / Wood Cutting Band Saw

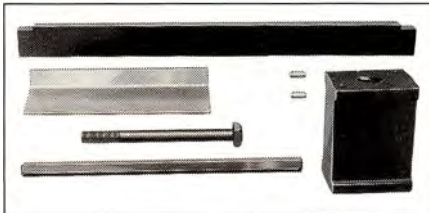
- No. 41-713 Motor Pulley, 4-step, $\frac{5}{8}$ " bore. 1 lb.
- No. 49-111 V-Belts, matched set of two, 41" and 58 $\frac{5}{8}$ " O.C.

For 14" Band Saws

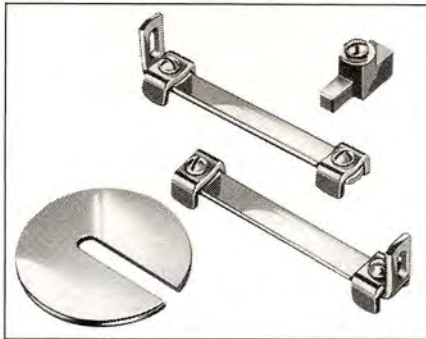
- No. 50-122 Enclosed Steel Stand. Includes 50-139 basic stand, motor plate and 50-135 belt guard. 54 lbs.
- No. 50-241 Retractable Caster Set. For use on open steel stand with 28-243 Band Saw. 13 lbs.
- No. 50-262 Mobile Base. For 14" Band Saw on open type stand. 23 lbs.
- No. 50-263 Mobile Base. For 14" Band Saw on enclosed type stand. 19 lbs.



No. 25-858 Lamp Attachment, for 115 V. Includes 9" flexible gooseneck, reflector and 8-foot cord with plug. Uses standard bulb (not included) up to 40 watts. 2 lbs.



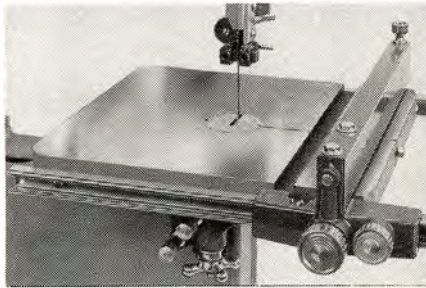
Height Attachment. Increases capacity of 14" Band Saw from 6 $\frac{1}{4}$ " to 12 $\frac{1}{4}$ " under the guide. Add at any time. Needs 105" blades.
No. 28-984 Height Attachment with cast block, dowels and bolt, extension front blade guard, wood back blade guard. 12 lbs.



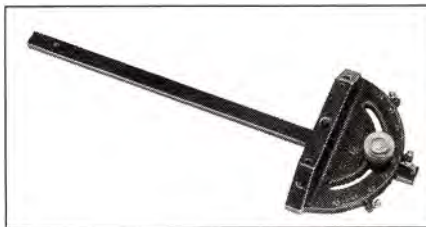
No. 28-810 Sanding Attachment. Includes flat and curved platens with guides and mounting brackets. 1 lb.



No. 28-836 Sanding Belt. Garnet type, five, No. 80 grit, fine, $\frac{1}{2}$ " wide, 91" long. 1 lb.
No. 28-837 Sanding Belt. Garnet type, five, No. 40 grit, medium, $\frac{1}{2}$ " wide, 91" long. 1 lb.



No. 28-843 Rip Fence. With 18" guide bars and mounting screws. 8 lbs.
No. 28-845 Rip Fence. With 32" guide bars and mounting screws. 12 lbs.



No. 34-895 Miter Gage. For straight and angle operations. Has $\frac{3}{8}$ x $\frac{3}{4}$ x 18" guide bar and pivoting work support body with pointer and calibrations reading through 120° swing. Adjustable, positive stops at 90° and 45° positions. 4 lbs.

- No. 34-568 Clamp Attachment for Miter Gage. With clamp bar, two sliding clamp screws, and front and rear posts. 1 $\frac{1}{2}$ " lbs.
- No. 34-873 Extra Clamp Screw and Block. For Clamp Attachment. $\frac{1}{2}$ lb.

Wood Cutting Band Saw Blades



High carbon steel blades with precision machined and set teeth for cutting accuracy. Tension-tested for strength. For cutting woods, plastics, compositions; non-ferrous metals including aluminum. All .020" thick, 93 $\frac{1}{2}$ " blades are standard; 105" blades used with 28-984 Height Attachment. $\frac{1}{2}$ lb. each.

Number (93 $\frac{1}{2}$ " Long)	Number (105" Long)	Width	Min. Cut. Rad.	Teeth Per In.
28-032	28-045	$\frac{1}{8}$ "	$\frac{3}{16}$ "	14
28-033	28-046	$\frac{3}{16}$ "	$\frac{5}{16}$ "	6
28-034	28-047	$\frac{1}{4}$ "	$\frac{5}{8}$ "	6
28-036	28-048	$\frac{3}{8}$ "	1 $\frac{3}{8}$ "	6
28-038	28-050	$\frac{1}{2}$ "	2 $\frac{1}{2}$ "	6
28-040	28-052	$\frac{3}{4}$ "	5 $\frac{1}{2}$ "	4

Premium Wood and Metal Cutting Band Saw Blades

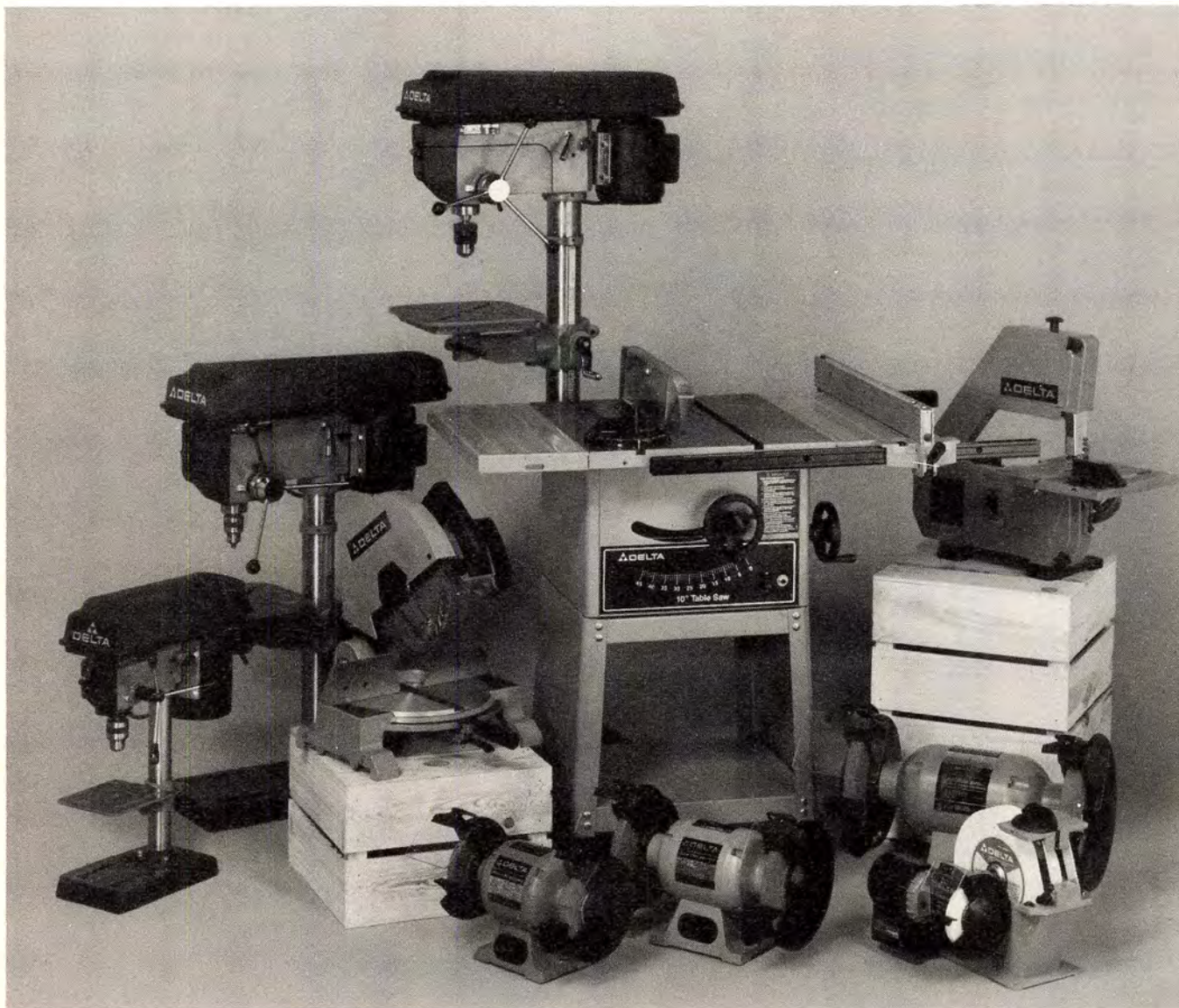
Made of pre-hardened and polished high carbon steel, blades are hard-tooth, flexible back type for faster cutting; longer life. All .025" thick; 93 $\frac{1}{2}$ " long. $\frac{1}{2}$ lb. each. For cutting all kinds of woods; also aluminum, magnesium, plastics, compositions.

Number	Width	Minimum Cut. Rad.	Teeth Per Inch
28-884	$\frac{1}{4}$ "	$\frac{5}{8}$ "	6
28-885	$\frac{3}{8}$ "	1 $\frac{3}{8}$ "	4
28-886	$\frac{1}{2}$ "	2 $\frac{1}{2}$ "	4

For cutting all ferrous and non-ferrous metals.

Number	Width	Minimum Cut. Rad.	Teeth Per Inch
28-060	$\frac{1}{2}$ "	2 $\frac{1}{2}$ "	14
28-062	$\frac{1}{2}$ "	2 $\frac{1}{2}$ "	18
28-064	$\frac{1}{2}$ "	2 $\frac{1}{2}$ "	24

Delta Machinery for Building Trades and Home Shops



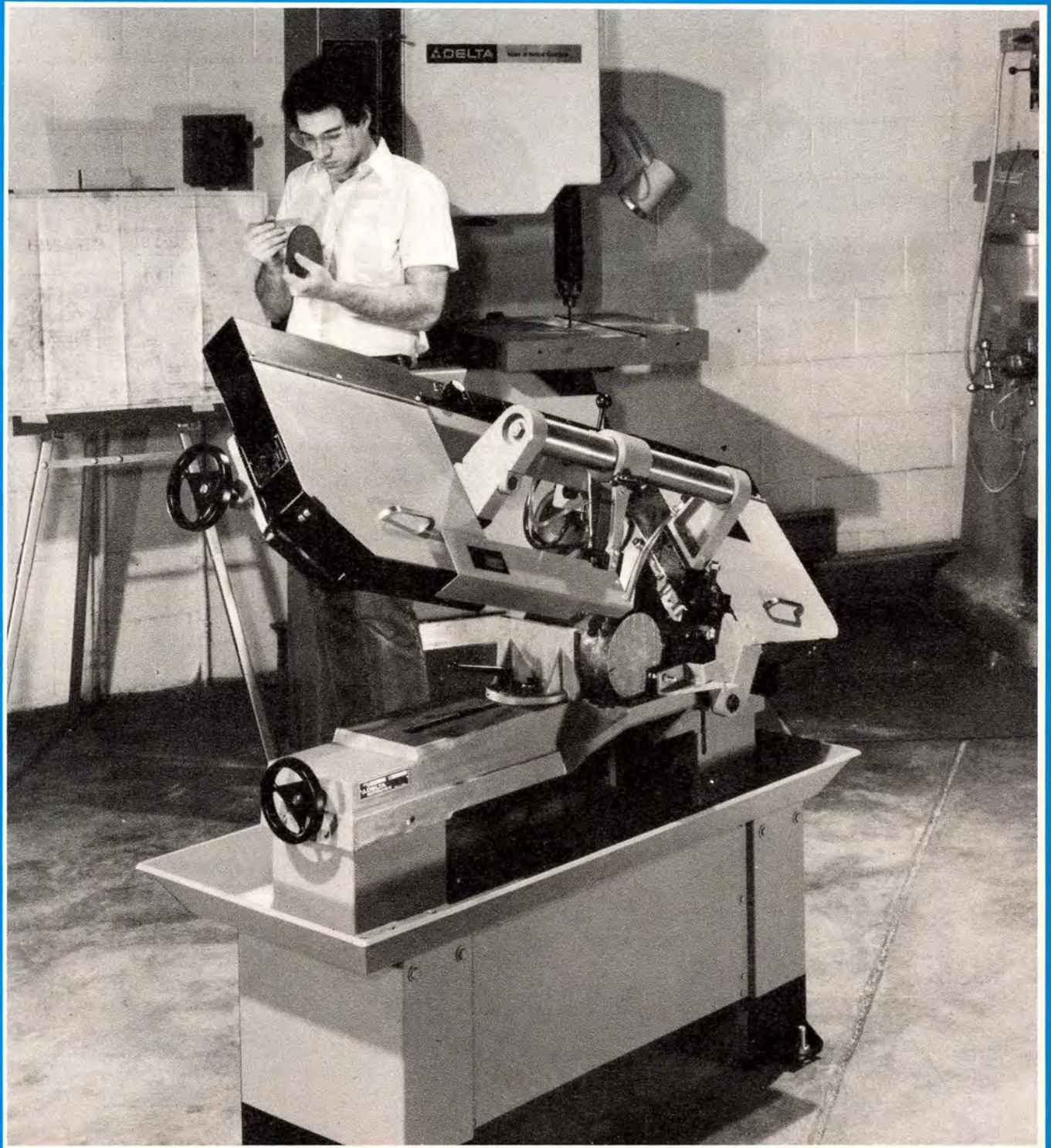
If you have need for fine building trades or home shop machinery, you can rely on Delta. Manufacturers of high quality, precision machinery for over 60 years. For the name of your local Delta Machinery Distributor, call toll free: 800-438-2486 (in PA, 800-438-2487).

 **DELTA**
Building On Tradition

Delta Horizontal Band Saw

Cuts Costs Without Cutting Corners

The Delta 8 x 14" Horizontal Band Saw offers high production quality without the premium price.



Delta 8 x 14" Horizontal Band Saw

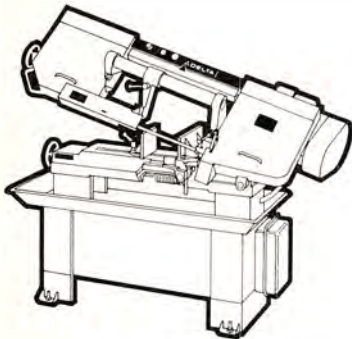


This sturdy machine is well suited for job shops, schools, metal fabricators and maintenance departments — anywhere speed and quality of cut are priorities.

The quality features built into this unit insure convenient and dependable operation:

- Four blade speeds enable precise and accurate cutting in a variety of materials ranging from hard cast iron, tool steel and bronze to aluminum and plastics.
- Cutting pressure is factory-set for fast cutting without blade damage. The heavy bridge, cast iron blade guide arm and dual blade guides maintain the set of the blade for continued accuracy.
- All controls are conveniently located for the operator; spring loaded handles eliminate the need for tools for most adjustments.
- Factory installed coolant system with regulator valve provides an even flow of coolant to the blade; includes a four and a half gallon coolant tank.

Catalog Listing



Complete 8 x 14" Horizontal BandSaw. Includes basic machine, steel legs and shelf, bar stock stop, roller blade guides, chip removal brush, coolant and chip pan, two 4-step pulleys, carbon steel blade for general purpose cutting and V-belt. With electricals and coolant pump system.

Machine Data

Capacity:

Diameter at 90° 8" (203.20mm)
 Rectangular at 90° 8" x 12½" (203.20 x 317.50mm)
 3½" x 14" (88.90 x 355.60mm)
 Rectangular at 45° 7¼" x 8" (181.15 x 203.20mm)

Blade:

Length 9' 8½" (2970.00mm)
 Width ¾" (19.05mm)
 Type Carbon-Steel or Bi-Metal Blades Recommended

Drive:

1½ HP Motor with V-Belt drive with 4 Step Cast Iron Step Pulleys, worm gear machine ground with phosphorbronze worm gear

Speeds:

50, 125, 200, 275 FPM
 (15.25, 38.13, 61.00, 83.87 MPM)

Blade Wheels:

13" dia. (330.20mm) flanged cast iron

Head Control:

Hydraulic cylinder operated by needle valve

Blade Guides:

Roller bearing and carbide

Construction:

Heavy cast iron bed, precision machined top surface. Frame pivots on heavy cylindrical roller bearings.

Floor Space:

39½" x 14½" (1003.30 x 368.30mm)

Machine Weight:

730 lbs. (336.4kg)

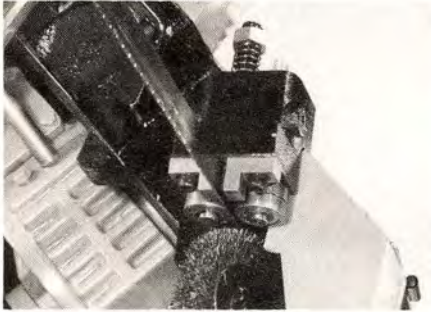
Cat. No.	Motor	Motor Control	Motor Encl.	Hertz & Motor RPM	Motor Voltage	Shipping Weight
20-714	Single Phase 1 ½HP	24V Push Button Station Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60 1725	230V	745
20-715	Three Phase 1 ½HP	24V Push Button Station Magnetic Starter, Transformer and 3-leg Overload Protection (LVC)	TEFC	60 1725	230V	740
20-716			TEFC	60 1725	200V	740
20-717			TEFC	60 1725	460V	740
20-719	Single Phase 1 ½HP	Toggle Switch Only Note: Plug for Coolant Pump Motor on this model must be purchased separately	OGDP	60 1725	230V	730

OGDP – Open Guarded Drip Proof

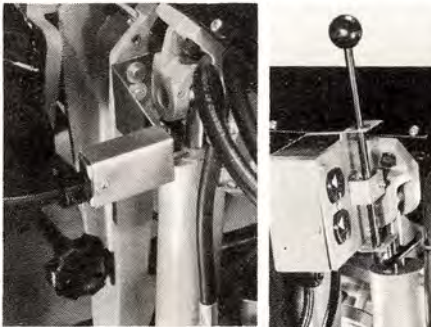
TEFC – Totally Enclosed Fan Cooled

For Accessories, see Page E4.

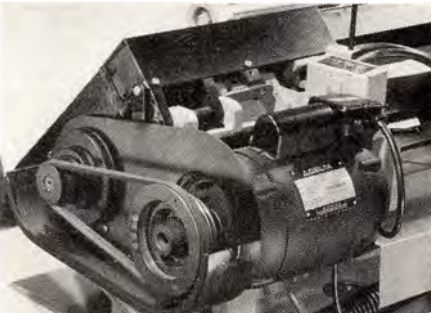
Quality Features



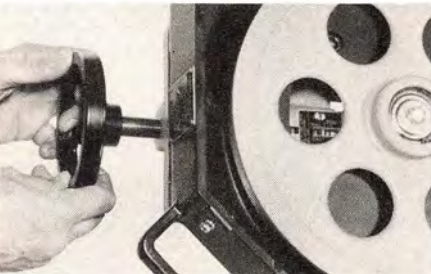
Efficient Blade Guide System. Roller bearing guides support blade thrust. Carbide guides fit closer to blade for increased accuracy; resists friction wear. Standard equipment wire brush clears chips from tooth gullets.



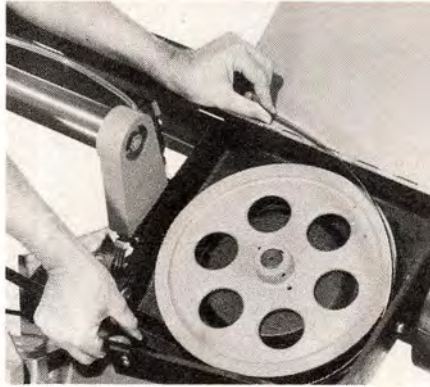
Automatic Shut Off. Bandsaw, coolant pump and accessories are controlled by LVC switch (L) or toggle switch (R) and shut off automatically upon completion.



Efficient Drive System. Fan-cooled 1 1/2 HP motor combined with steel worm gear drive and cast iron pulley system provides positive power to the blade. 4-step pulley offer blade surface speeds of 50, 125, 200 and 275 FPM.



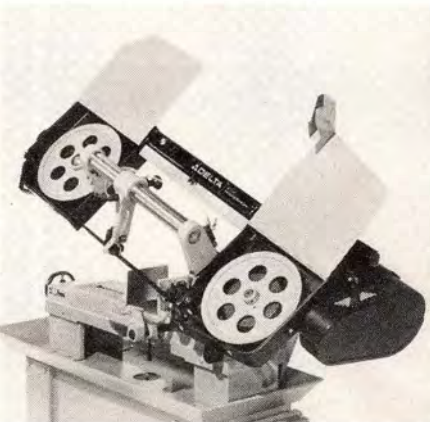
Adjustable Blade Tension. Increase or decrease tension with a simple turn of the handwheel. Built-in scale displays blade tension in pounds per square inch up to 35,000 PSI.



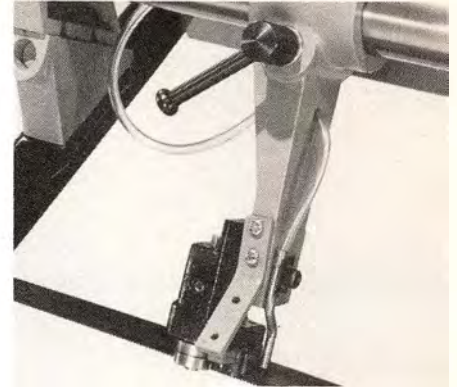
Fast Blade Changes. Front blade wheel covers allow easy access to the blade. No tools or adjustments are necessary if replacing the same width and type blade.



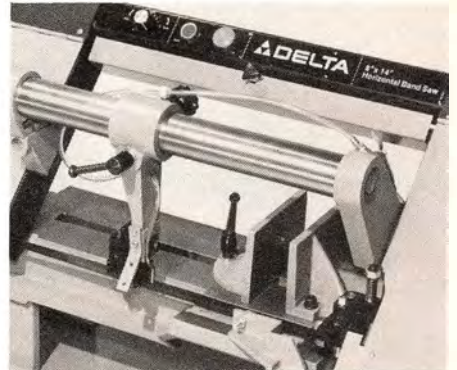
Quick Positioning Vice. Tighten workpiece by turning handwheel clockwise. For faster positioning, turn handwheel counterclockwise a half turn and slide vise jaw to desired position and lock. Adjustable vise jaws can be swivelled for cutting any angle from 90° to 45°. Face of sliding vise jaw inclined 2 degrees for more secure hold on workpiece.



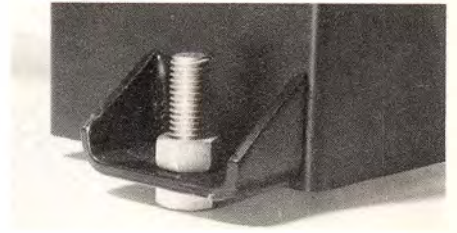
Heavy Structural Design. Heavy gage steel constructed stand for support accuracy. Standard bevelled chip pan incorporates strainer for coolant recycling, access for chip removal.



Rigid Blade Guide Arm. Cast iron arm supports blade guide to maintain true cutting accuracy; resists movement even at high cutting rate under load. Split coolant jet coats and lubricates blade immediately prior to cutting.



Rigid Construction. Heavy bridge maintains alignment of blade arm. Ground finish surface facilitates moving left hand guide close to workpiece.



Cabinet Stability. Cabinet feet come equipped with leveling screws. Stand can be secured to floor for added stability.



Pivot Point with cylindrical roller bearings key in maintaining accuracy. Field replaceable with grease fittings.

Delta Horizontal Band Saw Accessories

Metal Cutting Band Saw Blades. Hard tooth, bi-metal flexible back type with raker tooth structure for cutting metals. All 9'8 $\frac{1}{16}$ " long.

Cat. No.	Width	Thickness	Teeth Per Inch
20-721	3/4"	.032"	10
20-722	3/4"	.032"	6
20-723	3/4"	.032"	8
20-724	3/4"	.032"	14
20-725	3/4"	.032"	8/12 Variable



No. 20-904 Bar Stock Stand. Adjustable in height from 17 $\frac{3}{4}$ " to 30 $\frac{1}{2}$ ". 10" roller width. 20 lbs.

No. 20-989 Dash Pot Oil. Mobile-DTE Light. One quart can. 2 lbs.

Delta Coolant Equipment

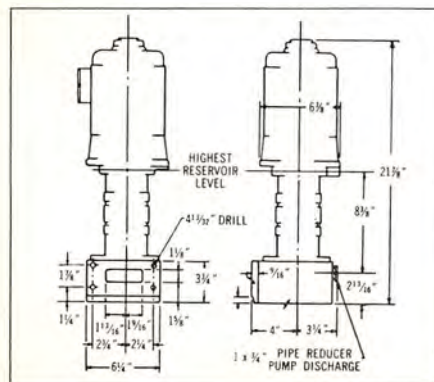
Get more machine flexibility with Delta coolant equipment

Here's the perfect answer for big cost savings on your production jobs. Delta coolant equipment gives you these important benefits:

1. **Lubricates the cut**—maintains feeds and speeds with less horsepower.
2. **Cools the work and cutting tool**—prevents overheating or discoloration of work.
3. **Flushes chips away from the work**—assures a higher quality finish.



16-Gallon Coolant System shown with Pump, Cord, Switch and Tank.



Delta 16-Gallon Coolant System

Big capacity 1/4 HP pump provides a full flood of coolant making it ideal for use with multiple spindle drill presses. Also metal lathes, cut-off machines, etc. Check these built-in Quality Features:

- Adjustable—can be shut down to mere trickle without damage.
- 16-gallon tank has settling basin and wire mesh filter to keep coolant free from chips.

No. 49-610 Coolant Pump, For Single Phase Operation. Complete with 1/4 HP, 115V, 60Hz, AC, 1725 RPM motor. 68 lbs. Order 49-681, 49-312 separately.

No. 49-619 Coolant Pump, For 3 Phase Operation. Complete with 1/4 HP, 230/460V, 60 Hz, AC, 1725 RPM motor. 68 lbs. Order 49-618 separately.

For Single Phase Operation

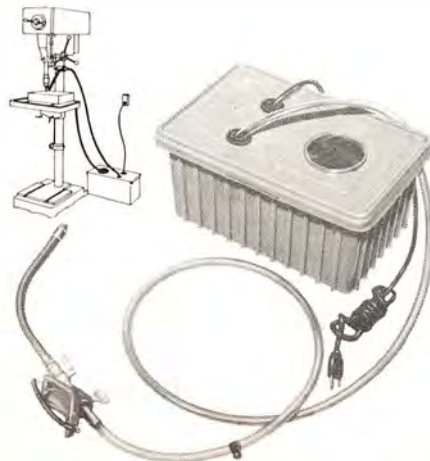
No. 49-610 Coolant Pump complete with 1/4 HP, 115 V, 60 hz, AC, 1725 RPM motor. 68 lbs. Order 49-618, 49-312 separately.

For 3 Phase Operation

No. 49-619 Coolant Pump complete with 1/4 HP, 230/460 V, 60 hz, AC, 1725 RPM motor. 68 lbs. Order 49-618 separately.

Low-Cost Delta 5-Gallon Coolant System

Delta's 5-Gallon Coolant System is well suited for use with single spindle drill presses having a column from 2 $\frac{3}{4}$ " to 4" in diameter, also non-metal bandsaws.



The system incorporates these Delta quality features:

- Pump is hermetically sealed, has life-time lubrication, a nylon impeller and double "X" viton double lip seals.
- Equipped with a U.L. approved, 3-conductor, grounding type cord and plug.
- Flow of coolant can be regulated to any amount desired or completely shut off, without harmful effects.
- Double protection is provided against chips recirculating and causing a bad finish on the work. A screen traps the larger particles. A baffle in the tank provides a settling basin.

No. 49-620 5-Gallon Coolant System for 115 V, 60 hertz, single phase. Includes submersible pump with 1/4" male outlet, 5-gallon tank with screen and baffle, 6-foot plastic hose, flexible pipe with nozzle and valve, and 6-foot 3-conductor power cord with 3-prong 115 V grounding plug. The universal clamp with garter spring may be instantly snapped onto any round drill press column from 2 $\frac{3}{4}$ " to 4" in diameter. It firmly holds and points nozzle exactly at hole being drilled. Does not include drain hose from machine table to coolant tank. 17 $\frac{1}{2}$ lbs.

Accessories

No. 49-618 Tank. 16-gal. capacity, 15 $\frac{7}{8}$ " x 25 $\frac{7}{8}$ " x 11" high, required with any of above pumps. 38 lbs.

No. 49-312 On-and-off Toggle Switch. 2-pole, 1 $\frac{1}{2}$ HP, AC, 115/230V. Includes 115V 8-foot cord, 3-prong grounding type plug and clamp. 2 lbs.

No. 49-313 On-and-off Toggle Switch. 2-pole, 1 $\frac{1}{2}$ HP, AC, 115/230V. Includes 230V 8-foot cord, 3-prong grounding type tandem plug and clamp. 2 lbs.

No. 17-802 Coolant Line Assembly. For single or multiple spindle drill presses or any machine with a round column from 2 $\frac{3}{4}$ " to 4" diameter. Includes nozzle, valve, column mounting clamp and flexible hose assembly for providing coolant feed and connection to piping (coolant piping, table clamps not furnished). 3 lbs.

Delta Scroll Saws

Set the pace for quality and cutting performance!

18" Electronic Variable Speed Model—the ultimate in intricate, precision cutting capability. Cuts in tight areas to $\frac{1}{64}$ " diameter with capacity up to 2" thick.

24" Variable Speed and 4-Speed Models—for fast, intricate scroll work or heavy duty panel cutting. Handle stock up to $1\frac{3}{4}$ " thick with 24" blade-to-arm capacity, unlimited capacity with overarm removed.



Delta 18" Electronic Variable Speed Scroll Saw

Built-in electronic control lets you dial the exact speed you need for intricate, high quality cutting!

18" Electronic Variable Speed Scroll Saw

Fine precision cutting! Simplified intricate cutting in tight areas as small as 1/64" diameter! Big 2" thick capacity for large jobs! All at the speeds you need for a sand-free finish! That's what you get with the Delta 18" Electronic Variable Speed Scroll Saw.

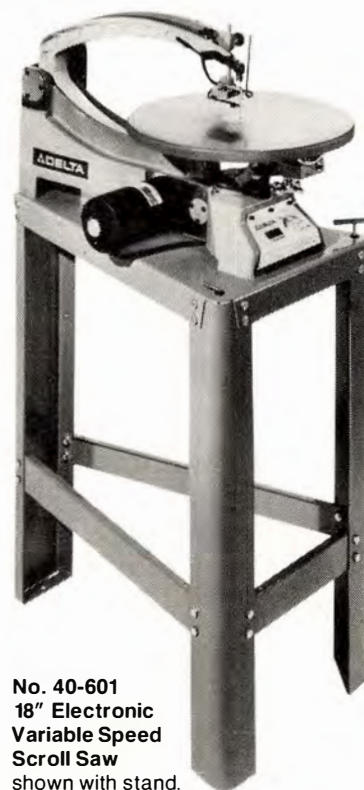
It's a unique machine offering engineering advances that set it apart from all other scroll saws. For example, you get: infinitely variable speed from 40 to 2000 CS/M—an electronic controller that maintains constant blade speed and torque under all cutting conditions—an

accurate, digital speed read-out for optimum quality cutting—pivoting-type blade chucks for extra fast blade changing and tensioning—a large, cast iron, circular table that tilts 30° L and 45° R, also rotates 90° to tilt 15° up and 30° down—a dry drive design for long, trouble-free performance—counter-rotating balancers for vibration-free running—ball and roller bearing construction throughout—and much more.

Stop in and let us prove the superior performance of the Delta 18" Electronic Variable Speed Scroll Saw!



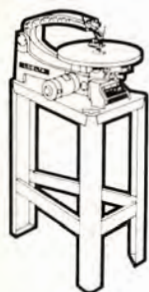
No. 40-601 18" Electronic Variable Speed Scroll Saw with accessory 25-858 lamp attachment.



No. 40-601 18" Electronic Variable Speed Scroll Saw shown with stand.

Catalog Listing

Specifications



No. 40-601 18" Electronic Variable Speed Scroll Saw. Includes basic machine with steel stand; single phase, 115 volt, solid state, electronic controlled, permanent magnet motor; cutting-strokes-per-minute digital readout; back-up blade guide; 96 assorted metal and wood scroll saw blades and blade changing tools.

Capacities:	
Throat	18" (457.2 mm)
Thickness of cut	2" (50.8 mm)
Stroke	7/8" (20.2 mm)
Table:	
Size	16" (406.4 mm), round
Tilt	30° L, 45° R, 15° up, 30° down
Rotates	90°
Height from floor	42" (1066.8 mm)
Speeds	40 to 2000 C.S./M
Blade Length	5" (127 mm)
Overall Dimensions	17 1/4" deep x 30" wide x 47" high (438.2 x 762.0 x 1193.8 mm)
Net Weight	132 lbs. (59.8 Kg)

Delta 18" Electronic Variable Speed Scroll Saw Quality Features



Intricate Cutting Easily Accomplished.

With Delta 18" Electronic Variable Speed Scroll Saw, you can cut 360° in a 1/8" circle; at the right speed for a sand-free finish. Built-in blower keeps cutting line free of dust.



Big Capacity. Unit cuts up to a full 2" thick. Then, with accessory No. 40-903 90° Blade Holders, you can rip to the center of 36" stock, with unlimited length.



Variable Speed Digital Read-out. Infinitely adjustable speed control, with a range of 40 to 2000 CS/M, is instantly available to the operator. A bright LED read-out allows operator to set his speed precisely to suit the job.



Electronic Variable-Speed Control. The digital, electronic, solid state controller maintains blade speed and proper torque to suit varying cutting conditions. Electronic sensors recognize and adjust speed and torque to maintain desired level of cutting performance, even as different cutting conditions occur. Operator can adjust the speed according to the digital display, which indicates cutting strokes per minute. Speed will hold constant at $\pm 10\%$ of the control range.

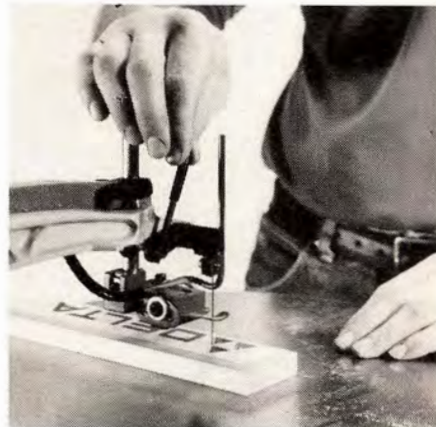


Table Tilt. The large, circular table tilts 30° L and 45° R, also rotates 90° to tilt 15° up and 30° down. This flexibility permits complicated cuts such as complete dovetail joints.



Large Table. Diameter of ruggedly constructed, cast iron table is a full 16", providing ample support for large work. Round table shape allows use of table edge as a reference guide when rotating workpieces around the blade.

Pivoting Type Blade Chucks. Delta offers the fastest blade changing and tensioning in the industry:



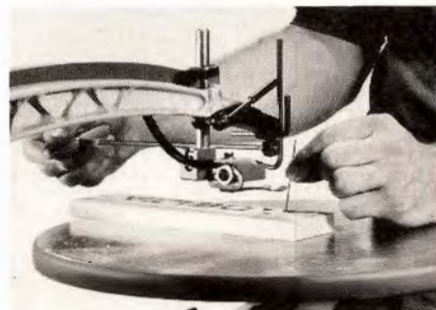
a. Blade tension is released instantly using the front-mounted tensioning lever.



b. Blade is unlocked from top swivel chuck using lock bar and T-handle wrench provided.



c. Bottom swivel chuck allows blade to tilt forward for easy threading into workpiece.



d. Blade swivels back into chuck, is locked in with T-wrench, and tension is instantly set with the tensioning lever.

Delta 24" Scroll Saw

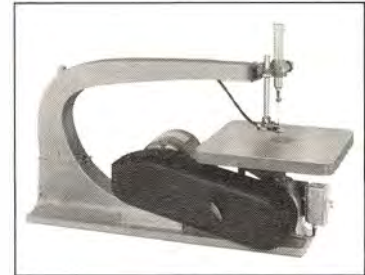
Perfectly suited for intricate internal or external cutting, or for scroll cutting on large, over-size panels!

Delta 24" Scroll Saws are big capacity, rugged machines that handle everything from fine, intricate work to large, bulky panels. They are first choice in school shops, cabinet shops, display shops, pattern shops—wherever there exists the problem of doing internal or external precision cutting of irregular shapes.

Whether you select the Delta Four-Speed Model with speeds of 610, 910, 1255 and 1725 C.S.M., or the Variable-Speed Model with speeds from 650 to 1700 C.S.M., your Delta Scroll Saw contains all these built-in, high-quality features: a new, simplified drive system featuring hardened steel pins and connecting rod with four needle bearings for long, trouble-free operation—automatic crankshaft lubrication—shaft driven blower pump which makes air available even for saber blades—universal tilting table that tilts 45° right, 15° left for normal bevel cutting, and 45° front for bevel cutting of extra long stock—plus much more!



No. 40-40624" Variable Speed Scroll Saw shown with accessory 49-363 Retractable Casters.



No. 40-441 24" Scroll Saw shown with 40-802 4-Speed Accessory Group and Electricals.

Catalog Listing



No. 40-441 Basic Machine: 24" Scroll Saw with 40-202 Individual Blade Guides, 40-204 Lower Saber Saw Blade Guides, and six 40-192 scroll saw blades. Without motor, switch, pulleys, belt, belt guard and steel stand. 100 lbs.



Complete 24" Scroll Saw, ready to run, with basic machine, pulleys, V-belt, belt guard, unassembled steel stand, motor and control.

Four-Speed Model Catalog No.	Variable Speed Model Catalog No.	Motor	Motor Control	Motor Enclosure	Hertz and Motor RPM	Motor Voltage	Shipping Weight Lbs.
40-416	40-406	Single Phase 1/3 HP	24 V Push Button Magnetic Control System with Overload Protection (LVC)	GD	60-1725	115/230	176
40-419	40-409		Toggle Switch Only	GD	60-1725	115/230	170
40-417	40-407	Three Phase 1/3 HP	24 V Push Button Magnetic Control System with 3-Leg Overload Protection (LVC)	GD	60-1725	200-230/460	176

NOTE: Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power

Cord and Plug supplied for single phase only. Motors and Motor Controls for Delta 24" Scroll Saws may be ordered unmounted. For listing, see Section R.

Machine Data

Capacities:

Arm to blade 24" (609.6 mm)
 Thickness of cut . . . 1 3/4" (44.45 mm) maximum
 Chucks can be rotated for unlimited length of cut. Overarm can be removed for unlimited cutting capacity with saber blade.
 Stroke 1" (25.4 mm)

Table:

Size 14" x 14" (355.6 x 355.6 mm)
 Tilt 45° right, 15° left, 45° front
 From floor on stand 42 1/4" (1073.1 mm)

Speeds:

Variable Speed Model . . . 650 to 1700 C.S.M.*
 Four-Speed Model 610, 910, 1255, 1725 C.S.M.

Overall Dimensions:

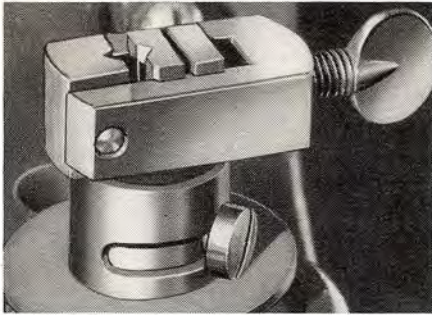
Depth 36" (914.4 mm)
 Width 15" (381 mm)
 Height (on stand) 55" (1397 mm)

* Cutting Strokes Per Minute

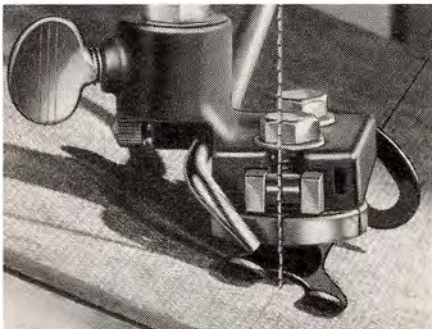


Certified in Canada

Delta 24" Scroll Saw Features

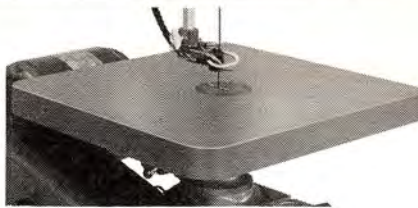


Positive Grip Chuck. Securely holds flat, blank-end saw blades, plus round shank accessories including sanding attachment and machine files. Chuck's 90° rotating feature permits an unlimited length of cut on extra long material.

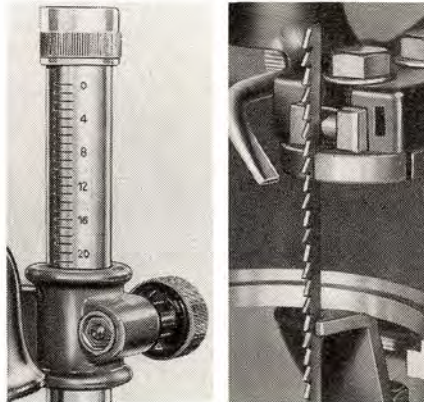


Convenient Spring Hold-Down. For added accuracy and ease of operation. Holds work firmly against the table, even on bevel cutting operations. Prevents material from lifting with up-stroke of blade.

Note: Blade guard removed to aid in photo clarity.



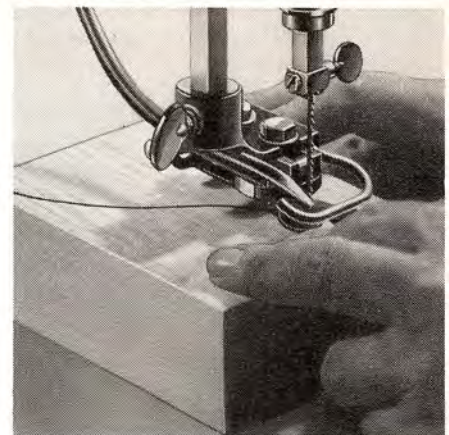
Extra Large Table. Measures a full 14 x 14"—provides ample support for large, bulky panels and other hard-to-handle materials. Table tilts 45° right and 15° left for standard bevel cutting; 45° front for beveling of extra long stock.



(Left) Handy Blade Tensioning Control. Permits accurate adjustment of blade tension best suited for each type of blade or particular job. Assures longer blade life; minimizes blade breakage.

(Right) Universal Blade Guide and Roller Support. Rigidly supports all types of blades, including saber blades, in true alignment for smoother, more accurate cutting.

Note: Blade guard removed to aid in photo clarity.



Big Capacity. Cuts stock up to 1 3/4" thick; offers full 24" arm-to-blade capacity for ripping. Converts to saber saw, with removal of overarm, for cutting materials of unlimited size.

Delta Quality Extras

New Simplified Drive System. Features hardened steel pins and connecting rod with four needle bearings for long trouble-free operation. Automatic lubrication of the crankshaft assures smooth scroll saw performance. Oil level may be easily and quickly checked, or refilled as needed.

Built-In Air Blower. Keeps cutting line free of nuisance dust. Operates off of shaft driven pump making air available even for saber blades.

Delta Scroll Saw Accessories

For 18" Electronic and 24" Variable Speed and 4-Speed Scroll Saws

Scroll Saw Blades. A proper blade for every job. All are 5" long with accurately spaced teeth. Heat treated for extra long life. Have 5/8" blank ends for fastening into chuck. 1/2 dozen to a package.

Catalog Number	Material Cut	Width Inch	Thick-ness	Teeth Per Inch	
40-058	Steel • Iron • Lead Copper • Aluminum	.070	.020	32	
40-159	Pewter • Paper Asbestos • Felt	.070	.020	20	
40-160	Steel • Iron • Lead Copper • Brass	.070	.020	15	
40-161	Aluminum Pewter Asbestos	.085	.020	15	
40-164	Sheet Metal • Iron Aluminum • Copper Brass • Pewter • Lead Wood • Asbestos	.110	.020	20	
40-165	Asbestos • Mica Brake Lining • Steel Iron • Lead • Copper Brass • Pewter Aluminum	.250	.028	20	

Catalog Number	Material Cut	Width Inch	Thick-ness	Teeth Per Inch	
40-184	Wood Veneer Also Plastic • Celluloid Hard Rubber Bakelite • Ivory Extremely Thin Materials	.035	.008	20	
40-185	Plastics Celluloid	.050	.019	15	
40-187	Bakelite	.070	.020	7	
40-188	Ivory • Wood	.110	.020	7	
40-191	Wall Board Pressed Wood Wood • Lead Bone • Felt Paper • Copper Ivory Aluminum	.110	.020	15	

Catalog Number	Material Cut	Width Inch	Thick-ness	Teeth Per Inch	
40-192	Hardand SoftWood	.110	.020	10	
40-193	Hardand SoftWood	.187	.028	10	
40-194	Hardand SoftWood	.250	.028	7	
40-195	Pearl • Pewter Mica	.054	.020	30	
40-196	Pressed Wood SeaShells	.054	.020	20	
40-198	HardLeather	.085	.020	12	

As a general rule, always select the narrowest blades recommended for intricate curve cutting and widest blades for straight and large curve cutting operations.

Continued on next page

Delta Scroll Saw Accessories (continued)

Skip Tooth Blades

All blades have skip teeth for fast cutting and greater chip clearance. All 5" long; supplied 12 blades per package.

Catalog Number	Material Cut	Width Inch	Thickness Inch	Teeth Per Inch
40-605	For extremely intricate sawing. Very thin cuts in 1/16" to 3/32" materials. Excellent for cutting wood veneer, plastics, hard rubber, pearl, etc.	.022	.010	28
40-606	For tight radius work in thin materials 3/32" to 1/8" wood veneer, wood, bone, fiber, ivory, plastic, etc.	.029	.012	20
40-607	For close radius cutting in materials 1/8" or thicker. Great for sawing hard/soft wood, bone, horn, plastics, etc.	.037	.015	14
40-608	Popular sizes for cutting hard and soft woods 3/16" up to 2". Also	.043	.016	12
40-609	plastics, paper, felt, bone, etc.	.047	.017	11.5
40-616		.062	.024	9.5
40-610	For smooth, splinter-free finish on top and bottom sides. Excellent for hard/soft wood, plywood, etc., with thickness of 1/4" or more.	.100	.022	9 with 3 reverse teeth
40-611	Wood, plastic, for extremely thin cuts on materials 3/32" to 1/2" thick.	.080	.010	14

Metal Cutting Blades

These premium quality blades are made of hardened and tempered steel for sawing metal and other hardened materials. All blades are 5" long, have regular teeth and are supplied 12 blades per package.

Catalog No.	Width In.	Thickness In.	Teeth Per In.
40-612	.024	.012	48
40-613	.033	.016	36
40-614	.049	.022	25
40-615	.070	.023	17

For 18" Electronic Variable Speed Scroll Saw

No. 40-603 90° Blade Holders. For ripping to the center of 36" stock, with unlimited length. 4 ozs.

No. 50-266 Mobile Base. For 18" E.V.S. Scroll Saw on Stand. 25 lbs.

For 24" Variable Speed and 4-Speed Scroll Saws

Saber Blades For Wood

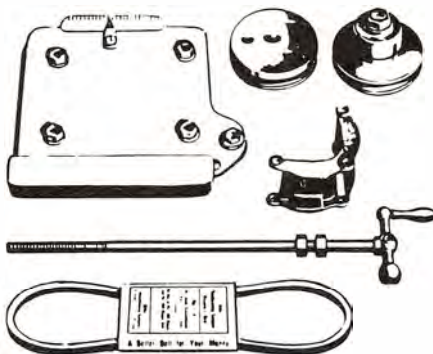
Made of high-grade steel with teeth hardened and accurately set. 4 1/2" in length. 1/2 doz. to a package. 3/8 lb.

Catalog No.	Width In.	Thickness In.	Teeth Per In.
40-703	.187	.028	10
40-704	.250	.028	7

No. 50-818 Steel Stand, 8 x 34 x 3 1/2" high. 34 lbs.

No. 49-363 Retractable Caster Set. For 50-818 Steel Stand. 12 lbs.

No. 40-802 Four-Speed Accessory Group. Consists of 41-712 Motor Pulley (1/2" bore), 41-722 Machine Pulley, 49-340 V-belt and Belt and Pulley Guard. 4 lbs.

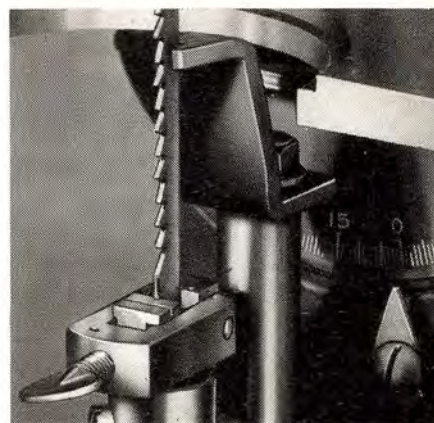


No. 40-544 Variable Speed Accessory Group. Converts the Four-Speed 24" Scroll Saw to a Variable Speed Model. This efficient drive, with a range of 650 to 1700 cutting strokes per minute, provides the proper cutting speed for any material—high speed for fast, fine work—slow speed for heavy work—and an infinite choice of speeds in between. A convenient speed control handle permits fine speed adjustment—even within 1 or 2 C.S.M.—while the machine is running.

Consists of 40-446 variable-speed motor pulley (1/2" bore), motor base with bracket, screws and handle, 49-303 special V-belt, 40-443 special drive pulley (1/2" bore), belt and pulley guard. 12 lbs.

No. 40-715 Self-Centering Lower-Jaw Chuck.

Fits Lower plunger of scroll saw. Valuable aid for fine marquetry and puzzle work. Fine blades are automatically guided to center of chuck, then locked with thumb screw. Includes special jaw for use with upper chuck. 3/8 lb.



No. 40-204 Lower Saber Saw Blade Guides.

Support saber blade directly below table. Enable you to do perfect straight-line saber cutting because the blade is supported below the table as well as above. Consists of 2 lower guides with post, nut and thumb screw. Blade slots—.030" and .040". 5/8 lb.



No. 40-202 Individual Blade Guides. Supplement the regular guide and hold-down. Used where close following of a line or pattern is important. Ideal for puzzle and marquetry work.

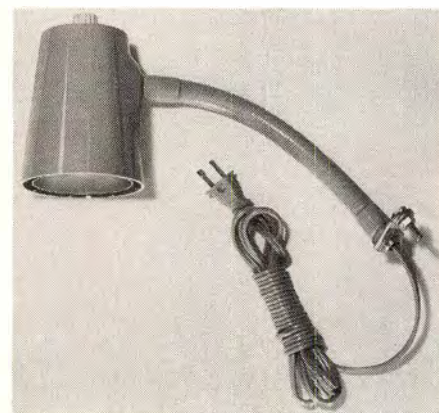
Set of six different, hardened steel guides and bracket. 1 lb.



No. 40-711 Sanding Attachment. For sanding concave, convex or flat surfaces. Eliminates annoyance of makeshift devices. Knurled knob expands body of sanding attachment, tightens garnet sleeve securely. 1 5/16" wide, 1/2" thick and 2 1/2" long. 1/4" dia. shank fits universal lower chuck of scroll saw. With one sleeve. 1/2 lb.

Sanding Sleeves. Package of 6. 1/4 lb.

Catalog No.	Type	Grit and Finish
46-841	Garnet	No. 1 Medium
46-248	Garnet	No. 1/0 Fine



No. 25-858 Lamp Attachment, for 115 V. Includes 9" flexible gooseneck, reflector and 8-foot cord with plug. Uses standard bulb (not included) up to 40 watts. 2 lbs.

Delta Long-Bed Jointers

16½", 8" and 6" Models

Big in every way—capacity, safety, convenience—to meet your every production need!

No matter which Delta Jointer you select, it will provide all the capacity, flexibility and precision you will require. Precision engineered features include an extra long bed, big fence, easy-to-operate table controls, fully adjustable infeed and outfeed tables, large diameter ball bearing cutterhead, built-in rabbeting ledge and dust chute, plus the power of a heavy duty, lubricated-for-life, ball bearing motor.



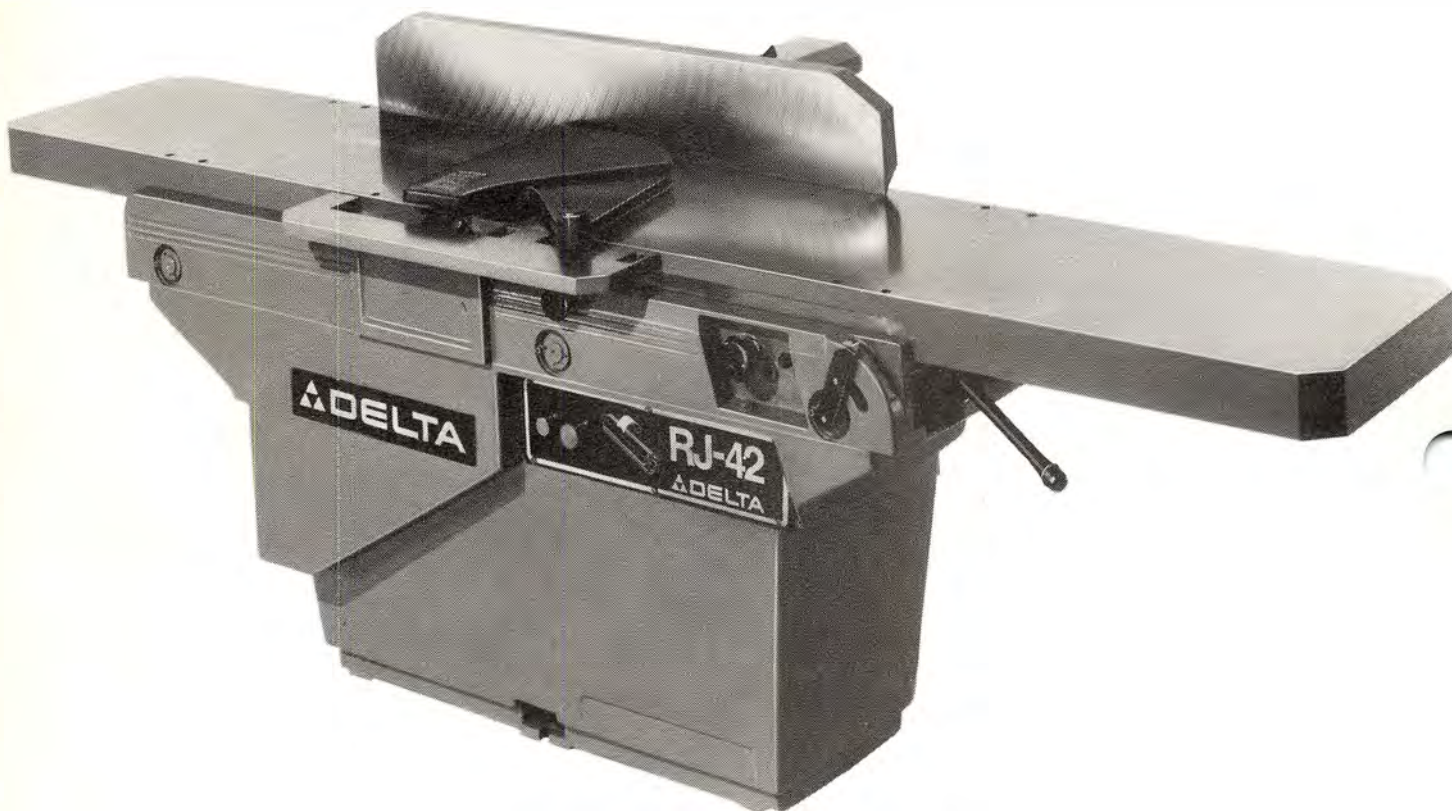
Delta RJ-42 16½" Precision Jointer

Precision engineered for fast, accurate jointing operations!

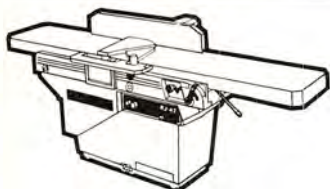
This long-bed Delta jointer offers big capacity combined with precision accuracy and greater safety through design, making it well suited for high-production wood-working operations. It will surface stock 16½" wide, rabbet 1" deep and, with its giant 8½-foot long table, accurately surface extra long stock. These important features, combined with the machine's parallelogram design, torsion-spring counter-

balanced tables, precision ground 4.72" diameter cutterhead, and specially designed center-mounted fence, truly make the Delta 16½" jointer an outstanding value.

That's why it is receiving wide acceptance by users in wood-working plants, furniture factories, lumber yards and specialty shops...wherever big capacity, precision jointing is required.



Catalog Listing



† No. 37-420 16½" Jointer. Includes 5 HP, 200-220/440V (wired 220V), 60 Hertz, three phase motor with magnetic starter and automatic reset overload; set of four HSS knives; rabbeting ledge; center-mounted fence; cutterhead guard; depth gauge; knife setting gauge with wrench.

No. 37-421 16½" Jointer. Same as 37-420 except includes 5 HP, 230 V, 60 Hertz, single phase motor with magnetic starter and automatic reset overload.

Machine Data

Motor (TEFC) 5 HP, 200-220/440V (wired for 220V), 60 Hertz, 3 Phase; 5 HP, 230V, 60 Hertz, 1 Phase

Table:
 Length 102¾" (2600 mm)
 Length of rear table (out-feed) 43¾" (1100 mm)
 Length of front table (in-feed) 57" (1450 mm)
 Width 16½" (420 mm)
 Height from floor 31½" (800 mm)

Fence:
 Size 67/8" x 433/16" (174.6 x 1097 mm)
 Tilts in and out 45°
 Positive stops 90°, 45° out

Cutterhead:
 Speed 5000 RPM; 20,000 CPM
 Number of knives 4
 Diameter 4.72" (120 mm)

Rabbeting Capacity 1" (25.4 mm)

Cutting Capacity:
 Width 16½" (419.1 mm)
 Depth 1" (25.4 mm)

Dust Collection Capability See Page B2

Overall Dimensions:
 Height 38¾" (974.7 mm)
 Width 102¾" (2600 mm)
 Depth 46" (1168.4 mm)

Net Weight 1334 lbs. (605 Kg.)

†No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to three phase catalog no., in order to obtain machine with factory mounted and wired "JIC" type electricals.

16 1/2" Precision Jointer Features

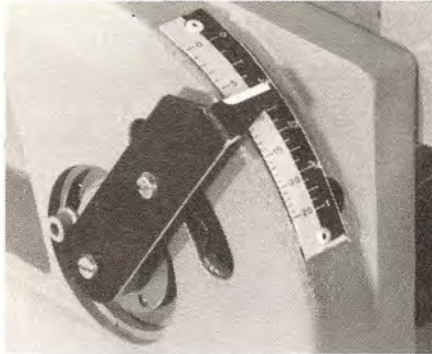
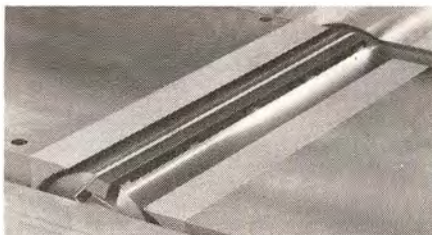


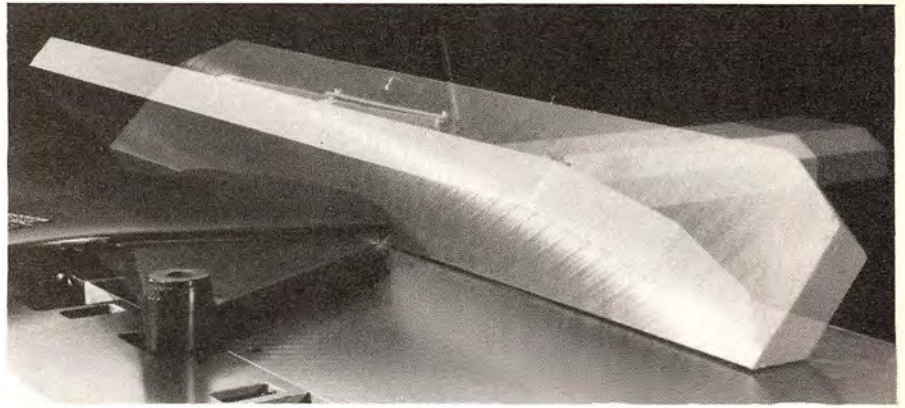
Table Adjustment, Raising and Lowering Mechanism. Tables are torsion-spring counterbalanced for easy movement and setting by hand lever. In-feed table has a convenient lock knob to hold depth-of-cut setting, also a positive depth stop for repetitive jointing operations. This is a convenient method of presetting a finish cut depth, then returning table to this setting after making rough cuts. Accurate, easy-read, depth-of-cut scale is calibrated in both inches and millimeters.



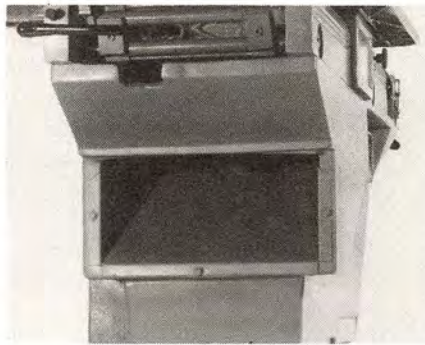
Four-knife Cutterhead. Large 4.72" diameter, 4-knife cutterhead is precision ground, balanced and operates at 5000 RPM on pre-lubricated, sealed ball bearings. Cutterhead knives are spring-loaded and adjustable for proper height setting. Knife wedge bars are adjustable for desired chip curl. Both tables have replaceable aluminum table lips that are contoured close to cutterhead for safer operation.



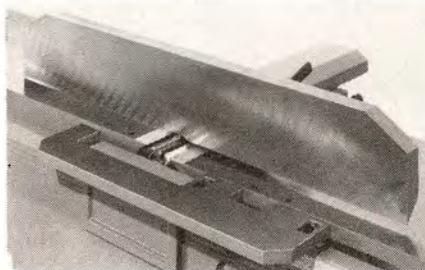
Table Movement. Parallelogram design enables tables to travel in same arc as cutting circle, maintaining uniform, close clearance between table lips and cutterhead for safer operation, regardless of cutting depth.



Versatile Fence. Large 67/8 x 43 3/16" fence tilts 45° in and out, is equipped with positive, adjustable stops at 90° and 45° out. Control lever locks fence over cutterhead at any angle. Adjacent tilt scale simplifies adjustments.



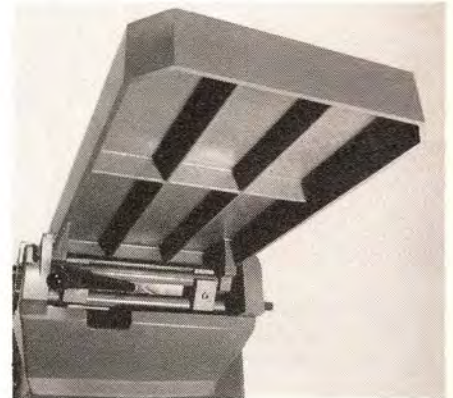
Chip Chute. Located well above floor level, the large 9 1/2 x 17 1/2" chip chute keeps dust and chips away from the motor. It may be easily connected to a central dust collection system.



Center-Mounted Fence. Fence has a novel design so that rear of cutterhead is fully enclosed when working close to front of machine.



Rabbeting Ledge. Jointer incorporates a large 57/8 x 26 1/2" rabbeting ledge, furnished as standard equipment. A rabbeting depth of up to 1" is obtained when in-feed table is fully lowered.



Heavily Ribbed Tables; Parallelogram Design. Tables are constructed of cast iron and heavily ribbed for solid support. Each table is mounted at four points and torsion-spring balanced for ease in making table height adjustments. Both in-feed and out-feed tables are supported on the frame by more than half their length for maximum jointing accuracy.



Knife Setting Gauge. Standard equipment gauge locks cutterhead in position for changing or setting knives. Gauge automatically holds knives at the proper height as they are safely locked in place.

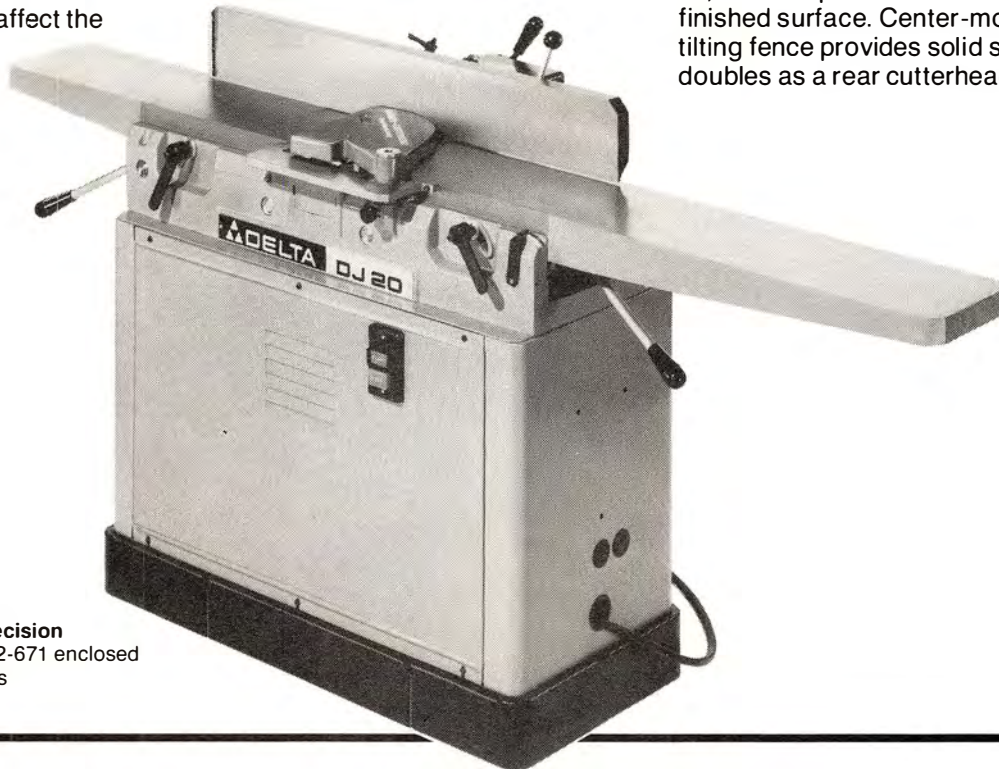
Delta DJ-20 8" Precision Jointer

Matchless design offers exceptional performance

In woodworking, the quality of the surface or edge cut can affect the precision of every other operation performed on that piece of wood. And in turn, directly affect the

quality of the finished product. And because the jointer is such a fundamental tool for furniture makers, cabinet shops, sash and door producers and shipyards—it *has* to be as durable as it is accurate. The Delta DJ-20 8" Precision Jointer is.

Quality features of the DJ-20 mean quality edge jointing and surfacing: Extra long infeed table for supporting long work. Unique parallelogram support system for easy table height adjustment; superior chipbreaking; and improved operator safety. Three knife modular cutterhead provides 15,600 cuts per minute for a smooth finished surface. Center-mounted tilting fence provides solid support; doubles as a rear cutterhead guard.



No. 37-350 DJ-20 8" Precision Jointer with accessory 52-671 enclosed steel stand and electricals

Catalog Listing



No. 37-350 DJ-20 8" Precision Jointer. Includes basic machine with 37-355 set of 3 HSS knives, cutterhead module, cutterhead guard, with wrenches, rabbeting ledge, tilting fence, push blocks and two pulleys. Less stand, motor, V-belt and switch.



Enclosed Steel Stand. Includes motor, V-belt and controls. Factory mounted and wired.

Catalog Number	Motor	Motor Control	Motor Enclosure	Hertz and Motor RPM	Motor Voltage	Shipping Wt./Lbs.
52-671	Single Phase, 1½ HP	Push Button Switch Only	TEFC	60—3450	115/230	131
52-672		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60—3450	115/230	144
52-673†	Three Phase, 1½ HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60—3450	230/460	139
52-674			TEFC	60—3450	200	142

NOTE: Single phase electricals will be supplied wired for 230V, unless 115V is specified. Dual voltage three phase electricals will be supplied wired for 230V unless 460V is specified.

†**No. 49-000 "JIC" Type Control Kit.** Specify this Catalog No. in addition to Three Phase Catalog No. 52-673, in order to obtain 8" Jointers with "JIC" type electricals, factory mounted and wired.

Machine Data

Cutting Capacity:

Width 8" (203.2 mm)
Depth 5/8" (15.8 mm)

Rabbeting Capacity 5/8" x 8 1/16"
(15.8 x 204.7 mm)

Cutterhead:

Speed 5500 RPM, 16,500 cuts per minute
Number of knives 3
Diameter 3 3/8" (85.7 mm)
Runs on sealed, lubricated-for-life ball bearings

Table:

Length 76 1/2" (1943.1 mm)
Length of rear table (outfeed) 32" (812.8 mm)
Length of front table (infeed) 42" (1066.8 mm)
Height from floor 32" (812.8 mm)

Fence:

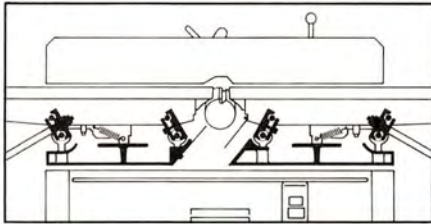
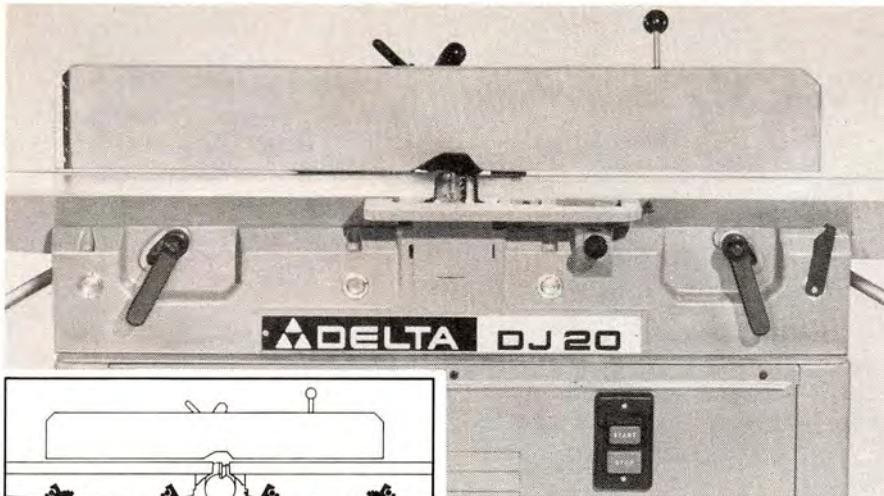
Size 5 x 36" (127.0 x 914.4 mm)
Tilts in and out 45°
Positive stops 90°, 45° in and out

Overall Dimensions:

Height 32" (812.8 mm)

Width 26" (660.4 mm)
Length 76" (1943.1 mm)
Net Weight 335 lbs. (124.9 Kg)

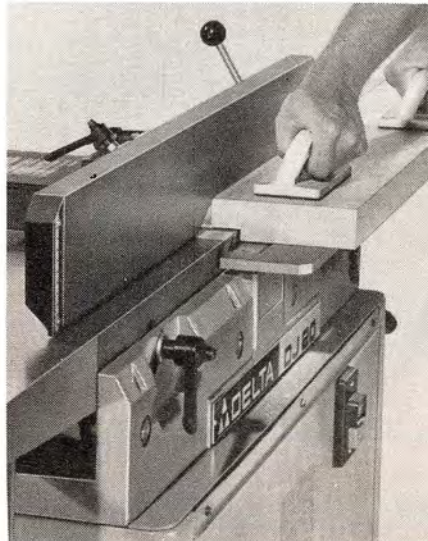
DJ-20 8" Precision Jointer Quality Features



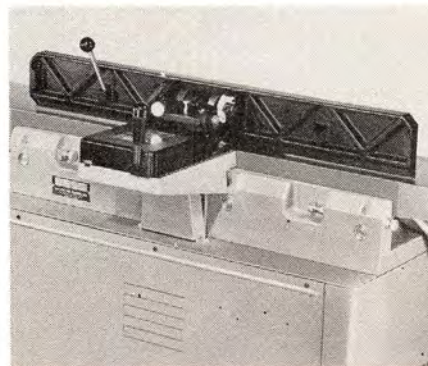
Unique parallelogram support system allows the table to move in the same arc as the cutterhead when raised or lowered. This uniform close clearance to the cutting blade acts as a more efficient chip breaker. Table supports (4 on each table) are torsion spring counterbalanced; adjustment is virtually effortless despite weight of cast iron tables. Aluminum lips bolted to the main tables are replaceable to compensate for wear.



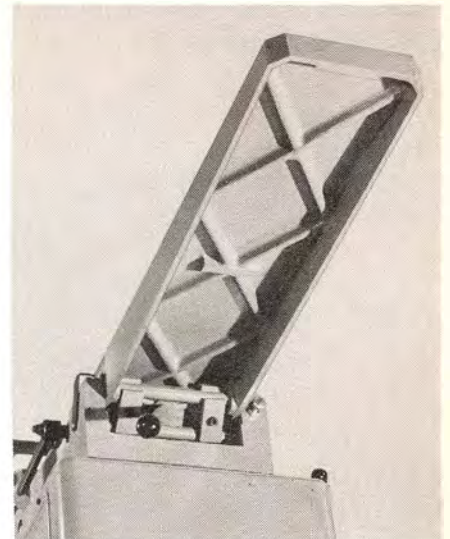
The DJ-20's 8" cutting capacity is ample for the majority of wood widths available. Cast iron base assures less vibration; cabinet stand completely encases motor and pulleys to protect from dust and shavings. Large panels allow easy access inside the stand if adjustment or repair is necessary. Built-in chip chute is designed for hook-up to a dust collection system if required.



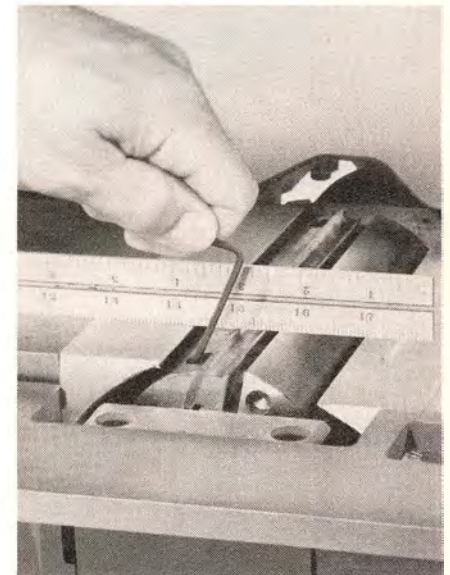
Big 4" x 12" rabbeting ledge supports work securely right at the cutterhead. Note how center mounted fence acts as a rear guard when fence is moved forward to table edge.



Specially designed cast iron fence is extra long for continued support throughout the cut. Fence is center-mounted and functions as a rear guard on narrow cuts. Positive stops 45° in and out for accurate chamfering and beveling—scale in back measures angle set. Handy stock scale mounted at the end of fence measures jointed stock prior to planing.



Extra long infeed table provides a full 42" of work support. Unique diamond ribbing insures that weight is best distributed throughout the length. Height adjustment lever and locking handle facilitate repetitive jointing. Handy scale measures depth of cut in English or Metric for quick reference.



Modular cutterhead provides a consistently clean cut. Three knives operate at 5500 rpm—16,500 cuts per minute for a smooth finish. Cutterhead knives project only .020" above cutterhead surface to help reduce kickback of stock. Jack screw arrangement allows easy replacement and adjustment of individual knives. In the event the entire cutterhead has to be removed, a new module can be fitted in place without production down-time.

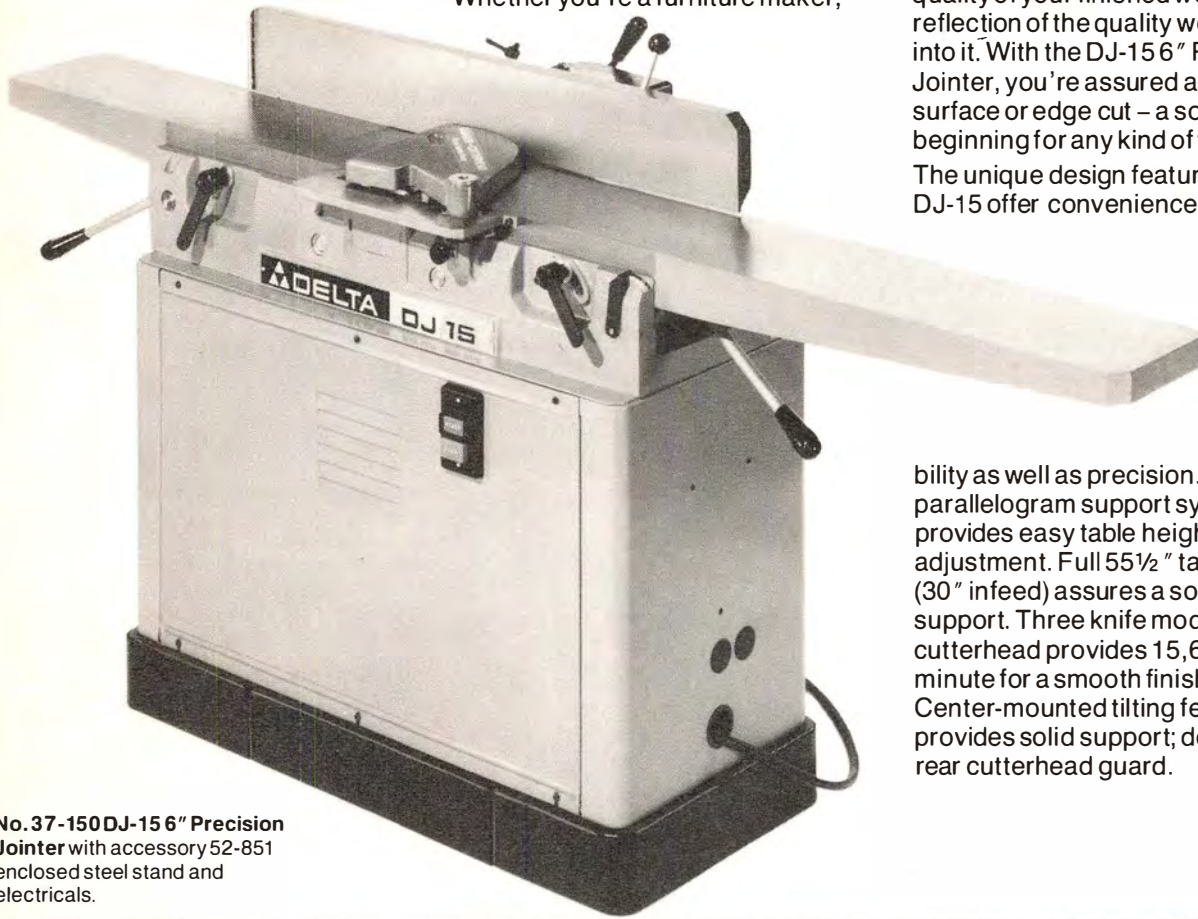
Delta DJ-15 6" Precision Jointer

Production Performance in Workshop Size

The jointer may be the single most important tool for the woodworker. Whether you're a furniture maker,

cabinet shop, sash and door producer or a home craftsman; the quality of your finished work is a reflection of the quality work you put into it. With the DJ-15 6" Precision Jointer, you're assured an accurate surface or edge cut – a solid beginning for any kind of work.

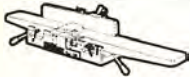
The unique design features of the DJ-15 offer convenience and dura-



bility as well as precision. The unique parallelogram support system provides easy table height adjustment. Full 55½" table length (30" infeed) assures a solid work support. Three knife modular cutterhead provides 15,600 cuts per minute for a smooth finished surface. Center-mounted tilting fence provides solid support; doubles as a rear cutterhead guard.

No. 37-150DJ-15 6" Precision Jointer with accessory 52-851 enclosed steel stand and electricals.

Catalog Listing



No. 37-150 DJ-15 6" Precision Jointer. Includes basic machine with 37-155 set of 3 HSS knives, cutterhead module, cutterhead guard, with wrenches, rabbeting ledge, tilting fence, push blocks, cutterhead and pulley. Less stand, motor, V-belt and switch.

Enclosed Steel Stand. Includes motor, motor pulley, V-belt and controls. Factory mounted and wired.



Catalog Number	Motor	Motor Control	Motor Enclosure	Hertz and Motor RPM	Motor Voltage	Shipping Wt./Lbs.
52-851	Single Phase, ¾ HP	Push Button Switch Only	TEFC	60-1725	115/230V	63
52-852		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230V	76
52-853	Three Phase ¾ HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460V	72
52-854			TEFC	60-1725	200V	74

NOTE: Single phase electricals will be supplied wired for 230V unless 115V is specified. Dual voltage three phase electricals will be supplied wired for 230V unless 460V is specified.

†No. 49-000 "JIC" Type Control Kit. Specify this Catalog No., in addition to three phase Catalog No. 52-853 in order to obtain 6" Jointers with "JIC" type electricals, factory mounted and wired.

Machine Data:

Capacities:

Cutting Capacity:

Width 6" (152.4 mm)
 Depth ½" (12.7 mm)
 Rabbeting Capacity ½" x 6"
 (12.7 x 152.4 mm)

Cutterhead:

Speed 5500 RPM, 16,500 Cuts per Minute

Number of Knives 3
 Diameter 3⅜" (85.7 mm)

Runs on sealed, lubricated-for-life ball bearings

Table:

Length 55½" (1409.7 mm)
 Length of rear table (outfeed) 24" (609.6 mm)
 Length of front table (infeed) 30" (762.0 mm)
 Height from floor 32" (812.8 mm)

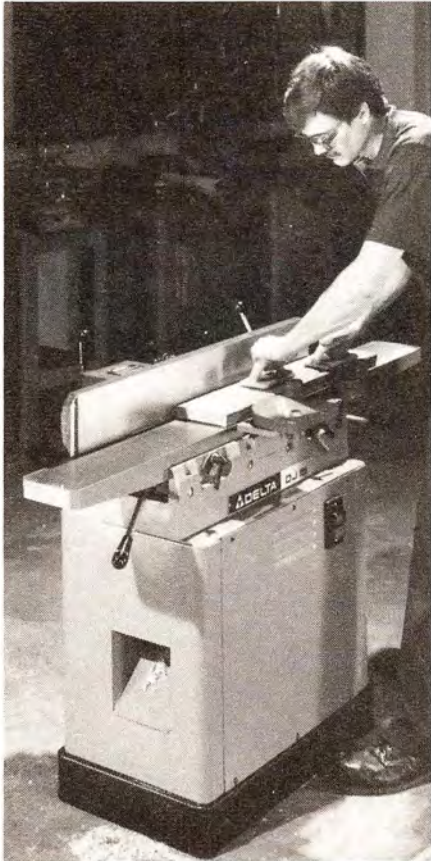
Fence:

Size 5 x 36" (127.0 x 914.4 mm)
 Tilts in and out 45°
 Positive stops 90°, 45° in and out

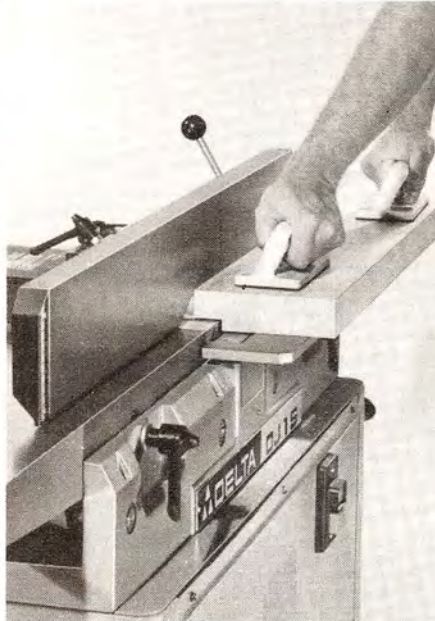
Overall Dimensions:

Height 32" (812.8 mm)
 Width 24" (609.6 mm)
 Length 56" (1409.7 mm)
 Net Weight 265 lbs. (98.05 Kg)

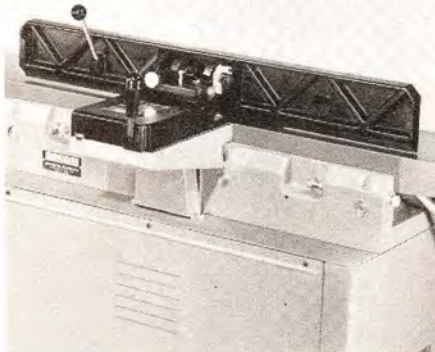
DJ-15 6" Precision Jointer Quality Features



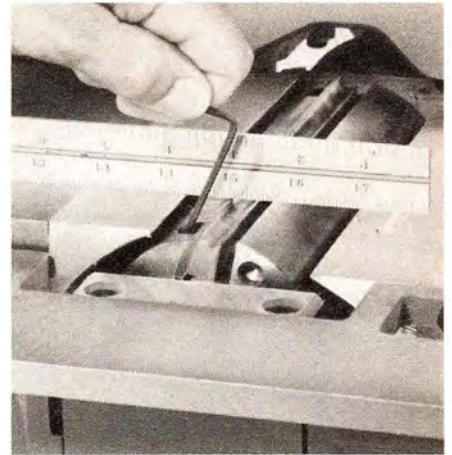
The DJ-15 6" cutting capacity is ample for the majority of wood widths available. Cast iron base assures less vibration; cabinet stand completely encases motor and pulleys to protect from dust and shavings. Large panels allow easy access inside the stand if adjustment or repair is necessary. Built-in chip chute is designed for hook up to a dust collection system if required.



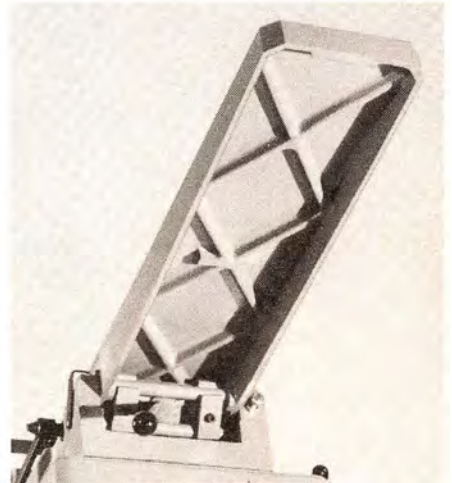
Built-in 4" x 8" rabbeting ledge supports work securely right at the cutterhead. Note how center-mounted fence acts as a rear guard when fence is moved forward towards table edge.



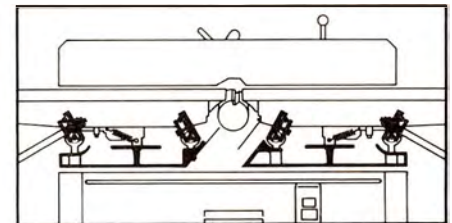
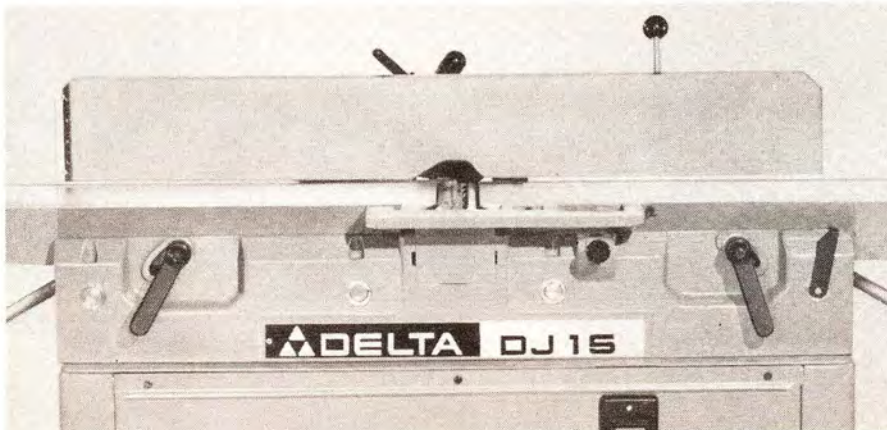
Extra long cast iron fence is designed to support work throughout the cut. The 5 x 36" fence is center-mounted and has positive stops 45° in and out for accuracy when chamfering and beveling. Scale in back measures angle set; handy stock scale mounted at the end of the fence measures jointed stock thickness.



Smooth finish cutting with efficient three knife modular cutterhead. Cutterhead operates at 5500 rpm – 16,500 cuts per minute for a ridge-free finish. Cutterhead knives project .020" above cutterhead surface to help reduce stock kickback. Jack screw arrangement makes replacement and adjustment of individual knives easy. If necessary, the cutterhead can be removed and a new module can be fitted in place without production down-time.



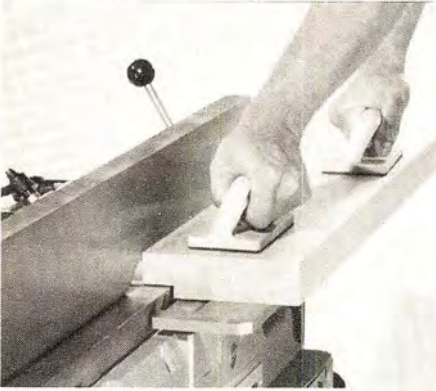
30" Long infeed table provides a sturdy work support. Unique diamond trunnioning distributes weight throughout the length. Height adjustment lever and locking handle facilitate repetitive jointing. Depth of Cut scale measures in English and Metric units for easy reference.



Unique parallelogram table support allows the table to move in the same arc as the cutterhead when raised or lowered for more efficient chip breaking during operation. Table supports (4 on each table) are torsion spring counterbalanced, adjustment is virtually effortless despite weight of cast iron tables. Aluminum lips bolted to the main tables are replaceable to compensate for wear.

Delta Jointer Accessories

For All Jointers



No. 37-108 Push Blocks, set of two. 1 lb.

No. 37-522 Wrench, double end, $\frac{5}{16}$ " , for cutterhead knife lock bar screws. $\frac{1}{4}$ lb.

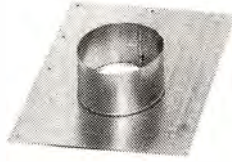
For 16 $\frac{1}{2}$ " Precision Jointer

No. 37-423 Cutterhead Knives, set of four, high-speed steel, casehardened to keep cutting edges sharp longer. 4 lbs.

For 8" and 6" Precision Jointers

No. 50-221 Connector to Dust Collector.

5" dia. outlet including mounting screws. Attaches directly to jointer stand covering factory installed chute.



For 8" Precision Jointer

No. 37-353 Cutterhead assembly, complete with bearings, housings and No. 37-355 set of 3 high-speed steel knives for No. 37-250 8" Jointer. 18 lbs.

No. 37-355 Cutterhead Knives, set of three, high-speed steel, for No. 37-350 8" Jointer. 2 lbs.

No. 52-670 Enclosed Steel Stand Only.

No. 50-268 Mobile Base. for DJ-20 8" Precision Jointer. 28 lbs.

For 6" Precision Jointers

No. 37-153 Cutterhead Assembly. Includes bearings, housings and No. 37-155 set of 3 high-speed steel knives for No. 37-150 6" Jointer. lbs.

No. 37-155 Cutterhead Knives. Set of three. High Speed steel for No. 37-150 Jointer. lbs.

No. 52-850 Enclosed Steel Stand Only. lbs.



No. 50-267 Mobile Base. For DJ-15 6" Precision Jointer. 25 lbs.

Delta Planers

Select from three high production machines!

RC-63N 24" x 9 $\frac{3}{8}$ " Planer—a new design concept offering great planing ease combined with the Newman "Quiet Cut" helical carbide head for super quiet operation, extended cutting life and high level performance. Standard 4-knife cutterhead model also available.

RC-51 20" x 9" Planer—unsurpassed in planing ease,

this unique surfacer provides modern features comparable to those offered with the RC-63N 24" model, except it's equipped with a standard 4-knife cutterhead.

RC-33 13" x 5.9" Planer—an innovative approach to efficient, low cost planing. Completely portable, it offers big planer features for high quality surfacing.



Delta 24" x 9³/₈" Planer

Offers the Newman QUIETCUT™ Head for unusually quiet operation combined with exclusive, new features that make it well suited for big capacity, high production planing!

Here's a planer (RC-63N) that's head and shoulders above any other planer in its size on the market!

It's super quiet. The Newman QUIETCUT helical carbide cutterhead greatly reduces noise at the source while providing smooth finishes on up to 500,000 linear feet of lumber before resharpening is required.

It's easy to operate. You get a power driven table for fast planing

set-ups... a double magnification thickness scale for fast, accurate depth settings... and a lumber gage for measuring stock thickness quickly prior to planing.

It's quality built. You get a 4.72" diameter cutterhead... spiral, serrated in-feed roll for positive feeding... adjustable, double bed rolls, located directly below feed rolls, for smoother feeding of stock... adjustable, double outfeed rolls for positive feeding after stock

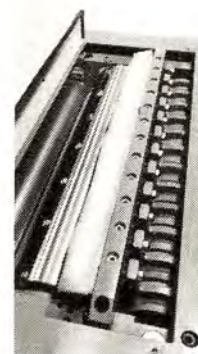
leaves in-feed roll... a large 24 x 35¹/₂" table for better work support... a bed roll height attachment to suit planing conditions... and many more superior features.

Now, if you're operating on a tight budget, you can get this same fine planer with a standard 4-knife cutterhead and 10 HP, 3 phase motor.

Stop in today and see the planers that give you more for your money!

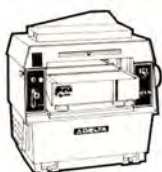


Model No. 22-602 (RC-63N)
with Newman "Quiet Cut"
Helical Carbide Cutterhead



Model No. 22-610 (RC-63D)
with Standard
4-knife Cutterhead

Catalog Listing



†No. 22-602 RC-63N 24" x 9³/₈" Planer.

Includes 15 HP, 200-220/440 V (wired 220 V), 60 Hertz, three phase motor with 24-volt LVC magnetic starter and automatic reset overload; Newman QUIETCUT helical carbide cutterhead; power driven table; spiral in-feed roll; adjustable, double bed rolls and outfeed rolls; sectional chipbreakers; dust chute and wrench.

†No. 22-610 RC-63D 24³/₄" x 9³/₈" Planer.

Same as above, except with 10 HP, 200-220/440 V (wired 220 V), 60 Hertz, three phase motor with 24-volt LVC magnetic starter and automatic reset overload; standard 4-knife cutterhead; set of four case hardened, high-speed steel knives, plus one extra set, and knife setting gauge.

†No. 49-000 "JIC" Type Control Kit. Specify this catalog number, in addition to three phase cat. no., in order to obtain machine with factory mounted and wired "JIC" type electricals.

Machine Data

Motor (RC-63N) 15 HP, 200-220/440 V
(wired 220 V), three phase
(RC-63D) 10 HP, 200-220/440 V
(wired 220 V), three phase

Controls 24-volt, low-voltage control

Capacities:

Max. width of stock:
Helical cutterhead 24" (609.6 mm)
4-knife cutterhead 24.8" (630 mm)
Max. thickness of stock 9.45" (240 mm)
Min. thickness of stock:
Helical cutterhead 1/8" (3.175 mm)
4-knife cutterhead 1/8" (3.175 mm)

Depth of Cut maximum .39" (10 mm)
Full width planing:
Helical cutterhead 1/8" (3.175mm)
4-knife cutterhead 1/8" (3.175mm)

Min. length of unbutted stock 11" (279.4 mm)

Feed Rates 25/46 ft./min.
(7.5/14 M/min.)

Cutterhead:

QUIETCUT helical carbide
Standard knife 4
Diameter 4.72" (120 mm)
Speed 5000 RPM

Feed Rolls:

Spiral in-feed 2.75" dia. (70 mm)
Out-feed (2) 2.75" dia. (70 mm), adjustable
Table bed rolls (2) adjustable

Table Size:

Helical head Model 22-602 24 x 35¹/₂"
(609.6 x 901.7 mm)
4-knife head Model 22-610 24³/₄ x 35¹/₂"
(628.7 x 1003.3 mm)

Table Rise and Fall

. power driven
Fine adjustment by handwheel and double magnification thickness scale with fine-line cursor

Chip Chute Opening 5⁷/₈" (149.2 mm)

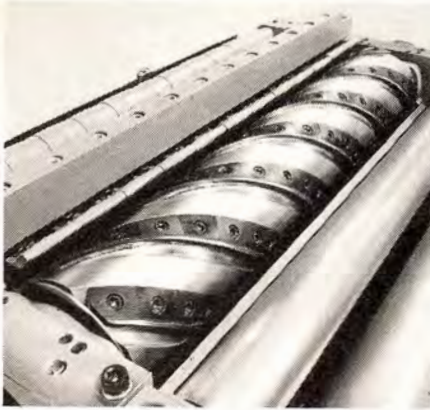
Dust Collection Capability see Page O2

Overall Dimensions:

Height 42¹/₈" (1070 mm)
Width 43" (1092.2 mm)
Depth 37¹/₂" (952.5 mm)

Net Weight 1675 lbs. (760 Kg.)

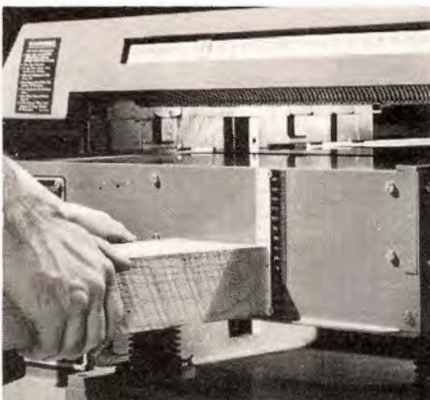
Delta Quality Features



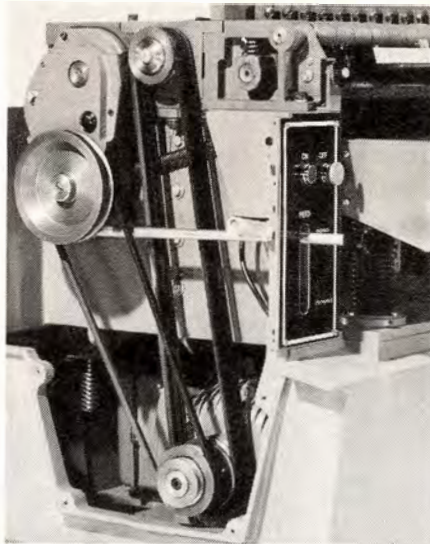
Specially Designed Cutterhead. Model 22-602 RC-63N incorporates the unique Newman QUIETCUT cutterhead that operates at 79 dbA idle and 82 dbA under load. Cutterhead contains four rows of helical carbide inserts that provide these user benefits: dramatic reduction of noise and vibration; extra long cutting life (up to 500,000 linear feet of lumber surfaced before resharpening); faster feed speeds; improved finish on hard-to-plane materials, and reduced maintenance costs.



Power Driven Table. Table raises and lowers simply and quickly by use of lever on front of machine. Fine adjustments are made using the convenient handwheel and unique double magnification thickness scale with fine-line cursor.



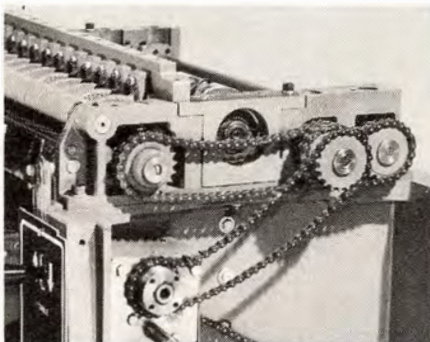
Lumber Gauge. Handy lumber gauge on front edge of table enables operator to measure stock thickness quickly prior to planing. Device also helps speed up production.



Efficient, Fully Accessible Drive System. Base located motor drives cutterhead through an efficient triple belt drive. Motor also drives the oil-lubricated, feed gear box. When machine is under heavy load and cutterhead slows down, feed rate decreases proportionately. To change feed speed, simply move V-belt from one pulley step to the other.



Chip Extraction. Standard equipment dust chute has a 5 7/8" opening for easy connection to a central dust collection system.



Feed Roll Drive. First outfeed roll is driven through feed gear box and supplies power to second outfeed roll, infeed roll and table rise and fall gear box. Heavy duty chains and sprockets are used throughout system.

Superior Modular Construction. Complete cutterhead and feed group are modularly mounted to the machine frame, including separate bearing blocks for cutterhead. This allows the entire cutterhead to be removed without disturbing feed system settings. System also includes twelve 2" wide sectional chipbreakers for full width, even pressure on wide, tapered stock. Full width anti-kickbacks provide added safety.

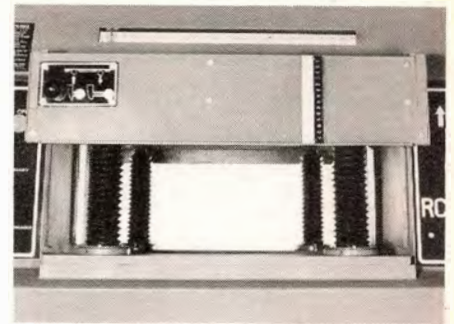
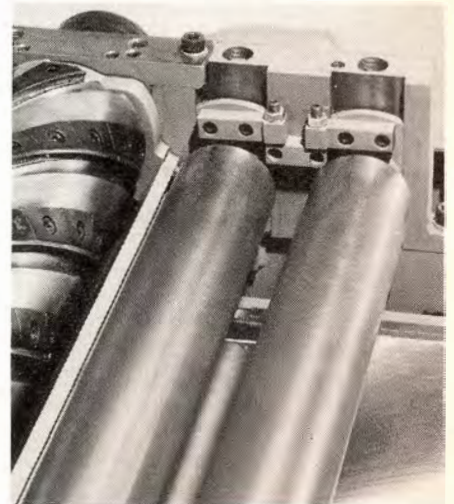
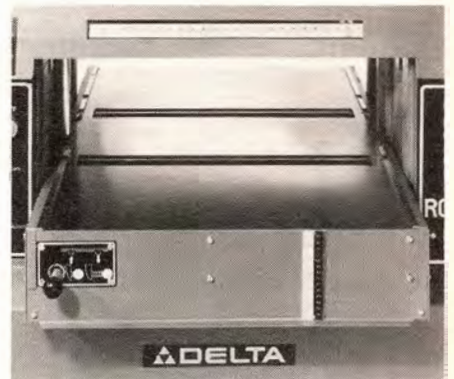


Table Support System. Spacious table raises and lowers on four precision, self-locking screws. Solid steel gibs keep table in perfect alignment regardless of thickness of cut. Dust-proof rubber boots protect screws from abrasive dust and moisture.



Rear Pressure Bar and Double Outfeed Rolls. Adjustable, spring-loaded rear pressure bar maintains even force on planed stock, practically eliminating vibration, and assuring a smooth finish on stock. Adjustable, twin outfeed rolls help maintain positive feeding under all conditions.



Spacious Table; Twin Bed Rolls. The large 24 x 35 1/2" precision ground table is equipped with two adjustable bed rolls located directly below feed rolls for smooth, positive feeding. Bed roll height can be quickly adjusted to any of six heights from the front of the machine to suit variations in planing conditions.

Delta RC-51 20" x 9" Planer

Offers the most advanced features in planer design for easier, faster, more efficient planing!

The Delta RC-51 Planer introduces new features that set it apart from other planers in its size and class.

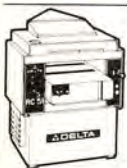
For example, you get a power operated table for fast planing setups—a double magnification thickness scale for fast, accurate depth settings—a lumber gage for measuring stock thickness quickly prior to planing—large 4.72" diameter, 4-knife cutterhead—spiral, serrated in-feed roll for positive

feeding—double bed rolls, located directly below feed rolls, for smoother feeding of stock—adjustable double outfeed rolls for positive feeding after stock leaves in-feed roll—big 20 x 32³/₄" table for better work support—bed roll height attachment to suit planing conditions—and much more.

Compare the unique RC-51 with any other planer in its size and you will agree that it has no equal!



Catalog Listing



† No. 22-460 20" x 9" Planer. Includes 7¹/₂ HP, 200-220/440 V (wired 220 V), 60 Hertz, three phase motor with 24-volt LVC magnetic starter and automatic reset overload; power driven table; 4-knife cutterhead; set of four knives plus one extra set; spiral in-feed roll; adjustable, double bed rolls and outfeed rolls; sectional chipbreakers; dust chute; knife setting gauge and wrench.

No. 22-461 20" x 9" Planer. Same as above, except with 5 HP, 230 V, 60 Hertz, single phase motor with 24-volt LVC magnetic starter and automatic reset overload.

† No. 49-000 "JIC" Type Control Kit. Specify this catalog number, in addition to three phase cat. no., in order to obtain machine with factory mounted and wired "JIC" type electricals.

Machine Data

Motors 7¹/₂ HP, 200-220/440 V (wired 220 V) three phase; 5 HP, 230 V, single phase

Controls 24 volt, low-voltage control

Capacities:

Max. width of stock 20" (510 mm)

Max. thickness of stock 9" (229 mm)

Min. thickness of stock 1/8" (3.175 mm)

Depth of Cut:

Full-width planing:

with 7¹/₂ HP,

three phase motor 5/16" (7.937 mm)

with 5 HP,

single phase motor 1/8" (3.175 mm)

Min. length of

unbutted stock 11" (280 mm)

Feed Rates:

Single phase 16/28 ft./min. (4.8/8.4 M/min.)

Three phase 25/46 ft./min. (7.5/14 M/min.)

Cutterhead:

Number of knives 4

Diameter 4.72" (120 mm)

Speed 5000 RPM; 20,000 cuts/min.

Feed Rolls:

Spiral in-feed 2.75" (70 mm)

Outfeed (two) 2.75" (70 mm), adjustable

Table bed rolls (two) adjustable

Table:

Size 20 x 32³/₄" (510 x 825 mm)

Rise and fall power driven

Fine adjustment by handwheel and double magnification thickness scale with fine-line cursor

Chip Chute Opening 5⁷/₈" (149.2 mm)

Dust Collection Capability see Page O2

Overall Dimensions:

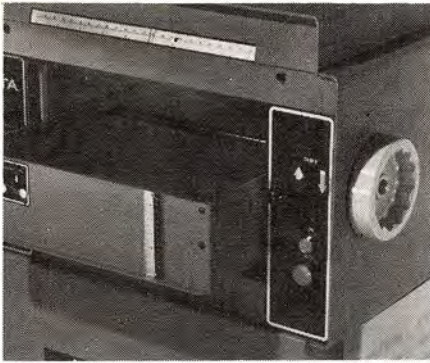
Height 42" (1066.8 mm)

Width 36" (914.4 mm)

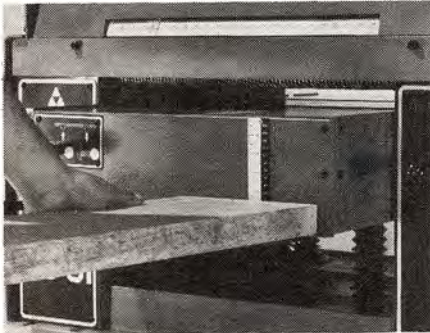
Depth 35" (889 mm)

Net Weight 1160 lbs. (526.2 Kg.)

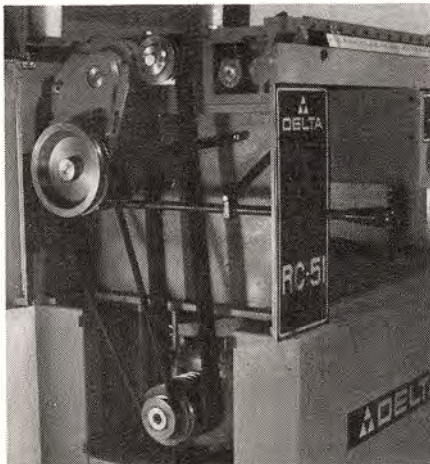
RC-51 Quality Features



Power Rise and Fall for Table. Table raises and lowers simply and quickly by use of lever on front of machine. Fine adjustments are made using the convenient handwheel and unique double magnification thickness scale with fine-line cursor.



Lumber Gauge. Handy lumber gauge on front edge of table enables operator to measure stock thickness quickly prior to planing. Device helps speed up production.



Efficient, Fully Accessible Drive System. Motor, located in base, drives cutterhead through an efficient triple belt drive. Motor also drives the oil-lubricated, feed gear box. When machine is under heavy load and cutterhead slows down, feed rate decreases proportionately. To change feed speed, simply move V-belt from one pulley step to the other.

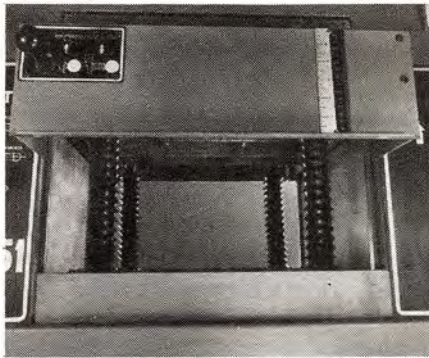
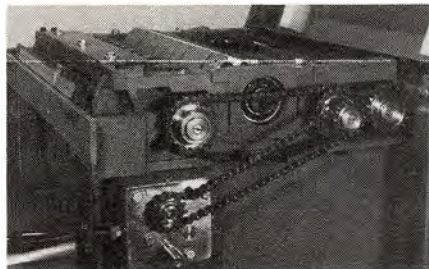
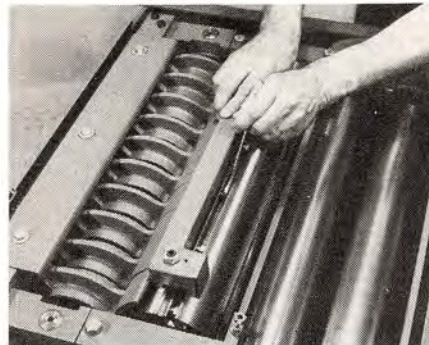


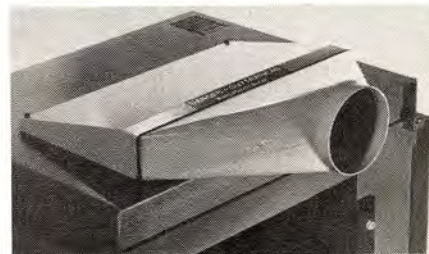
Table Support System. The large table raises and lowers on four precision, self-locking screws. Solid steel gibs keep table in perfect alignment regardless of thickness of cut. Dust-proof rubber boots protect screws from abrasive dust and moisture.



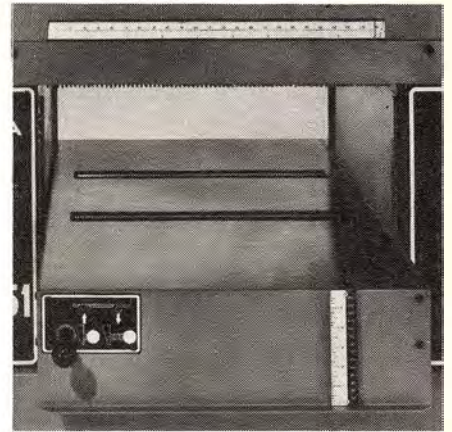
Feed Roll Drive. First outfeed roll is driven through feed gear box and supplies power to second outfeed roll, infeed roll and table rise and fall gear box. Heavy duty chains and sprockets are used throughout system.



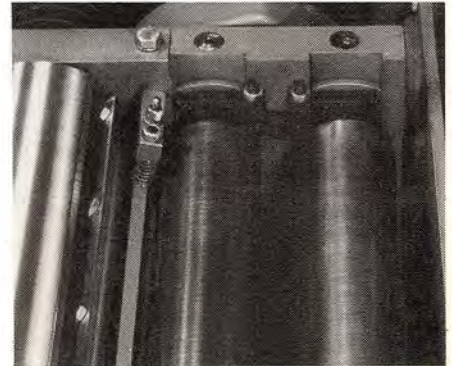
Fast, Accurate Knife Adjustment. Standard equipment knife setting gauge permits safe, accurate knife setting. Uniform setting assures greater cutting efficiency and longer performance life for knives.



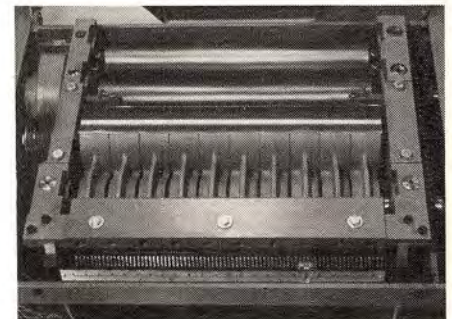
Chip Extraction. Standard equipment dust chute has 6" opening for shops with central dust collection system. If a collection system is not available, round adapter may be removed for free exhausting of chips.



Large Table; Twin Bed Rolls. The spacious 20 x 32 $\frac{3}{4}$ " precision ground table is equipped with two adjustable bed rolls located directly below feed rolls for smooth, positive stock feeding. Bed roll height can be quickly adjusted to any of five heights from front of machine to suit variations in planing conditions.



Rear Pressure Bar and Double Outfeed Rolls. Adjustable, spring-loaded rear pressure bar maintains even force on planed stock, practically eliminating vibration, and assuring a smooth finish on stock. Adjustable twin outfeed rolls help maintain positive feeding under all conditions.



Modular Construction. Entire cutterhead and feed group is modularly mounted to the machine frame, including separate bearing blocks for cutterhead. This allows the entire cutterhead to be removed without disturbing feed system settings. System also includes ten 2" wide sectional chipbreakers for full width, even pressure on wide, tapered stock. Full width anti-kickbacks provide added safety.

Delta RC-33 13" x 5.9" Planer

A high performance, big capacity planer at a surprisingly low price!

You will be amazed at the fine planing performance of the Delta RC-33 Planer. Although compact in design, it offers large capacity (13" x 5.9") in a small machine.

Ruggedly built with cast iron construction, the RC-33 offers these

superior features: Complete portability for easy movement from one job site to another • large 19 $\frac{3}{4}$ " x 13" table for better stock support • easy depth-of-cut adjustment for fast stock settings • triple V-belt drive, providing full power transmission to the cutterhead • spiral, serrated in-feed roll for positive feeding • twin bed rolls, located directly below feed rolls, to assure most efficient stock processing • handy feed

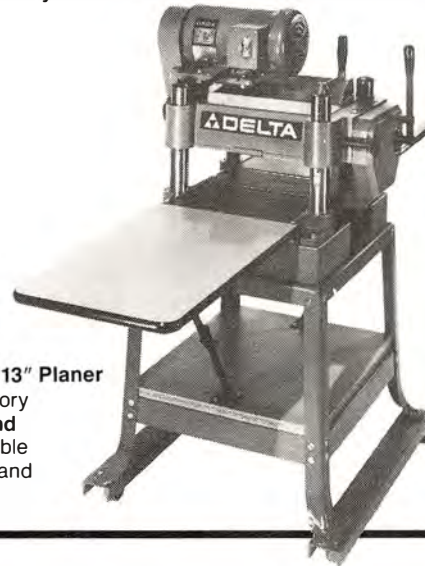
roll control for instantaneous disengagement of feed • oil-bath lubricated feed/gear box for long life performance.

When you combine the many fine features of the RC-33 Planer with its unusually low price, you can see why it is an excellent unit for wood-working shops, the building trades, schools and home workshops.

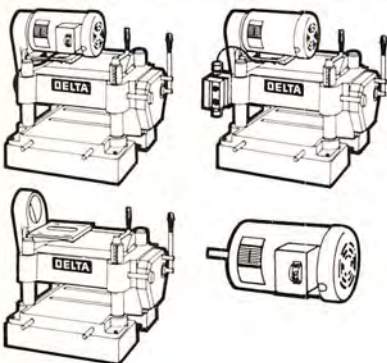
No. 22-651 13" Planer



No. 22-651 13" Planer with accessory 50-651 stand including table extensions and wheels



Catalog Listing



No. 22-651 13" x 5.9" Planer Complete. Includes 2 HP, 230 V, 60 Hertz, single phase motor with cord, switch and overload, completely wired, ready to mount on motor plate with supplied hardware; 3-knife cutterhead; set of three knives; spiral in-feed roll; adjustable bed rolls; knife setting gauge; set of three V-belts and motor pulley ($\frac{7}{8}$ " bore). Shipped in two cartons.

No. 22-655 13" x 5.9" Planer Complete. Same as 22-651 except includes 3 HP 200-220/440 V (wired 220 V), 60 Hertz, three phase motor; motor pulley; manual motor starter with no-voltage and overload protection, wired and ready to run.

No. 22-650 13" x 5.9" Planer. Includes 3-knife cutterhead; set of three knives; spiral in-feed roll; adjustable bed rolls; knife setting gauge; set of three V-belts; motor pulley ($\frac{7}{8}$ " bore), and mounting plate with hardware to mount No. 62-176 motor.

No. 62-175 Motor, 2 HP, 230 V, single phase, ball bearing, capacitor start-capacitor run, 3450 RPM, TEFC, NEMA 145T frame, with 10-foot cord with 230 V grounding type plug, on-off switch mounted in motor junction box and manual re-set thermal overload protection. 52 lbs.

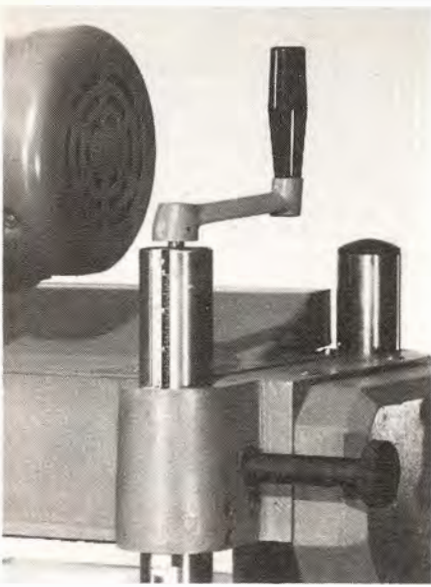
Machine Data

Motor	2 HP, 230 V, single phase; 3 HP, 200-220/440 V, three phase
Capacity:	
Width of stock	maximum 13" (330.2 mm)
Thickness of stock	maximum 5.9" (150 mm) minimum $\frac{1}{8}$ " (3.175 mm)
Depth of cut	maximum $\frac{3}{16}$ " (4.763 mm)
Full width planing w/2 HP 1 \emptyset Motor	maximum $\frac{1}{8}$ " (3.175 mm)
Full width planing w/3 HP 3 \emptyset Motor	maximum $\frac{3}{16}$ " (4.763 mm)
Length of unbutted stock	minimum 10" (203.2 mm)
Feed Rate	15 $\frac{1}{2}$ FPM (4.7 m/min)
Cutterhead:	
Number of knives	3
Diameter	2.95" (75 mm)
Speed	4500 RPM; 13,500 cuts per minute
Feed Rolls (positioned directly above bed rolls):	
Spiral in-feed	Solid
Out-feed	Solid
Diameter	2" (50.8 mm)

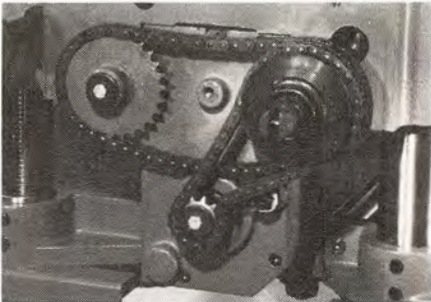
Table:	
Size	19 $\frac{3}{4}$ " x 13" (501.7 x 330.2 mm)
Bed rolls (two)	adjustable
Dust Collection Capability	see Page O2
Overall Dimensions:	
Depth	27" (685.8 mm)
Width	27" (685.8 mm)
Height	26" (660.4 mm)
Shipping Weight:	
No. 22-650	260 lbs. (117.9 Kg.)
No. 22-651	295 lbs. (133.8 Kg.)
No. 22-655	295 lbs. (133.8 Kg.)
Shipping Carton Size:	
Width	26 $\frac{1}{2}$ " (673.1 mm)
Depth	21 $\frac{1}{2}$ " (546.1 mm)
Height	23 $\frac{1}{2}$ " (596.9 mm)

For RC-33 Planer accessories, see Page H8.

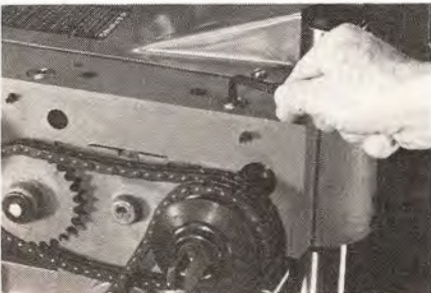
RC-33 Quality Features



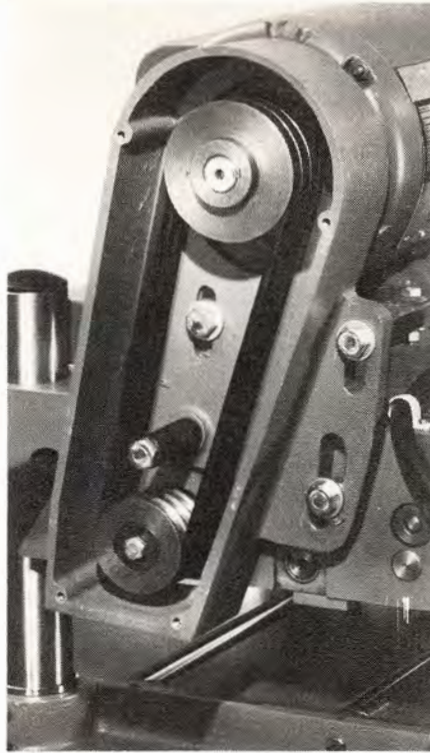
Depth-of-cut Adjustment. Cutterhead and feed rolls raise and lower on four precision ground steel columns. Elevating handle turns four screws, one inside each column, for smooth, effortless depth-of-cut adjustment. Each revolution of handwheel equals .155". Combination inch/metric scale is conveniently located for easy reading.



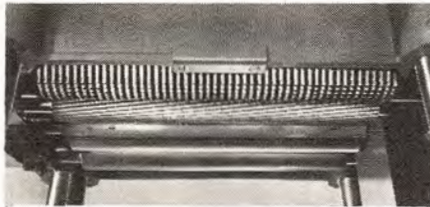
Gear Box and Feed System. Simple, rugged oil-bath gear box takes power for feed rolls direct from cutterhead. Feed slows automatically when machine is under heavy load for best planing under all conditions. Rugged chain and sprocket drive assures positive feeding and long life. Gear box has an engagement lever for instantaneous engagement or disengagement of feed rolls for added safety.



Feed Pressure Adjustment. Feed roll pressure can be quickly and easily adjusted from the top of the machine to suit varying planing conditions.



Cutterhead Drive. Efficient cutterhead drive is by means of three V-belts operating on solid steel pulleys. Triple drive assures full power transmission from motor to cutterhead.



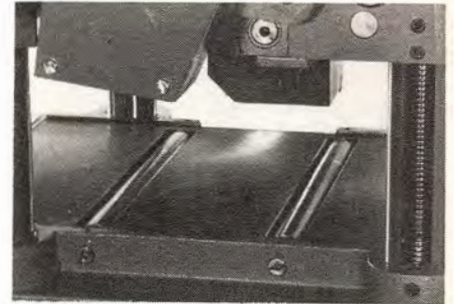
Cutterhead and Feed Group. Includes full width set of anti-kickback fingers for safety; a spiral, serrated, in-feed roll for positive feeding; steel chipbreaker for smooth planing; large diameter (2.9") 3-knife cutterhead; and a closely-coupled solid steel outfeed roll for superior planing performance.



Precision Knife Adjustment. Knife setting gauge, furnished as standard equipment, permits safe and accurate knife setting. Uniform knife setting assures greater cutting efficiency and longer performance life between sharpenings.



Unique Design. Because planer table remains stationary while cutterhead and feed group are adjusted for thickness of material, table extensions can be used for easier planing of long stock. Large 19 $\frac{3}{4}$ x 13" table is heavily constructed and scientifically ribbed to prevent distortion.



Bed Rolls. Located directly below feed rolls, for most efficient feeding, bed rolls are factory set for best performance under most planing conditions. Bed rolls can be easily adjusted to suit special planing situations.



Portability. Planer's compact size and convenient carrying handles enable unit to be easily moved from one job site to another, keeping jobs right on schedule.

Delta Planer Accessories

For 24³/₄" x 9³/₈" Planer

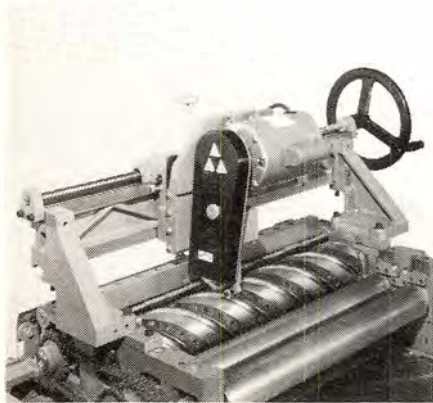
No. 22-606 Cutterhead Knives, set of four, high-speed steel, case hardened to keep cutting edges sharp longer. 6 lbs.

No. 22-604 Dust Chute for old style No. 22-600 24" Planer, with 5⁷/₈" O.D. (49.2 mm) outlet. 10 lbs.

For 20" x 9" Planer

No. 22-466 Cutterhead Knives, set of four, high-speed steel, case hardened to keep cutting edges sharp longer. 5 lbs.

Grinding and Jointing Attachments and Mounting Kit



Allow you to grind new bevel edges on your Delta 20" or 24" Planer Knives without removing the cutterhead from the machine.

Cat. No. 22-841 Straight Knife Cutterhead Grinding and Jointing Attachment. Includes 62-840 Motor, Grinding Wheel, Jointing Stone, Belt and Counterweight and Indexing Assembly and Wrenches. Requires No. 22-840 Mounting Kit for Attachment to Planer.

Cat. No. 22-842 Helical Carbide Cutterhead Grinding and Jointing Attachment. Includes 62-840 Motor, Diamond Grinding Wheel, Diamond Jointing Stone, Belt and Follower Assembly and Wrenches. Requires No. 22-840 Mounting Kit for Attachment to Planer.

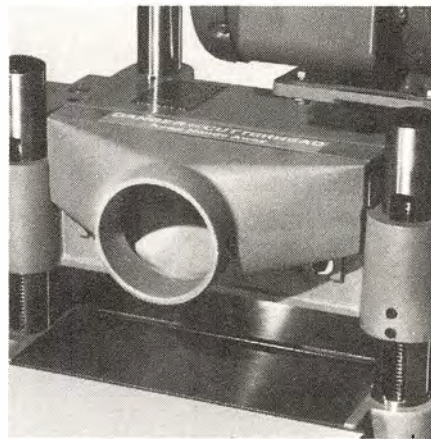
Cat. No. 22-840 Delta Grinding and Jointing Attachment Mounting Kit for Delta 20" and 24" Planers.

Required to mount 22-841 or 22-842 Straight or Helical Cutterhead Grinding and Jointing Attachment to planers.

For 13" x 5.9" Planer

No. 22-656 Cutterhead Knives, set of three, high-speed steel, case hardened to keep cutting edges sharp longer. 3 lbs.

For Hook-Up of Planers to Wood Dust Collectors



No. 22-658 Shaving Hood. 4⁷/₈" dia. outlet. Mounts to rear of 13" Planer for easy connection to dust collection system. 2¹/₂ lbs.

No. 50-231 13" Planer Connector. 5" dia. outlet. Attaches to 22-658 Shaving Hood on 13" Planer.

No. 50-218 Reducer. 6" to 5". Clamping lug on 6" end. For hook-up of RC-51 and RC-63 Planers to 50-181 or 50-182 Wood Dust Collector in a quick-disconnect installation.

No. 50-219 Increaser. 5" to 6". Clamping lug on 5" end. For hook-up of 13" Planer, equipped with 50-231 Connector, to 50-181 or 50-182 Wood Dust Collectors.

For adapters and quick-disconnects, see Dust Collectors Pages O1 to O3.



No. 50-651 New Steel Stand. Includes 50-315 stand with two 24" x 14¹/₂" folding type tables with high pressure laminate coating and two industrial quality wheels for portability. 92 lbs.



No. 50-315 Steel Stand. Recommended for floor model set-up. Requires drilling four holes. 47 lbs.

No. 49-364 Retractable Casters for 50-315 Stand. 13 lbs.

No. 50-265 Mobile Base. For 13" Planer on 50-315 Stand. 31 lbs.

Delta Wood Shapers and Routers

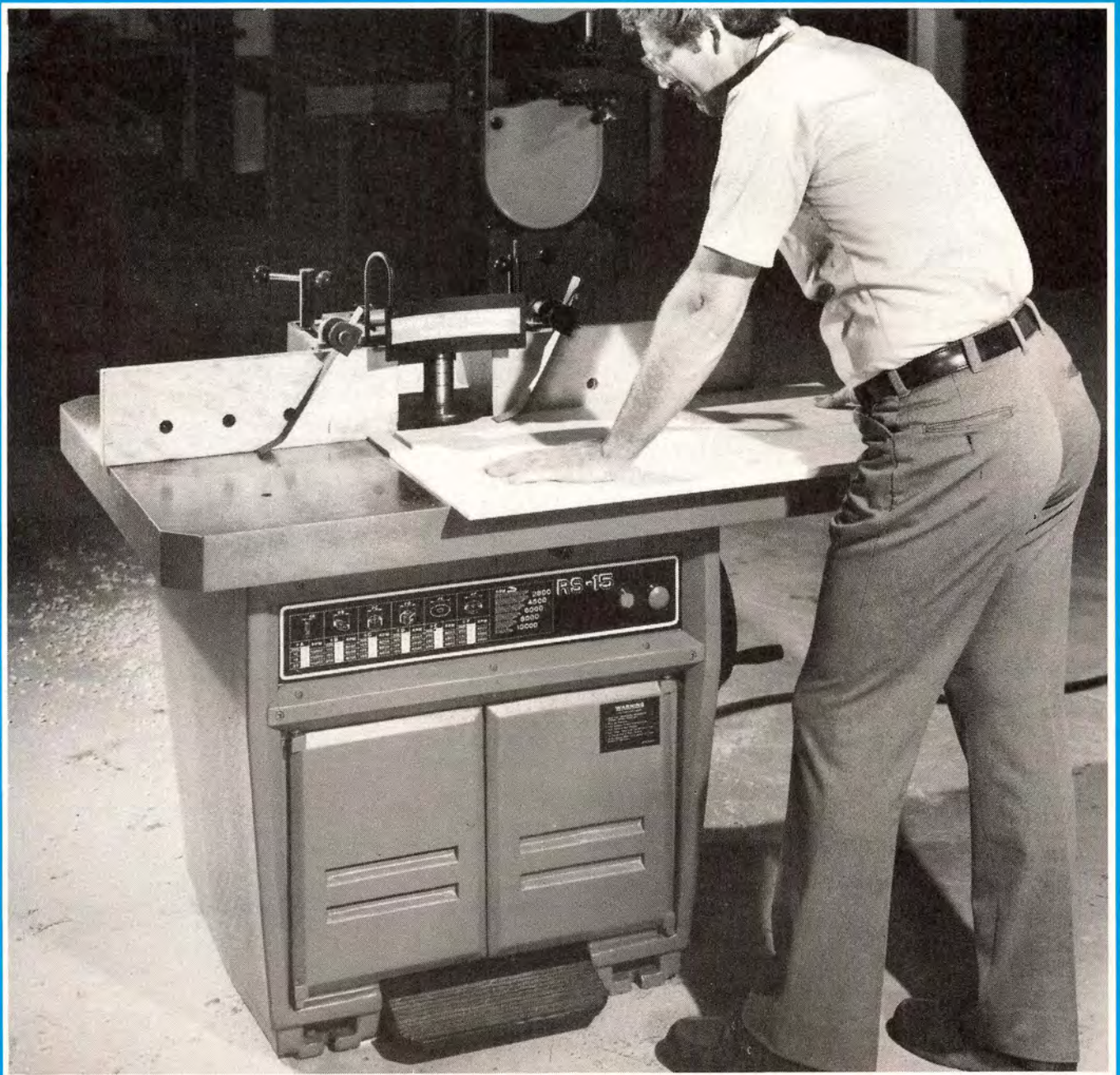
Select the machine that best suits your needs!

5-Speed Production Shaper. For fast, accurate straight-line production or intricate hand shaping using six spindles from $\frac{3}{4}$ " to $1\frac{1}{2}$ ".

2-Speed Heavy Duty Shaper. A high-speed production unit that handles five spindle sizes— $\frac{1}{2}$ " to 1"—for unmatched versatility.

Light Duty Shaper. A ruggedly built, low cost shaper that offers unlimited possibilities for making mouldings, on straight, internal and external, curved and irregular surfaces.

RU-50 Overarm Router. Makes accurate internal and external routing a simple operation. Economically priced.



Delta RS-15 5-Speed Wood Shaper

For fast, accurate straight-line production or intricate hand shaping!

Packed with dozens of fine features, the heavy-duty RS-15 is designed for efficient, vibration-free performance in a variety of woodworking operations. Exceptionally versatile, it will handle six interchangeable spindles ranging from 3/4" to 1 1/2". Here's why the RS-15 Shaper is such a great value: selection of five spindle speeds for greater versatility; 5 or 7 1/2 HP motor to handle heavy-duty operations; extra large 35 x 43" T-slot table for greater work support; independently adjustable fence guard assembly to accommodate various cutter sizes; precision ground, balanced spindle that runs on high-speed ball bearings for smooth operation; foot brake that stops spindle fast; convenient controls; and much more!



Catalog Listing



† **No. 43-780 5-Speed Heavy-Duty Wood Shaper.** Includes 7 1/2 HP, 200-220/440 V (wired 220 V), 60 Hertz, three phase motor with magnetic starter and automatic reset overload; mechanical spindle brake; spindle lock; 3/4" and 1 1/4" spindles; four table insert rings; adjustable fence guard assembly, miter gage and tool set.

No. 43-781 5-Speed Heavy-Duty Wood Shaper. Same as above, except with 5HP, 230 V. 60 Hertz, single phase motor with magnetic starter and automatic reset overload.

† **No. 49-000 "JIC" Type Control Kit.** Specify this Catalog Number, in order to obtain machine with factory mounted and wired "JIC" type electricals.

Machine Data

Motor (TEFC) 5 HP, 230 V, 60 Hertz, single phase
7 1/2 HP, 200-220/440 V (wired 220 V), 60 Hertz, 3 phase

Spindle (No. 5 Morse Taper):
Diameters (furnished) 3/4" and 1 1/4" (19.05 mm and 31.75 mm)
Diameters (accessories) 7/8", 1", 1 1/8" and 1 1/2"
(22.2, 25.4, 28.5 and 38.1 mm)

Length (3/4" spindle) 4 3/4" (120.65 mm)
(1 1/4" spindle) 6 3/4" (171.45 mm)

Travel 7.68" (195 mm)
Maximum height above table 5 1/4" (133.35 mm)
Rotation counter-clockwise

Capacity (under nut):
3/4" spindle 3 1/2" (88.9 mm)
7/8" spindle 4" (101.6 mm)
1" spindle 4 3/4" (120.6 mm)
1 1/8" spindle 5 3/8" (136.5 mm)
1 1/4" spindle 4 3/4" (120.6 mm)
1 1/2" spindle 5 3/8" (136.5 mm)

Spindle Speeds: Five: 2800, 4500, 6000, 8000 and 10,000 RPM
Brake for Spindle mechanical

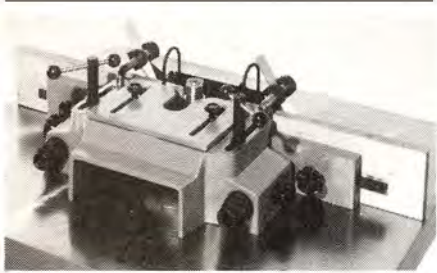
Table:
Size 35.43 x 43.3" (900 x 1100 mm)
Height from floor 33 1/2" (850.9 mm)
Insert opening diameters, O.D. 6 5/8", 10 5/8", 13 3/4" and 16 1/2"
(168.3, 269.9, 349.25 and 419.1 mm)

Fence:
Plate Size 5 3/4 x 18 3/4" (146.05 x 476.25 mm)
Size, overall Min. 37 1/2" (952.5 mm)
Max. 48 3/4" (1238.25 mm)

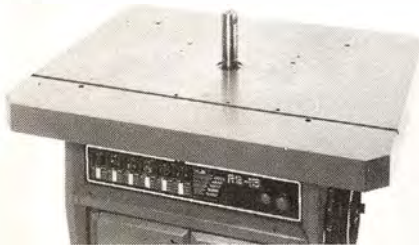
Dust Collection Capability see Page O2

Overall Dimensions:
Depth 35.43" (900 mm)
Width 43.3" (1100 mm)
Height 43 1/2" (1104.9 mm)
Net Weight 1135 Lbs. (51 5 Kg.)

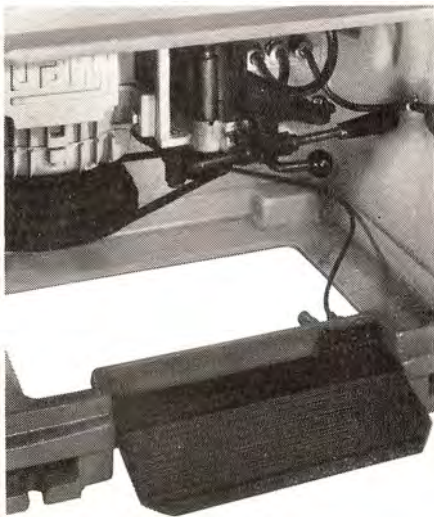
Delta RS-15 5-Speed Wood Shaper Quality Features



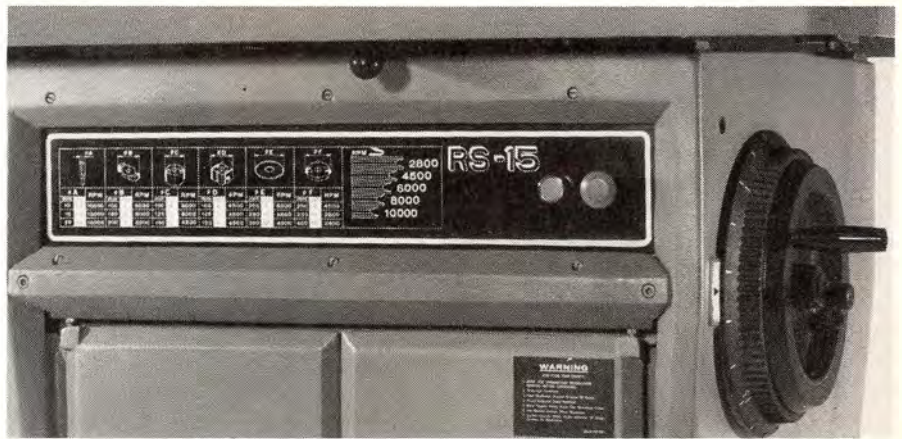
Fence Guard Assembly. Assembly is equipped with top and front adjusting guards and two spring hold-downs. Both fence halves are independently adjustable for dept-of-cut settings, also adjust longitudinally for correct fence opening to accommodate various cutter sizes. Large T-handles firmly lock fence to table. Entire assembly can be easily removed for hand shaping of curved or irregular work. Cutter guard fits firmly in top of fence permitting operator good visibility and maximum safety. Large, rectangular chip chute facilitates easy hook-up to dust collection system.



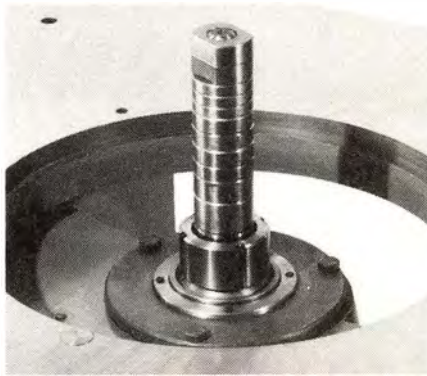
Spacious Table. Precision ground, heavily ribbed T-slot table is 35 x 43" in size, providing ample support for shaping extra large stock.



Mechanical Brake and Spindle Lock. When brake pedal is depressed, motor is turned off automatically and a cable activates a cone-type brake inside spindle pulley for fast braking action. Spindle lock prevents movement when changing spindles or cutters.



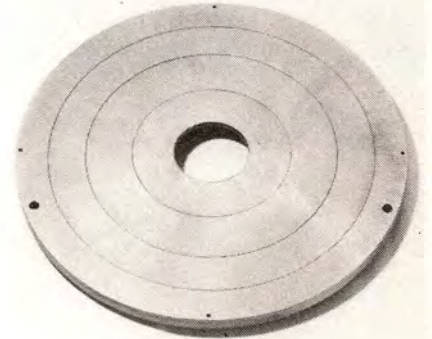
Convenient Controls. Located in an up-front panel are the on-off controls together with a speed reference chart for various shaper operations. Adjacent, large diameter handwheel facilitates easy spindle height adjustments while lock knob maintains setting. One turn of hand wheel moves spindle .080" (2 mm). Micrometer collar, with lock knob, surrounds handwheel and is used for minute settings. Each increment on collar equals .004" (.1 mm)



Big Capacities. Standard $\frac{3}{4}$ " and $1\frac{1}{4}$ " diameter spindle extensions provide a travel of 7.68". Capacity under the nut for the $\frac{3}{4}$ " spindle is $3\frac{1}{2}$ ", $4\frac{3}{4}$ " for $1\frac{1}{4}$ " spindle, and $5\frac{5}{8}$ " for $1\frac{1}{2}$ " spindle for wide cutters. Spindle extensions include spacing collars and double spindle nuts.



Accurate, Versatile Spindle Design. Precision ground, dynamically balanced spindle runs on pre-lubricated ball bearings for smooth operation. Various size spindle extensions mount to spindle with No. 5 M.T. for accurate alignment, and are mounted or removed by using a locking nut with differential threads and special wrench supplied with machine.



Removable Insert Rings. The RS-15 has four precision ground, removable insert rings in $6\frac{5}{8}$ ", $10\frac{5}{8}$ ", $13\frac{3}{4}$ " and $16\frac{1}{2}$ " diameters to accommodate various cutter sizes. Outer ring has pre-drilled holes to accommodate adjustable fence, which can be rotated to any position on top of table and can be locked in position from the front of the machine.



Fast, Easy Speed Changes. Single V-belt drive transmits power from motor pulley to spindle pulley. The RS-15 offers five speed selections—2800, 4500, 6000, 8000 and 10,000 RPM—to suit any type of shaping operation. Dual-purpose lever releases belt tension for fast speed changes, also is adjustable for correct belt tension.

Delta Two-Speed Heavy Duty Wood Shaper

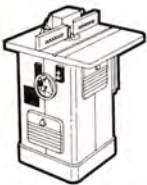
A high-speed production unit that handles five spindle sizes— $\frac{1}{2}$ " to 1"

Because of the wide range of shaper cutters it will accommodate, there's practically no limit to the variety of cuts this Delta 2-Speed Shaper will produce. It will handle $\frac{1}{2}$ ", $\frac{3}{4}$ " and 1" standard spindles, a $\frac{1}{2}$ " stub spindle, plus an extra long $\frac{3}{4}$ " spindle with $4\frac{3}{8}$ " capacity under the nut. And, because it has two spindle speeds—7,000 and 10,000 RPM—it will handle practically any shaping operation, including panel raising. Because of its great shaping versatility, this popular machine is well suited for cabinet shops, furniture factories, specialty shops, school shops, sash and door companies and similar installations.



No. 43-370 Heavy Duty Wood Shaper
shown with table extension and electricals.

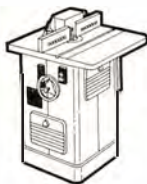
Catalog Listing



No. 43-370 2-Speed Wood Shaper with the 43-349 8 x 27" table extension, 43-830 deluxe fence guard assembly, 43-937 $\frac{3}{4}$ " spindle, 43-347 $\frac{1}{2}$ " spindle, 43-550 $4\frac{1}{2}$ " Safe Guard II™ spindle guard with 43-555 bushing to also fit $\frac{1}{2}$ " spindle, table inserts, starting pin, 2-speed spindle pulley and wrenches. Without motor, controls, motor pulley, V-belt or cutters.



No. 43-349 Table Extension, solid type, 27" x 8". Increases 28 x 27" table with one extension to 36 x 27" when second extension is added. 25 lbs.



Complete 2-speed Heavy Duty Wood Shaper, with motor and controls factory mounted and wired, ready to run.

Catalog Number w/Interchangeable $\frac{1}{2}$ " & $\frac{3}{4}$ " Spindles	Catalog Number w/1" Solid Spindle & Spacing Collars	Motor	Motor Control	Motor Enclosure	Hertz and Motor RPM	Motor Voltage	Shipping Wt., Lbs.
43-375	43-384	Single Phase 3 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-3450	230	424
†43-372	†43-385	Three Phase 3 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-3450	230/460	409
		Three Phase 5 HP		TEFC		230/460	413
43-373	43-386	Three Phase 3 Horsepower	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-3450	200	409
		Three Phase 5 HP		TEFC		200	413

All motors supplied with integral reversing switch.

NOTE: Single phase electricals will be supplied for 230 V. Three phase electricals will be supplied for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only.

† **No. 49-000 "JIC" Type Control Kit.** Specify this Catalog No., in addition to Three Phase Catalog No. 43-372 or 43-385, in order to obtain Heavy Duty Wood Shaper with "JIC" type electricals, factory mounted and wired.



No. 43-370 and all electrical kits are CSA certified in Canada.

Machine Data

Spindle:

Diameters furnished 1/2" (12.7 mm) and 3/4" (19.05 mm) or 1" (25.4 mm) only

Diameters

(accessory equipment) 1" (25.4 mm)
3/4" (19.05 mm) extra long and 1/2" (12.7 mm) stub

Capacity (under nut):

1" (25.4 mm) spindle 4" (101.6 mm)
3/4" (19.05 mm) spindle 3 1/4" (82.5 mm)
3/4" (19.05 mm) spindle (extra long) 4 3/8" (111.1 mm)

1/2" (12.7 mm) spindle 2 1/2" (63.5 mm)

Travel 3" (76.2 mm)

Speed 7,000 and 10,000 RPM

Table:

Size 20 x 27" (508 x 685.8 mm)

Size (with extra extension) 28 x 27" (711.2 x 685.8 mm)

Size (with two extra extensions) 36 x 27" (914.4 x 685.8 mm)

Height 34" (863.6 mm)

Insert opening diameters 6 3/4" (171.4 mm), 3 1/2" (88.9 mm), 3" (76.2 mm) and 1 3/8" (34.9 mm)

Face Size (each side) 3 3/4" x 12 3/8" x 1 5/16" (95.2 x 314.3 x 23.8 mm)

Dust Collection Capability see Page O2

Overall Dimensions:

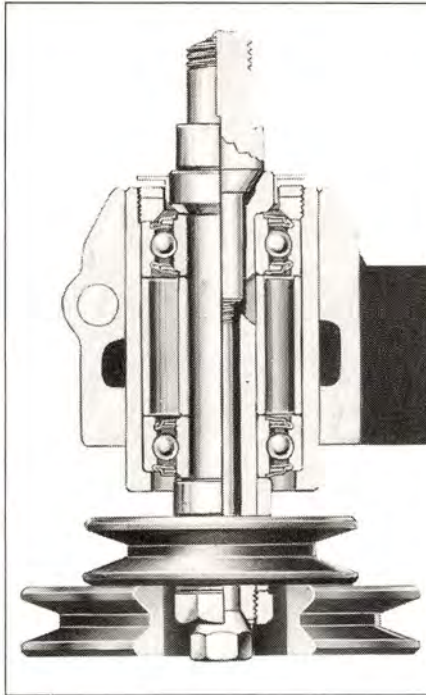
Width 20" (508 mm)

Width (with two extra extensions) 36" (914.4 mm)

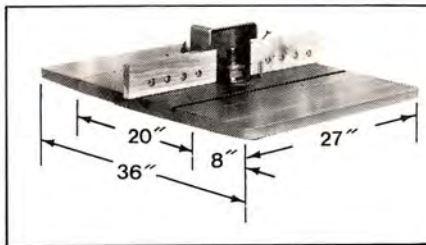
Depth 27" (685.8 mm);

Height 37 3/4" (958.8 mm)

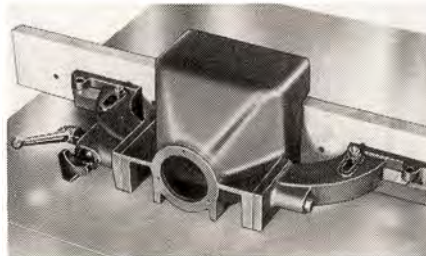
Motor accommodates NEMA frame motors 56 and 145T



Rugged Spindle Assembly. Short, rigid drive spindle and closely set lubricated-for-life ball bearings—pre-loaded to prevent distortion at high speeds—assure accurate, chatter-free shaping.



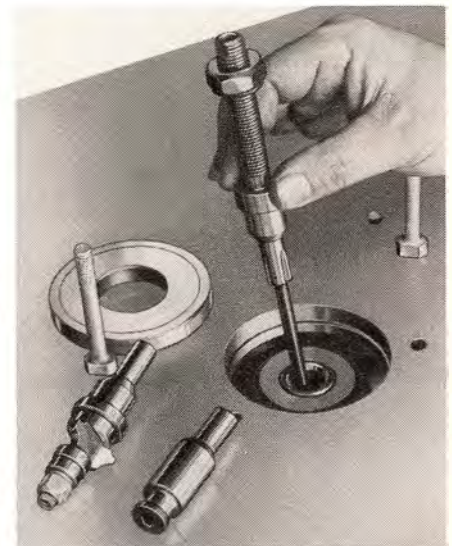
Massive Table. Measures a full 20 x 27". Can be increased to 36 x 27" by adding two extension wings. Furnishes ample support for shaping large work. Has precision ground face, ribbed under-table construction to prevent warping and springing. Milled 3/8 x 3/4" groove permits use of a variety of accessory work-holding devices, such as miter gage, tenoner and sliding shaper jig.



Fully Adjustable Fence. Both fence halves are independently adjustable for precise depth-of-cut settings using the same convenient control knob and locking lever. Fence halves measure a full 3 3/4 x 12 3/8" and adjust end-wise so that fence opening can be varied in direct relation to the cutter size for safer operation. Entire fence assembly can be easily removed for free-hand shaping of curved or irregular work.



Conveniently Grouped Controls. The spindle adjusting hand wheel, spindle lock, height adjustment scale and starting switch all are grouped at the front of the machine within easy reach of the operator from his normal working position.



Interchangeable Spindles. 1/2", 3/4" and 1" standard spindles; a 1/2" stub spindle for cope cutters and an extra-long 3/4" spindle with 4 3/8" capacity under the nut, are readily interchangeable to permit use of a wide variety of shaper cutters. Table opening size can be varied, as needed, by removing special table insert rings.



Heavy Duty Wood Shaper shown with No. 44-830 Fence Guard Assembly.

Delta Two-Speed Heavy Duty Wood Shaper Features



Unitized Drive Mechanism. The spindle, housing, motor, raising and lowering mechanism are a single self-contained unit, securely assembled to the under side of the table for absolute 90° spindle-to-table alignment.

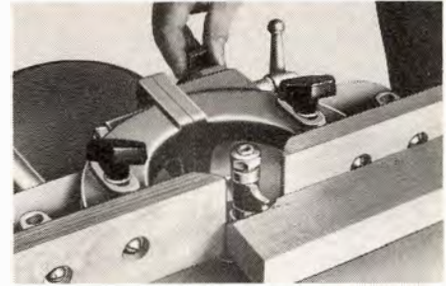
Delta Light Duty Wood Shaper

A versatile performer that's built to deliver intricate, high quality mouldings on a repetitive basis!

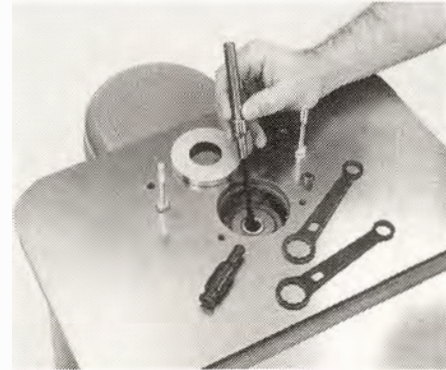
You'll be surprised at the amount of quality work you can turn out with this Delta Light Duty Wood Shaper. It offers unlimited possibilities for making mouldings on straight, internal and external, curved and irregular surfaces. Shaper cutters with 1/2" hole can be used, also cope cutters using the 1/2" stub spindle. This wide versatility, together with such quality features as the precision ground 15 1/2" x 18" table, lubricated-for-life ball bearing spindle, fully adjustable fence, and more, make this Delta shaper an unequalled value!



Light Duty Wood Shaper Features



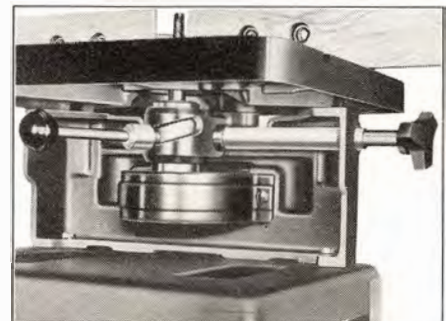
Single Knob Control insures accurate fence adjustments—both halves are independently adjustable for greater safety and convenience.



Interchangeable Spindles, including a stub spindle for cope cuts on windows and doors and a router bit spindle for routing, permit use of a wide variety of cutters.



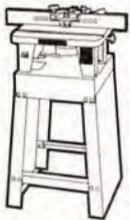
Guard Completely Covers Motor, belt and pulley for greater operator safety. Spring holddown, ring guard and other safety items available as accessories.



Convenient Spindle Control Lever under front of table facilitates height settings. Special lock handle securely holds desired setting.

Short, Rigid Spindle (*not shown*) with closely spaced bearings, eliminates whip, assures smooth, clean work. Requires no lubrication for life of bearings.

Catalog Listing



No. 43-120 Wood Shaper with Stand.

Includes basic machine, 50-513. stand, fence, 1/2" spindle, table insert, starting pin, spindle pulley, 43-805 motor pulley (5/8" bore), 49-105 V-belt, belt and pulley guard, ring guard and wrenches. 122 lbs.

No. 43-122 Wood Shaper with Stand and 1 HP Motor.

Includes 43-120 Shaper with stand plus 62-103 1 HP single phase motor with integral reversing switch, on-off toggle switch and 115 V power cord with grounding type plug. Electricals completely wired. 163 lbs.

Machine Data

Spindle:

Diameter furnished 1/2" (12.7 mm)
 Diameter (accessory) 1/2" (12.7 mm) stub
 Router (accessory) for mounting 1/4"
 shank router bits
 Travel 7/8" (22.2 mm)

Capacity (under nut):

1/2" (12.7 mm) spindle 2 3/8" (60.3 mm)

Spindle Speed

(with 3450 RPM motor) 9000 RPM

Table:

Size 15 1/2" x 18" (393.7 x 457.2 mm)
 Slot 3/8" x 3/4" (9.5 x 19.05 mm)
 Height 34" (863.6 mm)
 Insert opening diameters 3" (76.2 mm)
 and 1 3/8" (34.9 mm)

Fence Size

(each side) 2 3/4" x 11 3/8" (69.8 x 288.9 mm)

Motor Plate

. accommodates NEMA 56
 frame motor

Overall Dimensions:

Width 25 1/2" (647.7 mm)
 Depth 25 1/2" (647.7 mm)
 Height:
 Bench model 10 1/2" (266.7 mm)
 On stand 37" (939.8 mm)



No. 43-122 is CSA certified in Canada.

Delta Wood Shaper Spindle Guard

**Safe Guard II™ ...
the safer way to shape!
For use on Delta RS-15,
Heavy Duty and Light
Duty Wood Shapers**

Now there is a better way to do your shaping. That's by using Safe Guard II. It's the only guard that works right on the shaper spindle to make these benefits possible:

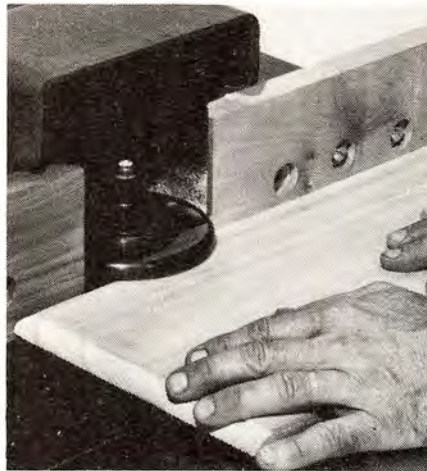
Hand Protection. Helps keep operator's hands away from revolving cutterhead.

Eye Protection. Helps protect operator's eyes from flying chips.

Excellent Vision. Allows operator to see work as he shapes it, making it ideal for working stock freehand.



Shaping the inside edge of a frame. By mounting Safe Guard II directly to spindle, close to top edge of cutter, greater convenience and freedom of movement are possible. Unlike ring type guards, Safe Guard II does not have to be moved away from cutter to allow operator to lower frames over the spindle. This saves valuable production time, and keeps operator's hands away from cutter.



Stock is positioned directly under the transparent guard, providing for greater operator safety.



Note how fence has been modified to firmly support the workpiece as near to the cutter as possible. By mounting transparent guard close to cutter and fence halves, there is minimum exposure of cutterhead.

Check these additional benefits

- Available in 4½" and 6½" diameters.
- Standard guards fit shapers with ¾" and 1¼" diameter spindles. Bushing and washer kits are also available to easily adapt guards to shapers with ½", 7/8", 1" and 1½" diameter spindles.
- Tough, transparent, orange-colored LEXAN® disc has a smooth, rounded edge for increased safety.
- High-speed, pre-lubricated ball bearing mounts directly on shaper spindle.
- Can be safely used on shapers with spindle speeds up to 12,000 RPM.
- Safe Guard II, as recommended, meets the requirements as set forth by the Occupational Safety and Health Administration's standards, Part 1910:213(M), Sub-Part 1, dated October 18, 1972.

Recommended use

1. Safe Guard II diameter should be at least 1" larger than maximum cutting circle of shaper cutter.
2. Adjust to height not to exceed ½" above material.
3. Recommended for vertical spindle shapers only.
4. For additional protection, always wear safety glasses.

Catalog Listing

Safe Guard II Shaper Spindle Guards

Catalog Number	Diameter	I.D. of Bearing (Supplied with Washers)	Max. Cutting Dia. of Shaper Cutter	Wt., Oz.
43-440	4½"	¾"	3½"	8
43-441	6½"	¾"	5½"	14
43-442	6½"	1¼"	5½"	15

Bushings and Washers

Catalog Number	I.D. of Bushing (Supplied with Washers)	Use with Safe Guard II Spindle Guard	Dia. of Spindle of Vertical Shaper	Wt., Oz.
43-555	½"	43-440 or 43-441	½"	1
43-556	7/8"	43-442	7/8"	2
43-557	1"	43-442	1"	1½
43-558	1½"	43-442	1½"	1

LEXAN® is a Registered Trademark of the General Electric Company
SAFE GUARD II is a Registered Trademark of Federal Safety Products, Inc.

Delta RU-50 Router

Offers exceptional versatility combined with precision accuracy and high level performance!

You will be amazed at all the operations you can handle with Delta's RU-50 Router. For example, you can do routing, moulding, beading, grooving, shaping, rabbeting and dozens of other jobs. And with

the wide range of supplied accessories, you can do everything from intricate pin routing to high volume production.

These high quality features make it all possible: preferred flat belt drive powered by a heavy duty, single or three phase motor—spindle speeds of 9,000 and 18,000 RPM—rigid single unit, C-frame construction—big 21" throat capacity—six-position turret depth stop—pneumatically controlled

spindle raising and lowering—large 17⁵/₈ x 23⁵/₈" table—and much more.

The RU-50's great versatility, together with its many fine features, make it well suited for furniture manufacturers, cabinet and pattern shops, display houses, novelty and specialty shops, and in schools and universities.

Let us show you this great router value in action today!



Catalog Listing



No. 43-561 Overarm Router. Includes basic machine with steel legs, 2 HP, 230 V, 60 Hertz, single phase motor with cord, switch and overload, completely wired, ready to mount on motor plate with supplied hardware; 1/4" and 1/2" collets; guide pins and tool set.

†**No. 43-565 Overarm Router.** Same as 43-561 except includes 3 HP, 200-220/440 V (wired 220 V), 60 Hertz, three phase motor; motor pulley; manual motor starter with no-voltage and overload protection, wired and ready to run.

†**No. 49-000 "JIC" Type Control Kit.** Specify this catalog number, in addition to three phase catalog number, in order to obtain machine with factory mounted and wired "JIC" type electricals.

Machine Data

Motor 2 HP, 230 V, single phase
 3 HP, 200-220/440 V, three phase

Spindle:

Speed 9,000 and 18,000 RPM
 Head Travel 2³/₄" (70 mm)
 Collets 1/4", 1/2", (6.35, 12.7mm)
 Air pressure required90 PSI

Table (has dovetail ways with adjustable gib and lock feature)

Size 17⁵/₈" x 23⁵/₈" (447.7 x 600 mm)
 Rise 4¹/₂" (114.3 mm)
 Tilt45° to front
 Height from floor, max.42" (1066.8 mm)
 min.37¹/₂" (952.5 mm)

Clearance between table

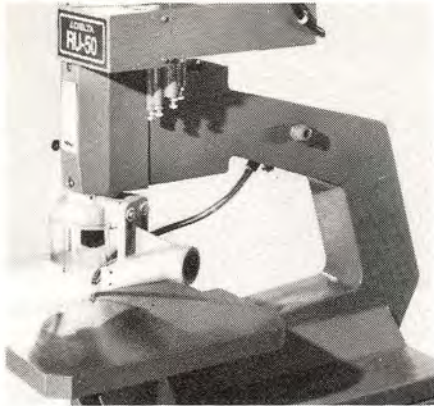
and spindle, max.81¹/₈" (206.4 mm)
 min.7¹/₈" (22.2 mm)

Retractable Guide Pins (travel) 0 to 1/2" (12.7 mm)
 Six Diameters 1/8", 3/16", 1/4", 5/16", 3/8", 1/2"
 (3.17, 4.76, 6.35, 7.94, 9.53, 12.7 mm)

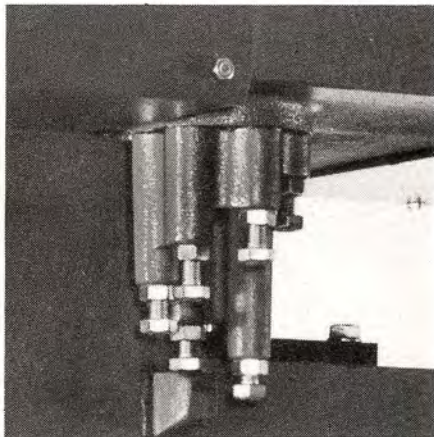
Overall Dimensions:

Height 73¹/₄" (1860.5 mm)
 Width 23⁵/₈" (600 mm)
 Depth 39¹/₂" (1003.3 mm)
Net Weight 445 lbs. (201.8 Kg.)

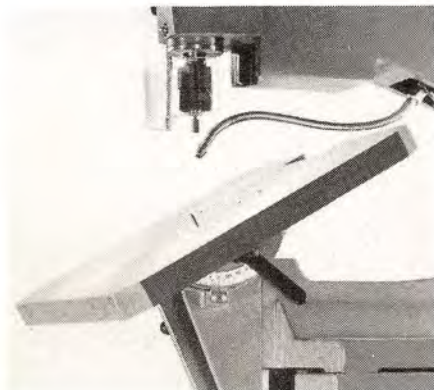
RU-50 Quality Features



Big Throat Capacity/C-Frame Construction. Distance between spindle and column measures 21", ample capacity for handling big jobs. Entire unit, including overarm, support column and base, is cast iron constructed as one solid unit, providing rigidity at the spindle for accurate routing. Standard equipment safety shield helps protect operator while dust chute removes saw dust and chips from work, speeding up production.



Turret Depth Stops. Revolving turret depth stop is adjustable to six spindle positions to accommodate various depths in a single workpiece. A simple turn of the turret positions the spindle to the preselected depth setting level, eliminating excessive downtime.



Large, Tilting Table. Spacious, precision ground table measures 17 $\frac{5}{8}$ x 23 $\frac{5}{8}$ ". Table may be tilted up to 45° for angle routing, using the large tilt scale.

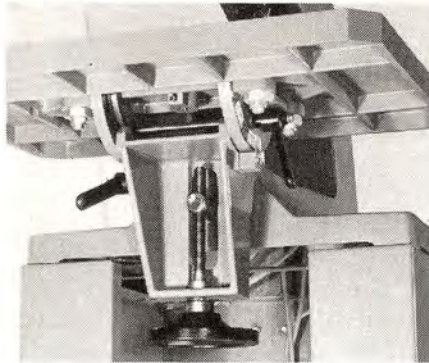
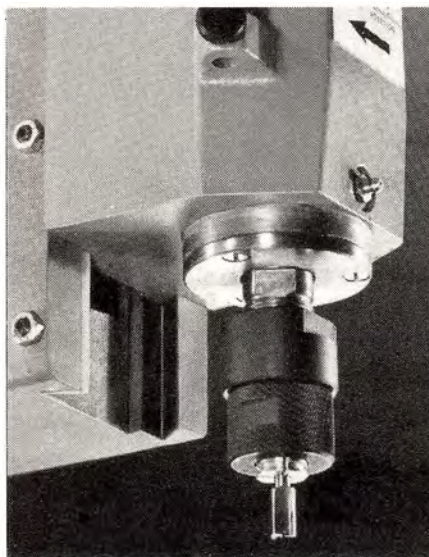
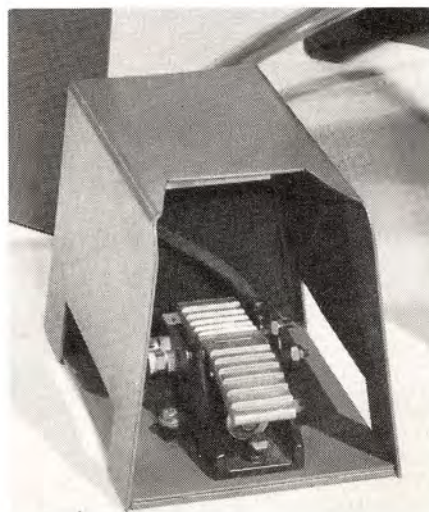


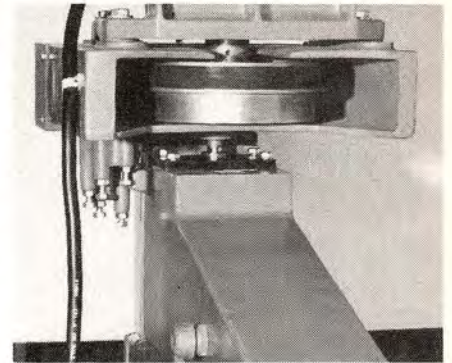
Table Suspension and Positioning. Large, heavily ribbed 17 $\frac{5}{8}$ x 23 $\frac{5}{8}$ " table and double trunnions are supported by a massive casting. Table may be raised or lowered up to 4 $\frac{1}{2}$ " using the giant handwheel.



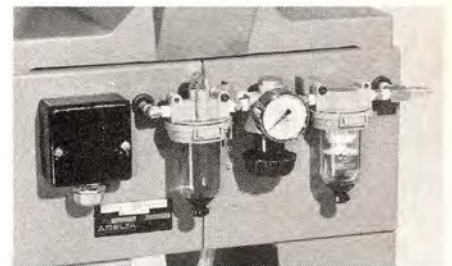
Adjustable Head Travel. Routing head travels up to 2 $\frac{3}{4}$ " on dovetailed ways. Adjustable gib assures continued accuracy. Spindle bearings can be easily lubricated using readily accessible grease fittings.



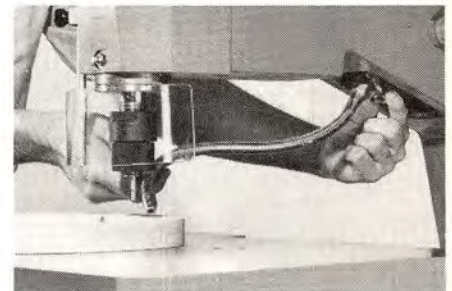
Pneumatic Spindle Height Control. Spindle movement is readily controlled by operator, using a pneumatic cylinder with shielded foot control for safer operation.



Spindle Drive. Spindle is driven by a dependable flat belt, together with a two-step pulley offering speeds of 9,000 and 18,000 RPM. This proven system utilizes full power from the heavy duty 2 and 3 HP motors.



Filter-Lubricator System. Router is supplied with a high quality, industrial type filter-lubricator. Easily adjusted regulator permits correct oil flow to spindle raising components.



Chip Blower. Unit is fully adjustable for both position and air volume. Especially useful when routing deep grooves, it removes chips continually, resulting in higher quality work.



Guide Pins, Collets and Tools. The RU-50's standard equipment includes six guide pin diameters (1/8", 3/16", 1/4", 5/16", 3/8" and 1/2"); collets for 1/4" and 1/2" shank bits; spindle wrenches; Allen wrenches for guide pins, collet removal tool, and special spindle nut to adapt Leitz-type chuck to router.

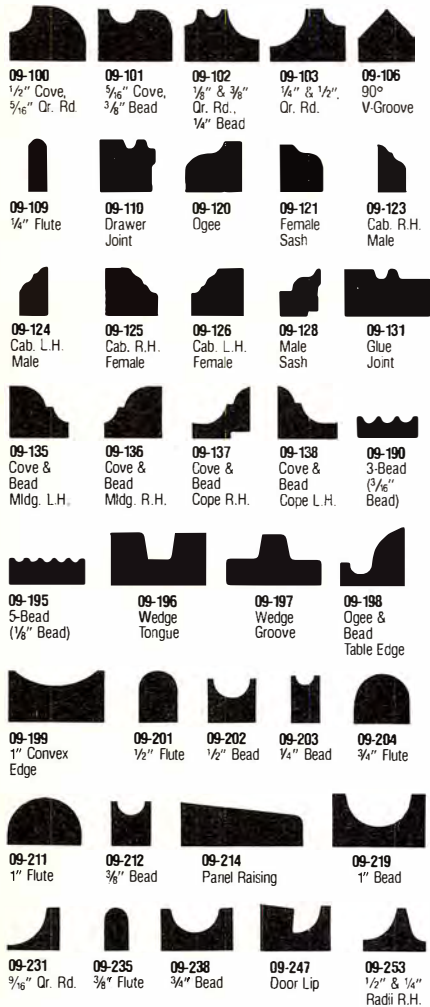
Delta Shaper and Router Accessories

For Heavy and Light Duty Wood Shapers and RU-50 Router

No. 43-354 Shaper Fence. Especially suited for use with small cutters. With two $3\frac{3}{4} \times 12\frac{3}{8}$ " fence halves that adjust independently for precise depth-of-cut settings, also adjust end-wise so that fence opening can be varied in direct relation to cutter size. 12 lbs.

High-Speed Steel 3-Lip Shaper Cutters

All have $\frac{1}{2}$ " spindle hole. Involute relief design permits honing of the face without changing the shape. Cutters 09-128 and 09-137 are counterbored to fit Stub Spindle No. 43-345. Cutters are shown $\frac{3}{8}$ " size. $\frac{1}{2}$ lb. each.



Straight Cutters— $\frac{1}{2}$ " Hole

Number	Thickness	Dia.	Number	Thickness	Dia.
09-107	$\frac{1}{2}$ "	$1\frac{7}{8}$ "	09-108	$\frac{1}{4}$ "	$1\frac{15}{16}$ "
09-130	$\frac{3}{4}$ "		09-127	$\frac{3}{8}$ "	
09-104	1"	$2\frac{1}{32}$ "	09-139	$\frac{1}{4}$ "	$2\frac{1}{32}$ "
09-105	$1\frac{1}{2}$ "		09-129	$\frac{3}{8}$ "	

Collar Sets— $\frac{1}{2}$ " Hole

No. 43-210 Set of 7 Collars. $\frac{1}{2}$ " hole, $\frac{3}{4}$ " to $1\frac{1}{8}$ " diameter. Nos. 09-142, 09-143, 09-144, 09-145, 09-171, 09-172, 09-173. $\frac{1}{2}$ lb.

No. 43-211 Set of 6 Collars. $\frac{1}{2}$ " hole, $1\frac{3}{16}$ " to $1\frac{1}{2}$ " diameter. Nos. 09-141, 09-146, 09-147, 09-148, 09-174, 09-175. 1 lb.

No. 43-212 Set of 6 Collars. $\frac{1}{2}$ " hole, $1\frac{9}{16}$ " to $1\frac{7}{8}$ " diameter. Nos. 09-149, 09-176, 09-177, 09-178, 09-179, 09-180. $1\frac{1}{2}$ lbs.

No. 43-191 Set of 4 Collars for Sash Cutters. $\frac{1}{2}$ " hole. Nos. 09-140, 09-141, 09-150, 09-151. $\frac{1}{2}$ lb.

Cutter and Collar Sets— $\frac{1}{2}$ " Hole

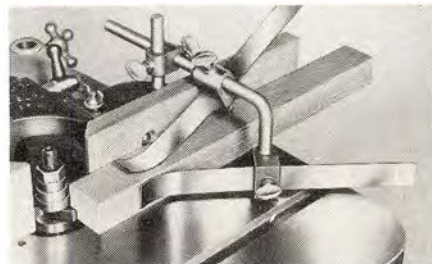
No. 43-182 Standard Cutter Set. Consists of Cutters 09-100 to 09-109 inclusive and Collars 09-142 to 09-149 inclusive. Packed in wood box. $3\frac{1}{2}$ lbs.

No. 43-213 Cove and Bead Cutter Set. Consists of Cutters 09-129, 09-135 to 09-139 inclusive and Collars 09-132 and 09-134. Packed with 43-345 Stub Spindle Assembly and SP-10 Wrench. 2 lbs.

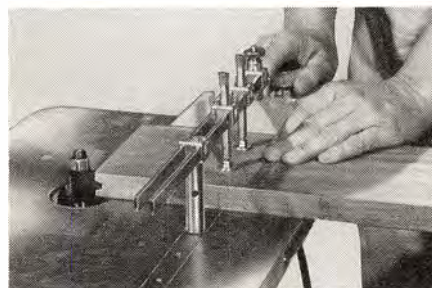
No. 43-214 Sash and Cabinet Cutter Set. Consists of Cutters 09-108, 09-120, 09-121, 09-123 to 09-128 inclusive and Collars 09-140, 09-141, 09-150 and 09-151. Packed with 43-345 Stub Spindle Assembly and SP-10 Wrench. 3 lbs.

For Heavy Duty and Light Duty Wood Shapers

No. 34-895 Auto-Set® Miter Gage. For straight and angle finishing. Has $\frac{3}{8} \times \frac{3}{4} \times 18$ " guide bar and pivoting work support body with pointer and calibrations reading through 120° swing. Adjustable, positive stops at 90° and 45° positions. Accommodates No. 34-568 Clamp Attachment. $3\frac{1}{2}$ lbs.

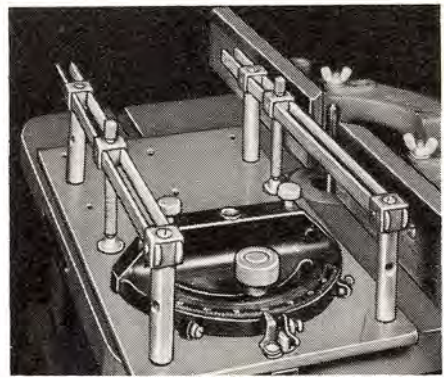


No. 43-983 Spring Hold Downs. Used with shaper fence on straight shaping operations. Holds work firmly against fence and table. Accommodates work up to $3\frac{1}{2}$ " thick, any length. 2 lbs.



No. 34-568 Clamp Attachment for miter gage. Holds work evenly and safely when edge shaping with miter gage. Includes clamp bar, two sliding clamp screws, front and rear posts. $1\frac{1}{2}$ lbs.

No. 34-873 Extra Clamp Screw and Bracket for clamp attachment. $\frac{1}{2}$ lb.



No. 43-186 Sliding Shaper Jig. For horizontal shaping operations such as tenon and groove cutting. Securely holds short and narrow work, prevents slipping. 15 lbs.

No. 43-170 Tenoner. Use with 43-186 Shaper Jig Base. Simplifies vertical operations as in-face shaping and drawer construction. 19 lbs.

No. 43-198 Table Insert. With guide shoulders. For shaping with template without the use of collars. 3" O.D. and $1\frac{3}{8}$ " I.D.

3-Knife Safety Cutterhead

Enables circular saw moulding cutter knives to be used on the wood shaper.



No. 43-343 Cutterhead. Includes wrench and bushing for use with $\frac{1}{2}$ " and $\frac{3}{4}$ " shaper spindles. Furnished without knives. 1 lb. *For actual size and shape of cutters, see Page A20.*

For Light Duty Wood Shaper



No. 43-817 Ring Guard. Provides added safety and convenience on curved and circular work. Complete with mounting bracket. $6\frac{1}{2}$ lbs.

For RU-50 Router

No. 43-567 $\frac{1}{2}$ " Spindle and Nut for mounting 3-lip shaper cutters and other accessories.

No. 43-569 Collet Chuck. Includes $\frac{1}{4}$ " and $\frac{1}{2}$ " collets and threaded nut.

Delta Shaper and Router Accessories (continued)

For RS-15 5-Speed and Heavy Duty Wood Shapers

Collar Sets— $\frac{3}{4}$ " and 1" Hole

No. 43-198 Set of Table Inserts with Guide Shoulders. For template shaping operations where collars are not used. Set of two— $2\frac{3}{8}$ " and $1\frac{5}{8}$ " diameter. 1½ lbs.

No. 43-248 Set of 6 Collars. $\frac{3}{4}$ " hole, $1\frac{3}{16}$ " to $1\frac{1}{2}$ " diameter. Nos. 43-260, 43-261, 43-262, 43-263, 43-264, 43-265.

No. 43-249 Set of 6 Collars. $\frac{3}{4}$ " hole, $1\frac{9}{16}$ " to $1\frac{7}{8}$ " diameter. Nos. 43-266, 43-267, 43-268, 43-269, 43-270, 43-271.

No. 43-308 Set of 5 Collars. 1" hole, $1\frac{1}{4}$ " to $1\frac{1}{2}$ " diameter. Nos. 43-321, 43-322, 43-323, 43-324, 43-325.

No. 43-309 Set of 6 Collars. 1" hole, $1\frac{9}{16}$ " to $1\frac{7}{8}$ " diameter. Nos. 43-326, 43-327, 43-328, 43-329, 43-330, 43-331.

Spacing Collars for Shapers and Routers— $\frac{1}{2}$ ", $\frac{3}{4}$ " and 1" hole

<div style="display: flex; justify-content: space-around; font-size: small; transform: rotate(-45deg);"> Heavy & Light Duty Wood Shaper, RU-50 Router, Overarm Router/Shaper RS-15 5-Speed Shaper, Heavy Duty Wood Shaper RS-15 5-Speed Shaper, Heavy Duty Wood Shaper </div>				
Number $\frac{1}{2}$ " Hole	Number $\frac{3}{4}$ " Hole	Number 1" Hole	Dia.	Thick- ness
09-133			$1\frac{3}{16}$ "	$\frac{1}{8}$ "
09-150	43-250	43-310	$1\frac{3}{8}$ "	$\frac{3}{16}$ "
09-155	43-251		$\frac{3}{4}$ "	
09-217	43-251		$1\frac{3}{32}$ "	
09-134	43-252		$1\frac{5}{32}$ "	$\frac{1}{4}$ "
09-140	43-253	43-313	$1\frac{3}{16}$ "	
09-215	43-254	43-314	$1\frac{15}{32}$ "	
09-151	43-255	43-315	$1\frac{1}{8}$ "	
09-142			$\frac{3}{4}$ "	
09-171			$1\frac{3}{16}$ "	
09-143			$\frac{7}{8}$ "	
09-172			$1\frac{5}{16}$ "	
09-144	43-256		1"	
09-173	43-257		$1\frac{1}{16}$ "	
09-145	43-258		$1\frac{1}{8}$ "	
09-132	43-259		$1\frac{5}{32}$ "	$\frac{3}{8}$ "
09-141	43-260		$1\frac{3}{16}$ "	
09-146	43-261	43-321	$1\frac{1}{4}$ "	
09-174	43-262	43-322	$1\frac{3}{16}$ "	
09-147	43-263	43-323	$1\frac{3}{8}$ "	
09-175	43-264	43-324	$1\frac{7}{16}$ "	
09-148	43-265	43-325	$1\frac{1}{2}$ "	
09-176	43-266	43-326	$1\frac{9}{16}$ "	
09-177	43-267	43-327	$1\frac{5}{8}$ "	
09-178	43-268	43-328	$1\frac{11}{16}$ "	
09-149	43-269	43-329	$1\frac{3}{4}$ "	
09-179	43-270	43-330	$1\frac{13}{16}$ "	
09-180	43-271	43-331	$1\frac{7}{8}$ "	

For RS-15 5-Speed Wood Shaper

No. 43-783 $\frac{3}{4}$ " Spindle with spacing collars and nuts. 9½ lbs.

No. 43-784 $\frac{7}{8}$ " Spindle with spacing collars and nuts. 9¾ lbs.

No. 43-785 1" Spindle with spacing collars and nuts. 10 lbs.

No. 43-786 $1\frac{1}{8}$ " Spindle with spacing collars and nuts. 10¼ lbs.

No. 43-787 $1\frac{1}{4}$ " Spindle with spacing collars and nuts. 10½ lbs.

No. 43-788 $1\frac{1}{2}$ " Spindle with spacing collars and nuts. 11 lbs.

No. 43-789 Routing Chuck with collet set in sizes of $\frac{1}{4}$ ", $\frac{3}{8}$ " and $\frac{1}{2}$ ". 7 lbs.

For Heavy Duty Wood Shaper

No. 50-261 Mobile Base. For H.D. Shaper. 22 lbs.



No. 43-348 Safety Ring Guard. For added safety and convenience on curved and circular edge shaping operations. Complete with mounting bracket. 9 lbs.



No. 43-830 Fence Guard Assembly. Heavy cast iron construction. Fence halves adjust independently. Has access opening for hookup to dust collection system. Standard equipment with unit.

No. 43-829 Flange, $2\frac{1}{2}$ " diameter for attaching to 43-830 Fence Guard Assembly for dust collection.

No. 43-347 $\frac{1}{2}$ " Spindle. Included with basic machine. For 3-lip shaper cutters with $\frac{1}{2}$ " hole. 1 lb.

No. 43-345 $\frac{1}{2}$ " Stub Spindle. For cope cutters with $\frac{1}{2}$ " hole. 1 lb.

No. 43-937 $\frac{3}{4}$ " Spindle. Included with basic machine. For use with cutterheads with $\frac{3}{4}$ " hole. $\frac{3}{4}$ lb.

No. 43-824 Router Spindle. Accepts $\frac{1}{4}$ " and $\frac{1}{2}$ " shank router bits. $\frac{3}{4}$ lb.

No. 43-821 Extra Long $\frac{3}{4}$ " Spindle Cartridge Assembly with 2-speed spindle pulley for clockwise or counter-clockwise rotation. Provides $4\frac{3}{8}$ " capacity under nut. For use with wide cutters for fluting and reeding.

No. 43-822 1" Spindle Cartridge Assembly with spacing collars and 2-speed spindle pulley for use with 1" hole cutters. For clockwise or counter-clockwise rotation.

No. 43-823 Spacing Collars. Includes four collars with 1" hole—two $\frac{1}{2}$ " thick and two 1" thick. 1 lb.

No. 41-105 Motor Pulley, two-speed, $\frac{3}{4}$ " bore.

No. 41-106 Motor Pulley, two-speed, $\frac{7}{8}$ " bore.

No. 41-107 Spindle Pulley, two-speed. Fits Delta Single and Two-Speed Heavy Duty Wood Shapers.

No. 49-101 V-belt, $29\frac{1}{8}$ " O.C. $\frac{1}{2}$ lb.

Safety Cutterhead and Blank Knives

For special mouldings that cannot be made with standard shaper cutters. Knives are self-hardening and sand-blasted so that desired cutter shape may be drawn directly on them and ground to shape.



No. 43-342 shown with blank knives

No. 43-342 Cutterhead. For use with $\frac{3}{4}$ " spindle. $2\frac{37}{64}$ " high, with tightening block; less knives. 1½ lbs.

No. 43-192 Cutterhead. For use with $\frac{1}{2}$ " spindle. $2\frac{37}{64}$ " high, with tightening block; less knives. 1½ lbs.

Blank Knives—Set of Two. For use with 43-342 and 43-192 cutterheads. All $\frac{1}{8}$ " thick with 30° clamping angle. $\frac{1}{2}$ lb.

Number	43-193	43-194	43-195	43-196
Size	$\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{3}{4}$ x $2\frac{1}{2}$	1" x $2\frac{1}{2}$	$1\frac{1}{2}$ x $2\frac{1}{2}$

For Light Duty Wood Shaper

No. 50-264 Mobile Base. For L.D. Shaper. 25 lbs.

No. 50-118 Retractable Casters for 50-513 Open Steel Stand. 12 lbs.

No. 43-190 Stub Spindle. For counterbored $\frac{1}{2}$ " hole 3-lip shaper cutters 09-128 and 09-137. 1 lb.

No. 43-935 $\frac{1}{2}$ " Spindle. Included with basic machine. For $\frac{1}{2}$ " hole 3-lip shaper cutters. 1 lb.

No. 43-185 Router Spindle for mounting $\frac{1}{4}$ " shank router bits. 1 lb.

NOTE: For dust collection capability of Delta Shapers, see Page O2.

NOTE: For complete information on Automatic Electric Brake, see Page P2.

Delta Carbide-Tipped Shaper Cutters

A superior line of Carbide-Tipped Shaper Cutters manufactured to new higher quality standards, for truer, cleaner shaping; longer cutting tool life.

Profile perfect from design through testing.

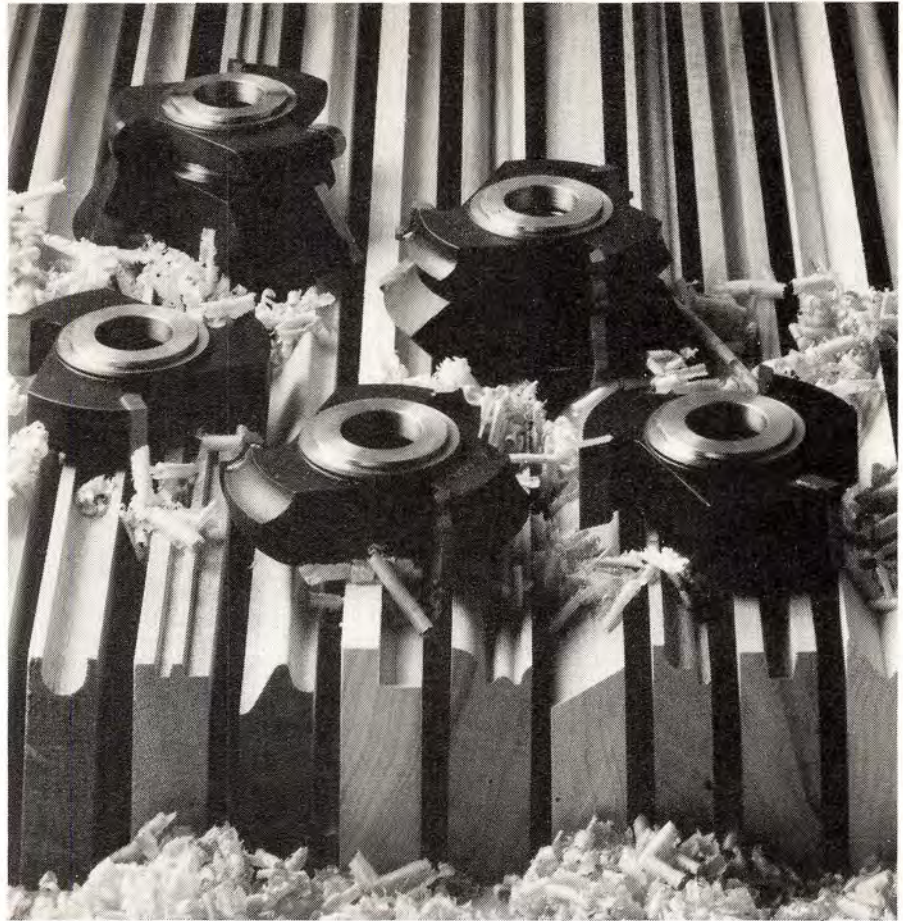
Delta Carbide-Tipped Shaper Cutters are made of hi-grade steel with thicker, high-density carbide blades; brazed with a heat absorbing silver-copper compound to buffer stress; prevent cracking.

They feature a new contour design for increased chip removal efficiency; with added weight for better balance and more accurate cutting.

New manufacturing and testing process involves advanced CNC equipment in machining the cutter bodies. Tolerance variations between cutters is less than .002".

All 1 1/4"-hole cutters and the 45-998 3/4"-hole cutter, have a maximum safe operating speed of 8,000 RPM. All other 3/4"-hole cutters have a maximum safe running speed of 13,000 RPM.

Cutter profiles are actual size. Cutting diameters are listed.



Door Lip



No. 45-900
2.68" O.D.
No. 45-000
4.375" O.D.
Qr. Rd. & Taper Rabbet
(clockwise rotation, rabbet down)



No. 45-901
2.68" O.D.
No. 45-001
4.375" O.D.
Qr. Rd. & Taper Rabbet
(counter-clockwise, rabbet down)

Catalog numbers in black denote shaper cutters which fit 1/2" and 3/4" spindles.

Catalog numbers in blue denote shaper cutters which fit 1" and 1 1/4" spindles.



No. 45-991
2.68" O.D.
Cor. Rd. & Taper Rabbet



No. 45-992
2.53" O.D.
Cor. Rd. & Ogee



No. 45-993
2.85" O.D.
No. 45-093
4.5" O.D.
Ogee & Cove

Quarter Round



No. 45-905
2.83" O.D.
No. 45-005
4.5" O.D.
1/4" & 1/2" Qr. Rd.



No. 45-959
3.25" O.D.
No. 45-059
4.5" O.D.
3/4" Qr. Rd.



No. 45-950
2.5" O.D.
No. 45-050
4" O.D.
1/2" Cove & 5/16" Qr. Rd.



No. 45-952
2.5" O.D.
No. 45-052
4" O.D.
1/8" & 3/8" Qr. Rd. & 1/4" Bead

Tongue & Groove



No. 45-903
2.52" O.D.
No. 45-003
4" O.D.
Wedge Tongue



No. 45-904
2.52" O.D.
No. 45-004
4" O.D.
Wedge Groove

Delta Carbide-Tipped Shaper Cutters (continued)

Ogee



No. 45-906
2.71" O.D.
No. 45-006
4.375" O.D.
Ogee



No. 45-958
3" O.D.
No. 45-058
4.5" O.D.
Ogee & Bead
Table Edge

Sash



No. 45-975
2.53" O.D.
No. 45-075
4" O.D.
Female Sash



No. 45-976
2.53" O.D.
No. 45-076
4" O.D.
Male Sash

Flute (Convex)



No. 45-971
1/4" 2.362" O.D.
No. 45-972
3/8" 2.362" O.D.
No. 45-926
1/2" 2.36" O.D.
No. 45-026
1/2" 3.75" O.D.
No. 45-928
3/4" 2.46" O.D.
No. 45-028
3/4" 3.75" O.D.
No. 45-930
1" 2.79" O.D.
No. 45-030
1" 3.75" O.D.

Bead (Concave)



No. 45-973
1/4" 2.362" O.D.
No. 45-974
3/8" 2.362" O.D.
No. 45-925
1/2" 2.36" O.D.
No. 45-025
1/2" 3.75" O.D.
No. 45-927
3/4" 2.46" O.D.
No. 45-027
3/4" 4" O.D.
No. 45-929
1" 2.79" O.D.
No. 45-029
1" 4.5" O.D.

Straight



No. 45-917
1/4" 2.91" O.D.
No. 45-017
1/4" 4.539" O.D.
No. 45-918
1/4" 2.6" O.D.
No. 45-018
1/4" 4.03" O.D.
No. 45-953
3/8" 2.5" O.D.
No. 45-053
3/8" 4" O.D.
No. 45-954
1/2" 2.35" O.D.
No. 45-054
1/2" 4" O.D.

No. 45-912
3/4" 2.16" O.D.
No. 45-012
3/4" 3.75" O.D.
No. 45-955
1" 2.16" O.D.
No. 45-055
1" 3.75" O.D.
No. 45-956
1 1/2" 2.16" O.D.
No. 45-056
1 1/2" 3.75" O.D.

Vertical Panel Raising



No. 45-949
2.56" O.D.
Concave
Face Cut



No. 45-948
2.56" O.D.
15° Face Cut



No. 45-902
2.24" O.D.
5° Face Cut

Horizontal Panel Raising



No. 45-931
5.71" O.D.
5° Face Cut



No. 45-984
5.71" O.D.
15° Face Cut



No. 45-985
5.71" O.D.
Concave
Face Cut



No. 45-986
5.71" O.D.
12° Face Cut
& Qtr. Rd.



No. 45-987
5.9" O.D.
Convex
Face Cut

Pattern Detail



No. 45-911
2.31" O.D.
No. 45-011
4" O.D.
Glue Joint



No. 45-932
3.346" O.D.
Stair Tread
Nose



†**No. 45-933**
2.3" O.D.
No. 45-033
3.75" O.D.
Drawer Joint



No. 45-951
2.37" O.D.
3/16" Cove &
3/8" Bead



No. 45-957
2.85" O.D.
No. 45-057
4.5" O.D.
90°V-Groove



No. 45-977
2.85" O.D.
No. 45-077
4.5" O.D.
30° Bevel



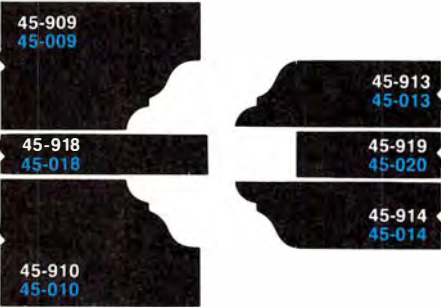

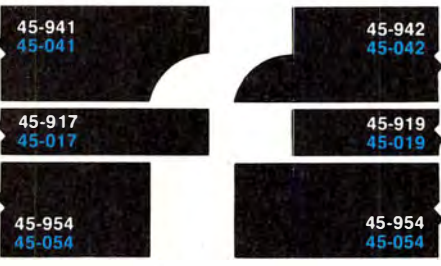
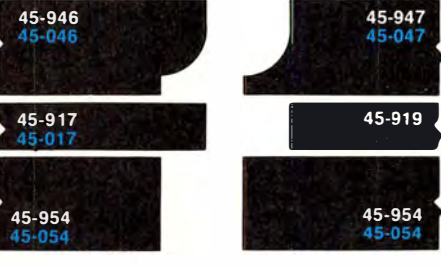

‡**No. 45-998**
4" O.D.
No. 45-098
5" O.D.
Lock Mitre,
Double
Tongue
& Groove

Cutter profiles are actual size. Cutting diameters are listed. Catalog numbers in black denote shaper cutters which fit 1/2" and 3/4" spindles. Catalog numbers in color denote shaper cutters which fit 1" and 1 1/4" spindles.

†Requires use of No. 43-345 Stub Spindle for Heavy Duty Wood Shaper or No. 43-190 Stub Spindle for Light Duty Wood Shaper.
‡For use on 3/4" spindles only, not over 8,000 RPM.

Delta Carbide-Tipped Shaper Cutters (continued)

* Complete Cabinet Sets

		Cat No. ¾" Bore	O.D.	Cat No. 1¼" Bore	O.D.	Description
		45-921		45-021		Cabinet Moulding Set
		Includes:				
		45-909	2.53"	45-009	4"	Cabinet R.H. Female
		45-918	2.6"	45-018	4.03"	¼" Straight
		45-910	2.53"	45-010	4"	Cabinet L.H. Female
		45-913	2.54"	45-013	4"	Cabinet R.H. Male
		45-919	1.83"	45-020	3.31"	Spacer
		45-914	2.54"	45-014	4"	Cabinet L.H. Male
		45-922		45-022		Cove and Bead Set
		Includes:				
		45-915	2.85"	45-015	4.5"	Cove & Bead Cove R.H.
		45-919	1.83"	45-019	3.48"	Spacer
		45-916	2.85"	45-016	4.5"	Cove & Bead Cove L.H.
		45-908	2.85"	45-008	4.5"	Cove & Bead Moulding R.H.
		45-917	2.91"	45-017	4.539"	¼" Straight
		45-907	2.85"	45-007	4.5"	Cove & Bead Moulding L.H.
		45-940		45-040		Concave Stile and Rail Set
		Includes:				
		45-941	2.85"	45-041	4.5"	Concave Stile
		45-917	2.91"	45-017	4.539"	¼" Straight
		45-954	2.35"	45-054	4"	½" Straight
		45-942	2.35"	45-042	4"	Rail for Concave Stile
		45-919	1.83"	45-019	3.48"	Spacer
		45-954	2.35"	45-054	4"	½" Straight
		45-945		45-045		Convex Stile and Rail Set
		Includes:				
		45-946	2.85"	45-046	4.5"	Convex Stile
		45-917	2.91"	45-017	4.539"	¼" Straight
		45-954	2.35"	45-054	4"	½" Straight
		45-947	2.35"	45-047	4"	Rail for Convex Stile
		45-919	1.83"	45-019	3.48"	Spacer
		45-954	2.35"	45-054	4"	½" Straight
		45-994		45-094		Ogee Stile and Rail Set
		Includes:				
		45-995	2.85"	45-095	4.5"	Ogee Stile
		45-917	2.91"	45-017	4.539"	¼" Straight
		45-954	2.35"	45-054	4"	½" Straight
		45-996	2.35"	45-096	4"	Rail for Ogee Stile
		45-919	1.83"	45-019	3.48"	Spacer
		45-954	2.35"	45-054	4"	½" Straight

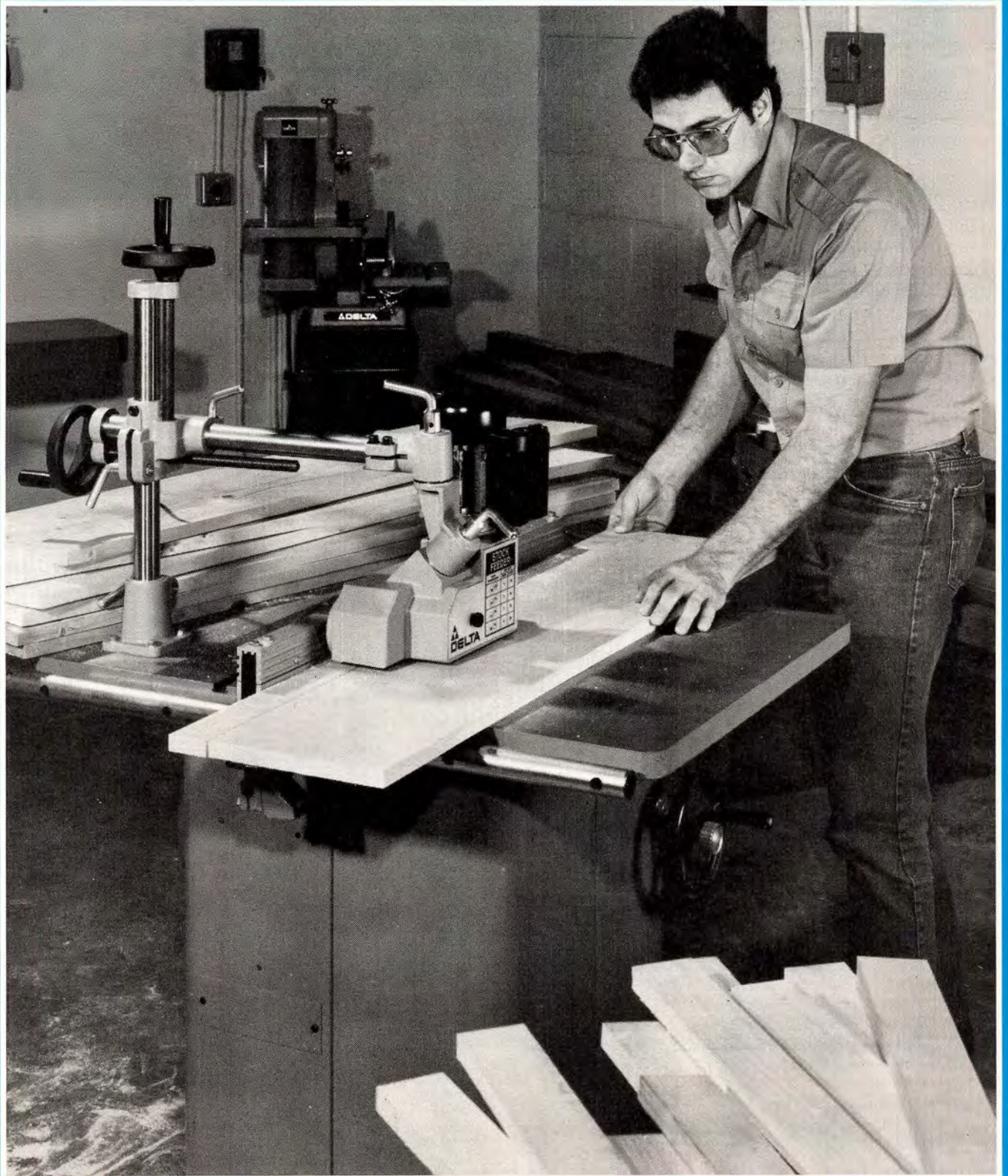
†Requires use of No. 43-345 Stub Spindle for Heavy Duty Wood Shaper or No. 43-190 Stub Spindle for Light Duty Wood Shaper.

‡For use on ¾" spindles only, not over 8,000 RPM.

* Individual cutters and spacers also available separately.

Delta Production Stock Feeders

Feed stock smoothly, accurately, at speeds desired, to save valuable production time. Take the work out of sawing, shaping and jointing.



Delta Production Stock Feeders

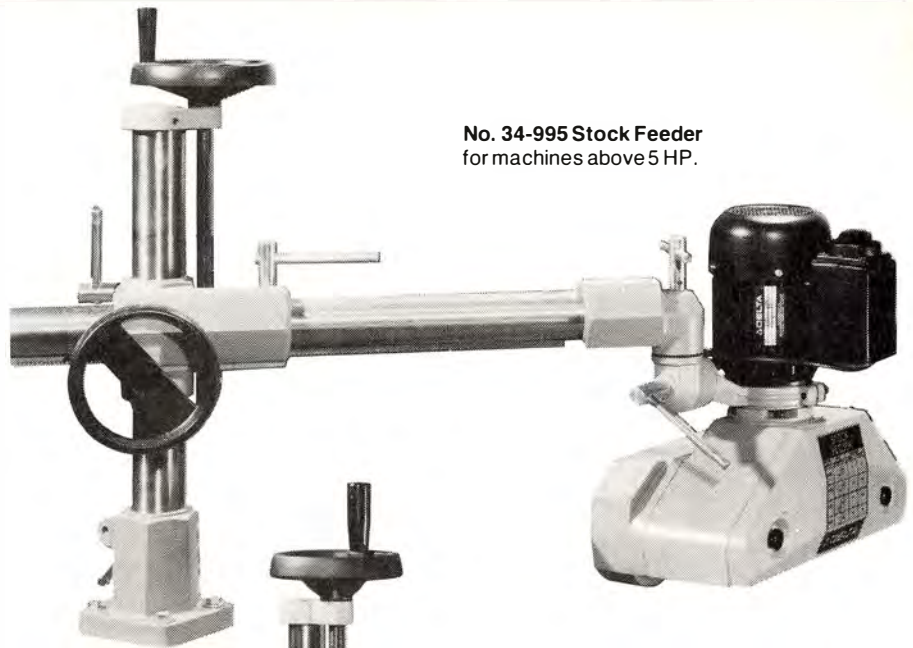
Feed stock smoothly, accurately, at speeds desired, to save valuable production time!

Now, you can do sawing, shaping and other operations faster, better and at lower cost. That's because Delta Stock Feeders take the guesswork out of manual feeding. Stock is fed smoothly, accurately and consistently. This means you can rip and shape more wood with a lot less effort.

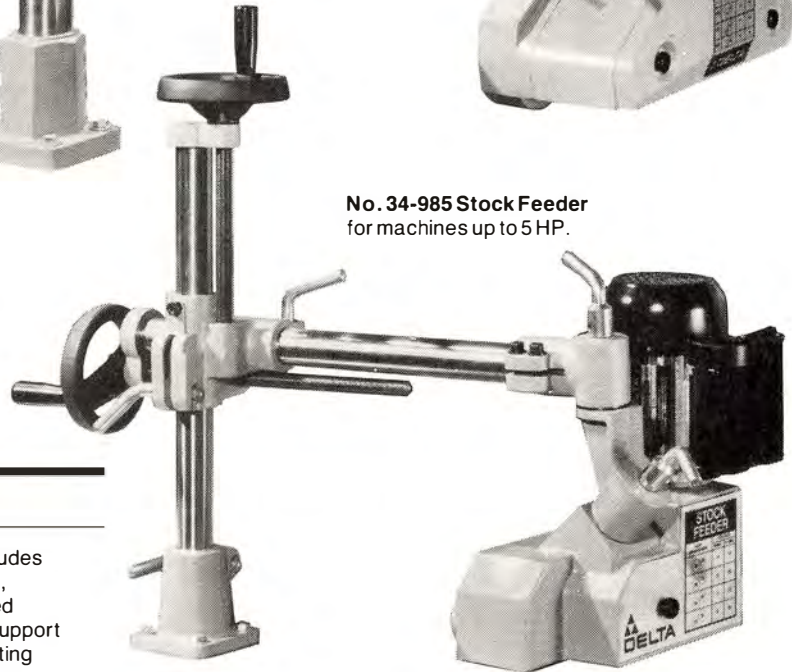
Since the need for hands and fingers to be near the cutting tool is eliminated, you work safer. And because the rollers hold the stock in place, kickback possibilities are practically eliminated.

Delta Stock Feeders are reliable. They're built for long, trouble-free performance. Except for periodic lubrication, they are maintenance free.

Delta Stock Feeders are exceptionally versatile, too. They can be mounted vertically, horizontally or at any angle to suit the operation. And set-ups are fast and easy.

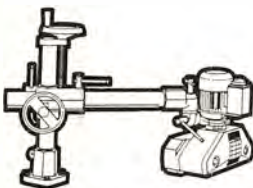


No. 34-995 Stock Feeder
for machines above 5 HP.

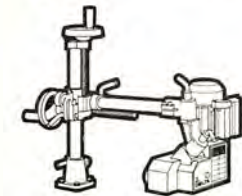


No. 34-985 Stock Feeder
for machines up to 5 HP.

Catalog Listing



No. 34-995 Stock Feeder. Includes basic machine; 3/4/1 HP, 230 V, 3 phase motor; three rubber feed rollers; vertical and horizontal support stands; universal joints; lubricating gun and set of wrenches.



No. 34-994 Stock Feeder. Same as 34-995 except for 230V, single phase operation. Power cord and plug supplied.

No. 34-985 Stock Feeder. Includes basic machine; 1/6 HP, 115 V, 1 phase motor; three rubber feed rollers; vertical and horizontal support stands; universal joints; additional set of speed changing gears; lubricating gun and set of wrenches.

Machine Data

Models	No. 34-995/34-994	No. 34-985
Motors	3/4/1 HP, 230V, 60 Hz, 3phase; 6/8 HP, 230V, 60 Hz, 1 phase	1/6 HP, 115V, 60 Hz, 1 phase
Speeds (forward and reverse)	13, 26, 36, 72 FPM (3.9, 7.9, 10.9, 21.9 M/min.)	14, 27, 32, 63 FPM (4, 8, 10, 19 M/min.)
Range of Adjustment:		
Vertical	7 3/4" (196.8 mm)	6 3/8" (161.9 mm)
Horizontal	18 3/8" (466.7 mm)	11 1/4" (285.7 mm)
Min. Length of Unbutted Stock	6" (152.4 mm)	4 1/2" (114.3 mm)
Wheels:		
Diameter	4 1/16" (119 mm)	3 1/8" (79.3 mm)
Width	2 5/16" (58.7 mm)	1 1/16" (26.9 mm)
Overall Dimensions: (Feeder only)		
Height	18 1/4" (463.5 mm)	13" (330.2 mm)
Width	17 3/4" (450.8 mm)	12" (304.8 mm)
Depth	9 7/8" (250.8 mm)	7 1/4" (181.1 mm)
Shipping Weight: (entire assembly)		
No. 34-995	136 5/8 lbs. (62 Kg.)	—
No. 34-985	—	57 1/4 lbs. (26 Kg.)

Accessories

Keep an extra Support Stand and/or Mounting Base on hand. It will save valuable production time by eliminating disassembly on the standard equipment stand and/or mounting base when moving stock feeder from one machine to another.

No. 34-996 Support Stand for No. 34-995 Stock Feeder. Includes mounting base, vertical and horizontal support columns, universal joints and adjustable wheels. 79 3/8 lbs.

No. 34-990 Mounting Base Only for No. 34-995 Stock Feeder.

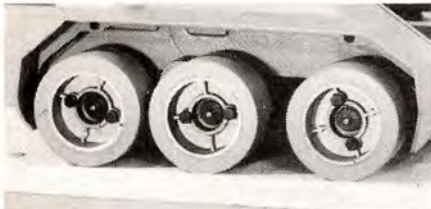
No. 34-986 Support Stand for No. 34-985 Stock Feeder. Includes same equipment as No. 34-996 Stand. 30 7/8 lbs.

No. 34-989 Mounting Base Only for No. 34-985 Stock Feeder.

Quality Features



Fully Adjustable Support Columns. Feeders come equipped with sturdy vertical and horizontal support columns and universal joints with "T" or "L" locking mechanism for angle positioning. Vertical and horizontal adjustments are easily made using handwheels with Acme screw. Horizontal adjustment on Model 34-995 is by handwheel and rack and pinion mechanism. On Model 34-995, vertical adjustment is $7\frac{3}{4}$ ", whereas horizontal adjustment is a full $18\frac{3}{4}$ ", adequate for all types of stock feeding. On Model 34-985, vertical adjustment is $6\frac{3}{8}$ " and horizontal adjustment is $11\frac{1}{4}$ ". Four bolts firmly secure vertical support arm to table surface.



Sure-Grip Feed Rollers. Abrasion resistant, rubber feed rollers operate freely on needle bearings. Chain and sprocket driven rollers are spring-loaded to insure smooth feeding, even when stock varies in thickness.

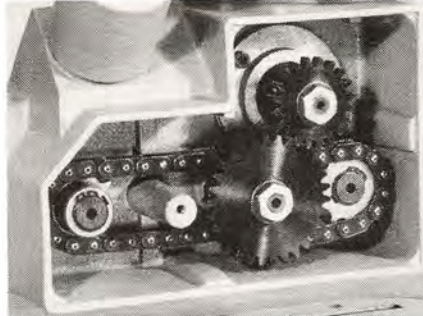
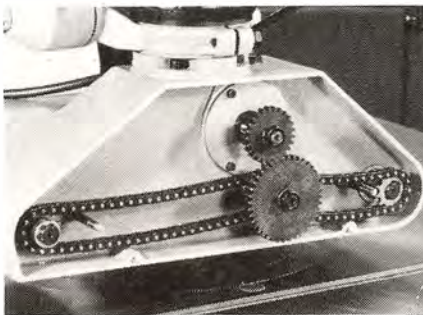
STOCK FEEDER			
MOTOR SPEED	GEAR ARRANGEMENT	FEED RATE	
		MIN.	FT. MIN.
LOW	40 33	4	13
HIGH	19 33	8	24
LOW	24 20	11	36
HIGH	26 20	22	72

STOCK FEEDER			
GEAR ARRANGEMENT	FEED RATE		
	MIN.	FT. MIN.	
30 16	4	14	
26 24	8	27	
24 28	10	32	
18 30	18	63	

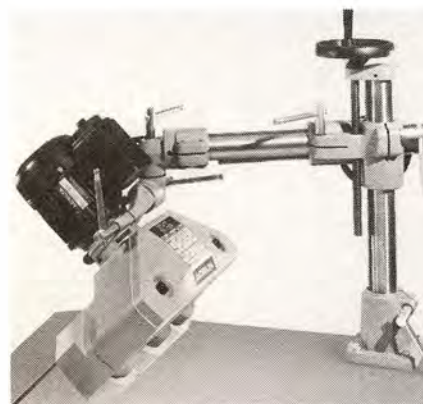
Feed Rate Selection. Both stock feeder models offer four speeds, forward and reverse. Gears operate in a sealed oil bath. Model 34-995, with its 2-speed motor, provides instant speeds of 13 or 26 FPM simply by moving the motor speed switch from "low" to "high" range. When the gears are reversed, speeds of 36 and 72 FPM are obtained. On Model 34-985, which has a single speed motor, speeds of 14 and 63 FPM are available by reversing the gears. When a separate set of gears are inserted, speeds of 27 and 32 FPM are obtained.



Reliable Motors. Both stock feeders are powered by continuous duty motors. Model 34-995 is equipped with a powerful 3/4/1 HP, 2-speed reversing motor that provides efficient feeding at both high and low speeds. Feed speed and directional switch is conveniently located for easy operator use.



Rugged, Efficient Drive System. Continuous duty motor powers the lubricated gear box which transmits power to roller chains and sprockets that drive feed rollers. This superior system assures positive feeding of all types of materials.



Angle feeding is possible with both stock feeder models.

Delta Stock Feeders Are Exceptionally Versatile



The Delta No. 34-995 Stock Feeder makes high volume production shaping a simple operation.



Fast, repetitive ripping on the Delta 10" UNISAW® using the No. 34-985 Stock Feeder.



When desired, both stock feeders may be used in the horizontal position, as the Model 34-995 Feeder is shown here.

You can depend on your Delta Industrial Distributor



He will provide you with:

Assistance in Your Production Planning. His years of experience and technical know-how have equipped him to give you expert advice on your specific job problems.

Fast Delivery from Local Stocks. Because of his knowledge of local markets, he stocks the products you need and delivers your orders quickly.

Prompt Information on New and Old Products. He is in constant touch with manufacturers who supply him with information on new products and developments.

One Source for Many Types of Products. One source ordering simplifies your purchasing procedure and reduces your accounting costs.

Your first source



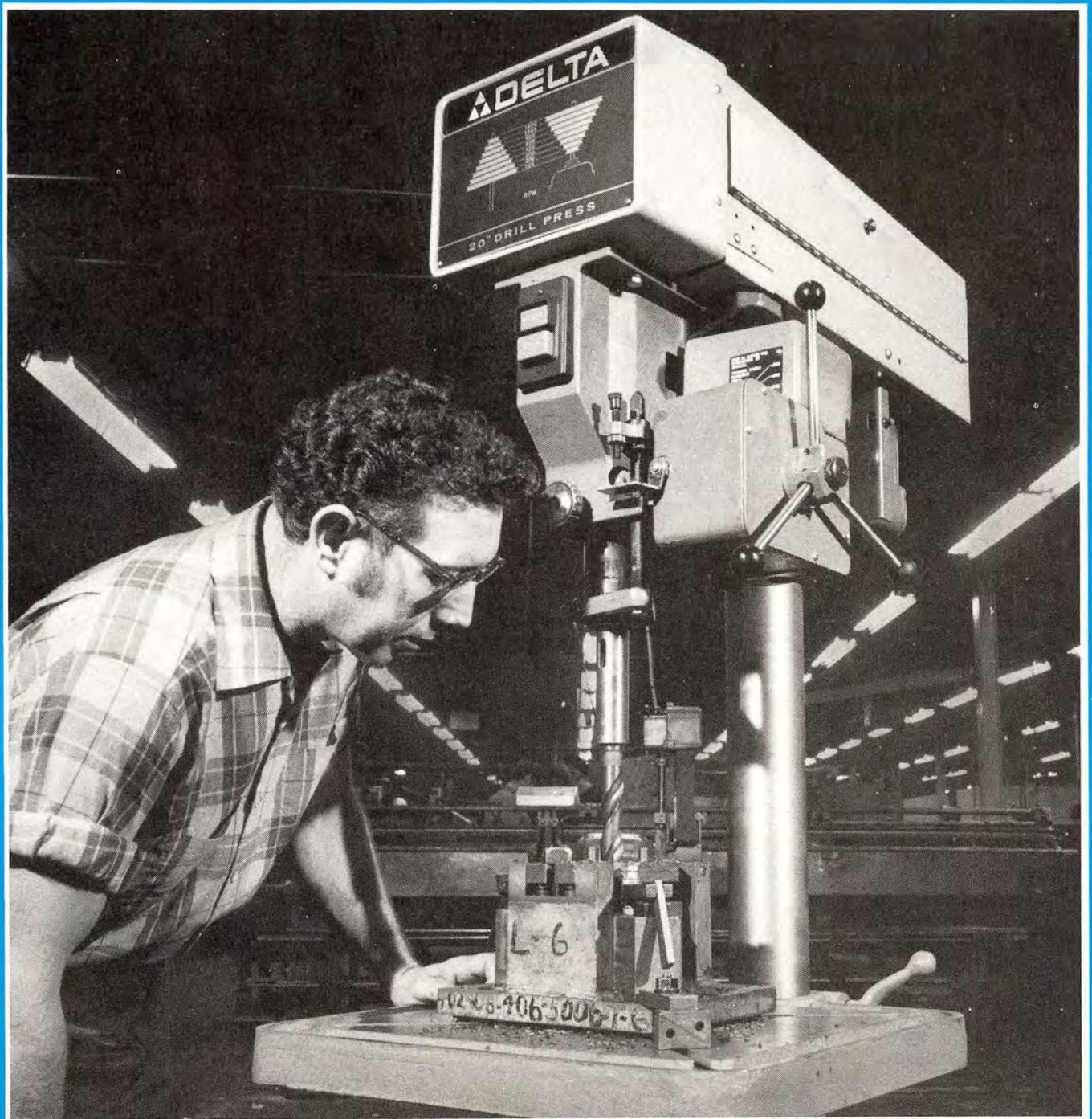
Delta Drill Presses

Most complete line of drilling machines in the industry!

What's your job—drilling, reaming, spot facing, counter-boring! Whatever it is, Delta has a drilling machine to suit your specific production requirements.

Models vary from belt drive in step pulley or variable speed to hand, mechanical or air feed. You can select bench, floor or overhead models in single or multiple

spindle set-ups with No. 3 or No. 2 M.T. spindle or key chuck spindle. In addition, look into the modern features built into every Delta Drilling Machine. These features guarantee long service life, consistent precision performance and maximum operating economy. Let us show you a Delta "productivity builder" in action today!



Delta Series 2000 20" Drill Presses

Select from over 140 Variable Speed and Step Pulley Models offering big 1" hole capacity in steel!

You've got a lot more going for you with Delta Series 2000 Drilling Machines. Here's why! The unique slow-speed drive system incorporates a belt tensioning idler for greater wrap-around of the multiple "V" belt on the jack-shift pulley. This means you get "full power" transmission from the motor to the spindle. Furthermore, Delta's superior drive is powered by a standard 1725 RPM, single-speed, dual-voltage motor. This adds up to a *full 1½ HP at the spindle during both high and low speeds*—not one-half the HP at low speed as with a two-speed motor.

Delta also gives you the *widest* selection of speeds in the industry! You can choose from three speed ranges in both step pulley and variable speed models.

These are just a few reasons why Delta Series 2000's are well suited for big capacity jobs in machine shops, tool rooms, experimental departments, production lines, vocational schools, or wherever big hole drilling to close tolerances is required.

For increased productivity and profit, put Delta Series 2000 Drilling Machines to work in your plant or shop now!



Variable Speed Floor Model shown with hand feed and production table (tilting table available as an accessory).

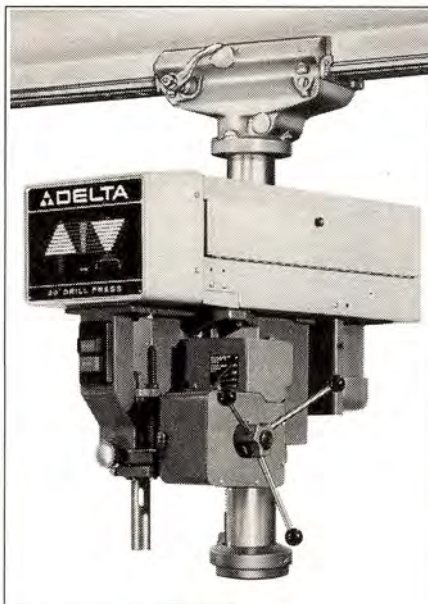
Eight-speed Step Pulley Floor Model shown with hand feed and production table. All models are furnished with choice of three feeds—Hand Feed, Vari-Rate Mechanical Power Feed or Cyclematic Air Feed.

Variable Speed Floor Model shown with No. 20-601 Cyclematic Air Feed.

Eight-speed Step Pulley Floor Model shown with No. 20-601 Cyclematic Air Feed.

Features that assure superior quality and high productivity with low maintenance cost:

- Unique "full power" drive system provides 1½ HP at spindle at any speed from 125 RPM to 4250 RPM.
- Variable Speed Models are available in a choice of three extra wide speed ranges: 375 to 3750 RPM, 200 to 2000 RPM, 125 to 1250 RPM.
- Step Pulley Models offer eight selected speeds in any of three speed ranges.
- Big 6" quill travel is especially valuable for skip and gang drilling.
- Specially designed 19¼ x 22" production table has both diagonal and parallel T-slots for better clamping of work.
- Exclusive Delta 24-volt, push button control station increases operator safety



Drill Heads for Overhead Models and for Special Set-ups. Using the basic Drill Head Models, the No. 20-761 Raising Mechanism and the No. 20-623 Column and Ball Bearing Carriage Assembly, you can readily build a versatile overhead set-up. Mounted on a jib crane or overhead track, the unit is especially practical for drilling large or heavy work or where 360° rotation is desired.

Because of their adaptability and big capacity, all drill heads can be used effectively in special set-ups to solve radial, angular, horizontal and other particular drilling problems.



Variable Speed Floor Model shown with extra large production table and hand feed. Spacious 23¾ x 36" table working surface makes machine especially suited for handling large dies, jigs, fixtures and patterns. An excellent unit for the tool and die shop, machine shop and pattern shop.



Eight-speed Multiple Spindle Model shown with Vari-Rate Mechanical Power Feed. Can be ordered custom assembled using any combination of heads with any

number of spindles from one to a drill press a block long if desired. See Pages K16 and K17 for ordering.




Delta Series 2000 20" Drill Presses

Catalog Listing Single Spindle Step Pulley Eight-Speed Models

Complete Series 2000 20" Drill Presses.
All models (except heads only) include raising mechanism for head or table, self-locking depth stop, depth gage, belt guard, belt and

motor pulley (specify bore), safety collar for head (supplied on single spindle floor models only), motor and controls (except Nos. 70-210, 70-240, 70-270, 70-220, 70-250,

70-280, 70-230, 70-260 and 70-290, which do not include motor and controls).

Type	Model Number			Hand or Power Feed—No. 3 Morse Taper					
	3-to-1 Reduction Lo-Speed 125-1400 RPM	2-to-1 Reduction Lo-Speed 180-2000 RPM	Direct Drive Hi-Speed 375-4200 RPM	Motor	Motor Control	Motor Enclosure	Hertz And Motor RPM	Motor Voltage	Feed
Floor Model Production Table 	70-210 483 lbs.	70-240 481 lbs.	70-270 470 lbs.	None	—	—	—	—	—
	70-211 544 lbs.	70-241 542 lbs.	70-271 531 lbs.	Single Phase 1½ HP	Push Button Switch Only	TEFC	60-1725	230	Hand
	70-212 550 lbs.	70-242 548 lbs.	70-272 537 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	230	Hand
	70-213† 546 lbs.	70-243† 544 lbs.	70-273† 533 lbs.	Three Phase 1½ HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	Hand
	70-214 546 lbs.	70-244 544 lbs.	70-274 533 lbs.		24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	200	Hand
	70-215 589 lbs.	70-245 587 lbs.	70-275 576 lbs.	Single Phase 1½ HP	Push Button Switch Only	TEFC	60-1725	230	Power
	70-216 595 lbs.	70-246 593 lbs.	70-276 582 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	230	Power
	70-217† 591 lbs.	70-247† 589 lbs.	70-277† 578 lbs.	Three Phase 1½ HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	Power
70-218 591 lbs.	70-248 589 lbs.	70-278 578 lbs.	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)		TEFC	60-1725	200	Power	
Floor Model Tilting Table 	70-220 483 lbs.	70-250 481 lbs.	70-280 470 lbs.	None	—	—	—	—	—
	70-221 544 lbs.	70-251 542 lbs.	70-281 531 lbs.	Single Phase 1½ HP	Push Button Switch Only	TEFC	60-1725	230	Hand
	70-222 550 lbs.	70-252 548 lbs.	70-282 537 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	230	Hand
	70-223† 546 lbs.	70-253† 544 lbs.	70-283† 533 lbs.	Three Phase 1½ HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	Hand
	70-224 546 lbs.	70-254 544 lbs.	70-284 533 lbs.		24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	200	Hand
	70-225 589 lbs.	70-255 587 lbs.	70-285 576 lbs.	Single Phase 1½ HP	Push Button Switch Only	TEFC	60-1725	230	Power
	70-226 595 lbs.	70-256 593 lbs.	70-286 582 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	230	Power
	70-227† 591 lbs.	70-257† 589 lbs.	70-287† 578 lbs.	Three Phase 1½ HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	Power
70-228 591 lbs.	70-258 589 lbs.	70-288 578 lbs.	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)		TEFC	60-1725	200	Power	
Head Only (Less 20-761 Raising Mechanism) 	70-230 187 lbs.	70-260 185 lbs.	70-290 174 lbs.	None	—	—	—	—	—
	70-231 248 lbs.	70-261 246 lbs.	70-291 235 lbs.	Single Phase 1½ HP	Push Button Switch Only	TEFC	60-1725	230	Hand
	70-232 254 lbs.	70-262 252 lbs.	70-292 241 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	230	Hand
	70-233† 250 lbs.	70-263† 248 lbs.	70-293† 237 lbs.	Three Phase 1½ HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	Hand
	70-234 250 lbs.	70-264 248 lbs.	70-294 237 lbs.		24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	200	Hand
	70-235 293 lbs.	70-265 291 lbs.	70-295 280 lbs.	Single Phase 1½ HP	Push Button Switch Only	TEFC	60-1725	230	Power
	70-236 299 lbs.	70-266 297 lbs.	70-296 286 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	230	Power
	70-237 295 lbs.	70-267 293 lbs.	70-297 282 lbs.	Three Phase 1½ HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	Power
70-238 295 lbs.	70-268 293 lbs.	70-298 282 lbs.	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)		TEFC	60-1725	200	Power	

Machine Data

Capacities:

Diameter hole in steel 1" (25.4 mm)

Diameter hole in cast iron . . . 1½" (28.5 mm)

Quill:

Stroke (manual feed) 0 to 6" (0 to 152 mm)

Stroke (power feed) ½ to 6" (12.7 to 152 mm)

Diameter 2¾" (60.3 mm)

Power Feed Models:

Feeds:
Variable rate mechanical type . . from .003 to .018 ipr (.075 to .45 mmpr)

Spindle Speeds:

Step pulley models (8 speeds, 11.2-to-1 ratio):
Direct drive 375, 600, 900, 1275, 1800, 2400, 3200, 4200 RPM
2-to-1 reduction 180, 280, 425, 600, 850, 1125, 1525, 2000 RPM

3-to-1 reduction 125, 200, 300, 425, 600, 800, 1065, 1400 RPM

Variable speed models (10-to-1 ratio):

Direct drive 375 to 3750 RPM

2-to-1 reduction 200 to 2000 RPM

3-to-1 reduction 125 to 1250 RPM

Column:

Wall thickness ½" (12.7 mm)

Diameter 3¾" (95.25 mm)

Table Tilt:

Production 90°, L and R

Table Working Surface, Ground:

Tilting 16 x 18" (406 x 457 mm)

Production:

Overall 19¼ x 22" (489 x 559 mm)

Inside of coolant trough 15 x 18" (381 x 457 mm)

T-slots (six) 17/32" (13.5 mm)

Base Working Surface:

Floor model 13½ x 16¼" (342.9 x 412.7 mm)

Overall Dimensions:

Floor type:

Height 75" (1905 mm)

Width 22" (558.8 mm)

Front to rear 31½" (800.1 mm)

Motor Plate:




Accommodates NEMA Frame Motors 143T and 145T

Delta Series 2000 20" Drill Presses

Catalog Listing Single Spindle Variable Speed Models

Complete Series 2000 20" Drill Presses.
All models (except heads only) include raising mechanism for head or table, self-locking depth stop, depth gage, belt guard, belt and

motor pulley (specify bore), safety collar for head (supplied on single spindle floor models only), motor and controls.

Type	Model Number			Hand or Power Feed—No. 3 Morse Taper					
	3-to-1 Reduction Lo-Speed 125-1250 RPM	2-to-1 Reduction Lo-Speed 200-2000 RPM	Direct Drive Hi-Speed 375-3750 RPM	Motor	Motor Control	Motor Enclosure	Hertz And Motor RPM	Motor Voltage	Feed
Floor Model Production Table 	70-301 562 lbs.	70-341 560 lbs.	70-371 549 lbs.	Single Phase 1½ HP	Push Button Switch Only	TEFC	60-1725	230	Hand
	70-302 568 lbs.	70-342 566 lbs.	70-372 555 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	230	Hand
	70-303† 564 lbs.	70-343† 562 lbs.	70-373† 551 lbs.	Three Phase 1½ HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	Hand
	70-304 564 lbs.	70-344 564 lbs.	70-374 551 lbs.		Push Button Switch Only	TEFC	60-1725	200	Hand
	70-305 607 lbs.	70-345 605 lbs.	70-375 594 lbs.	Single Phase 1½ HP	Push Button Switch Only	TEFC	60-1725	230	Power
	70-306 613 lbs.	70-346 611 lbs.	70-376 600 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	230	Power
	70-307† 609 lbs.	70-347† 607 lbs.	70-377† 596 lbs.	Three Phase 1½ HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	Power
	70-308 609 lbs.	70-348 607 lbs.	70-378 596 lbs.		Push Button Switch Only	TEFC	60-1725	200	Power
Floor Model Tilting Table 	70-321 562 lbs.	70-351 560 lbs.	70-381 549 lbs.	Single Phase 1½ HP	Push Button Switch Only	TEFC	60-1725	230	Hand
	70-322 568 lbs.	70-352 566 lbs.	70-382 555 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	230	Hand
	70-323† 564 lbs.	70-353† 562 lbs.	70-383† 551 lbs.	Three Phase 1½ HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	Hand
	70-324 564 lbs.	70-354 562 lbs.	70-384 551 lbs.		Push Button Switch Only	TEFC	60-1725	200	Hand
	70-325 607 lbs.	70-355 605 lbs.	70-385 594 lbs.	Single Phase 1½ HP	Push Button Switch Only	TEFC	60-1725	230	Power
	70-326 613 lbs.	70-356 611 lbs.	70-386 600 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	230	Power
	70-327† 609 lbs.	70-357† 607 lbs.	70-387† 596 lbs.	Three Phase 1½ HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	Power
	70-328 609 lbs.	70-358 607 lbs.	70-388 596 lbs.		Push Button Switch Only	TEFC	60-1725	200	Power
Head Only (Less 20-761 Raising Mechanism) 	70-331 266 lbs.	70-361 264 lbs.	70-391 253 lbs.	Single Phase 1½ HP	Push Button Switch Only	TEFC	60-1725	230	Hand
	70-332 272 lbs.	70-362 270 lbs.	70-392 259 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	230	Hand
	70-333† 268 lbs.	70-363† 266 lbs.	70-393† 255 lbs.	Three Phase 1½ HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	Hand
	70-334 268 lbs.	70-364 266 lbs.	70-394 255 lbs.		Push Button Switch Only	TEFC	60-1725	200	Hand
	70-335 315 lbs.	70-365 313 lbs.	70-395 302 lbs.	Single Phase 1½ HP	Push Button Switch Only	TEFC	60-1725	230	Power
	70-336 317 lbs.	70-366 315 lbs.	70-396 304 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	230	Power
	70-337† 313 lbs.	70-367† 311 lbs.	70-397† 300 lbs.	Three Phase 1½ HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	Power
	70-338 313 lbs.	70-368 311 lbs.	70-398 300 lbs.		Push Button Switch Only	TEFC	60-1725	200	Power

Production tables have 1 7/8" coolant trough with two 3/4" pipe taps at rear.

* Variable Speed Models are furnished only with electricals factory mounted and wired, ready to run.

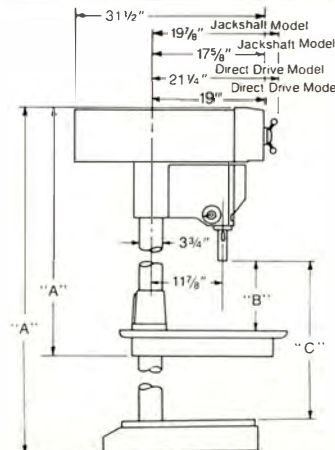
NOTE: To order multiple spindle set ups see Page K16 and K17. For complete description of Mechanical Powerfeeds, see Page K7, for Cyclematic Air Feed, see Page K18.

NOTE: Single phase electricals will be supplied wired for 230V only. Three phase electricals will be supplied wired for 230V, unless 460V is specified. Power Cord and Plug supplied for single phase only. Motors and Motor Controls for Delta Series 2000 Drilling Machines may be ordered unmounted. For listing, see Section R.

† No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to three phase catalog number for 230/460V electric option, in order to obtain Series 2000 20" Drilling Machine with "JIC" type electricals, factory wired to starter box.

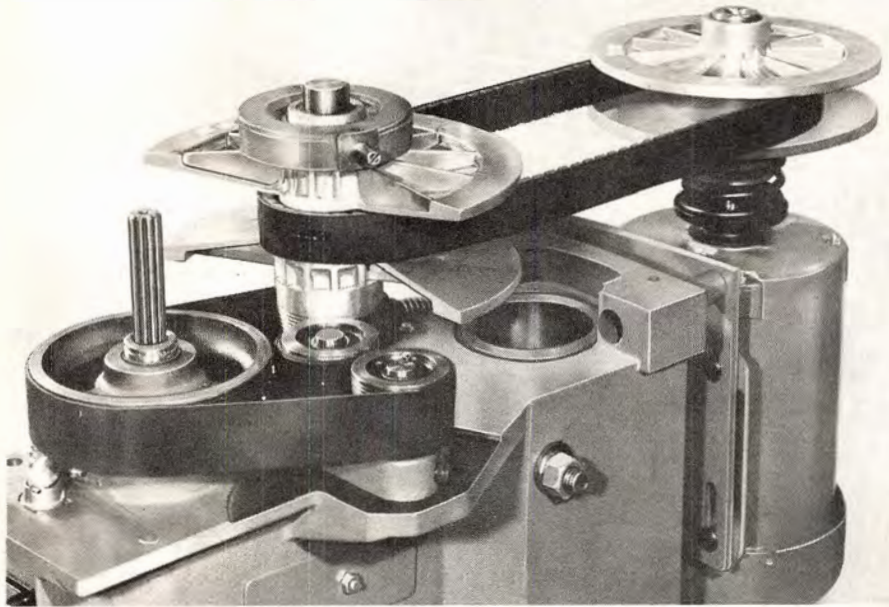
Dimensional Data

Series 2000 Drilling Machines (All Models)	"A" Overall Height	"B" Spindle to Table (Max.)	"C" Spindle to Table (Max.)
Production Table	55"	25 5/8"	—
Floor Type w/Production Table	75"	35 1/2"	44 1/2"
Floor Type w/Tilt Table	75"	34 1/4"	44 1/2"



Delta Series 2000 20" Drill Press (continued)

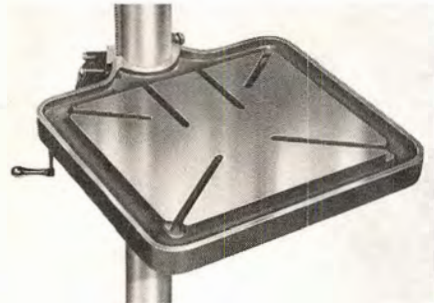
Delta Series 2000 20" Drill Press Quality Features



Unique, Full Power Transmission. Delta's pivot-type belt tensioning idler permits greater belt wrap on the jackshaft pulley. The 1½" wide, "Poly V" belt transmits full power from the motor to the spindle at all speeds while providing extra long belt life.



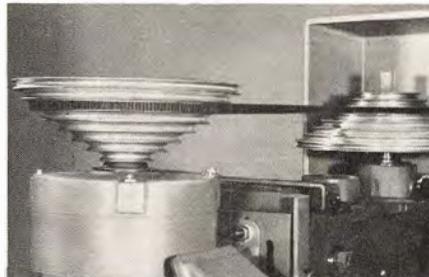
Fast Easy Speed Changes. Pivot-type motor mount on Series 2000 Step Pulley models makes belt changing fast and easy. You get longer belt life, too, because belt tension is fully released before changing from one pulley speed to another.



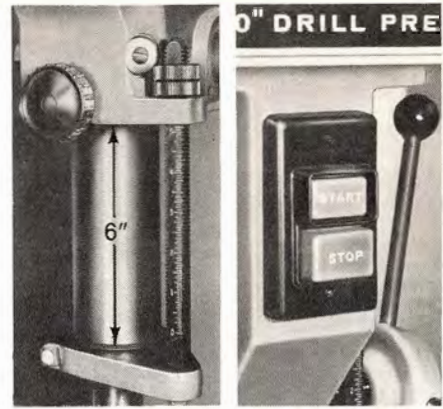
Specially Designed Production Table. Extra large table with 19¼ x 22" work surface, has both diagonal and parallel blind T-slots to facilitate clamping of jigs and fixtures.



Choice of Three Extra Wide Speed Ranges. Only the Delta Series 2000 Variable Speed Drilling Machine gives you a 10-to-1 speed ratio in three model variations with full power at the spindle at all speeds! You get the exact speed range you need for every drilling job—375 to 3750 RPM—200 to 2000 RPM—or 125 to 1250 RPM.

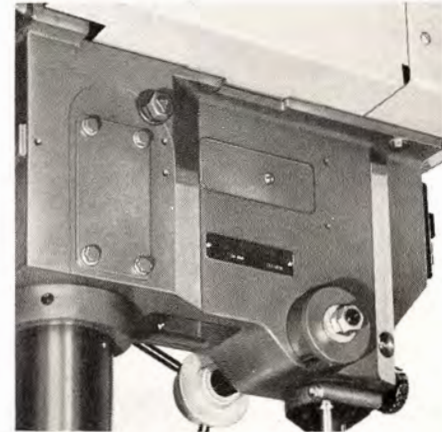


Exclusive Eight-Speed Range. The Delta Step Pulley Model is the only machine in its size that offers eight speeds with full HP at the spindle at all speeds! This is because Delta uses a standard 1725 RPM, single-speed dual-voltage motor. You get eight selected speeds in any of three speed ranges.



(Left) Big Quill Travel. Provides a full 6" stroke—ample capacity for skip and gang drilling, counterboring and reaming large work. Note exceptionally large 2¾" diameter quill.

(Right) Exclusive Delta Safety Control Station. Series 2000 Drilling Machines offer a low 24 volts at the push button control station for extra operator safety. Magnetic control system provides on-off control, low-voltage, no-voltage (when power is interrupted, machine can be started only by pressing start button), and motor overload protection. On three phase systems, overload protection is provided on all three legs.



Massive Head Construction. The head on the Series 2000 Drilling Machine is a rugged, one-piece casting more than 10" deep x 6" wide. This superior construction provides maximum rigidity, resulting in greater accuracy at the spindle.

Delta Quality Extras

Eight Ball Bearings rigidly support variable speed drive and spindle on speed reduction models.

Ten-Spline Spindle is ¾" in diameter for greater torque transmission.

Large 2¾" Diameter Quill is supported by three precision bored lands in head, providing extra smooth travel. Two 90°, individually adjustable plugs assure continued quill accuracy, even after long use.

Quill Return Spring Adjustment can be safely and easily set in seconds to keep production moving.

Long Columns provide extra big capacity for large work.

Delta Mechanical Power Feed

Designed for use with Delta 20" and 17" Drill Presses

Increases Production—The Delta Mechanical Power Feed is not subject to slowdowns due to operator fatigue. Because of the wide range of feeds available, Delta Drilling Machines, when equipped with this efficient power feed, are well suited for both small and large hole drilling.

Saves on Labor Costs—Easy to operate, the Delta Mechanical Power Feed is designed to free the operator for secondary operations.

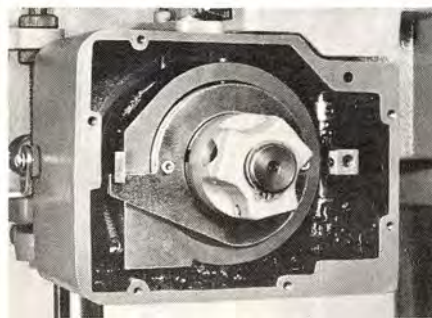
Improves Quality—Engineered feeds and speeds are *maintained* to produce holes that are round, true to size and depth, with a high quality finish.



Check These Delta Mechanical Power Feed User Benefits:

- Provides fast, variable feed rate selection from .003 to .018 ipr.
- Frees operator for secondary operations.
- Lets operator run several machines at one time.
- Reduces operator fatigue, increasing safety.
- Keeps quality work up, rejects down.
- Increases tool life.
- Reduces drill breakage.
- Can be operated by less experienced operators.

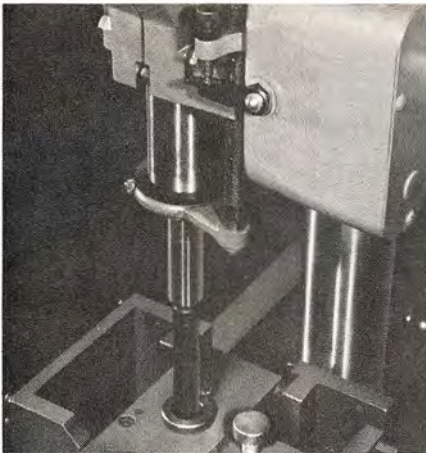
The Delta Power Feed combines mechanical simplicity with advanced features for long life and operational ease with safety!



Simple, Rugged Construction. Assures long, trouble-free performance. Side-mounted 3-spoke hand wheel permits fast feeding to work piece, power feeding through cycle, automatic disengagement of power feed and retraction of quill to start position.



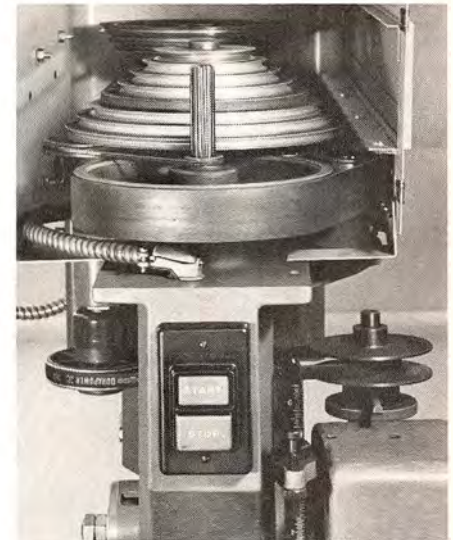
Quick Feed Rate Selection. You can quickly select any feed rate between .003 and .018 ipr. Dial the exact feed required while the machine is running.



Automatic Quill Return. With the Delta Mechanical Power Feed, the drill stops momentarily at the desired depth, cleans the hole, and *automatically* returns. You pay nothing extra for this built-in feature.



Wide Feed Range. Variable rate power feed provides a feed range of 6 to 1 (.003 to .018 ipr). Within the range, any feed may be selected versus a choice of only three to five selections on step pulley type feeds. Quill stroke is 6" on 20" models; 5" on 17" models.



Perfected Drive System. Special 5M belt transmits motor power from spindle pulley to jackshaft, then to adjustable, variable speed pulley on power feed. Maximum power is transmitted by the power feed worm gear drive. Both worm and worm gear are oil-bath lubricated for long life.

Delta 17" Drill Presses

Choose from more than 70 models in Step Pulley or Variable Speed with option of Hand, Power or Air Feed!

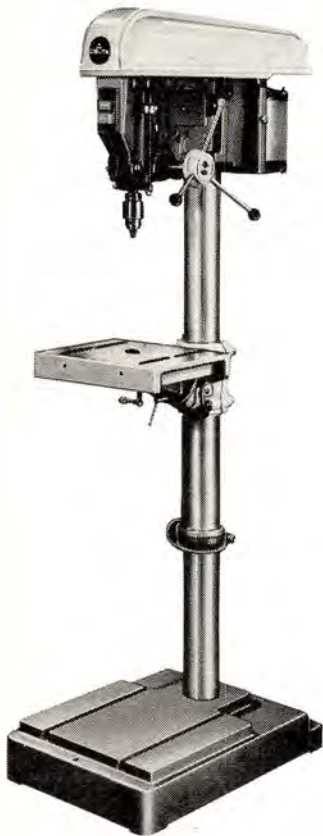
In the tool room, experimental department, machine or model shop, Delta 17" Drill Presses will meet your most demanding requirements.

They are the finest machines ever offered in their class. Here's why: only Delta Variable Speed 17's provide a 12-to-1 speed ratio, enabling you to do superior work with almost any material. Only Delta 17's make available a unique Double Spindle eliminating spindle whip and providing greater accuracy. Only Delta makes six interchangeable spindle adapters available to make 17's unsurpassed in their ability to do many different jobs.

Now, if sustained production is vital to your operation, consider equipping Delta 17's with their Mechanical Power Feed. It keeps production moving because it won't slow down due to operator fatigue.

If you prefer, you can automate Delta 17's with their Cyclematic Air Feed. It's a compact power/control unit that adds speed, power and positive control to your operation automatically.

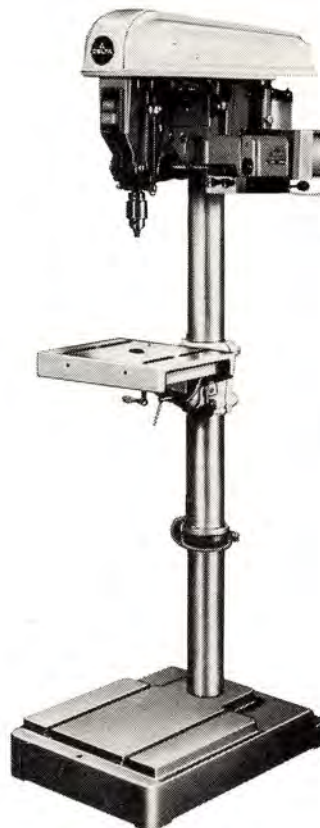
You get many options and advantages with low-cost Delta 17" Drill Presses. This could be the right time to add them to your operation!



Five-Step Pulley Floor Model shown with tilting table and Accessory 15-830 Key Chuck, which requires 17-882 Spindle Assembly.



Variable Speed Floor Model shown with production table, No. 2 M.T. spindle and accessory Vari-Rate Mechanical Power Feed. Also available with tilting table.



Five-Step Pulley Floor Model shown with accessory 20-601 Cyclematic Air Feed and 15-830 Key Chuck, which requires 17-882 Spindle Assembly.



Variable Speed Floor Model shown with accessory 20-601 Cyclematic Air Feed.



Single spindle floor models and all electrical kits are certified in Canada

Machine Data

Capacities:

Key chuck 0 to 1/2" (0 to 12.7 mm)
 Diameter hole in steel 1 1/16" (17.5 mm)
 Diameter in cast iron 7/8" (22.2 mm)

Quill:

Stroke—manual feed . . . 0 to 5" (0 to 127 mm)
 —power feed 1/2 to 5" (12.7 to 127 mm)
 Diameter—2 1/4" (57.2 mm)

Power Feed Models:

Feeds: Variable rate mechanical type—
 from .003 to .018 ipr (.075 to .45 mmpr)

Spindle Speeds:

Step pulley models:

With 1725 RPM Motor:
 High speed model . . . 700, 1150, 1750, 2750,
 and 4250 RPM
 Slo speed model 385, 600, 935, 1450
 and 2240 RPM

With 1140 RPM motor:

High speed model . . . 460, 760, 1140, 1815,
 and 2800 RPM
 Slo speed model 255, 400, 615, 960
 and 1475 RPM

Variable speed models:

With 1725 RPM motor . . . 350 to 4250 RPM
 With 1140 RPM motor . . . 230 to 2830 RPM

Column:

Diameter 3 1/2" (88.9 mm)
 Wall thickness 1 1/64" (4.37 mm)

Table Tilt:

Standard 90° L and R

Table Working Surface, Ground:

Standard 11 x 14" (279.4 x 355.6 mm)
 Production:
 Overall 16 x 20 1/2" (406.4 x 520.7 mm)
 Inside of coolant trough 12 1/2" x 17"
 (317.5 x 431.8 mm)
 T-slots (two on 9" centers) . . . 9/16" (14.3 mm)

Base Working Surface:

Floor model 13 1/2 x 16 1/4" (342.9 x 412.7 mm)

Overall Dimensions:

Bench type:

Height—step pulley . . . 49 3/8" (1254.1 mm)
 —variable speed 51 1/8" (1298.6 mm)
 Width—step pulley 23 1/2" (596.9 mm)
 —variable speed 23 5/8" (600.1 mm)
 Front to rear
 —step pulley 35 1/32" (900.9 mm)
 —variable speed 36 3/8" (923.9 mm)

Floor Type (with production table):

Height—step pulley 70" (1778.0 mm)
 —variable speed 71 3/4" (1822.5 mm)
 Width—step pulley 18 1/4" (463.6 mm)
 —variable speed 20 1/2" (520.7 mm)
 Front to rear
 step pulley 32 1/32" (821.5 mm)
 —variable speed 32 3/8" (822.3 mm)

Motor Plate: Accommodates NEMA 143T, 145T and 182 frame motors.



Five-Step Pulley Floor Model shown with hand feed with No. 2 M.T. spindle and extra large production table. Spacious 23 3/8 x 36" table working surface makes machine especially suited for handling large dies, jigs, fixtures and patterns. Increases efficiency while stepping up production. An excellent unit for the tool and die shop, machine shop and pattern shop.



Variable Speed Multiple Spindle Model Can be ordered custom assembled (either at the factory or in your shop) using any combination of Step Pulley or Variable Speed Heads with any number of spindles from one to a drill press a block long if desired. See Pages K 16 and K 17 for ordering.

All models can be furnished with a choice of three types of feed—Hand, Vari-Rate Mechanical Feed or Cyclematic Air Feed.

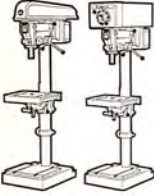
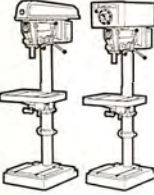

Delta 17" Drill Presses (continued)

Catalog Listing Single Spindle Models—Step Pulley and Variable Speed*—Hand and Power Feed

Complete 17" Drill Presses. All models include belt and pulley guard, belt and motor pulley (7/8" bore), self-locking depth stop, depth gage, motor and controls (except

Nos. 17-410, 17-440, 17-420, 17-450, 17-430 and 17-460, which do not include motor and controls). Table raising mechanism and safety collar for head are supplied on single

spindle floor models. Head raising mechanism is supplied on multiple spindle models only.

Type	Model Number			Hand or Power Feed					
	No. 2 Morse Taper Sio Speed	No. 2 Morse Taper High Speed	No. 2 Morse Taper Variable Speed	Motor	Motor Control	Motor Enclosure	Hertz And Motor RPM	Motor Voltage	Feed
Floor Model Standard Tilting Table 	17-410 300 lbs.	17-440 300 lbs.	—	None	—	—	—	—	—
	17-411 361 lbs.	17-441 361 lbs.	17-521 391 lbs.	Single Phase 1 HP	Push Button Switch Only	TEFC	60-1725	115/230	Hand
	17-412 367 lbs.	17-442 367 lbs.	17-522 397 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230	Hand
	17-413† 357 lbs.	17-443† 357 lbs.	17-523† 387 lbs.	Three Phase 1 HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	Hand
	17-414 357 lbs.	17-444 357 lbs.	17-524 387 lbs.		TEFC	60-1725	200	Hand	
	17-415 406 lbs.	17-445 406 lbs.	17-525 436 lbs.	Single Phase 1 HP	Push Button Switch Only	TEFC	60-1725	115/230	Power
	17-416 412 lbs.	17-446 412 lbs.	17-526 442 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230	Power
	17-417† 402 lbs.	17-447† 402 lbs.	17-527† 432 lbs.	Three Phase 1 HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	Power
17-418 402 lbs.	17-448 402 lbs.	17-528 432 lbs.	TEFC		60-1725	200	Power		
Floor Model Production Table 	17-420 312 lbs.	17-450 312 lbs.	—	None	—	—	—	—	—
	17-421 393 lbs.	17-451 373 lbs.	17-531 409 lbs.	Single Phase 1 HP	Push Button Switch Only	TEFC	60-1725	115/230	Hand
	17-422 379 lbs.	17-452 379 lbs.	17-532 415 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230	Hand
	17-423† 369 lbs.	17-453† 369 lbs.	17-533† 405 lbs.	Three Phase 1 HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	Hand
	17-424 369 lbs.	17-454 369 lbs.	17-534 405 lbs.		TEFC	60-1725	200	Hand	
	17-425 418 lbs.	17-455 418 lbs.	17-535 454 lbs.	Single Phase 1 HP	Push Button Switch Only	TEFC	60-1725	115/230	Power
	17-426 424 lbs.	17-456 424 lbs.	17-536 460 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230	Power
	17-427† 414 lbs.	17-457† 414 lbs.	17-537† 450 lbs.	Three Phase 1 HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	Power
17-428 414 lbs.	17-458 414 lbs.	17-538 450 lbs.	TEFC		60-1725	200	Power		
Head Only 	17-430 99 lbs.	17-460 99 lbs.	—	None	—	—	—	—	—
	17-431 160 lbs.	17-461 160 lbs.	17-541 188 lbs.	Single Phase 1 HP	Push Button Switch Only	TEFC	60-1725	115/230	Hand
	17-432 166 lbs.	17-462 166 lbs.	17-542 194 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230	Hand
	17-433† 156 lbs.	17-463† 156 lbs.	17-543† 184 lbs.	Three Phase 1 HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	Hand
	17-434 156 lbs.	17-464 156 lbs.	17-544 184 lbs.		TEFC	60-1725	200	Hand	
	17-435 205 lbs.	17-465 205 lbs.	17-545 233 lbs.	Single Phase 1 HP	Push Button Switch Only	TEFC	60-1725	115/230	Power
	17-436 211 lbs.	17-466 211 lbs.	17-546 239 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230	Power
	17-437† 201 lbs.	17-467† 201 lbs.	17-547† 229 lbs.	Three Phase 1 HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	Power
	17-438 201 lbs.	17-468 201 lbs.	17-548 229 lbs.		TEFC	60-1725	200	Power	

Production table floor models include coolant trough with 3/4" pipe tap at rear.

* Variable Speed Models are furnished only with electricals factory mounted and wired, ready to run. Step Pulley Models will be furnished less electricals, if desired.

NOTE: To order multiple spindle set ups see Page K16 and K17. For complete description of Mechanical Powerfeeds, see Page K7, for Cyclematic Air Feed, see Page K18.

NOTE: Single phase electricals will be supplied wired for 115V unless 230V is specified. Three phase electricals will be supplied wired for 230V, unless 460V is specified. Power Cord

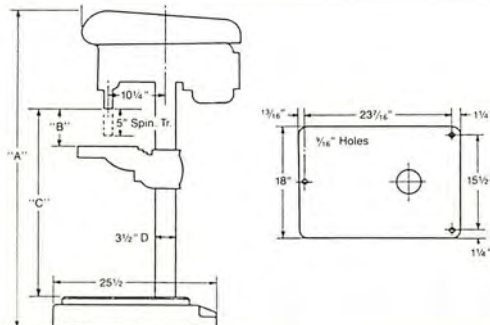
and Plug supplied for single phase only. Motors and Motor Controls for Delta 17" Drill Presses may be ordered unmounted. For listing, see Section R.

To obtain 1140 RPM Motor in place of standard 1725 RPM Motor, order Catalog No. 49-006 for single phase and Catalog No. 49-007 for three phase, in addition to complete machine and electricals as listed above.

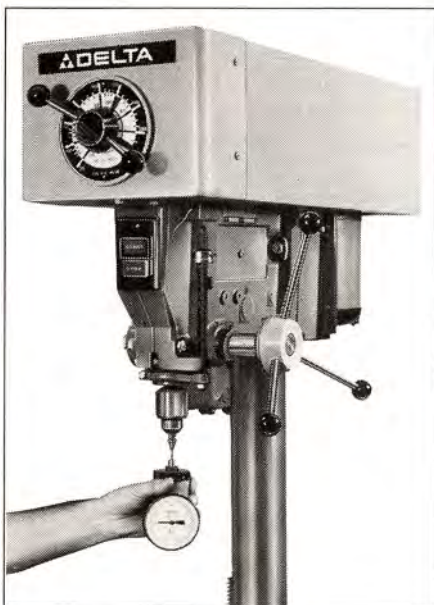
†No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to Three Phase Catalog Number for 230/460V Electric Option in order to obtain 17" Drill Press with "JIC" type electricals factory wired to starter box.

Dimensional Data

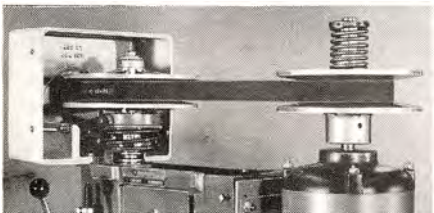
17" Step Pulley and Variable Speed Drill Presses	Model (Step Pulley or Var. Speed)	No. 2 M. T. Models		
		"A" Overall Height	"B" Spindle to Table (Max.)	"C" Spindle to Base (Max.)
Production Table	SP	49 5/8"	25 3/4"	—
	VS	51 1/8"	25 3/4"	—
Floor Type w/Tilting Table	SP	70"	34 3/4"	45 3/4"
	VS	71 3/4"	34 3/4"	45 3/4"
Floor Type w/Production Table	SP	70"	33"	45 3/4"
	VS	71 3/4"	33"	45 3/4"



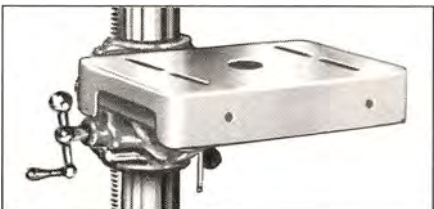
Delta 17" Drill Press Quality Features



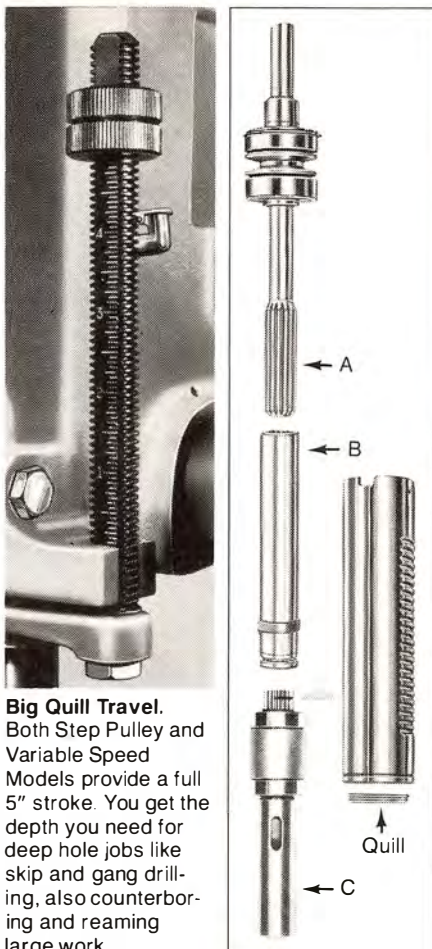
Widest, Test-Proven Speed Range. You can prove the tremendous 12-to-1 speed ratio of the Delta 17" Variable Speed Drill Press by actual tachometer test. You get the exact speed you need for every kind of drillable material—350 to 4250 RPM with a 1725 RPM motor—230 to 2830 RPM with an 1140 RPM motor. Only Delta gives you a bonus of extra speeds in both the high and low speed range.



Efficient Variable Speed Drive. With less than one complete turn of the large speed control pilot wheel, you can select any speed instantly while the machine is running. A self-locking cam, plus a "snubber" feature, holds speed settings constant under all load conditions. Proper belt tension is automatically maintained for full power transmission.

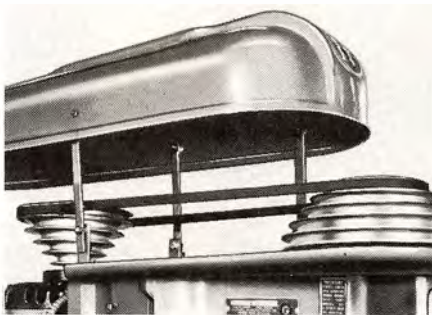


Modern Table Design. Slots and side ledges make clamping of work easy. Machined front apron has mounting holes. Ground index pin accurately locates table at the level position, and at 90° left tilt or 90° right tilt positions.

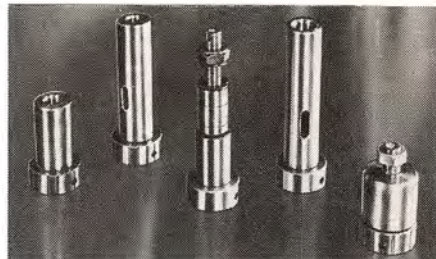


Big Quill Travel. Both Step Pulley and Variable Speed Models provide a full 5" stroke. You get the depth you need for deep hole jobs like skip and gang drilling, also counterboring and reaming large work.

Unique Double Spindle. Only Delta 17's offer a dual spindle design. Upper spindle (A) takes all belt pull and transmits torque through 16-splined free-floating drive sleeve (B) to rigid, short lower spindle (C). Four lubricated-for-life ball bearings (plus an extra bearing on variable speed models) are used—two on the upper spindle and two on the lower spindle. Short lower spindle design eliminates whipping and insures accuracy. You get chatter-free performance, even on special operations like reaming or countersinking.



Interference-Free Guard. Steel guard on Delta 17" Step Pulley Drill Presses swings up high and back, while three specially designed supports and a stop hold guard in desired "up" position. With all interference practically eliminated, operator makes belt and speed changes quickly. Built-in clips automatically lock guard in place when closed.



Unmatched Versatility. When Delta 17" Drill Presses are equipped with accessory 17-882 Spindle, any of six interchangeable spindle adapters may be used for increased job performance. These spindle adapters adapt the 17" Drill Press in seconds for operations varying from drilling to wood planing or routing, including counterboring, reaming, spot facing, sanding and mortising, as well as buffing and many other operations.

Delta Quality Extras

Perfected Motor Mount. Specially designed, pivot type motor mount on Delta 17" Step Pulley Drill Presses assures longer belt life because belt tension is fully released before changing from one pulley speed to another.

Quick conversion pulleys on step pulley models may be quickly changed to go from high to slow speeds or vice versa.

Heavy duty base has a spacious 13 $\frac{3}{4}$ x 16 $\frac{3}{16}$ " work surface, together with T-slots for clamping jigs and fixtures.

Quill is rigidly supported by 3 precision-bored lands in the head, providing extra smooth travel.

Rubber cushion ring absorbs shock between head and quill collar, or mortising chisel holder, while garter spring holds these parts on quill with light clamping pressure. This avoids quill distortion and prolongs bearing life.

Handy, self-closing oil cup permits single point lubrication of quill surface and pinion shaft.

All heads are machined, ready for mounting rack and pinion type raising mechanism.

Delta 6" Stroke 15" Drill Presses

Choose from 32 models in step pulley or variable speed, bench or floor type, with hand feed or Cyclematic air feed (accessory)!

Now! you can overcome the squeeze on your profits due to higher material, labor and marketing costs. That's by cutting costs at the only remaining level—the production line.

Delta's modern 15" drill presses—"6 PLUS 6" and "VS6"—make such production savings possible through their exceptional capacity and versatility. They provide the *extra wide* range of speeds needed for drilling every-

thing from hardened tool steel to aluminum, plastic and wood. They offer the *extra drilling depth* required for deep-hole applications like skip and gang drilling—also the extra stroke necessary for clearing jigs and fixtures.

For automated set-ups, just add the Delta Cyclematic Air Feed. It will help produce even greater savings in your operation.

See the cost saving "6 PLUS 6" and "VS6" in action today!



6-Step Pulley 6" Stroke Floor Model shown with production table and key chuck spindle. Available with tilting table on both "6 PLUS 6" and "VS6" Models.

Variable Speed 6" Stroke Floor Model shown with tilting table and key chuck spindle. Available with production table on both "6 PLUS 6" and "VS6" Models.

Variable Speed Floor Model shown with production table, key chuck spindle and Cyclematic Air Feed.

6-Step Pulley 6" Stroke Floor Model shown with production table, key chuck spindle and Cyclematic Air Feed.

Machine Data

Capacities:

Key chuck (w/std. Jacobs #33 taper) .0 to 1/2"
 (0 to 12.7 mm)
 Diameter hole in cast iron 5/8" (15.9 mm)
 Diameter hole in steel 1/2" (12.7 mm)

Quill:

Stroke 6" (152.4 mm)
 Diameter 2" (50.8 mm)

Spindle Speeds ("6 PLUS 6"):

With 1725 RPM motor: 425, 600, 1100, 2050,
 3900 and 5500 PRM
 With 1140 RPM Motor: 280, 395, 725, 1355,
 2575 and 3635 RPM

Spindle Speeds ("VS6"):

With 1725 RPM motor 450 to 4700 RPM
 With 1140 RPM motor 300 to 3100 RPM

Column:

Wall thickness 5/32" (4 mm)
 Diameter 2 3/4" (69.9 mm)

Table Tilt:

Standard 90° L and R

Table Working Surface, Ground:

Tilting 11 x 14" (279.4 x 355.6 mm)
 Production (overall) 15 1/2 x 21 1/2"
 (393.7 x 546.1 mm)
 Production (inside of coolant trough) 12 x 18"
 (304.8 x 457.2 mm)

Base Working Surface:

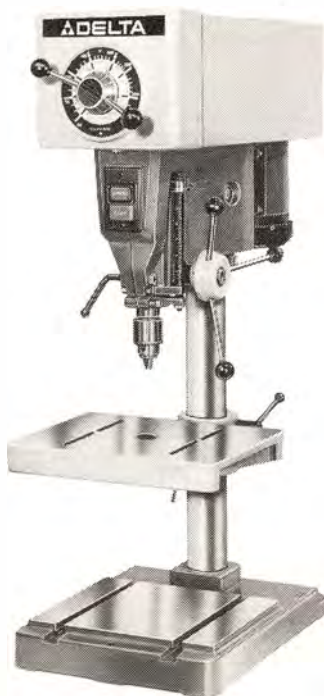
Bench type, ground,
 (9/16" T-slots on 8" centers) . . 10 1/4 x 12 3/4"
 (260.4 x 323.9 mm)
 Bench type, ground, (with coolant trough) . . .
 14 x 16" (355.6 x 406.4 mm)
 Floor type, (9/16" (14.29 mm) T-slots on
 8" (203.2 mm) centers 11 1/4 x 14"
 (285.8 x 355.6 mm)

Overall Dimensions:

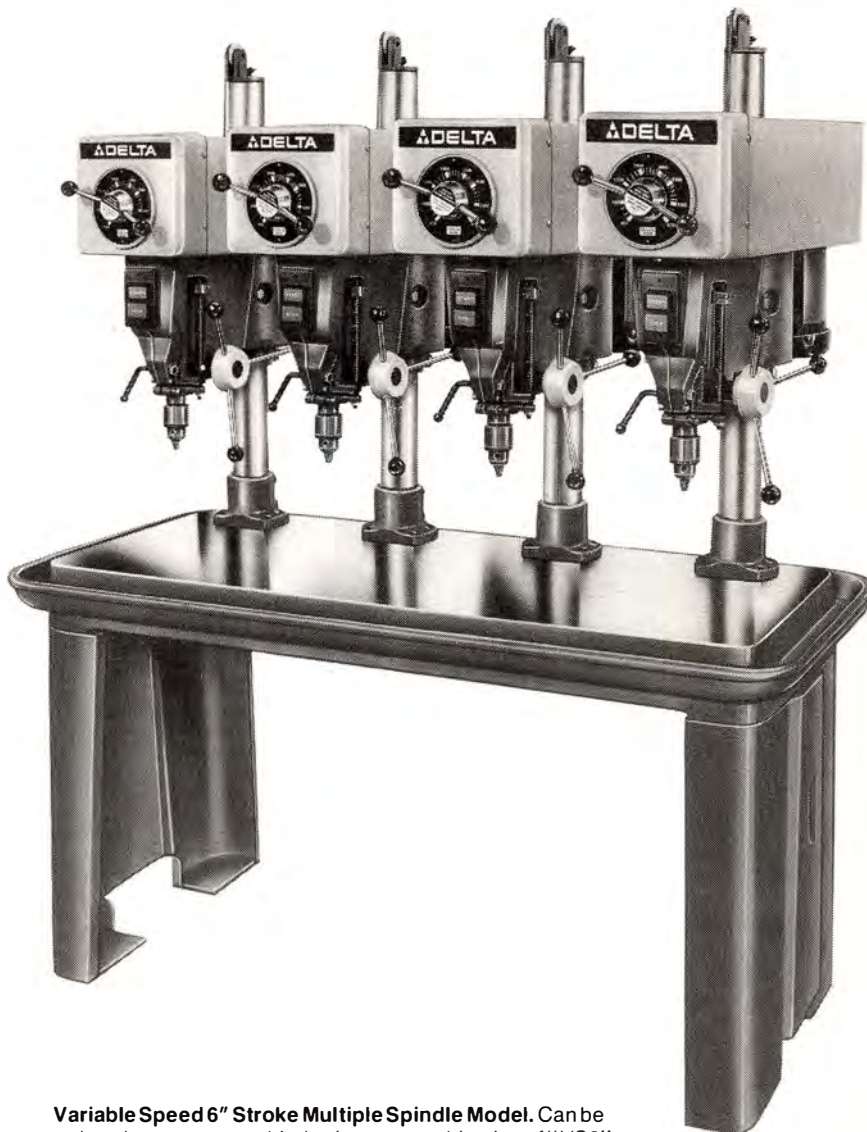
Bench model (with tilting table):
 Height:
 "6 PLUS 6" 40" (1016 mm)
 "VS6" 42 1/2" (1079.5 mm)
 Width 14" (355.6 mm)
 Front to rear:
 "6 PLUS 6" 25 1/8" (638.2 mm)
 "VS6" 27 7/8" (708 mm)
 Floor model:
 Height:
 "6 PLUS 6" 71 1/2" (1816.1 mm)
 "VS6" 74" (1879.6 mm)
 Width (tilting table) 15 1/2" (393.7 mm)
 Width (production table) . . 21 1/2" (546.1 mm)
 Front to rear:
 "6 PLUS 6" 26" (660.4 mm)
 "VS6" 27 7/8" (708 mm)

Motor:

Accommodates NEMA 56 frame motors



Variable Speed 6" Stroke Bench Model
 shown with tilting table and key chuck
 spindle.



Variable Speed 6" Stroke Multiple Spindle Model. Can be
 ordered custom assembled using any combination of "VS6" a
 "6 PLUS 6" Heads with any number of spindles from one to a
 drill press a block long if desired. See Pages K16 and K17 for ordering.



All Models, except 15-220, 15-230, 15-260 and 15-270, and all electrical kits are certified in Canada.

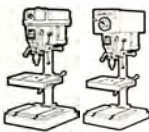
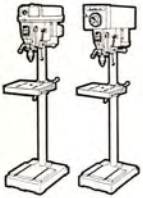
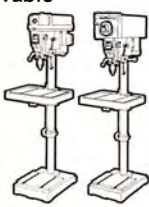
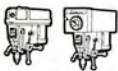
Delta 6" Stroke 15" Drill Presses

Catalog Listing Single Spindle 6-Step Pulley and Variable Speed Models

Complete 6" Stroke 15" Drill Presses. All models include belt and pulley guard, belt and motor pulley (supplied with 5/8" bore unless 1/2" bore is specified), self locking

depth stop, depth gage, 65-104 self-ejecting chuck key, motor and controls (except Nos. 15-220, 15-230, 15-260 and 15-270, which do not include motor and controls). Floor

models include No. 15-010 Safety Collar for head. Production table floor models include No. 15-008 Table Raising Mechanism.

Type	Model Number		Hand Feed—1/2" Key Chuck				
	6-Step Pulley	Variable Speed	Motor	Motor Control	Motor Enclosure	Hertz And Motor RPM	Motor Voltage
Bench Model Standard Tilting Table 	15-220 167 lbs.	—	None	—	—	—	—
	15-221 198 lbs.	15-321 216 lbs.	Single Phase 3/4 HP	Push Button Switch Only	TEFC	60-1725	115/230
	15-222 202 lbs.	15-322 220 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230
	15-223† 202 lbs.	15-323† 220 lbs.	Three Phase 3/4 HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460
	15-224 202 lbs.	15-324 220 lbs.		TEFC	60-1725	200	
Floor Model Standard Tilting Table, 	15-230 190 lbs.	—	None	—	—	—	—
	15-231 221 lbs.	15-331 241 lbs.	Single Phase 3/4 HP	Push Button Switch Only	TEFC	60-1725	115/230
	15-232 225 lbs.	15-332 245 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230
	15-233† 225 lbs.	15-333† 245 lbs.	Three Phase 3/4 HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460
	15-234 225 lbs.	15-334 245 lbs.		TEFC	60-1725	200	
Floor Model Production Table 	15-260 248 lbs.	—	None	—	—	—	—
	15-261 279 lbs.	15-341 296 lbs.	Single Phase 3/4 HP	Push Button Switch Only	TEFC	60-1725	115/230
	15-262 283 lbs.	15-342 300 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230
	15-263† 283 lbs.	15-343† 300 lbs.	Three Phase 3/4 HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460
	15-264 283 lbs.	15-344 300 lbs.		TEFC	60-1725	200	
Head Only 	15-270 72 lbs.	—	None	—	—	—	—
	15-271 103 lbs.	15-351 125 lbs.	Single Phase 3/4 HP	Push Button Switch Only	TEFC	60-1725	115/230
	15-272 107 lbs.	15-352 129 lbs.		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230
	15-273† 107 lbs.	15-353† 129 lbs.	Three Phase 3/4 HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460
	15-274 107 lbs.	15-354 129 lbs.		TEFC	60-1725	200	

Production table floor models include 1 1/2" coolant trough with 3/8" pipe tap on each side.

* Variable Speed Models are furnished only with electricals factory mounted and wired, ready to run.

NOTE: To convert 15" Drill Press with 1/2" key chuck to No. 2 M.T. spindle, order No. 15-833 No. 2 M.T. adapter.

NOTE: To order multiple spindle setups, see Page K16 and K17. For complete description of Cyclematic Air Feed, see Page K18.

NOTE: Single phase electricals will be supplied wired for 115 V unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power

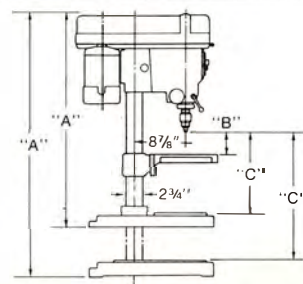
Cord and Plug supplied for single phase only. Motors and Motor Controls for Delta 6" Stroke 15" Drill Presses may be ordered unmounted. For listing, see Section R.

†No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to Three Phase Catalog Number for 230/460 V Electric Option, in order to obtain 15" Drill Press with "JIC" type electricals, factory wired to starter box.

NOTE: To obtain 1140 RPM 1/2 HP Motor in place of standard 1725 RPM 3/4 HP Motor, order Cat. No. 49-008 for single phase and Cat. No. 49-009 for three phase, in addition to complete machine and electricals as selected above. 1140 RPM 1/2 HP Motor supplies equivalent torque to 1725 RPM 3/4 HP Motor.

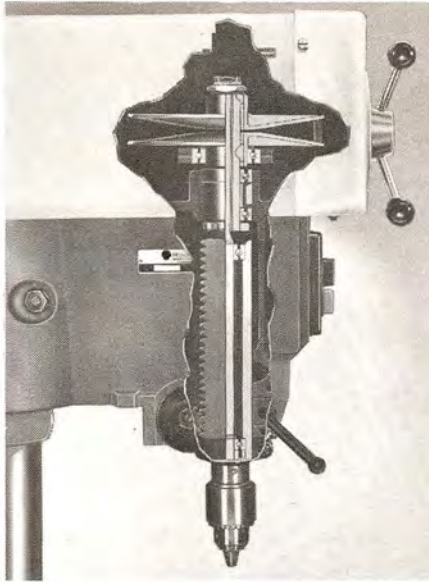
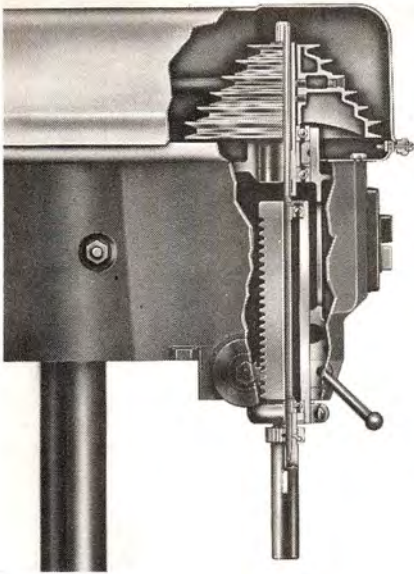
Dimensional Data

	Model	1/2" Key Chuck Models			With No. 2 Morse Taper Adapter		
		"A" Overall Height	"B" Spindle to Table (max.)	"C" Spindle to Base (max.)	"A" Overall Height	"B" Spindle to Table (max.)	"C" Spindle to Base (max.)
"6 PLUS 6" and "VS6" 15" Drill Presses							
Production Table	VS6 6+6	50 3/4 48 3/4	24 3/8 24 3/8	—	50 3/4 48 3/4	23 1/2 23 1/2	—
Bench Type with Standard Tilting Table	VS6 6+6	42 1/2 40	12 12	16 3/4 16 3/4	42 1/2 40	11 1/8 11 1/8	15 7/8 15 7/8
Floor Type with Production Table	VS6 6+6	74 71 1/2	37 1/2 37 1/2	47 47	74 71 1/2	36 5/8 36 5/8	46 1/8 46 1/8
Floor Type with Standard Tilting Table	VS6 6+6	74 71 1/2	43 3/8 43 3/8	47 47	74 71 1/2	42 3/4 42 3/4	46 1/8 46 1/8

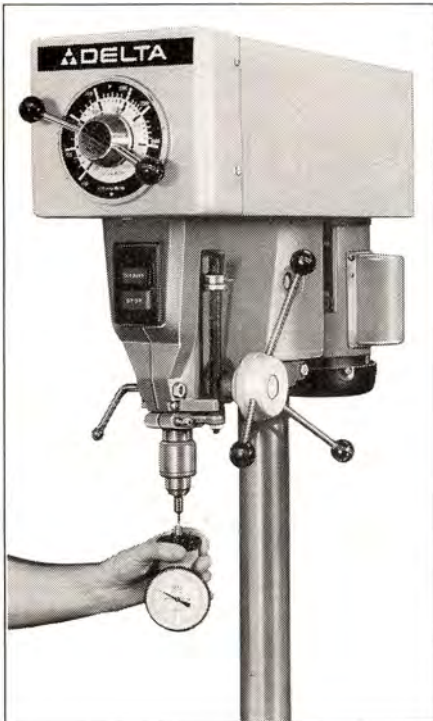


For complete range of accessories, see Page K21; for Cyclematic Air Feed, see Page K18.

Delta 6" Stroke 15" Drill Press Quality Features



Extra Large Spindle Bearings. "6 PLUS 6" and "VS6" spindle and spindle pulley are supported by four over-sized, preloaded, lubricated-for-life ball bearings. Pulley bearings are extra heavy duty and more than 2" in diameter. Massive quill is a full 2" in diameter. "VS6" has the same excellent construction, PLUS an extra bearing below the spindle pulley. This fine combination of features assures freedom from chatter; long, maintenance-free life and maximum pressure at the drill point.



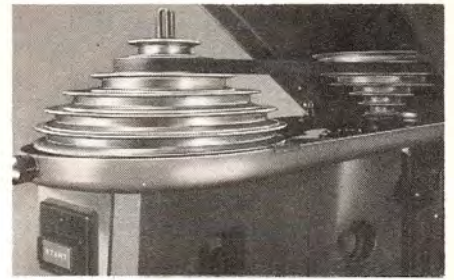
Wide, Test-Proven Speed Range. The Delta 15" Variable Speed Drill Press gives you a true 10-to-1 speed ratio, proven by actual test. You get the exact speed you need for every drilling job on any material—450 to 4700 RPM with a 1725 RPM motor—300 to 3100 with an 1140 RPM motor.



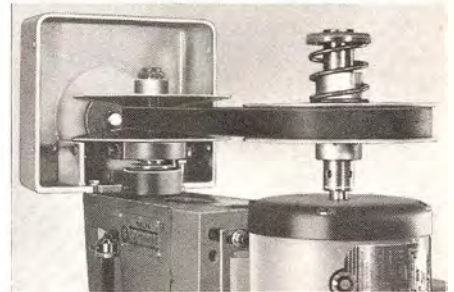
Quick-Release, Adjustable Motor Mount. Belt tension release is provided by the pivoting motor mounting plate which has a reverse, self-locking taper on the spring-loaded, rubber-tipped plunger that quickly restores correct belt tension.



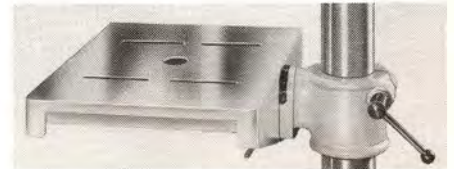
Extra Long Quill Travel. The "6 PLUS 6" and "VS6" provide a full "6" stroke. You get the extra depth you need for deep hole jobs like skip and gang drilling...PLUS, the extra stroke required for clearing jigs and fixtures.



Six Speeds. Only Delta's "6 PLUS 6" offers this unbelievably wide range of speeds with a low-cost 1725 RPM motor—425, 600, 1100, 2050, 3900 and 5500 RPM—11.8 to 1 speed ratio. You can choose an extra slow speed for drilling very hard materials...an extra fast speed for working soft materials...or an optimum speed for any size bit and material.



Efficient Variable Speed Drive. Less than one complete turn of the large speed control pilot wheel lets you select any spindle speed instantly while machine is running. A self-locking cam, plus a "snubber" feature, holds speed settings constant under all load conditions. Proper belt tension is automatically maintained for full power transmission.



Large 11 x 14" Tilting Table. Slots and side ledges make clamping of work easy. Tilt scale gives accurate readings to 90° right and left, and tapered, expanding bushing provides maximum gripping power for rigid positioning of table at any angle.

Delta Quality Extras

Multiple-spline drive provides positive torque transmission and exact spindle alignment, assuring less vibration, smooth operation and more power at the spindle.

Precision ground spindle and dynamically balanced motor and spindle pulleys.

Worm screw adjustment feature makes it easy to set the correct tension on the spindle return spring.

Delta "Mix or Match" Multiple Spindle Set-Ups

Custom design the multiple spindle drilling machine that best suits your needs!

It's easy to design your own multiple spindle drilling machine.

To determine the price of your drill press, simply add up all of the individual components. Assembly costs are included in the column, flange and raising assembly prices. Your multiple spindle drill press unit will be assembled at the factory.

Just follow these simple steps:

1. Pick the head(s) you desire (15", 17", 20") in Step Pulley or Variable Speeds, together with the appropriate electricals for each head. See appropriate product page for listings. For All Feed(s) add a 15-101 or 20-601 for each head desired. You may mix heads in any way you please.

2. Pick a Column/Flange and Counter-Balance or Raising Mechanism Assembly for each head.

3. Determine the spacing desired between each head (see chart below).

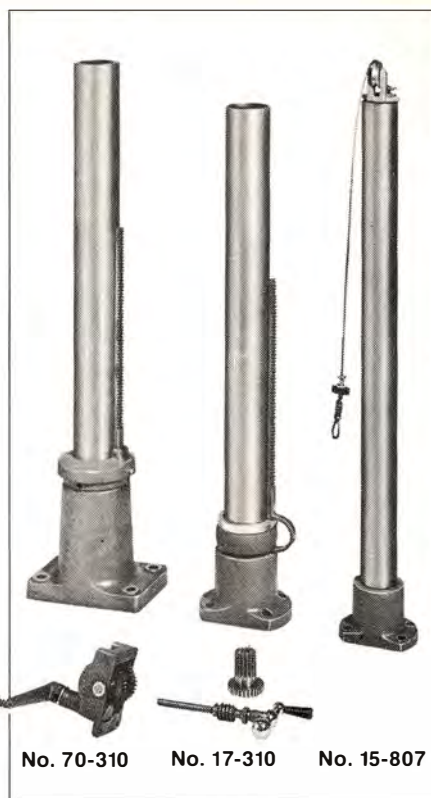
Minimum spacing between heads using LVC 24-Volt Control

Type of Head	Hand Feed	Air Feed	Mechanical Power Feed
20"	18"	23½"	23½"
17"	18"	23½"	23½"
15"	15"	18½"	N.A.

4. Total the distance between heads and add at least 15" more to determine minimum table length.

5. Pick the table(s) required to build the needed table length (see chart of tables for reference).

6. Pick the legs. Order a 50-399 Pair of Legs for 1, 2, 3 and 4-spindle set-ups. Add one more 50-506 Leg for each additional table section.



Column, Flange and Counter-Balance Assemblies for 15" Drill Presses

No. 15-807 Includes 15-805 2¾ x 38¾" (short) Column, 15-019 Flange with screws, and 15-030 Counterbalance Assembly complete. 34 lbs.

No. 15-808 Includes 15-806 2¾ x 65¼" (long) Column, 15-019 Flange with screws, and 15-030 Counterbalance Assembly complete. 43 lbs.

Column, Flange and Raising Mechanism Assemblies for 17" Drill Presses

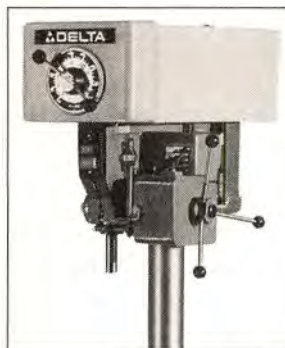
No. 17-310 Includes 17-764 3½ x 38½" (short) Column, 17-366 Flange with screws, and 17-801 Raising Mechanism Assembly complete. 40 lbs.

No. 17-311 Includes 17-763 3½ x 62" (long) Column, 17-366 Flange with screws, and 17-801 Raising Mechanism Assembly complete. 52 lbs.

Column, Flange and Raising Mechanism Assemblies for Series 2000 Drill Presses

No. 70-310 Includes 20-626 3¾ x 42" (short) Column, 20-624 Flange with screws, and 20-761 Head Raising Mechanism Assembly complete. 125 lbs.

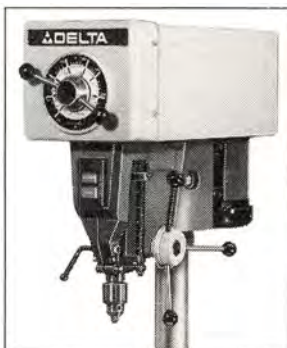
No. 70-311 Includes 20-627 3¾ x 66" (long) Column, 20-624 Flange with screws, and 20-761 Head Raising Mechanism Assembly complete. 160 lbs.



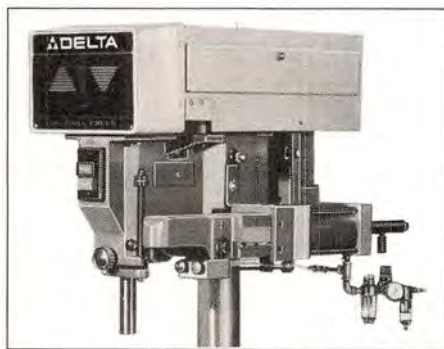
17" Variable Speed with Mechanical Feed



17" Step Pulley with Hand Feed



15" Variable Speed with Hand Feed



20" Step Pulley with Cyclomatic Air Feed



15" Step Pulley with Cyclomatic Air Feed

Tables and Legs



No. 15-153 Production Table, one piece for 1- and 2-spindle set-up. Ground work surface of 23 $\frac{3}{8}$ " x 36". Fits 50-399 Legs. 366 lbs.



No. 15-751 Production Table, end section, 23 $\frac{3}{8}$ " front to rear x 32 $\frac{1}{2}$ " left to right ground work surface with 1 $\frac{1}{2}$ " coolant trough and $\frac{3}{4}$ " pipe top at end. Use two 15-751 end sections for 3- and 4-spindle tables.



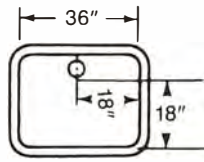
No. 15-155 Production Table, center section, 23 $\frac{3}{8}$ " front to rear x 30" left to right ground work surface with 1 $\frac{1}{2}$ " coolant trough. Use one, two or more center sections for 5- and 6-spindle or larger size tables.



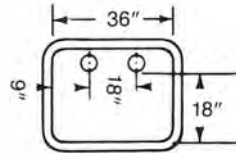
No. 50-399 Legs with
No. 15-153 Production Table

No. 50-399 Legs, steel, one pair, 27 $\frac{1}{2}$ " high for mounting Table 15-153 and Table Sections 15-155 and 15-751. 100 lbs.

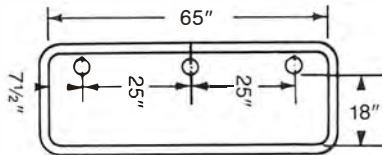
No. 50-506 Leg, steel, 27 $\frac{1}{2}$ " high for mounting production tables and sections as above. 50 lbs.



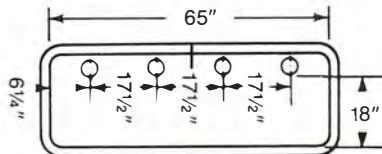
1 Spindle $\frac{3}{4}$ " pipe tap at rear



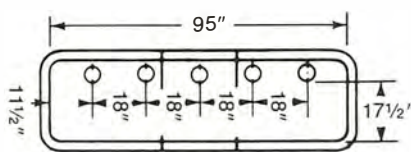
2 Spindle $\frac{3}{4}$ " pipe tap at rear



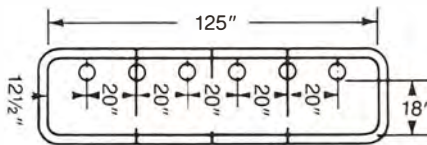
3 Spindle $\frac{3}{4}$ " pipe tap at each end



4 Spindle $\frac{3}{4}$ " pipe tap at each end

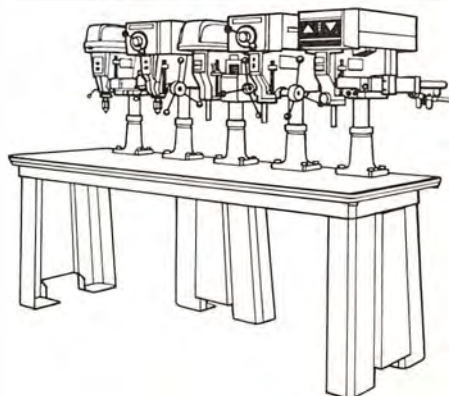


5 Spindle $\frac{3}{4}$ " pipe tap at each end



6 Spindle $\frac{3}{4}$ " pipe tap at each end

Typical Multiple Spindle Set-Up



Additional components for building 20", 17" and 15" Drill Press special set-ups

For 20" Drill Presses

No. 20-625 Column, steel, 3 $\frac{3}{4}$ x 33", with $\frac{1}{2}$ " wall. 47 lbs.

No. 20-626 Column, steel, 3 $\frac{3}{4}$ x 42", with $\frac{1}{2}$ " wall. 62 lbs.

No. 20-627 Column, steel, 3 $\frac{3}{4}$ x 66", with $\frac{1}{2}$ " wall. 97 lbs.

No. 20-628 Column, steel, 3 $\frac{3}{4}$ x 78", with $\frac{1}{2}$ " wall. 114 lbs.

No. 70-430 Safety Collar for supporting head or column of single spindle drill presses. 3 $\frac{1}{2}$ lbs.

No. 20-624 Flange, with screws, for mounting column on table (not for single spindle floor models). 44 lbs.

No. 20-623 Ball Bearing Carriage with 33" column for Overhead Drill Press. 126 lbs.

No. 20-661 Table Raising Mechanism. Includes ball bearing thrust collar, rack, gear assembly and crank. 19 lbs.

No. 20-761 Head Raising Mechanism. Includes ball bearing thrust collar, rack, gear assembly and crank. 19 lbs.

For 17" Drill Presses

No. 17-366 Flange, for mounting column on table, with screws (not for floor type). 10 lbs.

No. 17-764 Column, 3 $\frac{1}{2}$ " diameter by 38 $\frac{1}{2}$ " long. 20 lbs.

No. 17-763 Column, 3 $\frac{1}{2}$ " diameter by 62" long. 32 lbs.

No. 17-818 Column, 3 $\frac{1}{2}$ " diameter by 84" long. 46 lbs.

No. 17-635 Safety Collar for supporting head on column. 3 lbs.

No. 17-801 Raising Mechanism for head or table. Includes worm shaft, compound worm gear and pinion, crank handle, rack, thrust ball bearing and column collar. 10 lbs.

For 15" Drill Presses

No. 15-804 Column, 2 $\frac{3}{4}$ x 33 $\frac{3}{4}$ ", with $\frac{5}{32}$ " wall thickness. 13 lbs.

No. 15-805 Column, 2 $\frac{3}{4}$ x 38 $\frac{3}{4}$ ", with $\frac{5}{32}$ " wall thickness. 15 lbs.

No. 15-806 Column, 2 $\frac{3}{4}$ x 65 $\frac{1}{4}$ ", with $\frac{5}{32}$ " wall thickness. 24 lbs.

No. 15-810 Column, 2 $\frac{3}{4}$ x 78", with $\frac{5}{32}$ " wall thickness. 30 lbs.

No. 15-010 Collar, head or table support, for column. 2 lbs.

No. 15-019 Flange, for mounting column on table, with screws. 10 lbs.

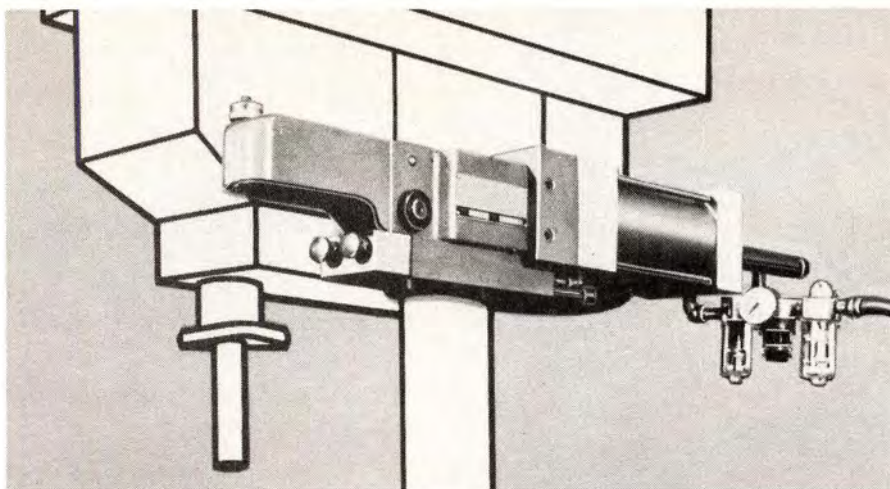
No. 15-030 Counterbalance, complete assembly includes spring, chain, column top casting, ball bearing roller and screws. Cannot be used with columns shorter than 38 $\frac{3}{4}$ ". 9 lbs.

Delta Cyclematic Air Feed System

If drill press output is bottlenecking your schedules, then consider Delta's Cyclematic Air Feed System – the low cost, fast and simple way to automate.

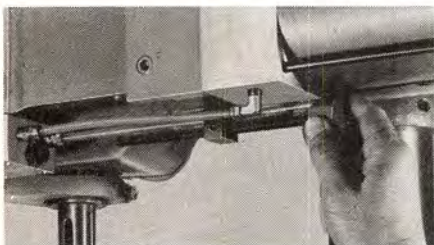
This entirely self-contained air logic system mounts with a single bracket on any 1 1/4" pinion shaft drill press. Only one 90-100psi air supply source is needed.

Cyclematic is a compact power/control unit built to add speed, power and positive control to the operation automatically. It permits you to free operators and machines for other work. It reduces operator fatigue, increases work quality, and cuts feed-rate error rejects. And Cyclematic's positive control extends tool life, too.

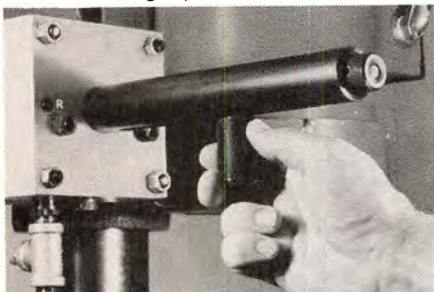


Speed, power, control in one package. At 100 psi, this air feed system delivers rapid approach and retract speeds of up to 700" per minute. Feed rates can be varied from 1" to 250" per minute. And you get more power for nesting additional drill spindles to drill heads. Two Cyclematic models deliver maximum thrusts of 675 lbs. and 1200 lbs. at 100 psi.

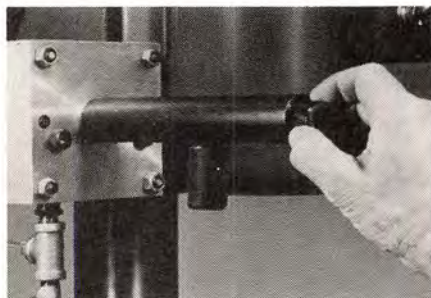
Here's why Cyclematic is a better Air Feed



Full Quill Travel. With this simple adjustment, the entire 0 to 6" quill travel is adjustable for the exact drilling depth desired.

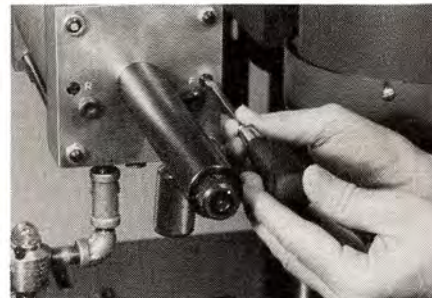


Rapid Travel Depth Control. Brings the drill bit rapidly into position with the workpiece and eliminates drilling air. Fast adjusting, rapid advance control can be set in only seconds for the desired depth of rapid travel. *No tools are required.*



Quick-Adjusting Hydraulic Feed Rate. Simply turn control clockwise to slow feed rate and counter-clockwise to increase feed rate. *No tools are required to make adjustments.*

Start and Emergency Retract; Dwell Control. Feed and retract buttons are conveniently located – up front – for safe and easy operation. Retract button provides an emergency stop anywhere in the cycle. Dwell time can be increased by turning screw clockwise and decreased by turning it counter-clockwise.



Rapid Approach and Retract. Rapid approach and retract speeds of quill can be easily adjusted to the rate desired. For example, retract speed can be reduced to a very slow rate for such operations as reading.

Low Noise Level. Two mufflers, one on each side of the piston, control the exhaust from both ends of the cylinder. Mufflers reduce noise level of Cyclematic Air Feed to meet OSHA standards.

Fast Set-ups. Feed can be advanced manually by means of a 3/8" square drive on outboard end of hub.

Cycle Completion Signal. Air outlet delivers positive pneumatic signal on cycle completion, allows integration of auxiliary equipment such as air chucks, air vises, clamping fingers or indexing tables.

Catalog Listing

Cyclematic Air Feed complete with filter, regulator and lubricator, ready to run. Unit fits Delta 20", 17" and 15" Drill Presses. Can be field mounted on any other drill press with a 1 1/4" pinion shaft. Mounting instructions for machines with other than 1 1/4" pinion shafts are included in the Operating Manual.

Catalog Number	Maximum Thrust	Recommended Drilling Capacity (Mild Steel)	Wt. Lbs.
20-601	1200 Lbs.	1"	40
15-101	675 Lbs.	1/2"	34

Machine Data

Maximum Stroke	6"
Pinion Rotation	.640°
Maximum Thrust*	
Cat. No. 20-601	1200 lbs.
Cat. No. 15-101	675 lbs.
Feed, infinitely variable*	1 to 250 per min.
Maximum Rapid Approach*	700" per min.
Depth Accuracy	.002"
Required Air Pressure	90-100 PSI
Air Inlet Size	1/4"-18 NPT
Recommended Hose Size	5/16" I.D.

* At 100 PSI air line pressure.

Accessories

No. 15-105 Foot Valve for remote control of air feeds. 5 1/2 lbs.

No. 15-103 Lubrication Gun for Delta Air Feeds. 1 lb.

Delta 16½" Drill Press

**Premium Quality.
Economical Price.**

An excellent choice for everything from general-purpose to high-volume drilling operations.

- Full ¾ HP, single phase induction motor for long-lasting, smooth performance
- Pivoting motor mount to maintain correct belt tension, facilitate speed changes
- 6-spline spindle for efficient torque transmission
- Adjustable, position locking depth stop for accurate depth measurement and repetitive drilling
- Swivel-type 12" x 12" tilting table with side ledges and diagonal slots for fast clamping of work
- Removable on-off toggle switch to prevent unauthorized use of machine
- Full belt guard for operator safety
- Three-spoke pilot wheel for operating convenience.



Delta Quality Features



Twelve Spindle Speeds. The right speed, from 250 to 3000 rpm, to handle a wide variety of drilling operations. Handy drill speed chart simplifies speed selection.

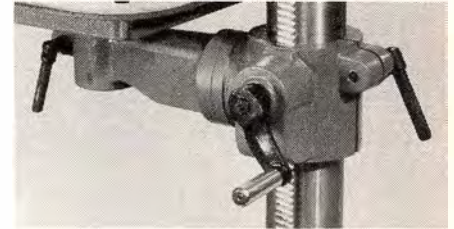
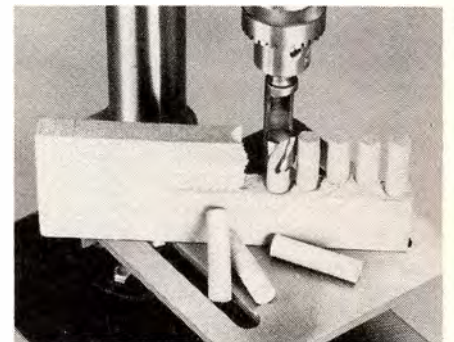


Table Raising and Lowering Mechanism. Included as standard equipment. Facilitates positioning of drill press table to suit different sized jobs.



Low Cost Accessories. Increase flexibility; permit you to do many extra jobs including mortising, sanding, plug and dowel cutting.

Catalog Listing



Complete 16½" Floor Model Drill Press with table raising mechanism, 0- 5/8" capacity key chuck and chuck key, taper shank adapter, belts and pulleys, motor and controls.

Catalog Number	Motor	Motor Control	Motor Enclosure	Hertz and MotorRPM	Motor Voltage	Shipping Wt./Lbs.
17-900	Single Phase ¾ HP	Toggle Switch w/Removable Lock-Out Key	GD	60-1720	115/230*	194

* Accessory Switch P/N 438-01-017-0141 Required for 230V operation.

Machine Data

Capacities:

- Key chuck (w/std. Jacobs #33 taper; #2MT adapter) 0 to 5/8" (0 to 15.9mm)
- Diameter hole in cast iron 5/8" (15.9mm)
- Diameter hole in steel 5/8" (15.9mm)
- Chuck to table (max.) 27" (685.8mm)
- Chuck to base (max.) 47" (1193.8mm)

Quill:

- Stroke 3.35" (85mm)
- Diameter 2.047" (52mm)

Spindle Speeds:

- With 1720 RPM motor 12 — 250, 360, 410, 540, 590, 650, 1090, 1280, 1450, 1820, 2180, 3000 RPM

Column Diameter 3.15" (80mm)

Table Working Surface 12" x 12" (304.8 x 304.8mm)

Base Working Surface 10¼" x 11½" (260.35 x 292.1mm)

Overall Dimensions:

- Width 12¾" (323.85mm)
- Front to rear 25¼" (641.35mm)
- Height: 66" (1676.4mm)

Delta Ram Type Radial Drill Press

Drills to center of a 60" circle, ... provides the performance and versatility of machines costing more than twice as much!

Ruggedly built, this economically-priced radial drill press offers the extras usually found only in heavy, fixed machinery:

Extra Drilling Capacity. You can take the drill head right to the work—tilt it up to 45° right or left—swivel the head 360° for operations either on or off the table.

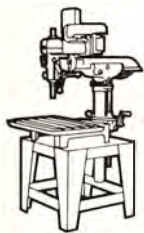
Extra Wide Speed Range. Built-in jack shaft assembly provides 16 different speeds from as low as 175 RPM to as high as 8200 RPM—the right speed for any job.

Extra Big Capacity. You get a long 42-inch column for extra spindle nose to table capacity; also a big 6" quill stroke with a ram travel of 17". This means you can handle even the BIGGEST jobs.

If you need a radial drill press that's ideal for rapid, precision drilling of large, heavy stock, sheet stock, panels and similar materials, ask for complete information on this Delta machine today!



Catalog Listing



Complete Ram Type Radial Drill Press with 6" spindle travel, No. 2 M.T. spindle, 42" column, 65-863 floor stand, head, jack shaft assembly, ram, cradle, column, table, raising mechanism, belt guards, motor pulley, 49-287 V-belt, 49-105 V-belt, motor and controls.

Catalog Number	Motor	Motor Control	Motor Enclosure	Hertz and Motor RPM	Motor Voltage	Shipping Wt./Lbs.
15-126	Single Phase 1/2 HP	24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	GD	60-1725	115/230	778
†15-127	Three Phase 1/2 HP	24V Push Button Station, Magnetic Starter, Transformer and 3-Leg/Overload Protection (LVC)	GD	60-1725	230/460	778
15-128			GD	60-1725	200	778

NOTE: Single phase electricals will be supplied wired for 115 V unless 230 V is specified. Three phase electricals will be supplied wired for 230 V unless 460 V is specified. Power cord and plug supplied for single phase only. Motors and Motor Controls for Delta Ram Type Radial Drill Presses may be ordered unmounted. For listing, see Section R.

NOTE: You can easily convert your No. 2 M.T. Spindle Unit to a 1/2" Key Chuck Model simply by removing the No. 2 M.T. Spindle Adapter and replacing it with a No. 15-830 1/2" Key Chuck. Order 15-830 Key Chuck and 15-838 Spanner Wrench separately.

†No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to three phase catalog number for 230/460V electric option, in order to obtain machine with factory mounted and wired "JIC" type electricals.

Machine Data

Capacities:

Key chuck (w/std. Jacobs #33 taper) .0 to 1/2"
(0 to 12.7 mm)
Diameter hole in cast iron 1/2" (12.7 mm)
Diameter hole in steel 3/8" (9.5 mm)
Ram travel, maximum 17" (431.8 mm)
Column to C of spindle:
Maximum (ram forward) 30" (762 mm)
Minimum (ram back) 13" (330 mm)
Spindle to table 31 1/16" to 24 3/16"
(77.79 x 514.36 mm)

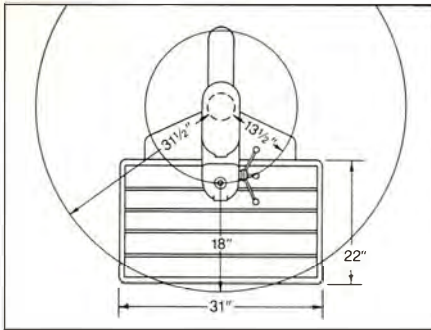
Vertical Travel of Head

Using Raising Mechanism 20" (508 mm)
Head Tilts 90° 45° left, vertical, 45° right
Quill:
Stroke 6" (152 mm)
Diameter 1 13/16" (45.97 mm)
Spindle Speeds 16
With 1725 RPM motor 175, 365, 380, 600,
695, 765, 1030, 1250, 1380, 1450,
2200, 2300, 2800, 4000, 4750, 8200 RPM
Column 3 3/4" (95.25 mm) diameter

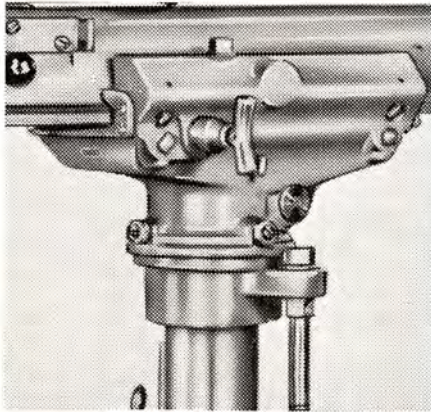
Table:

Ground work surface 26" (660 mm) wide x
18" (457 mm) deep
Four parallel 1/2" (12.7 mm) T-slots on
4" (101.6 mm) centers
1 3/4" (44.45 mm) coolant trough all around
with 1/2" (12.7 mm) pipe tap
Overall Dimensions:
Height 86" (2184 mm)
Width 33" (838 mm)
Front to rear 58" (1473 mm)

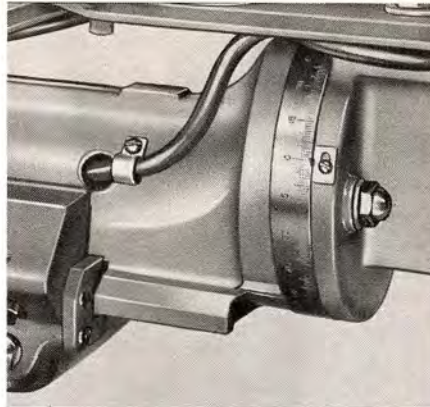
Delta Ram Type Radial Drill Press Quality Features



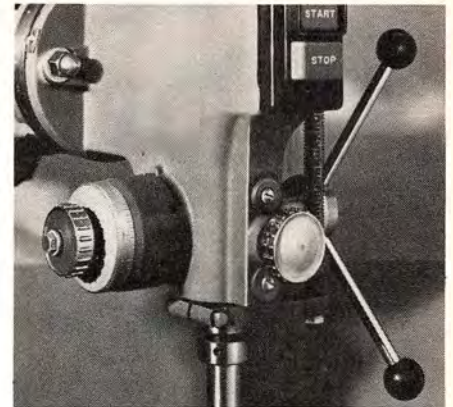
Wide Drilling Range for Full Versatility. The ram has a big 17" travel that permits drilling to the center of a 60" circle. Head, ram and cradle swing a full 360° around the column for drilling anywhere on the massive table or on work that must be kept on the floor.



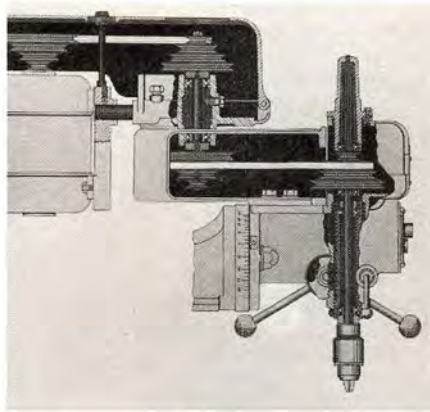
Ball Bearing Construction Facilitates Ram and Drill Head Movement. Cradle has eight ball bearings placed on an eccentric to permit take-up for wear and provide easy glide movement of ram. Thirty-eight ball bearings in support collar facilitate movement of drill head in a complete circle.



Head Tilt Adjustments Are Easily Made. Head tilts a full 45° right or left. Easy-to-read head tilt angle scale permits setting of head at exact angle desired. Double locks—one on each side of head—securely lock head to prevent angle deviation under heavy loads.



Convenient Controls for Extra Operating Ease. 6" spindle travel model has calibrated depth indicator which shows exact drill penetration. Also features a quill lock knob, two quill wear adjustment screws and an adjustable quill return spring.



Jack Shaft Assembly Provides Wide Multiple-Speed Range. The built-in ball bearing Jack Shaft assembly provides for easy selection of 16 different speeds from 175 to 8200 RPM with a 1725 RPM motor (115 to 5400 RPM with an 1140 RPM motor). You get the right speed for every drilling operation.



Massive Table—Convenient Head Raising Mechanism. Big 18 x 26" cast iron, machined table has four T slots and oil trough tapped to accommodate 1/2" pipe. Handle on right permits rapid raising or lowering of head mechanism.

Delta Drill Press Accessories

For All Delta Drill Presses



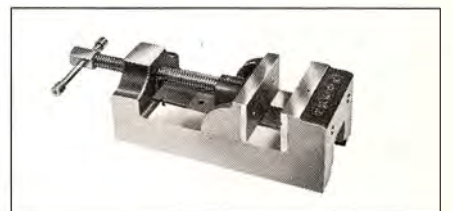
No. 24-902 Unvise. First truly universal vise for grinding, drilling and milling. Can be set at any angle desired. Vise can be returned exactly to its original setting for duplicate grinding. Each station has a 360° circular scale. 16 lbs.

Handy, Quick-Set Vises. Raise to any angle. Side of vise accurately graduated for angle work. Accurately machined with base, body and sliding jaws of semi-steel—clamping jaws of hardened steel. Clamping screw has fine pitched thread and long bearing in vise body.



Number	Jaw	Opening	Length	Ship. Wt.
115-024	1 x 1 1/2"	1 5/8"	4 5/8"	4 lbs.
15-025	1 x 1 1/2"	1 5/8"	4 5/8"	6 1/2 lbs.
15-026	1 7/16 x 2 1/2"	2 1/2"	6 1/4"	9 lbs.

†No. 15-024 same as No. 15-025 but without raising feature.



No. 20-620 4" Drill Press Vise with steel jaw plates. Plate for fixed jaw has vertical and horizontal grooves for holding round pieces. Recommended for drilling, tapping, milling, bench work and other operations. Vise is machined so that it can be placed in the normal position, on either side, or it can be stood up on end. 19 lbs.

Number	Jaw	Opening	Length	Ship. Wt.
20-620	1 3/4 x 4"	4"	10 3/4"	19 lbs.

Continued on next page

Delta Drill Press Accessories (continued)



No. 25-858 Lamp Attachment, for 115 V. Includes 9" flexible gooseneck, reflector and 8-foot cord with plug. Uses standard bulb (not included) up to 40 watts. 2 lbs.



Plug Cutters. Used for making wood plugs and dowels. 1/2 x 2" shank, barrel 2 1/4" long. Cuts plugs 2" thick and dowels 2" long.

- No. 15-534** 3/8" dia. **No. 15-537** 3/4" dia.
- No. 15-535** 1/2" dia. **No. 15-539** 1" dia.
- No. 15-536** 5/8" dia.
- No. 15-542.** Complete set of 5 plug cutters, 2 1/2 lbs.

Spur Bits

For drilling wood and wood by-products. High-speed tool steel. Multiple outlining spurs bore clean holes without chipping or splintering the surface. Perfect for boring through veneers. Also excellent for boring overlapping or close center holes. Bits larger than 3" diameter have replaceable brad points.



Individual Spur Bits

Catalog Number	Diameter	Shank		Overall Length
		Diameter	Length	
15-580	1/2"	1/2"	2 1/2"	5 5/8"
15-581	5/8"	1/2"	5 1/4"	5 3/4"
15-582	3/4"	1/2"	5 1/4"	5 3/4"
15-583	7/8"	1/2"	5 1/4"	5 3/4"
15-584	1"	1/2"	5 1/4"	5 3/4"
15-585	1 1/8"	1/2"	5 1/4"	5 7/8"
15-586	1 1/4"	1/2"	5 1/4"	5 7/8"
15-587	1 3/8"	1/2"	5 1/4"	5 15/16"
15-588	1 1/2"	1/2"	5 1/4"	5 15/16"
15-589	1 5/8"	1/2"	5 1/4"	5 15/16"
15-590	1 3/4"	1/2"	5 1/4"	6"
15-591	1 7/8"	1/2"	5 1/4"	6"
15-592	2"	1/2"	5 1/4"	6"
15-593	2 1/8"	1/2"	5 1/4"	6 3/16"
15-594	2 1/4"	1/2"	3"	6 3/16"
15-595	2 1/2"	1/2"	3"	6 3/16"
15-596	2 3/4"	1/2"	3"	6 3/16"
15-597	3"	1/2"	3"	6 3/16"
15-598	3 1/2"	3/4"	3 1/4"	6 1/4"
15-599	4"	3/4"	3 1/4"	6 1/4"

Replaceable Brad Points for Spur Bits

- No. 15-578 Brad Point** for 3 1/2" diameter Spur Bit No. 15-598.
- No. 15-579 Brad Point** for 4" diameter Spur Bit No. 15-599.

Mortising Chisels. Production type. Made of selected steel. All with 5/8" diameter x 1 1/2" shank.

Cat. No.	Size	Depth Capacity
17-912	1/4" x 1/4"	1 7/8"
17-913	5/16" x 5/16"	1 7/8"
17-914	3/8" x 3/8"	3"
17-915	1/2" x 1/2"	5"

Mortising Bits. Package of 2. For use with mortising chisels.

Cat. No.	Size	Shank Size
17-916	1/4"	3/16"
17-917	5/16"	1/4"
17-918	3/8"	1 9/64"
17-919	1/2"	1 9/64"



Mortising Chisel and Bit Sets. Includes mortising chisel and one (1) mortising bit as detailed above.

Cat. No.	Size
17-908	1/4" x 1/4"
17-909	5/16" x 5/16"
17-910	3/8" x 3/8"
17-911	1/2" x 1/2"

Brad Point Drill Bits

Brad points prevent "walking" when penetrating work surface. Double outlining spurs cut wood fibers, assuring clean boring without chipping or splintering work surface. Ideal for boring through veneers.



Catalog Number	Diameter	Shank		Twist Length	Overall Length
		Diameter	Length		
15-665	1/8"	1/8"	1 1/4"	1 1/2"	2 7/8"
15-666	3/16"	3/16"	1 1/16"	1 1/16"	3 3/8"
15-667	1/4"	1/4"	1 1/4"	3 1/8"	4 3/8"
15-668	5/16"	5/16"	1 1/4"	3 1/8"	4 3/8"
15-669	3/8"	3/8"	1 1/4"	3 1/8"	4 3/8"
15-670	7/16"	3/8"	1 1/4"	3 1/8"	4 3/8"
15-671	1/2"	3/8"	1 1/4"	3 1/8"	4 3/8"
15-672	9/16"	1/2"	2"	4"	6"
15-673	5/8"	1/2"	2"	4"	6"
15-674	3/4"	1/2"	2"	4"	6"
15-675	7/8"	1/2"	2"	4"	6"
15-676	1"	1/2"	2"	4"	6"



No. 15-660 12-Piece Brad Point Drill Set 1/8" through 1" diameter bits per chart. Packed in sturdy wood storage case.

No. 15-661 8-Piece Brad Point Drill Set 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4" diameter bits. Packed in sturdy wood storage case.

No. 15-662 5-Piece Brad Point Drill Set 1/4", 5/16", 3/8", 7/16" and 1/2" diameter bits. Packed in plastic case.



Forstner Style Drill Bits

Unlike other type bits, Forstner bits are guided by their outer edges instead of a point, enabling users to efficiently handle a wide range of drilling jobs. Drill thru-holes at any angle; drill off the edge. Enlarge existing holes. Drill overlapping holes, pocked holes and more.

Catalog Number	Diameter	Shank		Overall Length
		Diameter	Length	
15-640	3/8"	3/8"	1 1/4"	3 1/2"
15-641	1/2"	3/8"	1 1/4"	3 1/2"
15-642	5/8"	3/8"	1 1/4"	3 1/2"
15-643	3/4"	3/8"	1 1/4"	3 1/2"
15-644	7/8"	3/8"	1 1/4"	3 1/2"
15-645	1"	3/8"	1 1/4"	3 1/2"
15-646	1 1/8"	3/8"	1 1/4"	3 1/2"
15-647	1 1/4"	3/8"	1 1/4"	3 1/2"
15-648	1 3/8"	3/8"	1 1/4"	3 1/2"
15-649	1 1/2"	3/8"	1 1/4"	3 1/2"
15-650	1 5/8"	3/8"	1 1/4"	3 1/2"
15-651	1 3/4"	3/8"	1 1/4"	3 1/2"
15-652	1 7/8"	3/8"	1 1/4"	3 1/2"
15-653	2"	3/8"	1 1/4"	3 1/2"

No. 15-654 6-Piece Forstner Style Drill Bit Set. 3/8" through 1" diameter per chart above. Complete with handy wood storage case.



Sanding Drums and Abrasive Sleeves

Expandable type. Rubber sections that make up these drums are separated from each other by bakelite washers, with non-corrosive metal busings next to the arbor. Disks expand uniformly, run dead true; produce exacting work.

Sanding Drums Includes 1 Abrasive Sleeve				Abrasive Sleeves Package of Six	
Cat. No.	Dia.	Lgth.	Mtg.	Cat. No.	Grit & Grade
46-038	3"	3"	1/2" Hole	46-138	40G Coarse Garnet
				46-832	60G Med. Garnet
				46-338	50G Al. Oxide
46-538	1 3/4"	2"	1/2" Hole	46-638	40G Med. Garnet
				46-837	60G Fine Garnet
				46-838	50G Al. Oxide
46-048	1 1/16"	2 1/2"	1/2" Shank	46-841	50G Med. Garnet
				46-248	80G Fine Garnet
				46-847	50G Al. Oxide
*46-679	1 1/2"	1"	5/16" Shank	46-682	40G Al. Oxide
				46-683	80G Al. Oxide
*46-680	2 3/16"	1"	5/16" Shank	46-684	40G Al. Oxide
				46-685	80G Al. Oxide
*46-681	3"	1"	5/16" Shank	46-686	40G Al. Oxide
				46-687	80G Al. Oxide

* Solid rubber type

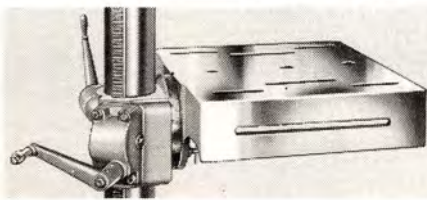
For Series 2000 20" and 17" Drill Presses



No. 17-822 Belt Guard Top Cover Plate. For Variable Speed (Spring Pulley Type) Drill Presses. Includes two oil hole plugs, cover plate for column hole and screws for mounting. 9 lbs.

No. 17-820 Drill Chuck. 3-jaw type, 0-1/2" capacity, with No. 3 M.T. shank. Includes 65-104 chuck key. Use with straight shank drills in Delta 20" Drill Press with No. 3 M.T. spindle. When used with Delta 17" Drill Press, the No. 17-880 Spindle is required. 3 lbs.

For Series 2000 20" Drilling Machines



No. 20-660 Tilting Table. Table top and one side are finished to plane surfaces at right angles to one another. Tilts 90°, right and left. Ground work surface 16" front to back by 18" left to right, slotted, with tilt angle scale. Without 20-661 Raising Mechanism. For single spindle floor model drill press. 97 lbs.

No. 20-650 Production Table. 15 x 18" ground work surface (including coolant trough, 19 1/4 x 22"). With 4 diagonal and 2 parallel blind T-slots for 1/2" bolts. Without 20-661 Raising Mechanism. For single spindle floor model drill presses. 112 lbs.

No. 20-661 Raising Mechanism. For head or table of 20" Drill Press. Fits Tables 20-660 and 20-650. Includes ball bearing thrust collar, rack, gear assembly and crank. 19 lbs.

No. 17-836 Booster Spindle Return Spring Kit. Includes clock spring with case, pinion shaft stub extension and instructions for field mounting on hand or power feed machines. Provides about 80 pounds of lift when used with the standard equipment spring. It is especially recommended when multiple spindle heads, tapping heads or other heavy tooling is mounted on quill or spindle of machine. 2 lbs.

For 17" (Key Chuck) "6 PLUS 6" and "VS6" 15" and Ram Type Radial Drill Presses

No. 15-830 Drill Chuck. Key chuck, 0-1/2" capacity with standard Jacobs #33 taper, 3-jaw type, with threaded mounting collar and 65-104 key. 1 1/2 lbs.

Spindle Adapters— all have standard Jacobs #33 Taper

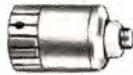
Adapters cannot be used with old style Delta 17" Drill Presses. Fit only 1/2" Key Chuck models with 1 1/16"—20 threaded spindle nose.



No. 15-832 Adapter with No. 1 M.T. hole, with threaded mounting collar. 2 lbs.



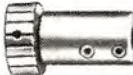
No. 15-833 Adapter with No. 2 M.T. hole, with threaded mounting collar. 1 lb.



No. 15-835 Adapter, 1/2" shaft and flange. For cup, dish or straight grinding wheels. With mounting collar tapped 1 1/16"—20. 1 lb. *NOTE: Not suitable for use with Ram Type Radial Drill Press.*



No. 15-836 Adapter with collars and threaded mounting collar for shaper cutters with 1/2" hole. 1 lb. *NOTE: Not suitable for use with Ram Type Radial Drill Press.*



No. 15-837 Adapter, 1/2" hole, with threaded mounting collar for router and spur bits, etc. 1 lb.



No. 15-838 Spanner Wrench. 1 1/2 x 5 3/4" long, with single lug for 7/32" hole. Recommended for threaded mounting collar of Drill Chuck 15-830 or Adapters 15-832, 15-833, 15-835, 15-836 and 15-837. 1/4 lb.

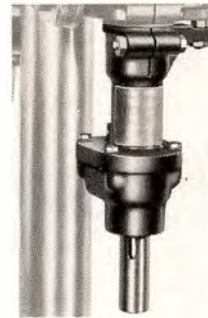
For 17" Drill Presses

No. 46-968 Drill Chuck. 3-jaw type, 0 to 1/2" capacity, with No. 2 M.T. shank. Includes 65-104 chuck key. 2 1/2 lbs.

No. 17-825 Production Table, 12 1/2 x 17" ground work surface (including coolant trough, 16 x 20 1/2"), with two parallel T-slots for 1/2" T-bolts. Slots are on 9" centers and run from front to back. Table has 1 1/2" coolant trough with one 3/4" pipe tap drain hole at left rear corner. Tilts 17° right and left and fits standard bracket on floor type, single spindle drill presses. 58 lbs.

No. 17-829 Standard Tilting Table (less Column Bracket Assembly). 11 x 14" ground surface. Ledges at sides and slots make clamping of work easy. Tilts 90° both right and left. 12 lbs.

No. 17-801 Raising Mechanism, for head or table. Includes worm shaft, compound worm gear and pinion, crank handle, rack, thrust ball bearing and column collar. 10 lbs.



No. 17-860 Slo-Speed Attachment. Provides 4.7 to 1 speed reduction for spot facing, reaming, counterboring, core drilling, etc. Fits No. 2 M.T. spindle models only. Speed range with the attachment on drill press, 75 to 475 RPM. These slow speeds are in addition to

the regular speeds obtained when the Slo-Speed Attachment is not on the drill press. Spindle travel with this attachment is 4". No. 17-836 Booster Spindle Return Spring Kit recommended for use with this Slo-Speed Attachment. 10 lbs.

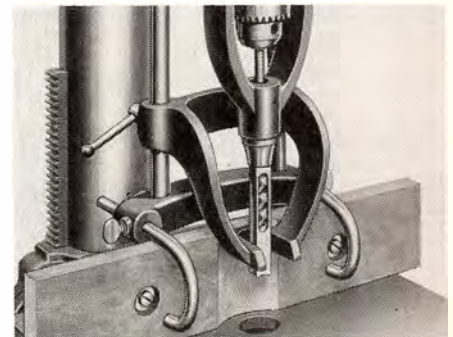


No. 17-880 Spindle, No. 3 M.T., with bearings. Includes instructions for installing on any model of Delta 17" Drill Press. 3 lbs.

No. 17-881 Spindle. Same as 17-880 except No. 2 M.T. 3 lbs.

No. 17-882 Spindle. Same as 17-880 except has Jacobs No. 33 male taper with 1 1/16"—20 threaded collar to accept Delta Spindle Adapters.

No. 17-836 Booster Spindle Return Spring Kit. For 17" Drill Presses Serial No. 137-5800 and higher. It provides about 80 pounds lift when used with the standard spring. Especially recommended for use with the 17-860 Slo-Speed Attachment or when any heavy tooling like multiple spindle heads or tapping chucks are mounted on the quill or spindle of the machine. Includes clock spring, pinion shaft extension and instructions for field mounting. 2 lbs.



No. 17-381 Mortising Attachment. Fits 17" Drill Presses equipped with 17-882 Spindle and 15-830 Drill Chuck only. Consists of a heavy fence bolted to the drill press table. Two hooked rods hold work against fence and an adjustable hold-down keeps the work from being raised when the chisel is withdrawn. Capacity under hold-down—6 1/2", from ends of hooked rods to fence—2 1/2". 19 lbs.

Delta Drill Press Accessories (continued)

Speed Changing Parts

No. 17-391 Parts for converting drill press from Slo-Speed to High Speed model. Consists of high speed pulleys and 49-051 belt. 7 lbs.

No. 17-862 Parts for converting drill press from High Speed to Slo-Speed model. Consists of slo-speed pulleys and 49-025 belt. 10 lbs.

Motor Pulleys

No. 41-815 5-Step for Slo-Spd. $\frac{7}{8}$ " bore. 3 lbs.

No. 41-8255 Step for Hi-Spd. $\frac{7}{8}$ " bore. 3 lbs.

Motor Pulley Assemblies

No. 41-964 Variable Spd.Type. $\frac{3}{4}$ " bore. 8 lbs.

No. 41-965 Variable Spd.Type. $\frac{7}{8}$ " bore. 8 lbs.

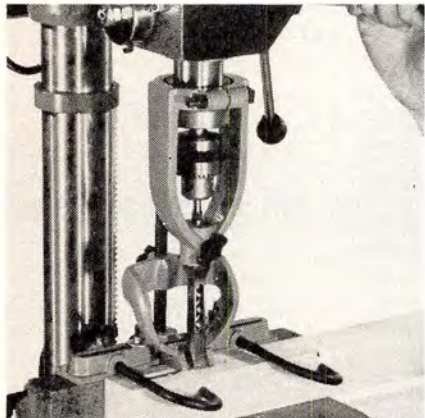
Belts

No. 49-051 V-belt, $51\frac{1}{8}$ " OC, for High Speed model. $\frac{1}{2}$ lb.

No. 49-025 V-belt, $54\frac{1}{8}$ " OC, for Slo-Speed model. $\frac{1}{2}$ lb.

No. 49-159 Vari. Spd. Belt, 55 " OC. $1\frac{1}{2}$ lbs.

For 16 $\frac{1}{2}$ " Drill Press



No. 17-905 Mortising Attachment. Fits Delta Model 17-900 16 $\frac{1}{2}$ " Drill Press and all other models with 2.6" (66mm) or 1.89" (48mm) diameter quills. Includes chisel holder, base, fence and hold-down bracket. Capacity under hold-down - 4"; ends of hooked rods to fence - 2 $\frac{1}{2}$ ". Mortising chisels and bits must be ordered separately.

For "6 PLUS 6" and "VS6" 15" Drill Presses

No. 15-010 Collar. Head or table support. For 2 $\frac{3}{4}$ " diameter column. 2 lbs.

No. 15-809 Tilting Table. 11 x 14" ground surface, complete with column bracket. Ledges at sides and slots make clamping of work easy. Tilt angle scale indicates to 90° both right and left. Fits any 15" drill press with 2 $\frac{3}{4}$ " column. 37 lbs.

No. 15-801 Table. 10 x 10 $\frac{1}{2}$ " ground surface, non-tilting type, with integral column bracket. Ledges at sides and slots make clamping of work easy. Holes on front apron facilitate work or fixture mounting. Fits any 15" drill press with 2 $\frac{3}{4}$ " column. 22 lbs.

No. 15-850 Production Table. 12 x 18" ground work surface (including coolant trough, 15 $\frac{1}{2}$ x 21 $\frac{1}{2}$ "), for single spindle floor model drill presses (without 15-008 Raising Mechanism). 76 lbs.

No. 15-009 Table Raising Mechanism for 15-809 Standard Tilting Table on 15" Drill Presses. Can also be used with 15-801 Non-Tilt Table. 9 lbs.

No. 15-008 Raising Mechanism. For 15-850 Production Table. Includes rack, collar and bearing. 10 lbs.

No. 15-030 Head Counterbalance Attachment. Complete assembly including spring, chain, column top casting, ball bearing roller and screws. Cannot be used with columns shorter than 38 $\frac{3}{4}$ ". 9 lbs.

No. 15-820 Foot Feed. For floor type models with 64" column. Maximum quill travel with foot feed connected is 6". Consists of foot pedal, rods, mounting brackets and spring. 36 lbs.

No. 15-825 Full Belt and Pulley Guard. For step-pulley models only. Encloses spindle pulley, V-belt and motor pulley. 9 lbs.

No. 15-840 Mortising Attachment. This attachment converts the 15" Drill Press into an accurate mortising machine. Capacity under hold-down—4 $\frac{3}{4}$ ", from ends of hooked rods to fence—2 $\frac{3}{4}$ ". Used with key chuck models only. No. 15-820 Foot Feed recommended for mortising with single spindle models. Includes fence with mounting bolts, hooked rods, hold-down and chisel holder. 8 $\frac{1}{2}$ lbs.

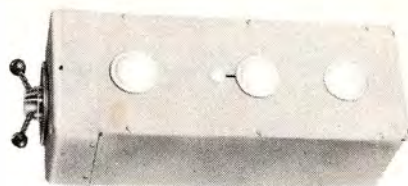
Multi-Speed Attachments (Not for variable speed models)

Especially recommended for jobs like spot facing, counterboring, reaming and core drilling.



No. 15-802 Multi-Speed Attachment. For 6-step pulley models. Provides eight speeds from 125 RPM to 5800 RPM with 1725 RPM motor or 85 to 3800 RPM with 1140 RPM motor. Includes motor pulley with $\frac{1}{2}$ " bore. 7 lbs.

No. 15-803 Multi-Speed Attachment. For 6-step pulley models. Same as 15-802 except motor pulley has $\frac{5}{8}$ " bore. 7 lbs.



No. 15-846 Belt Guard Top Cover Plate. For 15" Variable Speed (Spring Pulley type) Drill Presses. Includes hole plugs and screws for mounting. 4 lbs.

Motor Pulleys

No. 41-832 6-Step. $\frac{1}{2}$ " bore. 3 $\frac{1}{2}$ lbs.

No. 41-833 6-Step. $\frac{5}{8}$ " bore. 3 $\frac{1}{2}$ lbs.

Motor Pulley Assemblies

No. 41-952 Variable Speed Type, with spring, $\frac{1}{2}$ " bore. 6 lbs.

No. 41-953 Variable Speed Type, with spring, $\frac{5}{8}$ " bore. 6 lbs.

Belts

No. 49-091 V-belt. 26 $\frac{1}{4}$ " OC, rear, for No. 15-802 Multi-Speed Attachment. 1 $\frac{1}{2}$ lbs.

No. 49-092 V-belt. 34 $\frac{3}{8}$ " OC, front, for No. 15-802 Multi-Speed Attachment. 1 $\frac{1}{2}$ lbs.

No. 49-093 V-belt. 6-step pulley type, 44 $\frac{1}{2}$ " OC. 1 $\frac{1}{2}$ lbs.

No. 49-415 Belt. Variable speed type, 45 $\frac{5}{8}$ " OC. 1 lb.

For Ram Type Radial Drill Press

Key Chuck

No. 46-968 Drill Chuck. 3-jaw type, 0 to $\frac{1}{2}$ " capacity, with No. 2 M.T. shank. Includes chuck key. 2 $\frac{1}{2}$ lbs.

No. 25-857 Lamp Attachment, for 115 V. Includes 18" flexible gooseneck, reflector and 8-foot cord with 3-prong plug. Uses standard bulb (*not included*) up to 100 watts. 3 lbs.

Motor Pulley

No. 41-703 Four-Step. $\frac{5}{8}$ " bore. 1 lb.

Belts

No. 49-287 V-Belt, 31 $\frac{1}{8}$ " OC, for Ram Type Radial Drill Presses (rear belt). $\frac{1}{2}$ lb.

No. 49-105 V-Belt, 30 $\frac{1}{8}$ " OC, for Ram Type Radial Drill Presses (front belt). $\frac{1}{2}$ lb.



For coolant equipment, see Page E-4

Delta Abrasive Finishing Machines

6" Abrasive Belt—a machine that offers exceptional versatility combined with high efficiency.

12" Abrasive Disc—a machine that gives you fine finishes fast whether in the pattern shop or on the production line.

6" Belt & 12" Disc Combination—a custom or production abrasive finishing machine in a single compact unit that saves time, saves space, saves cost.



Delta Abrasive Finishing Machines

Exceptional versatility combined with high efficiency!

Quality-built Delta Finishing Machines are designed for all types of finishing operations on wood, metal, plastic, compositions and other materials. Easily moved, they can be quickly placed in the production line, or anywhere in the shop where fast, accurate finishing is required. Typical operations include surfacing, finishing, sanding, polishing, grinding, deburring and cleaning.

Delta Abrasive Finishing Machines are excellent for the factory production line, machine shop, experimental department, wood or metal pattern shop, furniture factory, cabinet and school shops—wherever custom or production finishing must be performed efficiently and economically.



6" Belt and 12" Disc Finishing Machine

- Comprises in one compact, efficient combination the famous Delta 6" Abrasive Belt Finishing Machine and the Delta 12" Abrasive Disc Finishing Machine
- Handles 90 to 95% of all your finishing operations
- Powered by a heavy duty, 1½ HP, TEFC motor
- Offers the right speeds—2100 RPM for disc unit and 3030 FPM for the belt unit—making it well suited for both metal and wood shops
- Belt operates at any angle—vertically, horizontally, or any degree in between
- Has fine thread adjustment for easy belt tracking while star wheel locks adjustment firmly in place
- Large tables are scientifically ribbed to prevent distortion
- Tables tilt up to 45° out and 20° in for angle finishing operations

6" Abrasive Belt Finishing Machine

- Belt operates vertically, horizontally or at any degree in between
- Exclusive fine thread belt tracking control
- Has a cast iron platen that won't distort from heat buildup
- Table tilts 45° out and 20° in for angle operations
- Lubricated-for-life ball bearings
- Adjustable dust deflector and dust spout on lower guard
- Completely enclosed drums; guarded sanding belt
- Adjustable platen can be removed for free-hand finishing of odd shapes
- Removable upper guard for contour finishing on idler drum

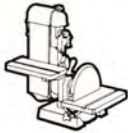
12" Abrasive Disc Finishing Machine

- Provides fine finishes fast
- Fully machined, balanced disc runs vibration free and assures proper adhesion of abrasive discs
- Disc is mounted to end of motor shaft for powerful, accurate operation
- Large, scientifically ribbed table is supported by widely spaced trunnions for rigidity
- Star wheels lock table securely at any angle up to 45° out and 20° in
- Easy-to-read scale shows exact degree of table tilt desired
- Plain and compound meters are easily obtained using the 34-895 accessory miter gage
- Unit has a low 24 volts at the push button station on models with magnetic controls



All Delta Abrasive Finishing Machines and all electrical kits are certified in Canada.

Catalog Listing



No. 31-730 6" Belt and 12" Disc Finishing Machine with two tilting tables, 4½" arbor pulley, guard for arbor pulley, V-belt, 80-grit garnet belt and 50-grit garnet disc. Without stand, motor, motor control, motor pulley and dust collector attachment parts. 158 lbs.



No. 31-550 6" Abrasive Belt Finishing Machine with 31-401 tilting table; 4" arbor pulley; 58" O.C. V-belt; belt guard; cast iron riser; fine grit, aluminum oxide belt and guards. Without stand, fence, backstop, motor pulley, motor or switch. 108 lbs.



Enclosed Steel Stand with motor, motor pulley and motor controls factory mounted and wired. For Catalog Nos. 31-730 and 31-550.

Catalog Number	Motor	Motor Control	Motor Enclosure	Hertz and Motor RPM	Motor Voltage	Shipping Wt./Lbs.
52-611	Single Phase 1½ HP	Push Button Switch only	TEFC	60-3450	115/230	125
52-612		24V Push Button Station, Magnetic Starter Transformer and Overload Protection (LVC)	TEFC	60-3450	115/230	130
52-613†	Three Phase 1½ HP	24V Push Button Station, Magnetic Starter Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	90
52-614			TEFC	60-1725	200	90

NOTE: Single phase electricals will be supplied wired for 230V, unless 115V is specified. If 115V is specified, operating circuit must be minimum of 30 amperes, incorporating time-delay fusing. Three phase electricals will be supplied wired for 230V, unless 460V is specified. Power Cord and Plug supplied for single phase only. Motors and Motor Controls

for Delta Finishing Machines may be ordered unmounted. For listing, see Section R.

†**No. 49-000 "JIC" Type Control Kit.** Specify this Catalog No. in addition to Three Phase Catalog No. 52-613, in order to obtain Finishing Machine with "JIC" type electricals, factory mounted and wired.



12" Abrasive Disc Finishing Machine. Ready to run, with sub base and special thrust load ball bearing motor. Stand not included.

Catalog Number	Motor	Motor Control	Motor Enclosure	Hertz and Motor RPM	Motor Voltage	Shipping Wt./Lbs.
31-125	Single Phase 1 HP	Push Button Switch only	TEFC	60-1725	115/230	131
31-126		24V Push Button Station, Magnetic Starter Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230	136
31-131†	Three Phase 1 HP	24V Push Button Station, Magnetic Starter Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	125
31-132			TEFC	60-1725	200	125



50-139 Enclosed Steel Stand

NOTE: Single phase electricals will be supplied wired for 230V, unless 115V is specified. Three phase electricals will be supplied wired for 230V, unless 460V is specified. Power Cord and Plug supplied for single phase only. Motors and Motor Controls for Delta 12" Abrasive Disc Finishing Machines may be ordered unmounted. For listing, see Section R.

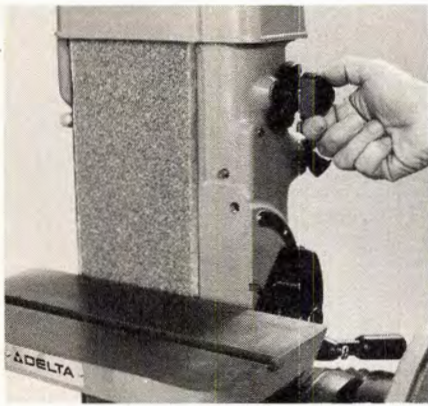
†**No. 49-000 "JIC" Type Control Kit.** Specify this Catalog No. in addition to Three Phase Catalog No. 31-131, in order to obtain 12" Disc Sander with "JIC" type electricals, factory mounted and wired.

Machine Data

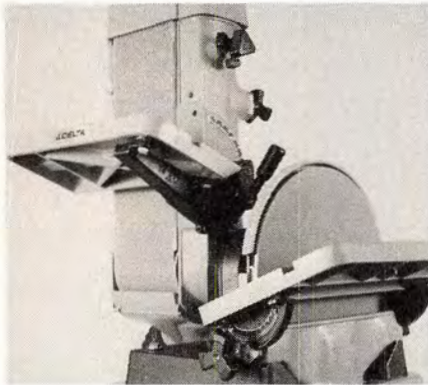
Overall Stand Dimensions	6" Belt/12" Disc Finishing Machine	6" Abrasive Belt Finishing Machine	12" Abrasive Disc Finishing Machine
Vertical: Front to Rear	19" (482.6 mm)	16" (406.4 mm)	23⅝" (600.07 mm)
Width	26" (600.4 mm)	20" (508 mm)	23" (584.2 mm)
Height	56½" (1485.1 mm)	56½" (1435.1 mm)	42½" (1079.5 mm)
Horizontal: Front to Rear	29½" (749.3 mm)	28½" (723.9 mm)	N/A
Width	25" (635 mm)	20" (509 mm)	N/A
Height	42" (1066.8 mm)	39" (990.6 mm)	N/A
Belt Machine			
Table: Size	7⅞ x 14¾" (187.3 x 374.6 mm)	7⅞ x 14¾" (187.3 x 374.6 mm)	N/A
Tilt	45° out, 20° in	45° out, 20° in	N/A
Miter Gage Groove	⅜ x ¾" (9.5 x 19.05 mm)	⅜ x ¾" (9.5 x 19.05 mm)	N/A
Platen	6¼ x 14¾" (158.7 x 374.6 mm)	6¼ x 14¾" (158.7 x 374.6 mm)	N/A
Belt Length: Standard	6 x 48" (152.4 x 1214.2 mm)	6 x 48" (152.4 x 1214.2 mm)	N/A
Maximum	48⅝" (1235.1 mm)	48⅝" (1235.1 mm)	N/A
Minimum	47⅞" (1216 mm)	47⅞" (1216 mm)	N/A
Belt Speed	3030SF/M (921.5 surf M/Min.)	3450SF/M (1051 surf M/Min.)	N/A
Disc Machine			
Table: Size	9¾ x 16¼" (247.6 x 412.7 mm)	N/A	9¾ x 16¼" (247.6 x 412.7 mm)
Tilt	45° out, 20° in	N/A	45° out, 20° in
Tilt Gage	Has adjustable pointer	N/A	Has adjustable pointer
Miter Gage Groove	⅜ x ¾" (9.5 x 19.05 mm)	N/A	⅜ x ¾" (9.5 x 19.05 mm)
Disc	12" (304.8 mm) diameter with ¾" (19.05 mm) bore	N/A	12" (304.8 mm) diameter with ¾" (19.05 mm) bore
Disc Speed	2100 RPM	N/A	1725 RPM
Motor Plate	N/A	N/A	Accommodates NEMA 143T and 145T frame motors

Delta Abrasive Finishing Machines (continued)

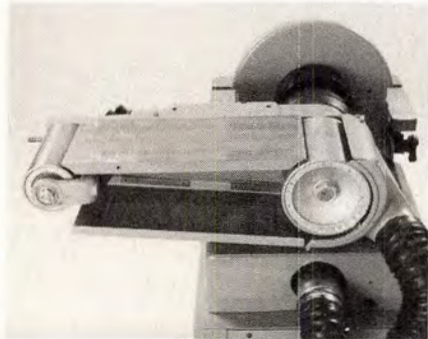
Quality Features for all Delta Abrasive Finishing Machines



Belt Tracking Feature. Control knob has fine thread adjustment for easy tracking of belt. Star wheel locks tracking adjustment firmly in place.



Two Husky Tables. With the Delta Combination Finishing Machine, you get two scientifically ribbed tables (not one). Unlike some machines, you don't have to waste valuable production time removing the table when you move from one machine to the other. Two widely spaced trunnions firmly support the Disc Sander table while a single massive trunnion provides ample rigidity for the Belt Sander table.



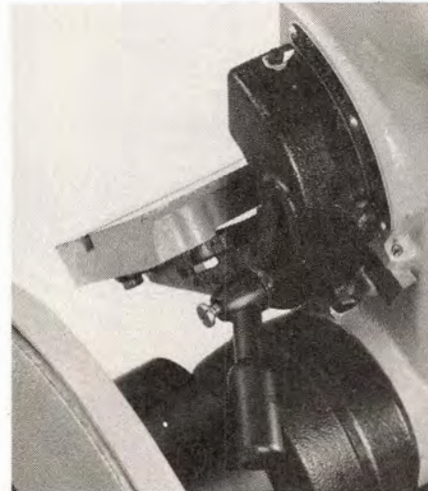
Specially Designed Platen; Extra Large Drive Drum. Platen is made of heavy, cast iron construction to prevent distortion from heat build up. Platen may be removed for contour sanding with a slack belt. Large 5 1/2" diameter drive drum efficiently transmits maximum power from motor to belt, also provides correct belt speed of 3030 SF/M for faster, smoother finishing.



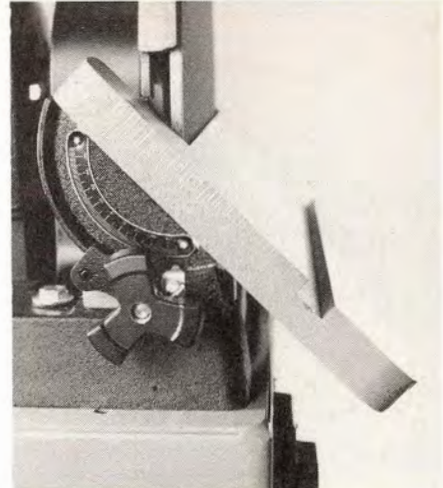
Belt Operates At Any Angle. You can operate the belt vertically, horizontally or at any degree in between. Note that work table can remain in level position, providing excellent work support, also storage area for work to be done.



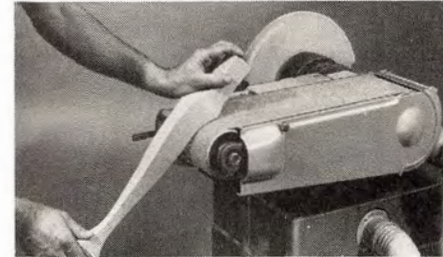
Accurate Miters Quickly Obtained. Plain and compound miters are easily handled with the aid of the No. 34-895 Miter Gage. The wide tilt range of the table, combined with the built-in accuracy of the 12" Abrasive Disc Finishing Machine, makes it an ideal tool for the pattern shop.



Massive Belt Sander Table Trunnion. Rigidly supports table for accurate work. Swinging Stop Link and adjustable screws provide positive settings at 90° and 45° for repetitive work. Table also may be tilted 20° in. Easy-to-read tilt scale and adjustable pointer speed table settings.



Handy Tilt Scale; Positive Disc Sander Table Locks. A large, conveniently located tilt scale shows exact degree of tilt desired from 45° out to 20° in. Positive grip star wheels on either side of the table lock it securely in position.



Contour Finishing Set-Up Immediately Available. Operator simply removes upper belt guard, then proceeds to contour finish stock on the idler drum.



Big 9 3/4 x 16 1/4" Table. Furnishes ample work support for finishing core prints of large patterns. Fully machined, balanced disc runs vibration free for accurate finishing.



Handy Back Stop. An excellent accessory for finishing flat work because it prevents stock from being carried along with the belt.

Delta Abrasive Finishing Machine Accessories

No. 50-114 Enclosed Stand. Includes basic stand, motor mounting plate, steel riser block, grommets for portholes and hardware for mounting 6" Abrasive Belt Finishing Machine or 6" Belt/12" Disc Finishing Machine. 64 lbs.

No. 50-139 Enclosed Steel Stand for 12" Disc Sander. 31 lbs.

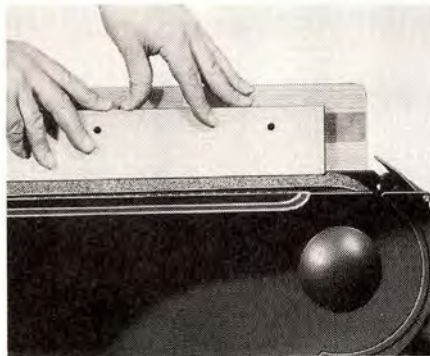
No. 31-123 Sub Base. Required for mounting 12" Disc Sander to 50-139 Enclosed Steel Stand. Furnished as standard equipment. 16 lbs.

No. 50-263 Mobile Base. For 6" Belt, 12" Disc and/or Belt/Disc Combination Finishing Machine on Enclosed Type Stand. 19 lbs.

No. 31-401 Tilting Table, with trunion assembly for 6" Abrasive Belt Finishing Machine. 14 lbs.



No. 31-403 Backstop, complete with bracket. 4 lbs.



No. 31-014 Wood Fence, 3¼" x 17½", with brackets. 6 lbs.

Abrasive Belts. 6" wide x 48" long. ¼ lb. each.

Cat. No.	Type	Grit & Grade
31-142	Garnet/Wood	80 Grit/Fine
31-314	Garnet/Wood	40 Grit/Coarse
31-404	Al. Oxide	100 Grit/Coarse
31-405	Al. Oxide	50 Grit/Coarse

Abrasive Discs. 12" diam. Package of 6. 1¼ lbs.

Cat. No.	Type	Grit & Grade
31-427	Garnet	50 Grit/Medium
31-428	Al. Oxide	60 Grit/Medium

No. 49-503 Disc Adhesive. 1 lb.

No. 31-034 Disc Assembly with flange and set screws. For replacement use on 31-730 6" Belt and 12" Disc Finishing Machine only. 11 lbs.



No. 34-895 Auto-Set Miter Gage. For straight and angle finishing. Has ¾" x 18" guide bar and pivoting work support body with pointer and calibrations reading through 120° swing. Adjustable, positive stops at 90° and 45° positions. Accommodates No. 34-568 Clamp Attachment. 3½ lbs.

No. 34-568 Clamp Attachment for 34-895 Miter Gage. 1½ lbs.

No. 41-033 Motor Pulley, 2¾" diameter. ⅝" bore. 1 lb.

For Hook-Up of Abrasive Finishing Machines to Metal Dust Collectors

No. 31-856 Attachment Parts for 6" Abrasive Belt Finishing Machine. Also Belt Unit of Combination Belt & Disc Finishing Machine. Includes adapter, hose, two hose flanges and two hose clamps. 7 lbs.

No. 50-141 Attachment parts for 12" Abrasive Disc Finishing Machine. Also Disc Unit of Combination Belt & Disc Finishing Machine. Includes funnel, two clamps, hose and flange. 13½ lbs.

For Hook-Up of Abrasive Finishing Machines to Wood Dust Collectors

No. 50-224 12" Disc Sander Connector. 3" diameter outlet. Attaches to bottom of Disc Sander.

No. 50-228 Y-Connector. 3" x 3" x 5". For dual hook-up of Belt and Disc Sander on Combination Unit.

No. 50-237 Increaser. 3" to 5". Clamping lug on 3" end. Attaches to 12" Disc Sander equipped with 50-224 Connector.

No. 50-214 Increaser. 3¼" to 5". Clamping lug on 3¼" end. Attaches to exhaust chute of Delta 6" Belt Sander.

For Hook-Up of Abrasive Finishing Machine to No. 49-255 Vacuum Cleaner

No. 49-589 Attachment Parts for 6" Belt Sander. Includes 43-823 Flange for connecting to 2½" dia. hose. 1½ lbs.

No. 50-140 Attachment Parts for 12" Disc Sander mounted on Enclosed Stand. Also Disc Unit of Combination Belt & Disc Sander. Includes funnel and flange for connecting to 2½" dia. hose. 8¼ lbs.



No. 49-225 T-Connector. For 2½" dia. hose. For dual hook-up of Belt & Disc Sander on Combination Unit.

49-590 Attachment Parts for 12" Disc Sanders mounted on No. 31-124 Open Stand. For connecting to 2½" dia. hose. 5 lbs.

No. 49-229 Hose, 2½" diameter x 6' long. Same as standard hose supplied with Vacuum Cleaner. 4 lbs.

Delta Industrial Machines safety designed with you in mind



Play it safe!

Delta Industrial Machines are built to the highest quality standards, and they are scientifically designed to provide greater operator safety. Take advantage of their built-in protective features by observing the following safety rules:

1. Read the instruction manual thoroughly before operating the power tool.
2. If you are not familiar with the operation of the tool, obtain advice from your supervisor, instructor, or other qualified operator.
3. Remove tie, rings, watch and other jewelry and roll up sleeves. *Do not wear loose clothing.*
4. Always wear safety glasses or a face shield.
5. Keep safety guards in place and use them at all times.
6. Be sure the shop has adequate ventilation and lighting, especially in the area of the cutting tool on the machine.
7. Always make sure the power tool is properly grounded.

8. Always make sure the cutting tool is sharp and correctly positioned.
9. Always keep the work area clean. *Avoid cluttered areas.*
10. Remove adjusting keys and wrenches before turning on the power.
11. Always disconnect the tool from the power source when making repairs or adjustments.
12. Never start to run an electric tool when there is any danger of fire or explosion due to the presence of inflammable or explosive materials.

We strongly urge that you carefully read the Operating Suggestions and the Safety Instructions furnished with each machine. Additional instructional materials are available on request to replace lost or misplaced manuals.

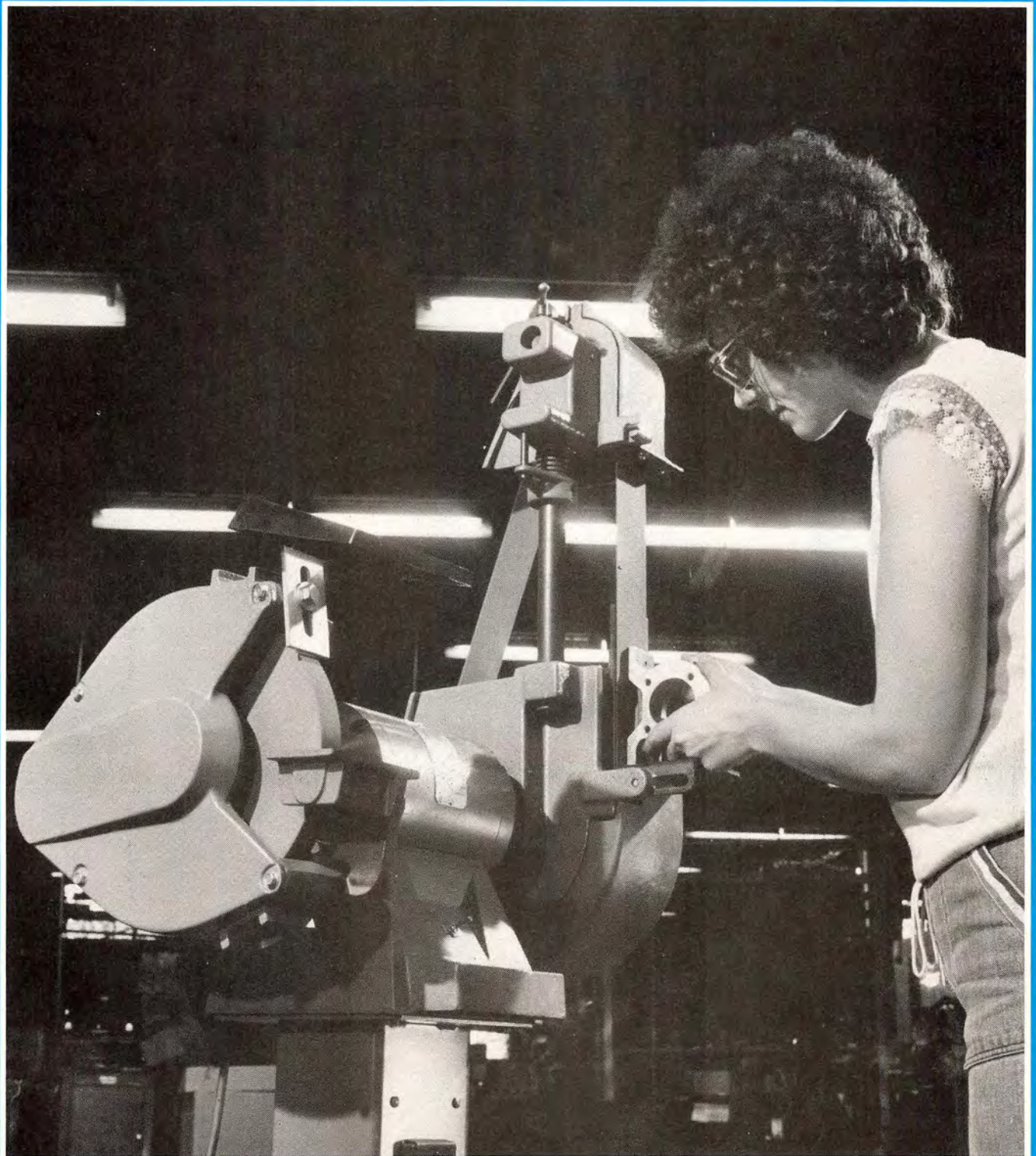
Remember, safety begins with the manufacturer but ends with you, the user!

Delta Grinders & Grinder/Finishers

Select from 41 quality-built models!

Do you have need for a high performance grinder or finisher? Then, consider a Delta. They offer the finest built-in quality features. For example, motors and wheels are carefully balanced for smoother running.

Precision ground tool rests adjust in and out and tilt for any desired grinding angle. Specially designed guarding increases operator safety. And a complete line of accessories means expanded job capability.



Delta 10", 8", 7" and 6" Grinders

For industry, farms, schools and general shop use!

Now! you can get the right grinder with the right features for quick, efficient operation year after year. Just select any one of Delta's heavy duty grinders. They're quality built throughout with user-appreciated features like totally enclosed motors rated for continuous duty; lifetime, sealed, ball bearing construction; small diameter motor frames; wrap-around, fully adjustable tool rests;

built-in water pot; safety designed to meet all OSHA standards, and lots more.

If you do operations like removing stock, snagging, sharpening tool bits, shaping special parts, removing rust and scale, then consider placing a dependable, heavy duty Delta Grinder in your operation today!



No. 23-907
Pedestal Model
10" Grinder.



No. 23-852
Pedestal Model
8" Grinder shown
with Accessory
23-035 Twin-Lites®



No. 23-755
Pedestal Model
7" Grinder.

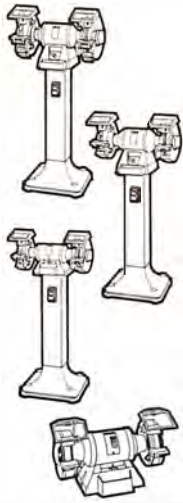
Machine Data

	10" Grinder	8" Grinder	7" Grinder	6" Bench Grinder
Motor:	1 HP 1 Ph,	¾ HP 1	½ HP 1	⅓ HP 1 Ph
Horsepower	1½ HP 3 Ph	and 3 Ph	and 3 Ph	
RPM	1725	3450	3450	3450
Shaft Diameter	¾"	¾"	⅝"	½"
Wheels:				
Diameter	10"	8"	7"	6"
Face	1"	1"	1"	¾"
Hole	¾"	¾"	⅝"	½"
Dust Collection Capability	See Pages O-2 to O-6			—
Overall Dimensions, Bench Type:				
Height with Eyeshields	16¾"	16"	13⅞"	12¼"
with Twin-Lites	18⅞"	17⅝"	14¾"	—
Width	23½"	22⅞"	22⅞"	20⅞"
Front to back	15⅞"	12¼"	11⅝"	9⅝"
Overall Dimensions, Pedestal Type:				
Height with Eyeshields	49⅞"	48⅞"	46⅞"	—
with Twin-Lites	51"	49⅞"	47⅞"	—
Width	23½"	22⅞"	23⅞"	—
Front to back	15⅞"	12¼"	11⅝"	—



No. 23-650 6" Bench Grinder shown with
Accessory No. 25-857 Lamp Attachment.
Models 23-650, 23-750, 23-850 and 23-901
are UL and CSA listed.

Catalog Listing



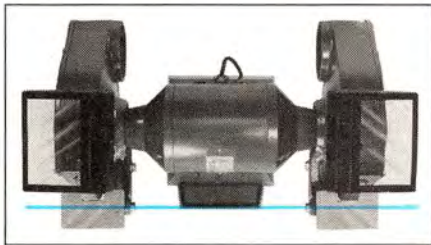
Complete Grinders, bench or pedestal mounted, with safety eyeshields, balanced wheels (medium and coarse), wheel guards, spark deflectors, tool rests, water pot, dust collection adapters (not furnished on 6" Bench Grinder), motor and controls factory mounted and wired as specified below.

Catalog Number	Size	Motor	Motor Control	Motor Enclosure	HZ, and Motor RPM	Motor Voltage	Type	Shipping Wt./Lbs.
23-901	10"	1 Phase, 1 HP	* On-Off Toggle Switch	TENV	60-1725	115/230	Bench	96
23-907	10"	3 Phase, 1½ HP	†24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TENV	60-1725	230/460	Pedestal	148
23-902	10"	3 Phase, 1½ HP	†None (not factory wired)	TENV	60-1725	230/460	Bench	96
23-850	8"	1 Phase, ¾ HP	* On-Off Toggle Switch	TENV	60-3450	115	Bench	65
23-852	8"	3 Phase, ¾ HP	†24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TENV	60-3450	230/460	Pedestal	117
23-851	8"	3 Phase, ¾ HP	†None (Not Factory Wired)	TENV	60-3450	230/460	Bench	65
23-750	7"	1 Phase, ½ HP	* On-Off Toggle Switch	TENV	60-3450	115	Bench	41
23-755	7"	3 Phase, ½ HP	†24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TENV	60-3450	230/460	Pedestal	93
23-751	7"	3 Phase, ½ HP	†None (not factory wired)	TENV	60-3450	230/460	Bench	41
23-650	6"	1 Phase, ⅓ HP	On-Off Toggle Switch	TENV	60-3450	115	Bench	29

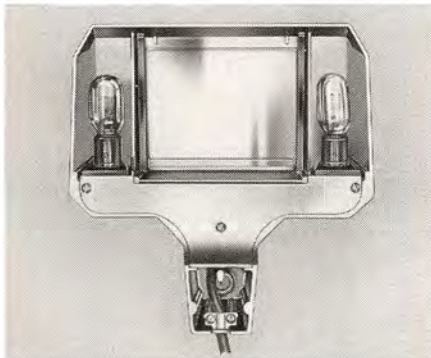
* Motor control switch can be used to operate Accessory 23-035 Twin-Lites.
 †Separate toggle switch furnished for Accessory 23-035 Twin-Lites.

NOTE: Single phase electricals will be supplied wired for 115 V. Three Phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only.

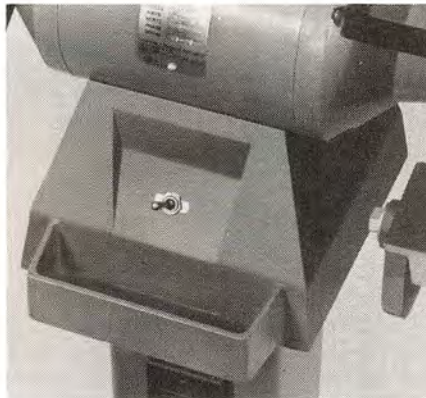
Delta Quality Grinder Features



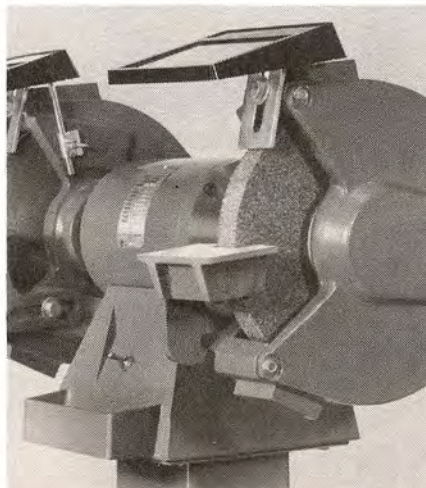
"Thin-Line" Motors. Continuous duty grinder motors are slim in design providing extra space between wheels and motor for grinding odd-shaped items and long stock. TENV motors have lifetime, sealed, ball bearing construction.



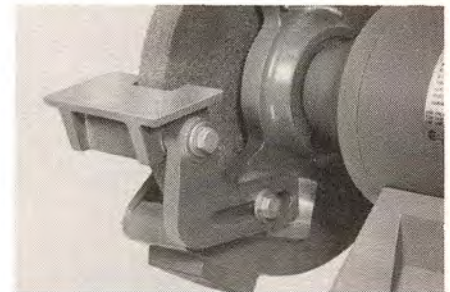
Famous Twin-Lite® Safety Shields (Accessory). Designed to operate independently of the shop lighting system. Double strength, shatterproof glass safeguards operator's eyes. Special spring clips prevent rattle. Bayonet type bulbs stay tight and are shielded to prevent glare. Ideally placed, they throw a full flood of light on both sides and face of wheel without casting any shadow.



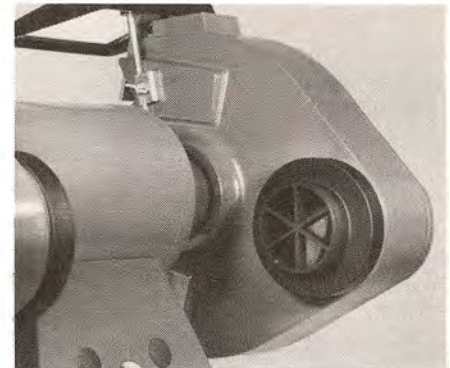
Built-in Water Pot. Conveniently placed water pot is always there, when you need it, for cooling the work piece.



Excellent Safety Features. Increased operator safety is provided by the protective eyeshields, adjustable spark deflectors, husky wheel guards and removable side plates.



Multi-Purpose Tool Rests. Sturdily constructed tool rests adjust horizontally and vertically, also tilt for exact grinding angle desired. They lock rigidly in place, yet may be quickly removed for accessory attachments. Wrap-around ledges help support odd-shaped workpieces.



Dust Collection Capability. All Delta 10", 8" and 7" Grinders are furnished with standard equipment adapters for connecting to Delta "High-Efficiency" Dust Collectors.

For Grinder Accessories, see Page M11.
For "High Efficiency" Dust Collectors, see Page O6.

For Automatic Electronic Brake, see Page P2.

Delta Grinder/Finishers and Twin Belt Finisher

A complete line of "Full Spectrum" machines!

Increase productivity while lowering costs! Select one of Delta's heavy duty grinder/finishers or twin belt finisher, designed for money-saving performance. They're well suited for metal shops, wood shops, foundries,

garages, vocational schools or wherever grinding, sanding or finishing is required.

These versatile machines are especially suited for removing stock, snagging, sharpening tool bits, removing rust and scale, sanding, deburring, finishing, polishing and dozens of other operations. And with modern, 3-dimensional abrasives, you can do cleaning, deburring, blending and polishing, decorating and finishing.



No. 23-909 Twin Belt Finisher shown with belts in vertical and horizontal position.



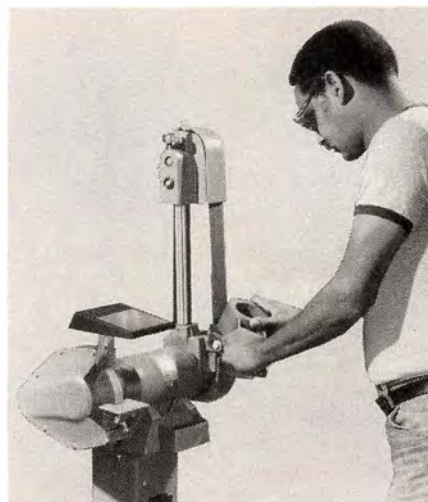
No. 23-908 Pedestal Model 10" Grinder/Finisher shown with Accessory "High Efficiency" Dust Collector and Accessory 23-035 Twin-Lite®.



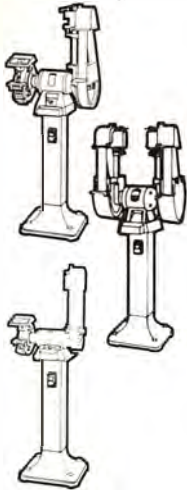
No. 23-756 Pedestal Model 7" Grinder/Finisher shown with Finisher in horizontal position.

Machine Data

Motor	10" Grinder/Finisher	Twin Belt Finisher	7" Grinder/Finisher
Horsepower	1 HP 1 Ph, 1½ HP 3 Ph	1 HP 1 Ph, 1½ HP 3 Ph	½ HP 1 and 3 Ph
Shaft Diameter	¾"	7/8"	5/8"
Grinder Wheel:			
Diameter	10"	—	7"
Face	1"	—	1"
Hole	7/8"	—	5/8"
Contact Wheel:			
Diameter	10"	10"	4½"
Face	2½"	2"	2"
Hole	7/8"	7/8"	.626
Belt:			
Width	2½"	2½"	2"
Length	60"	60"	48"
Speed	4500 sfpm	4500 sfpm	4100 sfpm
Dust Collection Capability	See Pages O-2 to O-6		
Overall Dimensions, Bench Type:			
Height (belts vertical)	15½"	29¾"	26½"
(belts horizontal)	29½"	16½"	11"
Width	25"	26"	19½"
Depth (belts vertical)	15½"	15½"	11½"
(belts horizontal)	29½"	29½"	26"
Overall Dimensions, Pedestal Type:			
Height (belts vertical)	62¾"	62¾"	59½"
(belts horizontal)	49½"	49½"	44"
Width	26"	26"	19½"
Depth (belts vertical)	15½"	15½"	11½"
(belts horizontal)	29½"	29½"	26"



Catalog Listing



Complete Grinder/Finishers and Twin Belt Finisher, bench or pedestal mounted, with motor and controls factory mounted and wired as specified below. Grinder/Finishers furnished with a water pot, safety shield, wheel guards, dust collection adapter, tool rests, one coarse aluminum oxide wheel, one rubber contact wheel and one 80 G aluminum oxide belt. Twin Belt Finisher furnished with wheel guards, tool rests, two rubber contact wheels, one 40 G and one 80 G aluminum oxide belt.

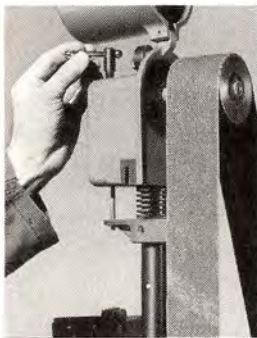
Catalog Number	Model	Motor	Motor Control	Motor Enclosure	HZ. and Motor RPM	Motor Voltage	Type	Shipping Wt./Lbs.
23-903	10" Gdr/Fshr	1 Phase, 1 HP	*On-Off Toggle Switch	TENV	60-1725	115/230	Bench	149
23-908	10" Gdr/Fshr	3 Phase, 1½ HP	†24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TENV	60-1725	230/460	Pedestal	201
23-904	10" Gdr/Fshr	3 Phase, 1½ HP	†None (not factory wired)	TENV	60-1725	230/460	Bench	195
23-905	Twin Belt Fshr	1 Phase, 1 HP	On-Off Toggle Switch	TENV	60-1725	115/230	Bench	186
23-909	Twin Belt Fshr	3 Phase, 1½ HP	24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TENV	60-1725	230/460	Pedestal	238
23-906	Twin Belt Fshr	3 Phase, 1½ HP	None (not factory wired)	TENV	60-1725	230/460	Bench	232
23-752	7" Gdr/Fshr	1 Phase, ½ HP	*On-Off Toggle Switch	TENV	60-3450	115	Bench	62
23-756	7" Gdr/Fshr	3 Phase, ½ HP	†24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TENV	60-3450	230/460	Pedestal	114
23-754	7" Gdr/Fshr	3 Phase, ½ HP	†None (not factory wired)	TENV	60-3450	230/460	Bench	109

*Motor control switch also can be used to operate Accessory 23-035 Twin-Lite.

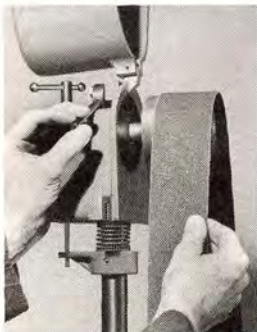
†Separate toggle switch furnished for Accessory 23-035 Twin-Lite.

NOTE: Single phase electricals will be supplied wired for 115 V. Three Phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only.

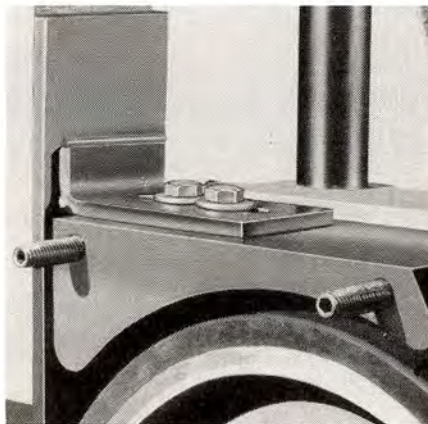
Delta Quality Features



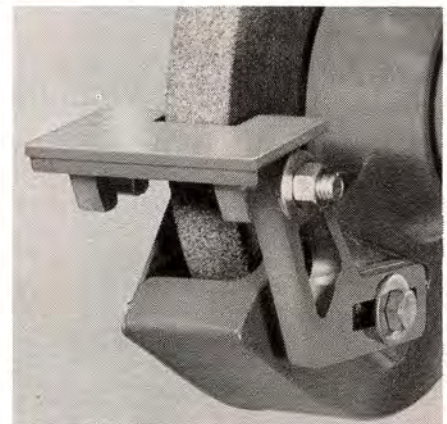
Belt Tracking Control. Swivel type handle has fine thread adjustment for accurate, easy belt tracking, yet holds setting without need for locking.



Spring-Loaded Belt Tensioner. Changing belts is a simple operation—just raise guard, pull cam lever forward to depress spring-loaded tensioner, and replace belt. Tensioner applies proper amount of tension on belt for smooth performance and proper belt tracking.



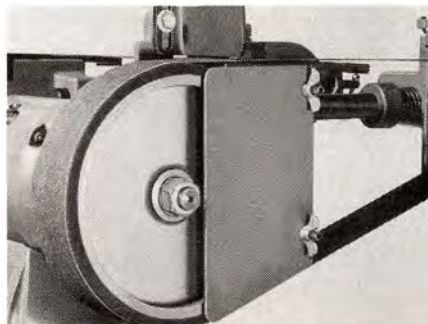
Large, Husky Platen. Ruggedly built 2½ x 6½" platen provides firm abrasive belt support over a large area. Platen is especially helpful when doing work that requires heavy pressure on the belt.



Versatile Tool Rest. Sturdy rest adjusts horizontally, vertically, or any degree in between for exact grinding angle required. Wrap-around ledges help support odd-shaped workpieces.



Built-In Dust Chutes. Cast wheel and belt guards are designed with integral dust ports for fast, easy connection of the Delta "High Efficiency" Dust Collector.



Massive Contact Wheel; Rest Doubles As a Back Stop. When the extra large 10" diameter contact wheel is required for contour or heavy duty grinding, belt guard can be quickly removed simply by loosening two wing nuts. When finishing flat work, rest can be used as a back stop to prevent work from being carried along on the belt.

Delta Quality Extras

24-volt safety control station.

Large, fully adjustable, belt grinding work support.

Advanced safety features, including protective eyeshield, wheel and belt guards, removable side plate and adjustable spark deflector.

For Grinder/Finisher Accessories, see Page M11.

For "High Efficiency" Dust Collectors, see Page O6.

For Automatic Electronic Brake, see Page P2.

Delta 7" Deluxe Grinder

Here's the finest, safest, most accurate 7" grinder you can buy!

That's because it has built into it all the famous Delta Quality Features that have made Delta 7" Deluxe Grinders the accepted standard in thousands of the nation's shops.

Check it feature for feature with any other 7" grinder on the market. Listen to its quiet, smooth operation. You'll see why leaders in industry, commercial shops and schools continually make it their first choice!



No. 23-212
Pedestal Model
7" Deluxe Grinder
shown with
Accessory 23-294
Edge Tool Grinding
Attachment.

Also made in Canada

Machine Data

Motor:
Horsepower 1/2
Shaft:

Diameter 5/8" (15.875 mm)
Extends beyond flange 1 3/4" (44.45 mm)
Frame diameter 5 23/32" (145.26 mm)

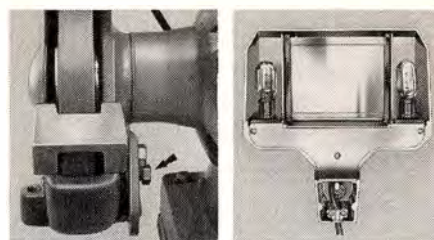
All Motors, except 200 V, are dual voltage with reconnectable feature. Single Phase Motors are capacitor-start type.

Wheels:
Diameter 7" (177.8 mm)
Face 1" (25.4 mm)
Hole 5/8" (15.875 mm)
Distance between centers 14 1/2" (368.3 mm)

Dust Collection Capability . . . See Pages O-2 and O-6

Dimensions:
Pedestal Type:
Base 14 1/4 x 16" (361.95 x 406.4 mm)
Width 23 1/4" (590.55 mm)
Depth 15" (381 mm)
Height 47 1/2" (1206.5 mm)
Tool rest from base 40" (1016 mm)

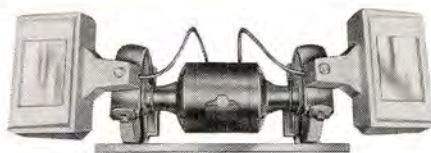
Bench Type:
Base 8 1/2 x 8 1/2" (215.9 x 215.9 mm)
Width 23 1/4" (590.55 mm)
Depth 11" (279.4 mm)
Height 13 3/4" (349.25 mm)
Tool rest from base 6 5/8" (168.27 mm)



(Left) **Precision Ground Tool Rests.** These fully machined tool rests feature a single mounting screw that locks them rigidly in place, yet they may be quickly removed for accessory attachments. They adjust completely for the exact grinding angle desired. Wrap-around ledges help support odd-shaped work pieces.

(Right) **Famous Twin-Lite® Safety Shields.** Designed to operate independently of the shop lighting system, they have no equal. Double strength, shatterproof glass safeguards operator's eyes. Special spring clips prevent rattle. Bayonet type bulbs stay tight and are shielded to prevent glare. Ideally placed, they throw a full flood of light on both sides and face of wheel without casting any shadow.

Delta Quality Features



"Thin-Line" Motor. The slim design of the motor, combined with the extra long end bells, assures ample clearance for grinding odd-shaped items and long stock. Totally enclosed, it incorporates double sealed ball bearings, plus an extra seal, to keep out harmful abrasive dust.



Specially Designed End Bells. Unique end bell hubs are oval in cross section—thick from top to bottom for

extra rigidity—thin from front to back to give an extra measure of room for manipulating odd-shaped work pieces. These hubs extend out extra far, provide more room between the grinding wheel and the motor.

Delta Quality Extras

Adjustable spark deflectors.

Cast Iron wheel guards with integral dust chutes.

Removable steel side plates.

Catalog Listing



Complete 7" Deluxe Grinder, bench or pedestal mounted, with water pot, Twin-Lite® safety shields, wheel guards, tool rests and two wheels (order four No. 23-280 Lamp Bulbs separately).

Catalog Number	Motor	Motor Control	Motor Enclosure	HZ. and Motor RPM	Motor Voltage	Type	Shipping Wt./Lbs.	
23-200	Single Phase 1/2 HP	* On-Off Toggle Switch	TENV	60-1725	115/230	Bench	80	
23-212		* 24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TENV	60-1725	115/230	Pedestal	160	
23-201		* On-Off Toggle Switch	TENV	60-3450	115/230	Bench	80	
23-202		* On-Off Toggle Switch	TENV	50-2850	115/230	Bench	88	
23-213		* 24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TENV	60-3450	115/230	Pedestal	160	
23-215	Three Phase 1/2 HP	24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TENV	60-3450	230/460	Pedestal	165	
23-214		24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TENV	60-3450	200	Pedestal	165	
Three Phase Bench Models Not Factory Wired.								
23-206		None Separate Toggle Switch Furnished For Twin Lites	TENV	60-3450	230/460	Bench	75	
23-208		None Separate Toggle Switch Furnished for Twin Lites	TENV	60-3450	200	Bench	75	

* Motor Control Switch also operates Twin Lites.

NOTE: Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only.

Delta 6" Tool Grinder

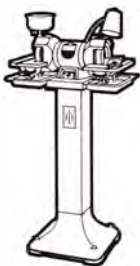
For grinding or lapping carbide-tipped tool bits or sharpening high-speed steel or alloy steel single-point cutting tools.

As a small shop owner you can do your own grinding economically and quickly, right in your own shop, the way you prefer. As a large shop owner you can use the Delta 6" Tool Grinder to relieve the bottleneck on your larger grinders. As a school shop instructor you can teach accurate grinding to your students.



No. 23-501 Bench Grinder shown with Accessory 23-805 Pedestal and Wheels (order separately).

Catalog Listing



Complete 6" Tool Grinder, Bench Model, with 25-857 Lamp Attachment, 23-663 Water Pot, 31-804 Sliding Angle Jig, motor and on-and-off reversing switch. Less wheels and pedestal.

Catalog Number	Type	Motor—1/2 HP	Speed RPM	Shp. Wt./ Lbs.
23-501	Bench	115/230 V, 60 Hz, Sgl. Ph.	3450	85
23-502	Bench	230/460 V, 60 Hz, 3 Ph.	3450	85
23-509	Bench	200 V, 60 Hz, 3 Ph.	3450	85

NOTE: Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power cord and plug supplied for single phase only.

Machine Data

Motor:
Horsepower 1/2
Totally enclosed (TENV)

All motors are dual voltage with reconnectable feature. Single Phase Motors are capacitor-start type.

Wheels Recommended:
Size 6" (152.4 mm) diameter; 1" (25.4 mm) thick; 1" (25.4 mm) face, with 1 1/4" (31.75 mm) hole

Type plate mounted (D6A2C diamond wheels)

Bolt circle 3 1/4" (82.55 mm)

Holes in plate (4): for diamond wheels

For Sil. Carb. and Alum. Ox. wheels 3/32" (5.56 mm), countersunk

1 3/32" (10.32 mm), straight

Wheel Flanges:
6" (152.4 mm) diameter, tapped for mounting wheels. Aluminum, dynamically balanced

Tables:

Tilt 45° out and 30° in

Size 7 1/4 x 12 3/4" (184.15 x 323.85 mm)

Groove for sliding angle jig 3/16 x 1/2" (4.76 x 12.7 mm)

Overall Dimensions, Bench Type:

Height without lamp 14 1/4" (361.95 mm)

Width 24 3/4" (628.65 mm)

Front to back 15" (381 mm)

Base:

Overall space on bench 8 1/2 x 8 1/2" (215.9 x 215.9 mm)

Centers of mounting holes 6 3/4 x 6 3/4" (171.45 x 171.45 mm)

Overall Dimensions, Pedestal Type:

Height without lamp 47 1/4" (1200.15 mm)

Width 24 3/4" (628.65 mm)

Front to back 15" (381 mm)

Base:

Overall space on floor:

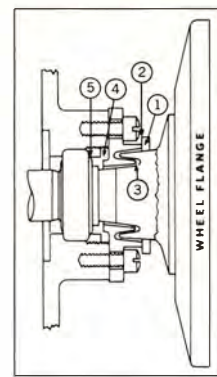
Width 16" (406.4 mm)

Front to back 14" (355.6 mm)

Centers on floor mounting holes:

Left to right 11 7/8" (300.87 mm)

Front to back 10" (254 mm)

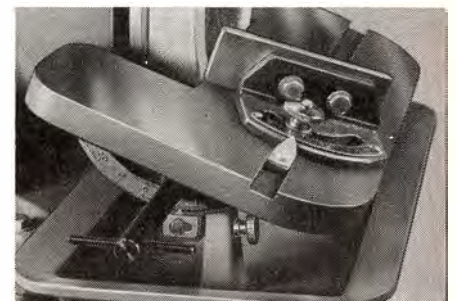


Motor Bearings Protected 5 Ways. It is impossible for water or abrasive grit to reach the motor bearings. Here's why: (1) Neoprene slinger washer throws water off by centrifugal force. (2) Positive contact of washer against seal closes opening to labyrinth. (3) Labyrinth type, centrifugally designed bearing seal

interlocks with wheel flange. (4) Space between labyrinth seal and motor bearing is packed with grease. (5) Actual motor bearing is sealed as final protective measure.



Specially-Designed Motor. Totally enclosed motor has heavy, integrally cast end bells which double as husky, safe wheel guards. All motors are dual voltage, re-connectable type.



Husky, Extra Large Tables. Made of cast iron, they ride on widely spaced trunnions for maximum rigidity in operation. Easy-to-read scales at both ends facilitate tilting to 30° in and 45° out for grinding cutter bit angles easily and accurately.

Delta Quality Features



Handy Brake. Convenient Reversing Switch. Reversing brake quickly stops wheels to save valuable production time. Switch instantly reverses wheel rotation so wheel is turning downward at both front and rear grinding points.



Wheel Centering Ring (shown in place). A ring is provided to automatically center wheels when mounted. Flanges have two sets of mounting holes, one for silicon carbide or aluminum-oxide wheels and one for diamond wheels.

Delta Quality Extras

Balanced motor and wheels assure extra smooth grinder operation.

Handy water pot with faucet mounts on either right or left side of machine.

Aluminum wheel flanges are dynamically balanced to assure vibration-free running.

Lamp attachment provides a full flood of light at the four grinding points.

Quick-release coolant pans remove easily for fast cleaning.

For Grinder Accessories, see Page M11.

For "High Efficiency" Dust Collectors, see Page O6.

For Automatic Electronic Brake, see Page P2.

Delta Sander/Grinder

World's most versatile finishing machine!

When it comes to versatility, the Delta Sander/Grinder has no equal.

Performs Unlimited Operations. Perfectly suited for all users, it can be used on wood, metal, plastics, leather, rubber, ceramics, and composites to do dozens of jobs like these: Sanding or grinding to a line, deburring parts and pieces, contouring to a desired shape, finishing for painting or plating, polishing the finished product, sharpening cutting

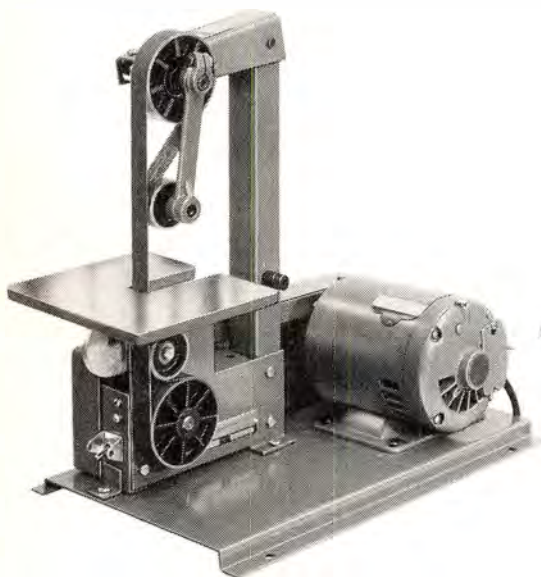
edges, cleaning intricate or inside edges.

Does Work of Many Machines. This one low-cost machine will do the work of the band saw, jig saw, coping saw or hand file, only better. It sands at amazing speed while giving perfect results. It's more flexible than the grinder, too, because it can be used to sand or grind internal or external surfaces with or without the platen.

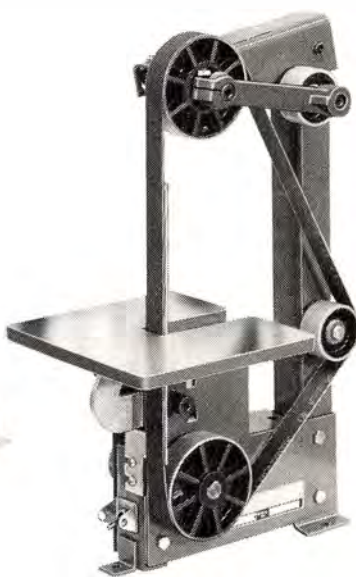
Complete Portability. Can easily be moved from one location to another—no lost production time!

Belts are better than any other method because:

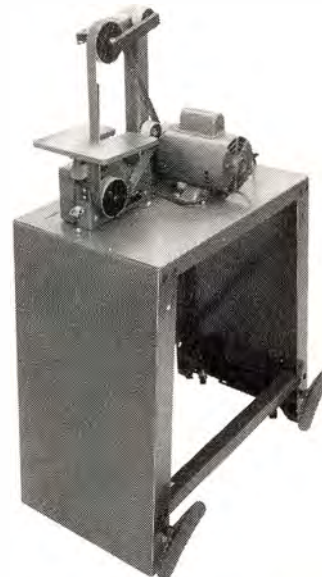
- They cut faster—result in sharper, faster cutting action than conventional grinding wheels.
- They operate cooler—you get increased production with longer belt life.
- They give better quality—sharper grain structure, cooler operation, custom-selected belt all result in better quality finish.
- Wide variety of belts available—you can select a specific belt for material being worked and finish desired.



Portable Model shown with pulley and belt guard, and motor, mounted on metal base plate.

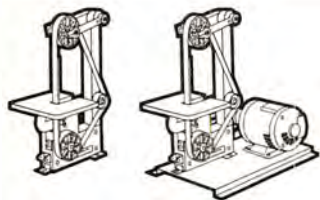


Basic Sander/Grinder unit



Floor Model shown with motor and switch, mounted on steel stand, with casters.

Catalog Listing



No. 31-351 Basic Sander/Grinder with table, flat platen for 1" abrasive belts, 2" arbor V-pulley, 31-361 Guard for arbor pulley and one 1 x 42", 80 grit, aluminum oxide belt. 22 lbs.

No. 31-352 Sander/Grinder with Heavy Duty Motor and Base. Includes 31-351 basic machine plus 62-144 1/2 HP capacitor start motor with switch, cord and 3-prong plug, 31-360 base, 49-105 V-belt, 41-023 motor pulley and 31-366 guard for motor pulley and V-belt. Fully assembled and ready to plug in on 115 V, 60 Hertz, single phase. 55 lbs.

Machine Data

Motor Recommended . . . 3450 RPM; 1/2 HP

Capacities:

Belt to column 7 1/8" (181 mm)
Table to upper idler inside grinding,
with 44" (1117.6 mm) belt . . . 3" (76.2 mm)

Abrasive Belt:

Length:
Minimum 40" (1016 mm)
Standard 42" (1066.8 mm)
Maximum 44" (1117.6 mm)
Width:
Minimum 1/8" (3.18 mm)
Maximum 1" (25.4 mm)

Speed: (with contact wheel):
. 4600 SF/M (1,402 Surf. M/Min.); Std.
. 4000 SF/M (1,219 Surf. M/Min.)

Diameter of Drive Shaft:
(both ends) 5/8" (15.9 mm)

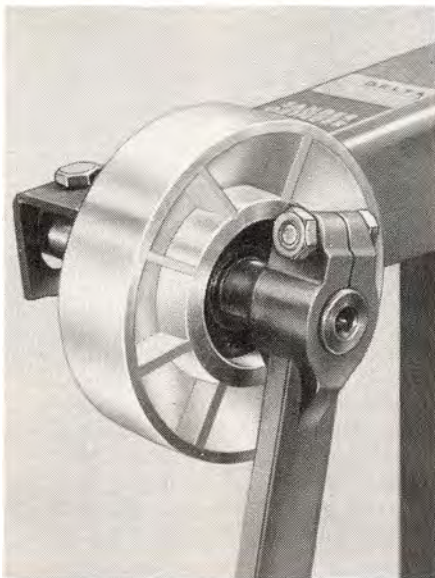
Table:

Size 7" (177.8 mm) Deep x 8"
(203.2) mm wide; with
1 3/16 x 3/4" (30.2 x 19.05 mm) slot
Tilts 10° in; 90° Out
Height from bench 8 3/4" (222.3 mm)
with 31-360 plate 9 1/2" (241.3 mm)

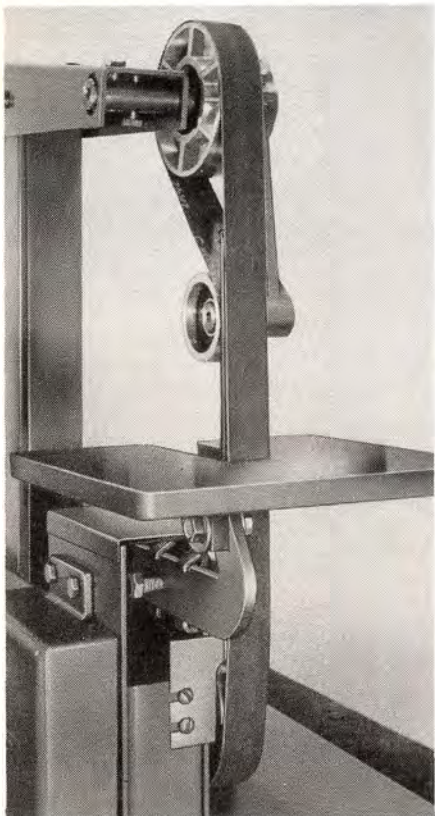
Overall Dimensions:

Bench Type (without 31-360 plate):
Height 20 1/4" (514.35 mm)
Width 8 1/2" (215.9 mm)
Front to rear 12" (304.8 mm)
Bench Type (on 31-360 plate):
Height 21 1/8" (536.58 mm)
Width 12" (304.8 mm)
Front to rear 21" (533.4 mm)
Floor Type (on 50-510 stand)
Height 48 3/4" (1238.25 mm)
Width 16 3/4" (425.45 mm)
Front to rear 29 1/4" (742.95 mm)
Height from floor
(on 50-510 stand) 40 1/4" (1022.4 mm)

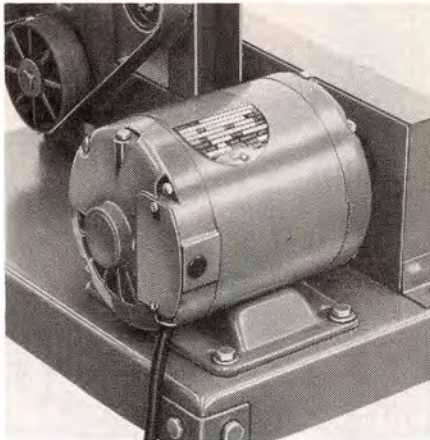
**Delta Sander/Grinder
Quality Features**



Specially Designed Plastic Wheels. The balanced, true running wheels are made of heat resistant CYCOLAC®, precision molded onto sealed, lubricated-for-life ball bearings. Wheel rims are crowned for easy belt tracking and made of wear resistant TEXIN®, permanently bonded to the wheel body.



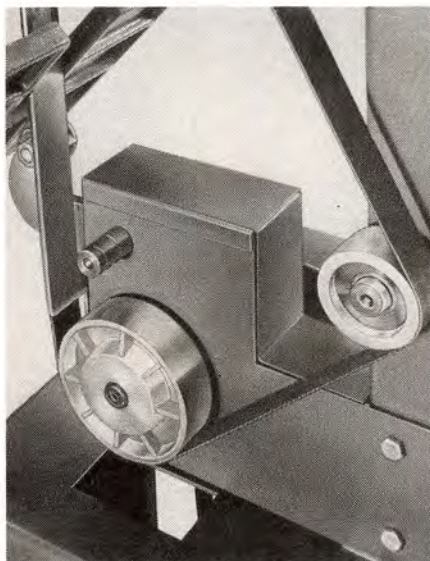
Heavy Steel Table. Sturdy 7 x 8" table has a single mounting bolt for quick positioning or removal. Table tilts 10° in and 90° out for bevel work.



Proper Motor Used. Only Delta offers a heavy duty, ½ HP, 3450 RPM motor. You get the right belt speeds for efficient sanding and grinding—4000 SFPM with a standard pulley—4600 SFPM with the contact wheel.

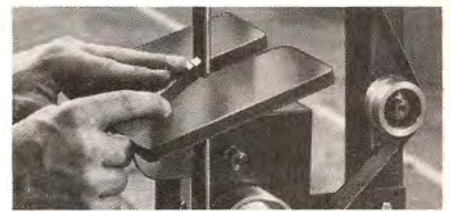


Efficient Rubber Contact Wheel. A general purpose wheel, it is recommended for a wide variety of jobs including fast removal of stock or rough finishing. Also excellent for flash grinding on soft metals.

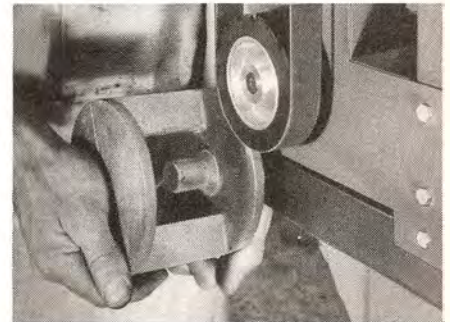


Fully Protected Arbor Shaft. Arbor shaft bearing is completely enclosed, preventing entry of harmful abrasive dust. Note also the use of husky 5/8" bearing shafts, plus sealed-for-life ball bearing construction throughout.

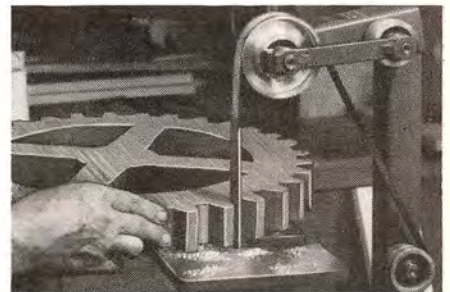
**The Delta Sander/Grinder does
these jobs easier, faster, better!**



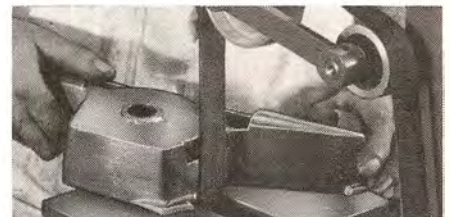
Toolroom. Grinds cutting tools to exact specifications.



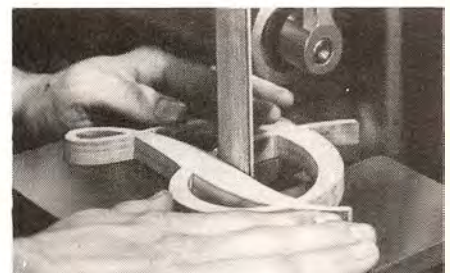
Foundry. Using contact wheel, aggressively removes flash and excess stock.



Pattern Shop. Narrow band gets into small openings, finishes patterns rapidly to close tolerances.



Plating Department. Polishes die cast aluminum housing prior to plating.



Sign Shop. After quickly threading belt, internal sanding becomes an easy operation.

Note: For Grinder Accessories, see page M11.

Delta 1/2 HP Long-Shaft Buffer

Capably handles dozens of buffing, cleaning, polishing and finishing jobs!

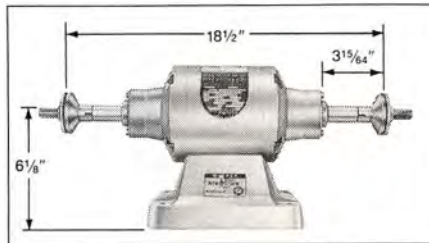
No matter what the operation—removing rust or burrs from castings, polishing or coloring plastic, cleaning parts and pieces, removing tarnish and rust from guns—the Delta Long-Shaft Buffer will more than meet your every job requirement. Actually, its uses are practically unlimited.

Check it, feature for feature, with any other make and you will agree that it is the buffer for you!

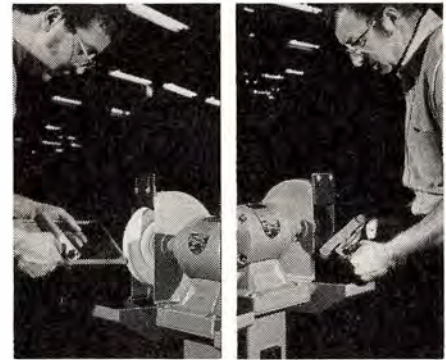
- Unique oval end bell hubs and extra long shafts, which extend 3 1/8" from bearing seal to wheel flange, provide more room for handling large or oddly shaped work pieces.
- Slim designed, "thin-line" motor and extended shafts assure ample clearance for buffing long stock. Totally enclosed motor incorporates double sealed ball bearings, plus an extra seal to keep out harmful dust.
- Capacitor start, 115/230 V, single phase motor requires low starting current. It won't dim lights like split-phase motors.



No. 23-249 Long-Shaft Buffer
Pedestal Model shown with 23-281 Accessory Wheel Guards.

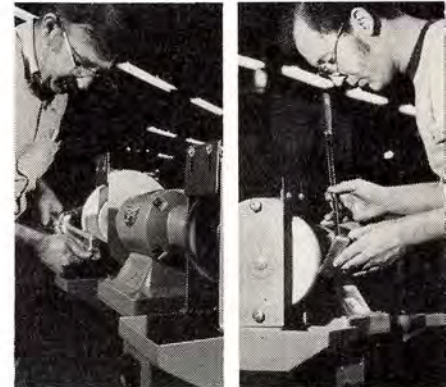


Typical Applications for the Delta 1/2 HP Long-Shaft Buffer



(Left) In Commercial Shops. Plastic manufacturers find the Delta Long-Shaft Buffer an excellent unit for turning down, polishing and coloring plastic pieces and components.

(Right) In Industry. Oval end bell hubs and extra long shafts facilitate the removal of rust and burrs from odd-shaped castings and parts.



(Left) In Repair Shops. Appliance shops appreciate the extra amount of clearance between the motor and the buffing wheel when cleaning and polishing bulky items like sweeper housings.

(Right) In Specialty and "Pro" Shops. The Delta Buffer is ideal for removing rust and tarnish from golf clubs, guns, etc., to provide a factory-new surface in just minutes.

Machine Data

Horsepower	1/2
Shaft:	
Diameter	5/8" (15.875 mm)
Extends beyond flange	2 1/2" (63.5 mm)
Frame Diameter	5 23/32" (145.26 mm)
Distance Between Faces of Wheel Flanges	18 1/2" (469.9 mm)
Distance from Bearing Seal to Wheel Flange Face	3 1/8" (82.15 mm)

Centerline of Spindle to Bottom of Base	6 1/8" (155.57 mm)
Diameter of Wheel Flange	2 1/2" (63.5 mm)
Dust Collection Capability ..	See Page O-6
Overall Dimensions:	
Base	8 1/2" x 8 1/2" (215.9 x 215.9 mm)
Depth	11" (279.4 mm)
Width	23 1/2" (596.9 mm)
Height	13 3/4" (349.25 mm)

Catalog Listing



Complete 1/2 HP Long-Shaft Buffer, bench or pedestal mounted, with motor and controls factory mounted and wired as specified below (less wheels and wheel guards).

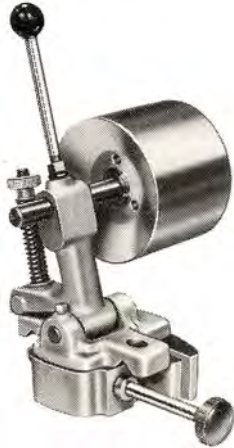
Catalog Number	Motor	Motor Control	Motor Enclosure	HZ. and Motor RPM	Motor Voltage	Type	Shipping Wt./Lbs.
23-233	Single Phase 1/2 HP	On-Off Toggle Switch	TENV	60-3450	115/230	Bench	43
23-249		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TENV	60-3450	115/230	Pedestal	128
23-234		On-Off Toggle Switch	TENV	60-1725	115/230	Bench	43
23-251		24V Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC)	TENV	60-1725	115/230	Pedestal	128
23-261	Three Phase 1/2 HP	24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TENV	60-3450	230/460	Pedestal	129
23-263		Three Phase Bench Models Not Factory Wired.	TENV	60-3450	200	Pedestal	129
23-241		None	TENV	60-3450	230/460	Bench	43
23-239		None	TENV	60-3450	200	Bench	43

NOTE: Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only.

For "High Efficiency" Dust Collectors, see Page O6.

Delta Grinding and Finishing Components

Build your own grinding and polishing units around the Delta 31-438 arbor head or convert your present polishing lathe using set-up wheels, or your bench grinder using grinding wheels, to the modern coated abrasive belt method of grinding and polishing. With a contact wheel, backstand idler and abrasive belts, most standard floor or bench grinders and most polishing lathes or jacks can be converted at low cost.



4" Right Backstand Idler Unit

Suitable for either left or right side operation. Hand knob swivels drum for belt tracking and lateral adjustment is provided for accurate alignment. Belt tension is quickly adjusted by means of a self-locking hand knob. Convenient lever instantly releases tension for quick belt changing.

No. 31-425 Backstand Idler Unit with 4" wide by 5 3/8" diameter drum, with mounting bolts and instructions for changing from R.H. to L.H. set-ups. 19 lbs.

2 3/4" Left Idler Unit

No. 31-431 — Similar to 31-425 except drum is 2 3/4" wide. Includes instructions for right-hand assembly. 17 lbs.

ArborHead

Arbor runs in sealed, lubricated-for-life ball bearings; extends 3 1/2" out from the inner flange on either side of the head. 2 1/2" ground Acme thread accommodates contact rolls and wheels from 7/8" to 2 7/8" in width.

No. 31-438 Arbor Head. Complete with dynamically balanced arbor pulley, two drive belts, two 2 1/32" diameter flanges with nuts to fit 5/8" arbor. 25 lbs.

No. 31-877 Rubber Contact Wheel complete. Consists of 31-875 tire and 31-876 hub. 6 lbs.

No. 31-875 Rubber Tire for Contact Wheel

2 1/2" wide, 6" dia. 30-40 durometer (med. soft), with 45° standard serrations. Can be used up to 750 sfpm. A general purpose tire for wood or metal work—stampings, die castings, forgings and contour grinding. 3 lbs.

No. 31-876 Hub for Contact Wheel.

5/8" bore, consists of bushing and washer for mounting 31-875 tire and other tires with same mounting dimensions. 3 lbs.



Delta Grinder, Grinder/Finisher and Sander/Grinder Accessories

For All Grinders and Grinder/Finishers



Grinding Wheels. Aluminum Oxide.

Cat. No.	Dia.	Face	Arbor Hole	Type	Wt. Lbs.
23-826	6"	3/4"	1/2"	36 Grit, Grade O	2 1/2
23-827		3/4"		60 Grit, Grade O	2 1/2
23-001		1/2"		46 Grit, Coarse	1 3/4
23-002		1/2"		60 Grit, Fine	1 3/4
23-620		5/8"		38 Grit, Grade O	2
23-621	5/8"	60 Grit, Fine	2		
23-815	7"	1"	5/8"	60 Grit, Grade N	4
23-816		1"	60 Grit, Grade M	4	
23-809	8"	1"	3/4"	60 Grit, Grade N	5
23-810		1"	46 Grit, Grade M	5	
23-817	10"	1"	3/4"	24 Grit	7

Grinding Wheels. Vitreous Aluminum Oxide. Special friable wheels for cool grinding of drills and other cutting tools.

Cat. No.	Diam.	Face	Arbor Hole	Type	Wt. Lbs.
23-828	6"	1/2"	1/2"	54 Grit, Grade K	2
23-267	7"	5/16"	5/8"	46 Grit, Grade N	2
23-811	8"	5/8"	3/4"	46 Grit, Grade G	3



Wire Brushes. For removing rust and scale from metals.

Cat. No.	Diam.	Arbor Hole	Type	Wt./Lbs.
23-113	6"	1/2"	Coarse	1
23-114			Fine	1
23-632	6"	5/8"	Fine	1
23-637			Medium	1
23-638			Coarse	1

Buffing Wheels. For polishing and cleaning all types of materials.

Cat. No.	Diam.	Face	Arbor Hole	Wt./Lbs.
23-005	6"	1/2"	1/2"	3/4
23-825*	8"	3/4"	5/8"	1

*Includes pair of flanges.

No. 23-511 Fiber Brush. Tampico fiber. 6" diameter with 1/2" arbor hole. For general cleaning; not as harsh as wire wheels. 1 lb.

Buffing Compounds

Giant one pound bars of the most common compounds used for buffing, polishing and cleaning all types of materials.



Number	Description	Use
23-007	Rouge (Red)	For gold, silver and other precious metals
23-008	Rouge (White)	For nickel, chromium, iron, stainless steel, cast brass and aluminum
23-009	Emery (Black)	For removing rust, scale and tarnish
23-010	Tripoli (Brown)	For aluminum, brass, copper, pewter, wood, plastic

No. 23-004 Buffing Compound Kit. Consisting of 1/4 lb. bars of compounds: Rouge Red, Rouge White, Emery Black and Tripoli Brown. 1 lb.

For 10" and 7" Grinder/Finisher and Twin Belt Finisher

Abrasive Belts. Aluminum Oxide, cloth backing, closed coat. Package of five.

Cat. No.	Width and Length	Grit and Grade	Wt. Lbs.
23-507	2" x 48"	40 G Coarse	1
23-508	2" x 48"	80 G Medium	1
23-515	2" x 48"	120 G Fine	1
23-516	2 1/2" x 60"	40 G Coarse	1 1/2
23-557	2 1/2" x 60"	80 G Medium	1 1/2
23-556	2 1/2" x 60"	120 G Fine	1 1/2

Delta Grinder, Grinder/Finisher and Sander/Grinder Accessories

For 6" Tool Grinder

Grinding Wheels. Silicon Carbide.

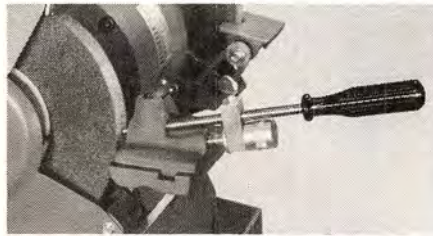
Cat. No.	Diam.	Arbor Hole	Face	Type	Wt. Lbs.
23-661	6"	1 1/4"	1"	60 Grit, Grade H 12	4
23-662	6"	1 1/4"	1"	120 Grit, Grade H 12	4

Grinding Wheels. Aluminum Oxide.

Cat. No.	Diam.	Arbor Hole	Face	Type	Wt. Lbs.
23-841	6"	1 1/4"	1"	46 Grit, Grade G (for roughing)	4
23-842	6"	1 1/4"	1"	80 Grit, Grade J (for finishing)	4

No. 31-804 Sliding Angle Jig. Tilt angle scale, with adjustable pointer, facilitates accurate grinding of compound angles up to 45°, right or left.

For 10", 8", 7" and 6" Tool Grinders; also 10" and 7" Grinder/Finishers

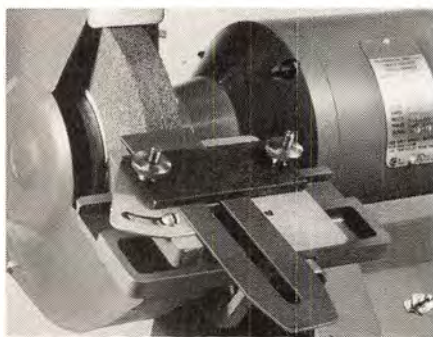


No. 23-312 Diamond Pointed Wheel Dresser. For dressing all types of general grinding wheels. Diamond is securely held. Sturdy tool is 9 1/2" long with a comfortable handle. 1 lb.

No. 23-664 Holder for Diamond Wheel Dresser. Used with No. 23-312 Wheel Dresser. 4 lbs.

No. 23-805 Pedestal for converting Bench Model Grinders and Grinder/Finishers to pedestal type. 52 lbs.

For 10", 8" and 7" Grinders; also 10" and 7" Grinder/Finishers



No. 23-294 Edge Tool Grinding Attachment. For sharpening plane irons, wood chisels, putty knives, scrapers and similar items up to 3 1/4" wide.

Adjustable quadrant permits accurate grinding of angle knives. Use with vitreous aluminum oxide wheel. Can be used with No. 23-312 Diamond Wheel Dresser instead of No. 23-664 Wheel Dressing Tool Holder. 6 lbs.

No. 23-035 Twin-Lite® Safety Shield (one only) with double strength, shatterproof glass. Provides a full flood of light on both sides and face of wheel. Without bulbs. 5 lbs.

No. 23-280 Appliance Type Bulb. Clear glass, 25 watt, 115-125 V, with double contact bayonet "plug-in" base. Order two bulbs for each 23-035 Safety Shield. 1/4 lb.

For 7" Deluxe Grinder

No. 23-292 Motorless Gravity Type Dust Collector for pedestal grinder. Complete with filter, bracket and screws. 29 lbs.

No. 23-293 Replaceable Filter for above. 3 lbs.



No. 23-296 Drill Grinding Attachment. Grind straight shank twist drills to fit your job—with clearance and point angles at any degree you need. Capacity—1/8" to 5/8" drills. Furnished with No. 23-664 Holder for Wheel Dresser. 12 lbs.

Order No. 23-312 Diamond Wheel Dresser separately.

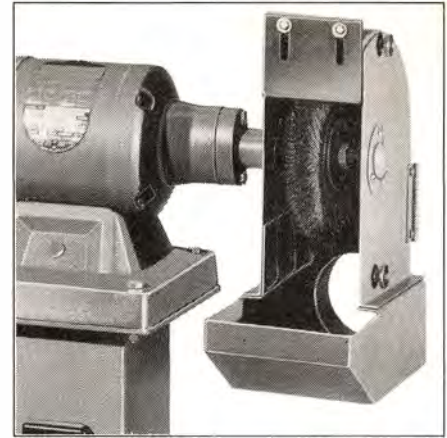
For 6" Bench Grinder

No. 23-845 Edge Tool Grinding Attachment. For sharpening plane irons, wood chisels and putty knives up to 3 1/4" wide. For use with special No. 23-828 Aluminum Oxide Wheel. 6 lbs.



No. 25-857 Lamp Attachment for 115 V. Includes 18" flexible gooseneck, reflector and 6' cord with plug. Uses standard bulb (not included) up to 100 watts. 3 lbs.

For 1/2 HP Long-Shaft Buffer



No. 23-281 Wheel Guards, one pair, with 3" O.D. built-in dust chutes. Guards increase operator safety when using Long-Shaft Buffer. 20 lbs.

For Sander/Grinder

Abrasive Belts. Aluminum Oxide. 1" x 42" with cloth backing. Package of five.

Cat. No.	Grit and Grade	Wt./Lbs.
31-370	40 G, Coarse	1/2
31-371	50 G, Coarse	1/2
31-372	80 G, Medium	1/2
31-373	120 G, Medium	1/2
31-374	150 G, Fine	1/2
31-375	220 G, Fine	1/2
31-376	320 G, Extra Fine	1/2

No. 50-510 Stand for use with 31-351 Basic Unit. 30 lbs.

No. 50-118 Retractable Caster Set for 50-510 Stand. 12 lbs.

No. 41-023 Motor Pulley, 2 1/2" diameter, 5/8" bore. 1/2 lb.

No. 49-105 V-Belt, 30 1/8" O.C. Used with 31-360 Base or for rear motor position on customer's bench. 1/2 lb.

No. 31-360 Metal Base Plate, 12" wide x 18 1/2" front to rear x 7/8" high. Drilled for mounting Sander/Grinder and motor, and for mounting Base Plate to work bench. 8 lbs.

No. 31-361 Guard for Arbor Pulley. Can be used for rear or underneath motor position. Includes mounting screws and washers. 2 lbs.

No. 31-362 Rubber Contact Wheel, 4" diameter, 1" face, special bore size, with set screw, 60 durometer, with 45° standard serrations. A general purpose wheel recommended for both stock removal and rough finishing. Can be used for flash grinding on soft metals. 1 lb.

No. 31-363 Flat Platen for 1" belts. 1/2 lb.

No. 31-364 Flat Platen for 1/2" or narrower belts. 1/4 lb.

No. 31-365 Convex Platen, 1/2 radius, for 1" belts. 1/4 lb.

No. 31-366 Guard for V-Pulleys and V-Belt. Include mounting parts. Recommended for use when motor is mounted to rear on customer's bench or on 31-360 Base Plate. 4 1/2 lbs.

Delta Wood Lathes

Choice of Four Model Variations!

16" Electronic Variable Speed Model—The latest in lathe technology! Fingertip speed selection and repeatability plus big 16" diameter by 52" turning capacity.

12" Heavy Duty Model—A variable-speed, gap-bed lathe that offers speeds of 340 to 3200 RPM. This wide speed range, combined with heavy duty construction, makes it well suited for wood turning, metal spinning and light metal turning.

12" Standard Duty Variable Speed Model—Provides speeds of 340 to 3600 RPM, together with big capacities. 12" over bed; 16" over gap; extra large, using outboard spindle; plus 39" capacity between centers.

12" Standard Duty 4-Speed Model—Offers the same fine features as the Variable Speed Model, except it's equipped with four popular speeds at a very economical price.



Delta DL-40 16" Electronic Variable Speed Wood Lathe

The Latest Lathe Technology is at Your Fingertips

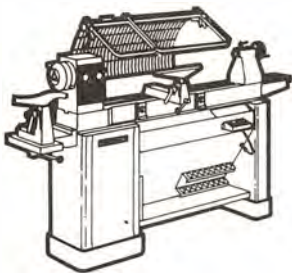


Delta has combined years of experience in the wood-working field with the most advanced electronics technology available in the design of the DL-40 16" Electronic Variable Speed Wood Lathe. The result is a lathe that answers the industry's demands for increased capacity, operator convenience and greater control over accuracy.

- The microprocessor based control offers fingertip speed selection and precise speed repeatability. As a safety option, the lathe can be set in a slo-start mode which limits spindle rotation to 300 rpm each time the lathe is set to run. In addition, the electronics constantly "communicate" with the 1 1/4 HP D.C. motor to assure constant torque transmission, and can compensate for varying loads on the spindle.
- The DL-40 offers more flexibility with an extra long cast iron bed for a full 52" turning length between centers, maximum inboard turning diameter of 16" and 24" diameter on the outboard spindle. The variable speed range from 300-2200 rpm will accommodate both large and small turnings; 300-1000 rpm spindle speeds in reverse for sanding and finishing operations.
- The DL-40 16" Electronic Variable Speed Wood Lathe is well suited for nearly every level of application. Its heavy duty size and capacities suit industrial and commercial shops alike. The accuracy and operating convenience of this machine will make it a favorite among professionals, whereas the built-in safety features should make the DL-40 attractive for school use. Take a look at the benefits offered by this unit today.

Catalog Listing

No. 46-400 16" Electronic Variable Speed Wood Lathe.



Includes Basic Unit, Cabinet Stand, 1 1/4 HP DC Motor, Motor Pulley and Drive Belt, Microprocessor Control Box, Two-Part Safety Shield, Inside and Outside Tool Support Bases, Bed Extension, Inside French Curl Tool Support, 2" Tool Support, 6" Tool Support, Drive Center, Cup Center, 3" Face Plate, 6" Face Plate, Instruction Manual and Parts List.

Catalog Number	Motor	Motor Control	Motor Encl.	Hz	Operating Voltage
46-400	1 1/4 HP DC	Microprocessor based Push Button Control Overload, Low and No Voltage Protection	TEFC	60	115V

Machine Data

Capacities:

Swing over bed	16" dia. (406.4 mm)
Swing over Tool Rest Base	12" dia. (304.8 mm)
Swing on Outboard Spindle	24" dia. (609.6 mm)
Distance Between Centers	52" (1320.8 mm)

Speeds (fingertip control in increments of 10 or 100 rpm)

Forward	300-2200 rpm
Reverse	300-1000 rpm

Spindles

Inboard	1"-8RH thread
Outboard	1"-8LH thread
Hollow Headstock Spindle	5/8" dia. hole (15.8 mm)

Headstock and Tailstock Tapers No. 2 M.T.

Ram Travel 3 1/8" (79.38 mm)

Height (centerline of spindle to floor) 43" (1092.2 mm)

Overall Dimensions:

Height	46" (1168.4 mm)
Width	13" (330.2 mm)
Length (w/outboard table)	86" (2184.4 mm)
(w/o outboard table)	74" (1879.6 mm)
Weight	485 lbs. (220.45 Kg)

Motor 1 1/4 HP DC Motor

Microprocessor Control:

Stop, run, reverse & speed controls	Membrane "fingertip" Buttons
Speed Display	L.E.D. Readout
On/Off Switch	Raised "Mushroom" Button

Motor Control:

Normal w/ soft-start	Initial speed = 300 rpm subsequent runs at operators' preset speed.
Slo w/ soft-start	Initial speed = 300 rpm subsequent runs begin at 300 rpm maximum.

For Accessories, see Page N8.

Quality Features

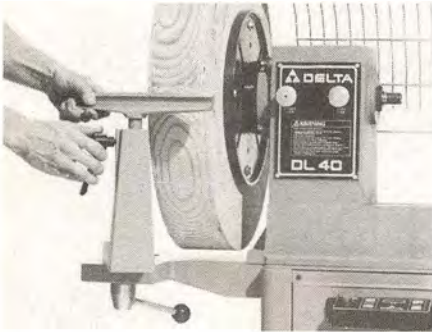


The benefits of microprocessor based control. The advanced electronics used in the DL-40 Wood Lathe actually simplify the overall operation of the machine:

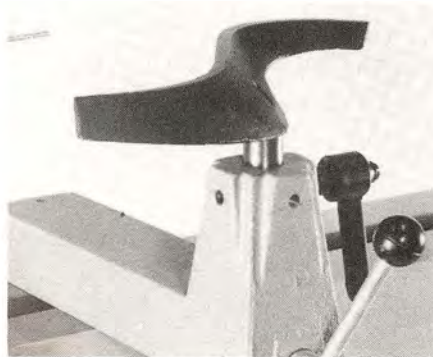
- The machine is turned on by pulling up on the red mushroom start switch. Initially, the LED readout will flash 300 rpm.
- Arrow buttons adjust speed. A single touch changes speed by 10 rpm. Steady pressure alters speed in increments of 100 rpm.
- The spindle will rotate at the preset speed when the "run" button is depressed.
- "Stop" halts spindle rotation temporarily for measurements etc.
- "Rev" reverses spindle rotation for sanding or finishing operations.
- Depressing the red mushroom button turns off the lathe.
- Control box can be operated at either the headstock or tail end of the lathe according to the operator's preference. In addition, the control can be removed entirely to prevent unauthorized use.



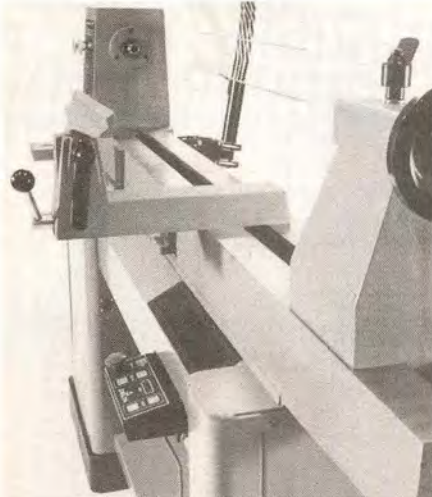
Normal and Slo Start Options determine spindle starting speed. In the normal mode, the operator can resume set running speed for optimum repeatability. Slo-start sets spindle speed at 300 rpm each time run switch is activated. This feature is particularly convenient when there are multiple or inexperienced operators.



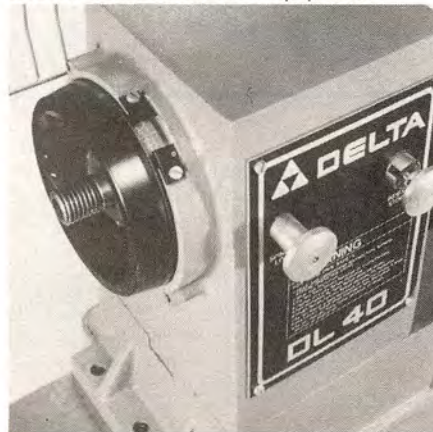
Outboard Turning Convenience with a full 24" dia. capacity. Detachable cast iron shelf is standard; slotted for outboard tool rest base. Note that the microprocessor control box has been moved to the headstock for operator convenience.



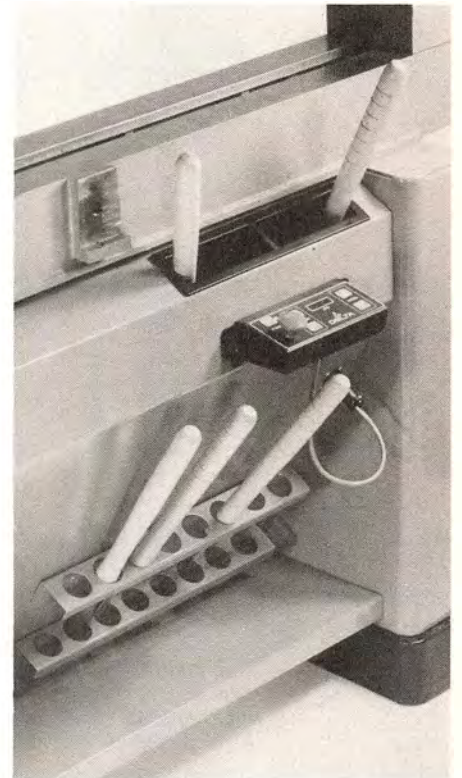
Unique Tool rest base can be positioned at various angles to workpiece, handle can be inserted in any one of three threadings — out of the operators' way. Specially designed French curl tool rest simplifies bowl turnings and is included as standard equipment.



Extra long cast iron bed allows spindle turning up to 52" between centers; dampens vibration for higher accuracy. All handles are spring-loaded for fast and easy adjustment.



Thirty-six point indexing control simplifies reeding and fluting operations. Degree divisions are changed with hand wheel on outboard spindle and shown on the rotating scale. Spindle lock facilitates face plate changing.



Convenient Tool Holders for immediate use or permanent storage are built into the lathe cabinet. If desired, stand is designed to accept sand or other weighting material for added stability.

Delta 12" Heavy Duty Wood Lathe

A big capacity, variable speed, gap bed wood lathe that will provide top-flight performance year after year!

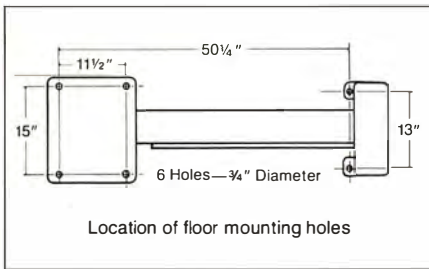
This massive lathe is designed for industry, commercial shops and schools, wherever there is a demand for continued accuracy and long life through years of safe, heavy duty operation.

It offers big capacities. You can, for example, turn stock up to 12" in diameter over the bed—up to 16½" diameter by 3½" thick over the large bed gap—extra large work on the outboard spindle. And with Delta's gap filler block, which actually extends the bed ways into the gap, you get the rigid tool support you need for metal spinning, thin face plate turnings, or any work that must be done right at the headstock.

It incorporates a powerful variable speed drive. Delta's perfected variable speed drive offers a low 340 RPM speed for turning metals or rough woods, plus an infinite choice of speeds up to 3200 RPM for sanding and polishing. This drive, which includes speeds of 900 to 1400 RPM for metal spinning, guarantees smooth, even transmission of power to the spindle under all work loads.



12" Heavy Duty Wood Lathe with safety shield and electricals.



Location of floor mounting holes

Catalog Listing



Complete 12" Heavy Duty Wood Lathe with deluxe cabinet, 46-808 safety shield, 46-692 12" tool support, 46-805 6" tool support, 46-171 tool support base, 46-430 off-set tool support base, 46-933 drive center, 46-439 cup center, 46-936 3" face plate, 46-937 6" face plate, 49-146 V-belt, 49-195 V-belt, 41-043 3" O.D. motor pulley (5/8" bore), motor and controls factory mounted and wired, ready to run.

Catalog Number*	Catalog Number**	Motor	Motor Control	Motor Enclosure	Hertz and Motor RPM	Motor Voltage	Shipping Wt./Lbs.
46-621	46-611	Single Phase, 1 HP	Push Button Switch Only	TEFC	60-1725	115/230	581
46-622	46-612		24 V Push Button Station; Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230	588
46-623†	46-613	Three Phase, 1 HP	24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	578
46-624	46-614			TEFC	60-1725	200	578

NOTE: Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only. Motors and Motor Controls for Delta 12" Heavy Duty Wood Lathes may be ordered unmounted. For listing, see Section R.

†**No. 49-000 "JIC" Type Control Kit.** Specify this Catalog Number, in addition to Three Phase Cat. No. 46-623, in order to obtain 12" Heavy Duty Wood Lathe with "JIC" type electricals, factory mounted and wired.

*Catalog Number includes motor and control without Slow-Start system.

**Catalog Number includes motor, control and Slow-Start system. (See Page N8 for description)

Machine Data

Capacities:

Swing over bed 12" (304.8 mm)
 Swing over bed gap . . . 16½" (419.1 mm) dia.
 For 3½" (96.5 mm) stock
 Swing over tool rest 8¼" (209.5 mm)
 Distance between centers . . . 38" (967.2 mm)

Speeds:

With 1725 RPM motor variable from
 340 to 3200 RPM

Spindle:

Nose—inboard 1"—8 RH thread
 Nose outboard 1"—8 LH thread
 Hole (completely
 through spindle) 5/8" (15.8 mm)

Headstock and Tailstock Tapers No. 2 M.T.

Ram Travel 2¼" (57.1 mm)

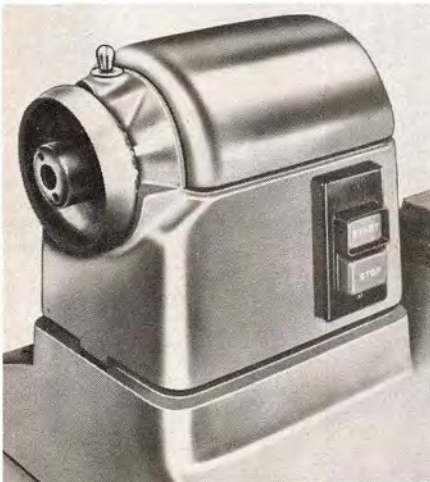
Height, centerline of

spindle to floor 42¾" (1085.8 mm)

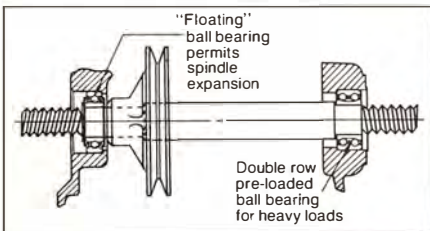
Overall Dimensions:

Height 46½" (1181.1 mm)
 Width 22" (558.8 mm)
 Length 63" (1600.2 mm)

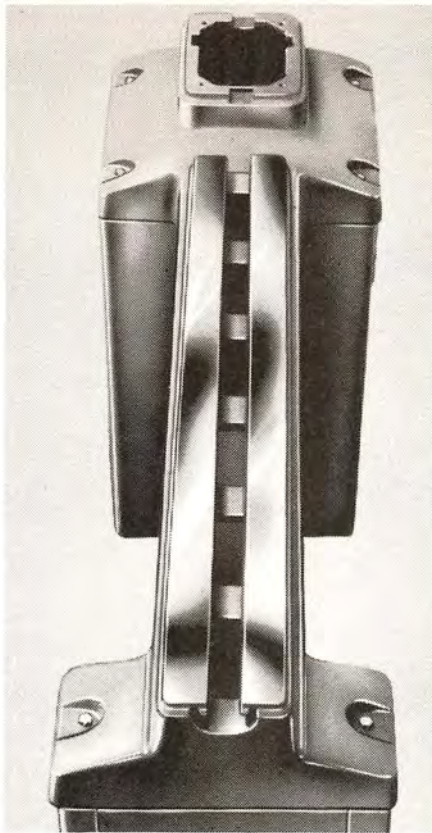
Delta 12" Heavy Duty Wood Lathe Quality Features



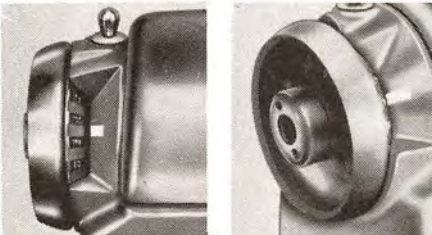
Rugged Head Stock Construction. Head is engineered to give extra rigidity for heavy, rough turning. Cover completely encloses belt and pulleys for added safety and is easy to remove for changing belt.



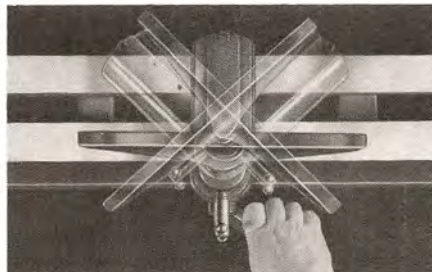
Maximum Thrust Head Stock Spindle. A double row, preloaded, sealed-for-life ball bearing at the work end permits maximum thrust for heavy turning and metal spinning. "Floating" ball bearing construction on the outboard end allows for expansion as spindle warms.



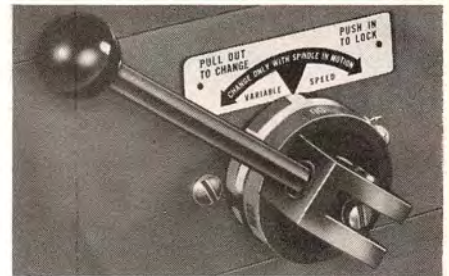
Massive Bed. Lathe bed is scientifically ribbed and ruggedly constructed to minimize vibration. Bed and head stock mounting are precision ground simultaneously for absolute alignment, guaranteeing top quality lathe performance.



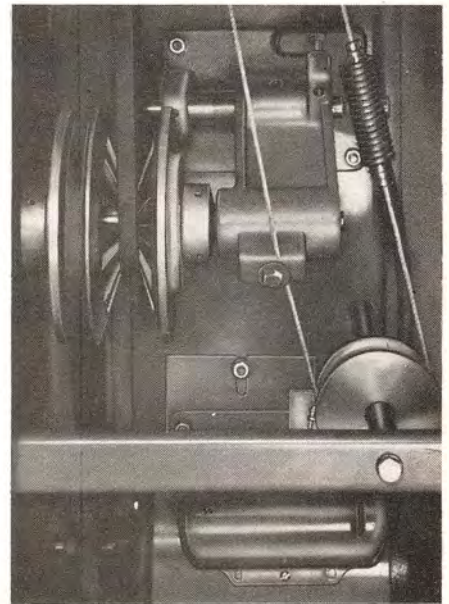
Scientifically Designed Hand Wheel. Large and easy to grip, the indexing and tailstock hand wheels are engineered to conform to the contours of the hand. Indexing of spindle to any of 48 index stops can be done quickly. Extra smooth finish assures maximum operator safety.



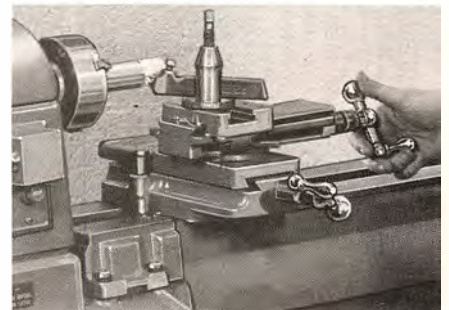
Universal Tool Support. It is exceptionally handy and fast in action. Heavy and substantial, it locks to the bed at any desired position by means of the convenient lever at the front where it does not interfere with the work.



Quick Operating Speed Control. Convenient placement of variable speed control lever permits quick selection of any speed from 340 to 3200 RPM. When "pushed in," lever locks at desired speed, even under heavy loads.



Modern, Efficient Variable Speed Drive. Gives you all the advantages of a variable speed drive, with an infinite choice of speeds from 340 to 3200 RPM. The simple construction, with few operating parts, makes it function very smoothly. During speed changes, the variable speed pulley moves up or down at the *correct* angle to maintain *perfect* belt alignment at *all* speeds. This assures higher power transmission efficiency.



Gap Filler Block Increases Lathe Versatility. Filler block extends the bed ways into the gap to provide rigid tool support for light metal turning, metal spinning, face plate turning and any work that must be done right at the headstock. Filler block also can be mounted on a bench beyond the tailstock for extra long turnings.

Delta 12" Standard Duty Wood Lathe

A quality built, big capacity lathe at a low price!

Fine features are just one of the reasons the Delta 12" Standard Duty Wood Lathe meets the needs of industry, commercial shops and schools so well.

To appreciate its true value, check the big capacity, rugged construction, safety of design, and the

great versatility (more than 50 Delta lathe accessories can be used). Furthermore, you have a choice of a Variable Speed or a 4-Speed Model to suit your particular job application.

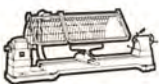


12" Variable Speed Wood Lathe with safety shield and electricals.



12" 4-Speed Wood Lathe with safety shield and electricals.

Catalog Listing



No. 46-202 12" Standard Duty Wood Lathe, 4-Speed Model without Cabinet. Includes basic machine with 46-808 safety shield, 46-933 drive center, 46-439 cup center, 46-171 tool support base, 46-692 12" tool support, 46-805 6" tool support, 46-936 3" face plate, 41-733 4-step motor pulley ($\frac{5}{8}$ " bore) and 49-094 V-belt. Without motor and switch. 182 lbs.
Note: Above lathe cannot be used with the Variable Speed Cabinet.

No. 50-150 Cabinet, steel, sturdily constructed, totally encloses motor and drive, has hinged motor plate for easy speed changes, and two shelves. 110 lbs.



Complete 12" Standard Duty Wood Lathe, 4-Speed Model with Cabinet, standard equipment as listed in No. 46-202, plus motor and controls factory mounted and wired, ready to run.

Catalog Number*	Motor	Motor Control	Motor Enclosure	Hertz and Motor RPM	Motor Voltage	Shipping Wt./Lbs.
46-221	Single Phase, $\frac{3}{4}$ HP	Push Button Switch Only	TEFC	60-1725	115/230	305
46-222		24 V Push Button Station; Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230	312
46-223†	Three Phase, $\frac{3}{4}$ HP	24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	317
46-224			TEFC	60-1725	200	317



Complete 12" Standard Duty Wood Lathe, Variable Speed Model with Cabinet, including 46-808 safety shield, 46-933 drive center, 46-439 cup center, 46-171 tool support base, 46-692 12" tool support, 46-805 6" tool support, 46-936 3" face plate, 41-033 motor pulley ($\frac{5}{8}$ " bore), 49-354 upper V-belt, 51-008 lower V-belt, motor and controls factory mounted and wired, ready to run.

Catalog Number*	Catalog Number**	Motor	Motor Control	Motor Enclosure	Hertz and Motor RPM	Motor Voltage	Shipping Wt./Lbs.
46-541	46-521	Single Phase, $\frac{3}{4}$ HP	Push Button Switch Only	TEFC	60-1725	115/230	410
46-542	46-522		24 V Push Button Station; Magnetic Starter, Transformer and Overload Protection (LVC)	TEFC	60-1725	115/230	417
46-543†	46-523	Three Phase, $\frac{3}{4}$ HP	24 V Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC)	TEFC	60-1725	230/460	422
46-544	46-524			TEFC	60-1725	200	422

NOTE: Single phase electricals will be supplied wired for 115 V, unless 230 V is specified. Three phase electricals will be supplied wired for 230 V, unless 460 V is specified. Power Cord and Plug supplied for single phase only. Motors and Motor Controls for Delta 12" Standard Wood Lathes may be ordered unmounted. For listing, see Section R.

†No. 49-000 "JIC" Type Control Kit. Specify this Catalog Number, in addition to Three Phase Cat. No. 46-223 or 46-543, in order to obtain 12" Standard Duty Wood Lathe with "JIC" type electricals, factory mounted and wired.

* Catalog Number includes motor and control without Slow-Start feature.

** Catalog Number includes motor, control and Slow-Start System. Available only on Variable Speed Models. (See Page N-8f or description of Slow-Start System)

Machine Data

Capacities:

Swing over bed 12" (304.8 mm)
 Swing over bed gap 16" (406.4 mm) dia.
 For 2½" (63.5 mm) stock
 Swing over tool rest 8¾" (212.7 mm)
 Distance between centers 39" (990.6 mm)

Speeds:

Variable speed model 340 to 3600 RPM
 Four speed model 915, 1380, 2150,
 3260 RPM

Spindle:

Nose—inboard 1"—8 RH thread
 Nose outboard 1"—8 LH thread
 Hole (completely
 through spindle) 5/8" (15.8 mm)

Headstock and Tailstock Tapers No. 2 M.T.

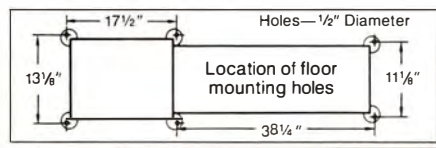
Ram Travel 2¼" (57.1 mm)

Height, centerline of

spindle to floor 41¾" (1060.4 mm)

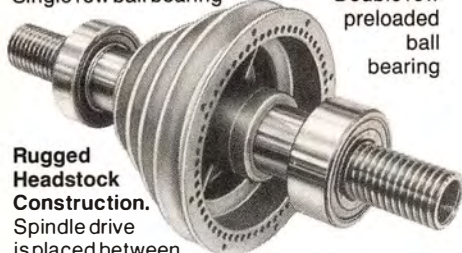
Overall Dimensions:

Height 45¼" (1149.3 mm)
 Width 16½" (419.1 mm)
 Length 60" (1524 mm)



Delta 12" Standard Duty Wood Lathe Quality Features

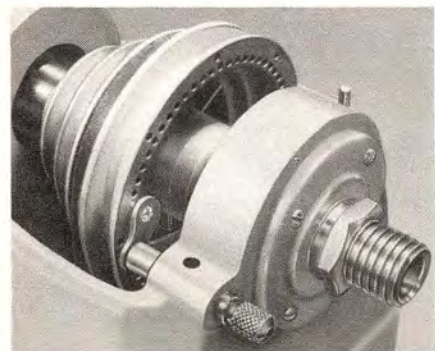
Single row ball bearing



Double row preloaded ball bearing

Rugged Headstock Construction.

Spindle drive is placed between inboard and outboard bearings, reducing spindle whip to a minimum. A double row, preloaded, sealed-for-life ball bearing at the inboard end permits maximum thrust for heavy turning and metal spinning—"floating" ball bearing construction on outboard end allows for expansion as spindle warms up.

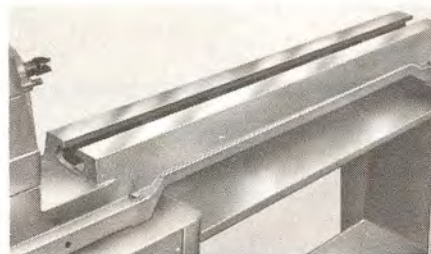


Famous Indexing Mechanism. Two rows of holes in headstock pulley—8 and 60—can be engaged quickly by the unique indexing pin. Thus, you can obtain the maximum number of index divisions for reeding and fluting.

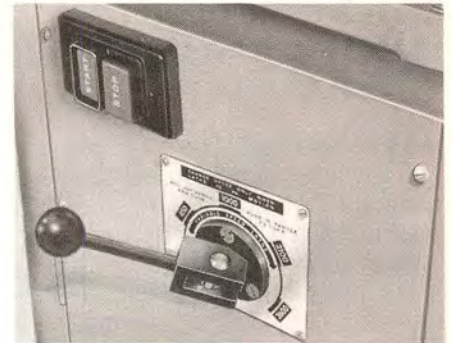


Smooth Operating Variable Speed Drive.

Simply constructed, dual belt drive has few operating parts. Ball bearing jackshaft, that raises and lowers quickly by means of a rack and pinion, always keeps belts in perfect alignment. This assures higher power transmission efficiency than with "old-fashioned" spring-loaded knives.



Massive Bed. Made of fine grained cast iron, bed is scientifically ribbed and ruggedly constructed to minimize vibration. Bed and headstock are precision ground for perfect alignment, assuring high quality lathe performance.



Convenient Controls. Variable speed control lever is conveniently placed for quick selection of any speed from 340 to 3600 RPM. When "pushed in," lever locks at desired speed. Adjacent push button switch has a shrouded start button to prevent accidental starts and a protruding stop button for fast emergency stops.



Modern Tailstock Controls. Fast operating cam clamp quickly locks massive tailstock to bed. Positive 360° wrap-around clamp firmly holds ram in position selected. Non-jamming No. 2 M.T. ram automatically ejects centers when retracted. Ram travels a full 2¼" and is graduated in 1/16ths.

Delta 12" Economy Wood Lathe



Get the 12" Standard Duty 4-Speed Wood Lathe mounted on an Open Steel Stand and Save!

Offers the same big turning capacity, rugged construction, safety, convenience and versatility features of the quality built standard duty model.

Accessory Equipment

No. 62-247 Motor. ¾ HP, 115/230V, single phase, resilient mount, ball bearing, capacitor start, 1725 RPM. With 8' cord and 115V grounding type plug. Supplied with remote control on-off toggle switch and cord connected to motor. 34 lbs.

Catalog Listing

46-204 12" Economy Wood Lathe. Includes basic machine with open steel stand, safety shield, drive and cup centers, tool support base, 6" and 12" tool supports, 3" face plate, 4-step motor pulley (5/8" bore) and V-belt. Without motor and switch. 170 lbs.

For additional accessories, see Page N8

Delta Slow-Start System for Wood Lathes

Makes lathe operation safer! Ideal control for school shops

You can order your Delta 12" Wood Lathe with a motor and slow-start manual or magnetic control system, mounted and wired, ready to run.

See Pages N4 and N6 for motor and control options available. Delta's Slow-Start System helps insure safer lathe operation, as shown at right.



(Left) The Delta Slow-Start System provides maximum safety for novice lathe operators in schools, training institutions, etc. With it the lathe can be started *only* at the slowest speed. Above, the shop instructor locks hood after pressing switch button to "on" position, ready for student's use.

(Right) Now, student starts lathe by merely pulling variable speed control lever to right. When desired speed is obtained, he pushes lever in, locking it in position. Then he proceeds to operate the lathe.

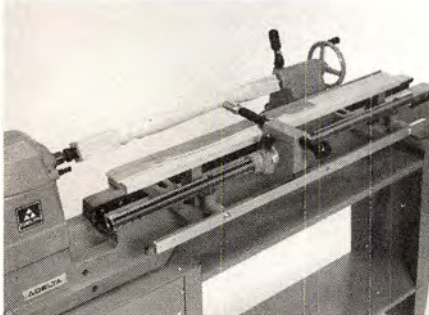
(Left) Should a danger signal suddenly appear, the operator's first reaction would be to stop the lathe. This he does by pressing the "stop" button. Now the lathe cannot be started again by actuating the variable speed control lever since the current is off. The locked hood also makes the "start" button inaccessible.

(Right) Next, the difficulty is determined, either by the student or the instructor, and corrected. Then, the instructor must unlock the hood, press the "start" button and lock the hood again before the student can proceed.

Delta Wood Lathe Accessories

Delta Wood Turning Duplicator

For accurate duplicaton of complex wood turnings



You can reproduce one or any number of intricate wood turnings exactly on your 12" wood lathes with the Delta Wood Turning Duplicator. It takes only a few minutes to install, and can be used on Delta and other wood lathes.

Maximum Accuracy With Exact Duplication. You can reproduce complicated turnings perfectly—patterns, balusters, lamps, table and chair legs—up to 4" in diameter.

Ideal for School Shops. With the Delta Wood Turning Duplicator, there's less time spent per student on the lathe, more opportunity for the student to learn.

Minimum Stock Spoilage. The Duplicator eliminates costly mistakes; thus, there are no more discarded turnings.

Specifications

Catalog No.	46-840
Maximum Diameter	4"
Maximum Length	28½"
Cutting Tool Bit (standard)	
Ground to shape	¼" x ¼"
Shipping Weight	24 lbs.

Delta Wood Lathe Safety Shield

Provides Additional Operator Safety and Protection on All Wood Turning Operations.



Complies with OSHA Regulations: Sections 1910-213-0-2 and 1910-213-0-4.

Made of high impact ¾" thick plastic with extruded aluminum alloy frames and support for maximum strength and safety. Its dual, flat rectangular front panels (12" x 12" and 12" x 24") provide a clear, unobstructed view of the work area with little or no distortion. A heavy wire grid back shield provides added operator protection.

Friction-drag type hinges hold the independently adjustable panels in the raised, lowered operating position or any in-between setting. Positive down-locks securely hold the shield in its operating position.

A universal type mounting system permits limited fore and aft, vertical and angular adjustment. Standard equipment on all Delta 12" and 16" Wood Lathes, the system is adaptable to most any lathe.

Catalog Listing

No. 46-808 Wood Lathe Safety Shield. For 12" Wood Lathes. Includes two front panels, wire grid back guard, mounting arm assembly and installation instructions. 22 lbs.

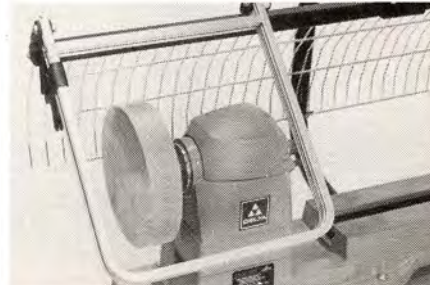
No. 46-809 Wood Lathe Safety Shield. Same as above except for 16" Wood Lathe.



Operation Between Centers. Here the Delta Safety Shield is in lowered operating position ready for spindle turning. Full working area coverage provides adequate operator protection with easy accessibility to work.



Headstock Operations. Only the smaller panel of the Delta Safety Shield need be used for inboard face plate turning. Both edge and internal turning are easily accomplished, yet operator is protected.



Outboard Turning. The Delta Safety Shield can be positioned over the headstock for outboard face plate turning operations giving you a clear, unobstructed view of the work area.

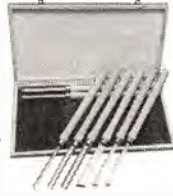
Delta Wood Lathe Accessories (continued)

Wood Lathe Turning Tools

A complete set of 8 basic wood turning chisels in five different shapes.

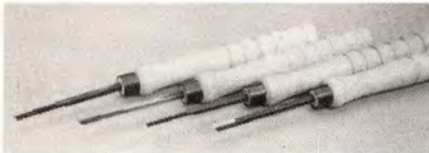
- High grade alloy steel blades to hold cutting edges longer
- Precision ground cutting edges for cleaner, smoother turning.
- Extra-long 14" hardwood handles for better control
- Heavy gauge metal ferrules for longer tool life.
- Set includes handy wooden box for storage and organization.

- No. 46-731 1/4" Gouge
- No. 46-732 5/8" Gouge
- No. 46-733 3/4" Gouge
- No. 46-734 1/2" Skew
- No. 46-735 1" Skew
- No. 46-736 1/2" Round Nose
- No. 46-737 1/2" Spear Point
- No. 46-738 1/4" Parting Tool
- No. 46-730 Set of Above 8 Chisels



Tungsten Alloy Tipped Turning Chisels

For cutting metals such as brass, bronze, aluminum, and mild steel free-hand as easily as wood and plastic. Two styles—square nose and round nose. Two sizes—3/64" for fine work and 1/64" for large, heavy work. Have an extremely long life with little or no sharpening required. 1 lb.

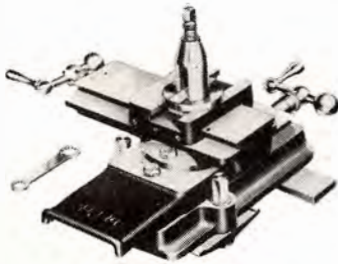


- No. 46-801 Square Nose, 3/64"
- No. 46-802 Round Nose, 3/64"
- No. 46-803 Square Nose, 1/64"
- No. 46-804 Round Nose, 1/64"

No. 46-491 Tool Rest. For use with metal spinning tools. Has multiple openings for positioning of fulcrum pin. 3 1/2 lbs.

Metal Turning Accessories

When equipped with metalworking accessories, your lathe can turn non-ferrous metals, do drilling and boring operations, etc.



No. 46-961 Compound Slide Rest. Accurately built with dovetail ways and graduated compound base that rotates 360°. Feed screws are covered to protect them from dirt and chips—fitted with micrometer sleeves, accurately graduated. With tool post, rocker, washer and wrench. 31 lbs.

Holder, Boring Bars, Tool Bits

For use with the No. 46-961 Slide Rest. Holder is extremely useful and many uses can be found for it. Holds both boring bars and 1/4" square bits. Holder has two holes to facilitate holding tool. Made of case hardened tool steel.

No. 46-963 Holder for Boring Bar and Tool Bits. 1 lb.

No. 46-966 Boring Bars, set of three. 1/8", 3/16" and 1/4". 1/2 lb.

No. 46-954 Tool Bits, set of four, high-speed steel, 1/4" x 1/4" x 1 7/8", includes roughing, finishing, right corner and left corner. 1/2 lb.

No. 46-939 60° Plain Center for metal turning, hardened and ground. 3/8 lb.

Chucks

No. 46-950 4", 3-Jaw Universal Type Threaded 1"—8R.H.

Has three internal and three external jaws. 5 lbs.



No. 46-968 Geared Chuck with key. With No. 2 M.T. shank. For drilling on the lathe. 0 to 1/2" capacity. 2 lbs.

Centers

All with No. 2 M.T. shank.

No. 46-933 Spur Drive. For headstock. Has replaceable center pin, hardened and polished. 3/8 lb.



No. 46-439 Cup, Dead. For tailstock. Has replaceable center pin, hardened and polished. 3/8 lb.



No. 46-940 Screw Center. Excellent for turning small, delicate work. With 1 5/16" long replaceable screw. Has 1 1/2" diameter face 1/2 lb.



No. 46-935 Adapter. With 1/2 x 1 1/8" plain shank. Permits use of all attachments with 1/2" bore. 3/8 lb.



No. 46-490 Ball Bearing Center with three replaceable centers and wrench. Husky and true running with no chatter. Has double-row, sealed, lubricated-for-life bearings to take exceptionally heavy radial and thrust loads. 1 lb.

Knockout Bar

No. 46-905 Knockout Bar, 10 7/8" from end of tip to ball. For removing centers and other attachments. 1 lb.

Draw Bolts

For holding No. 2 M.T. attachments, including sanding drums and screw centers. With 1/4"—20 thread. 1 lb.

No. 46-916 Draw Bolt with 1/4"—20 thread for hollow spindles which are 13 1/2" long. For 12" Heavy Duty Wood Lathe. 1 lb.

No. 46-850 Draw Bolt with 1/4"—20 thread for hollow spindles which are 9 3/4" long. For 12" Standard Duty Wood Lathe.

Face Plates and Hand Wheel

With 1"—8 thread.

No. 46-936 Face Plate. 3" diameter with R.H. thread. For small and medium face plate work. 1/2 lb.

No. 46-937 Face Plate. 6" diameter with R.H. and L.H. thread to fit spindles with 1"—8 thread. For large face plate work. 2 lbs.



No. 46-938 Hand Wheel. 5" diameter. Fits L.H. end of lathe spindle with 1"—8 thread. For quick positioning of work or rapid stopping of lathe. 2 lbs.

No. 46-406 Face Plate. 14" diameter with R.H. and L.H. thread to fit spindle of 16" Wood Lathe. For large face plate work.

Sanding Drums & Sleeves

No. 46-163 Abrasive Drum, 3 x 3", with No. 2 M.T. shank. 2 lbs.



No. 46-164 Abrasive Drum, 1 3/4 x 2", with No. 2 M.T. shank. 1 lb.

3" diameter x 3" Sleeves. Package of 6. For use with 46-163 Sanding Drum.

No. 46-138 Coarse Garnet. No. 1 1/2 grit. 1/2 lb.

No. 46-832 Medium Garnet. No. 1/2-60 grit. 1/2 lb.

No. 46-338 Aluminum Oxide (for metal). No. 1-50 grit. 1/2 lb.

1 3/4" Diameter x 2" Sleeves. Package of 6. For use with 46-164 Sanding Drum.

No. 46-638 Coarse Garnet. No. 1/2-40 grit. 1/4 lb.

No. 46-837 Medium Garnet. No. 1/2-60 grit. 1/4 lb.

No. 46-838 Aluminum Oxide (for metal). No. 1-50 grit. 1/2 lb.

Floor Stand

No. 46-697 Floor Stand.

Heavy and rigid. For faceplate work on the outboard end of the spindle. Accommodates tool support with 1" shank.



Delta Wood Lathe Accessories (continued)

Tool Rests and Bases

Heavy and strong with 1" diameter shank.

No. 46-690 Tool Rest. 4" wide. 1 lb.

No. 46-805 Tool Rest. 6" wide. 2 lbs.

No. 46-692 Tool Rest. 12" wide. 2 lbs.

No. 46-431 Calibrated Tool Rest. 12" wide. Has a calibrated, hardened steel insert for making accurate measurements and divisions on work. 4 lbs.

No. 46-694 Tool Rest. 24" wide. For extra long turnings. Has two 1" diameter shanks. Requires an extra 46-171 Tool Support Base for use on lathe. 4½ lbs.

No. 46-695 Right Angle Tool Rest. Especially useful for faceplate work. 2 lbs.

No. 46-405 Outboard French Curl Tool Support. For use on outboard end of spindle. Simplifies bowl turnings.

No. 46-404 Inboard French Curl Tool Support. For bowl turning on inboard end of spindle.

No. 46-171 Tool Rest Base. For 1" diameter shank tool rests. With universal locking mechanism. 9 lbs.

No. 46-430 Off-Set Tool Rest Base. For 1" diameter shank tool rests. For faceplate turning on extra large stock over the gap. 4 lbs.

46-403 Tool Support Base. For inboard use on 16" Wood Lathe. Accommodates 1" diameter shank tool rests.

No. 46-468 Steady Rest. Capacity up to 2¼" diameter. Prevents spring and vibration when working long, thin stock. Has heavy cast iron base with sliding arms of steel. 7 lbs.

Safety Shield



No. 46-811 Outboard Wood Lathe Safety Shield. For 16" Wood Lathe. Includes mounting hardware, see-thru plastic and wire grid shields. Accommodates outboard turnings up to 24" diameter x 9" wide.

Screw-On Arbors for ½" Hole Accessories

No. 46-144 Screw-On Arbor, with 1"—8 R.H. thread. For mounting grinding wheels, buffing wheels, wire brushes, etc. 1 lb.

No. 46-145 Screw-On Arbor. Same as No. 46-144 except with 1"—8 L.H. thread. 1 lb.

For complete selection of grinding, wire, fibre and buffing wheels; buffing compounds for use with Screw-On Arbors refer to page M11.

Disc Sanding Accessories

No. 46-934 Sanding Disc with one garnet disc. 8½" diameter. With 1"—8 R.H. thread. 3 lbs.

Abrasive Paper Discs

Garnet, package of 12, 8½" diameter, fine and coarse, for use with 46-934 Sanding Disc. 1 lb.

No. 46-815 Garnet Paper Disc, 40 grit, coarse.

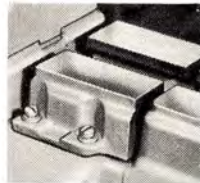
No. 46-817 Garnet Paper Disc, 80 grit, fine.

No. 49-503 Disc Adhesive. Special quick-drying type for changing from one abrasive disc to another in a few minutes. 1 lb.

Gap Filler Block

Provides rigid tool support for metal spinning, thin face plate turnings, any work that must be done right at the headstock. Can be mounted on a bench beyond tailstock end of lathe bed for extra long turnings. The No. 46-697 Floor Stand is recommended for this operation.

No. 46-440 Filler Block for mounting in gap or beyond bed of 12" Heavy Duty Wood Lathes bearing Serial No. 124-9001 and higher. 6 lbs.

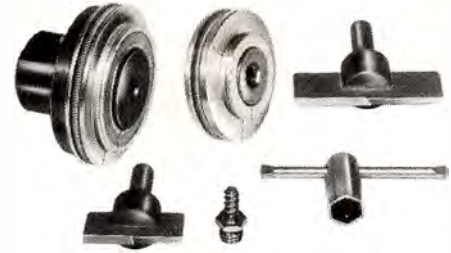


Delta Super Chuck Work Holding System for the Wood Lathe



- Patented expanding collet mechanism works in conjunction with drilled recess to securely hold material for face and/or edge turning. Eliminates the need for wood screws and face plates.
- Entire visible surface of material can be completely turned without reversing and remounting the work.

- Ideal for schools and home shops. Unfinished turnings can be removed from chuck and accurately remounted at later date. Permits use of one chuck for many projects.



Choose from 8 Kits to Fit Most Popular Wood Lathes

Kit includes: Two Chucks (2" and 3" Dia.) with Spring and Clamp to Handle Both Small and Large Turnings; Two Cutters (2" and 3" Dia.) to Drill Recess Holes in Material for Mounting to Chuck; Backing Plate with Stud and Wrench to Mount Loaded Chuck to Lathe; Screw Point Center for Small Turning and Complete Instructions.

Kit No.	For Use On
46-270	All Delta Lathes With 1"-8 R.H. Thread Spindle
46-271	Powermatic Model 90 With 1½"-8 R.H. Thread Spindle
46-272	Oliver Models 159 and 2159 With 1½"-8 R.H. Thread Spindle
46-273	Shopsmith Mark V With ¾"-8 R.H. Thread Spindle
46-274	Sears Model 2280N With ¾"-16 R.H. Thread Spindle
46-275	Powermatic Model 45 With 1"-8 R.H. Thread Spindle
46-293	All Delta Lathes With ¾"-14 R.H. Thread Spindle
46-294	General Model 260 With 1¼"-8 R.H. Thread Spindle

Delta Cup and Pin Type Screw Chucks



Especially ideal for fine, cylindrical and deep hollow turnings. Excellent for turning pepper mills, candle stick holders, lamp bases and similar objects.

Screw threads of chuck rigidly hold a returned or prebored workpiece against a backing flange for greater stability, less operating vibration.

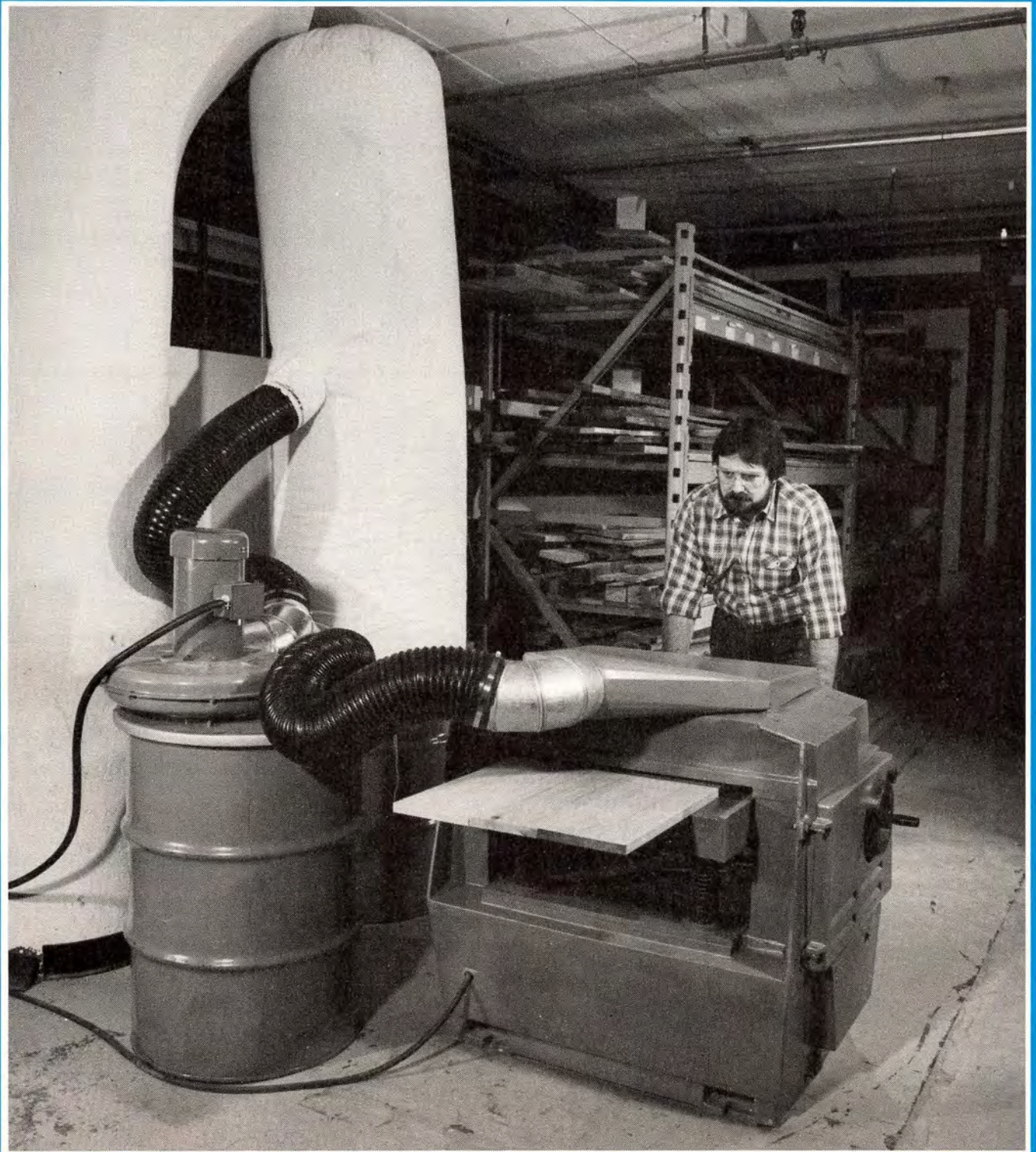
Permits incomplete turnings to be easily removed from the chuck and accurately fitted at a later date.

Cup Chuck	Pin Chuck	For Use On
46-297	46-299	All Delta Lathes With 1"-8RH Thd. Spindle
46-296	46-298	Any Delta Super Chuck. Chucks are threaded to fit Chuck Backing Plate Stud

Delta Dust Collectors

Eliminate fine dust particles and wood chips at the source with a Delta Dust Collector.

Choose from 3 models—1 HP, 2 HP and 3 HP. All high-quality, industrial two-stage units well suited to meet the needs of any woodworking shop.



Delta Dust Collectors

Well suited for all types of plants or shops!

Do you have a need for collecting sawdust and chips from woodworking machinery, but can't afford the high cost of a centralized system? Then consider Delta's line of dust collectors. They're low in cost, economical to use and quiet in operation. The powerful, self-cleaning, cast aluminum, radial pressure fan effectively picks up sawdust and chips. The perma-

nently lubricated, ball bearing, totally enclosed motor stands up under continuous duty operations. And Delta dust collectors are portable, too. You can use them throughout your plant or shop to maintain clean, healthful working conditions.

Why not add these efficient, low-cost Delta dust collectors to your operation today!



No. 50-182
55-gallon drums not included

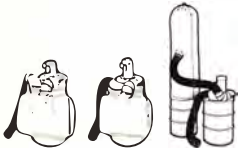
55-gallon drums
not included

No. 50-180

No. 50-181

Catalog Listing

Complete Dust Collectors with permanently lubricated, ball bearing, continuous duty, TEFC motor, dust bag and 5' hose.

	Catalog Number	Motor	Motor Voltage	Hertz and Motor RPM	Maximum CFM	Maximum Static Pressure (In Water)	Maximum Hose Velocity FPM	Bag Area in Sq. Ft.	dBa @ 5 Ft.	Hose Size	Drum Size	Shipping Wt./Lbs.
	50-180	1 HP 1 Ph.	115/230	60-3450	700	4 1/2"	5131	19.0	83	5" x 60"	55 Gal.	72
	50-181	2 HP 1 Ph.	230	60-3450	1100	8 1/2"	5600	19.0	85	6" x 60"	55 Gal.	97
	†50-182	3 HP 3 Ph.	230/460	60-3450	1300	10"	6619	50.0	84	6" x 60"	55 Gal.	113

†Supplied with 50-185 Dust Bag and bag hose kit.

NOTE: Single phase 1 HP electricals will be supplied wired for 115 V; single phase 2 HP elec-

tricals will be supplied wired for 230 V. Three phase electricals are not supplied factory wired. Six-foot cord, switch and grounding type plug included for single phase only.

Delta Quality Features

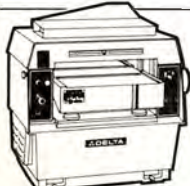
- Low in cost, economical to use, quiet in operation.
- Powerful, self-cleaning, cast aluminum, radial pressure fan.
- Permanently lubricated, ball bearing, continuous duty, totally enclosed fan-cooled motor.
- Safe operation – no exposed moving parts.
- Portable – can be easily moved from one machine to another.
- Heavy duty fiberglass drum lid and 14 gauge steel blower housing on Models 50-180 and 50-181.
- Cast aluminum drum lid and 14 gauge steel blower housing on Model 50-182.
- Complete self-contained unit includes PVC, wire-reinforced hose and a filter bag.
- All models fit any 55-gallon open end steel drum.

Dust Collection Adaption for Delta Machinery


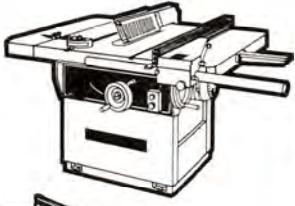
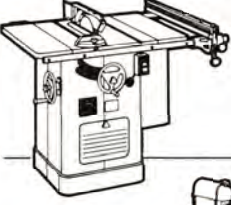
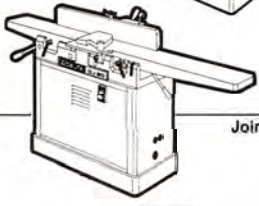
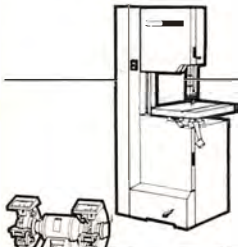
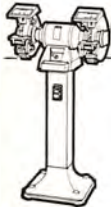
The chart below lists the catalog numbers of the various connectors, adapters and other accessories required for hook-up of the recommended Delta Wood and/or Metal Dust Collector to various Delta Machines in either a fixed

or quick-disconnect installation.

For detailed descriptions of the various items refer to the Wood and Metal Dust Collector and Vacuum Cleaner Accessories Pages O4, O5 & O6.

Machine	Cat. No.	Outlet O.D.	Type of Installation	Recommended Dust Collector			
				Woodworking Application		Metalworking Appl.	
				50-180	50-181 or 50-182	49-225	49-826 or 49-909
	RC-63 or RC-51	6"	Fixed	---	None Required	--	--
			Quick Disconnect	---	50-218 50-232	--	--
	RC-33	4 7/8"	Fixed	22-658	22-658 50-231 50-219	--	--
			Quick Disconnect	22-658 50-231 50-226	22-658 50-231 50-232	---	---

Dust Collection Adaption for Delta Machinery (continued)

Machine	Cat. No.	Outlet O.D.	Type of Installation	Recommended Dust Collector				
				Woodworking Application			Metalworking Appl.	
				50-180	50-181 or 50-182	49-225	49-826 or 49-909	
 <p>Machine Shapers</p>	RS-15	10 3/4" x 4 1/4"	Fixed	50-233	50-233	---	---	
			Quick Disconnect	50-233 50-226	50-233 50-232	---	---	
	H.D.	2 1/4"	Fixed	50-234	50-234 50-219	---	---	
			Quick Disconnect	50-234 50-226	50-234 50-232	---	---	
	 <p>Circular Saws</p>	RT-40 or RE-35	4"	Fixed	50-236	50-236 50-219	---	---
				Quick Disconnect	50-236 50-226	50-236 50-232	---	---
RT-31		3"	Fixed	50-237	50-237 50-219	---	---	
			Quick Disconnect	50-237 50-226	50-237 50-232	---	---	
Unisaw		3" x 4 9/16"	Fixed	34-843 50-222	34-843 50-222 50-219	---	---	
			Quick Disconnect	34-843 50-222 50-226	34-843 50-222 50-232	---	---	
10" T.A. Bench 10" Contr's		Fixed	50-220 50-219	50-220	---	---		
		Quick Disconnect	50-220 50-226	50-220 50-232	---	---		
 <p>Finishing Machines</p>	6" Belt	3 1/4"	Fixed	50-214	50-214 50-219	49-589	31-856	
			Quick Disconnect	50-214 50-226	50-214 50-232	---	---	
	12" Disc		Fixed	50-224 50-237	50-224 50-219 50-237	50-140	50-141	
			Quick Disconnect	50-224 50-237 50-226	50-224 50-237 50-232	---	---	
	6" Belt & 12" Disc		Fixed	50-224 (2)50-186 50-190	50-224 (2)50-186 50-189	50-140 49-589 49-225 (2) 49-229	50-141 31-856	
			Quick Disconnect	50-224 (2)50-186 50-228 50-226	50-224 (2)50-186 50-228 50-232	---	---	
	 <p>Jointers</p>	8" Precision	8 3/4" x 6 1/4"	Fixed	50-221	50-221 50-219	---	---
				Quick Disconnect	50-221 50-226	50-221 50-232	---	---
		6" Precision	6 1/2" x 6 3/4"	Fixed	50-221	50-221 50-219	---	---
				Quick Disconnect	50-221 50-226	50-221 50-232	---	---
	 <p>Wood Cutting Band Saws</p>	14"	1 3/8"	Fixed	50-239	50-239 50-219	49-220 49-228	---
				Quick Disconnect	50-239 50-226	50-239 50-232	---	---
20"		2 3/8"	Fixed	50-238	50-238 50-219	---	---	
			Quick Disconnect	50-238 50-226	50-238 50-232	---	---	
 <p>Grinder Finishers Buffers</p>		10", 8" or 7"	2 7/8"	Fixed	---	---	---	None Required
		7" Deluxe	2 3/8"	Fixed	---	---	---	23-802
	Grinder/Finisher	2 7/8" (Grndr) 3 1/2" x 2 1/4" Oval (Finisher)	Fixed	---	---	---	None Required	
			Fixed	---	---	---	None Required	
Twin Belt Buffer	3 1/2" x 2 1/4"	Fixed	---	---	---	None Required		
		Fixed	---	---	---	23-281		



Delta Dust Collector Accessories



A complete line of nozzles and fittings including Quick Disconnects permit use of a single Dust Collector on any Delta woodworking machine.

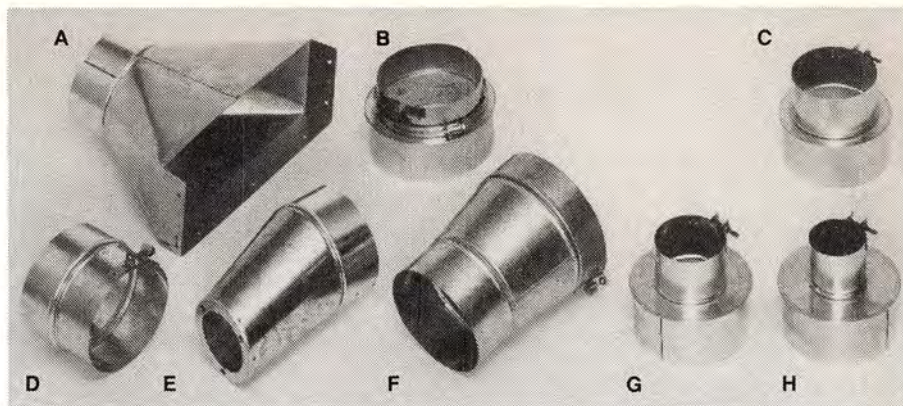
No. 50-193 Drum Dolly. 24 $\frac{3}{8}$ " dia., 4-wheel. Accommodates 55-gallon capacity drum. Adds portability to your dust collector system.

Dealers Note: Single dollies can not be shipped from distribution center. Order No. 50-192 Pkg. of 2.

No. 50-225 2' Diameter x 3' Dust Bag. 22 sq. ft. filter area. With drawstring to fit standard 55-gallon drum. For use with No. 50-180 1 HP and 50-182 2 HP Dust Collectors for planer chip pick up. Also No. 50-180 1 HP Unit when major use is fine sanding dust collection.

No. 50-185 2' Diameter x 6' Dust Bag. 40 sq. ft. filter area. With drawstring to fit standard 55 gallon collector drum. Eyelet at top for overhead suspension. Supplied with 6" x 60" hose, sleeve and two clamps. For use with No. 50-182 3 HP Dust Collector. Also No. 50-181 2 HP Unit for fine dust pick up. 10 $\frac{1}{4}$ lbs.

No. 50-186 3" Dia. x 60" Hose. 1 $\frac{1}{2}$ lbs.



No. 50-187 5" Dia. x 60" Hose. 2 $\frac{1}{2}$ lbs.

No. 50-188 6" Dia. x 60" Hose. 2 $\frac{3}{4}$ lbs.

No. 50-191 Reducer. 6" to 5". For fixed installation. 1 $\frac{1}{2}$ lbs.

No. 50-189 Y-Connector. 6" x 3" x 3". For fixed installation. 2 lbs.

No. 50-190 Y-Connector. 5" x 3" x 3". For fixed installation. 1 $\frac{1}{2}$ lbs.

A. No. 50-2335-Speed Shaper Connector. 5" dia. outlet. Fits over opening in chip collection box of shaper fence on Delta RS-15 Shaper.

B. No. 50-219 Increaser. 5" to 6". Clamping lug on 5" end.

C. No. 50-236 Increaser. 4" to 5". Clamping lug on 4" end. Attaches to exhaust chute of Delta RE-35 or RT-40 Saw.

D. No. 50-231 13" Planer Connector. 5" dia. outlet. Attaches to 22-658 Shaving Hood on Delta 13" Planer.

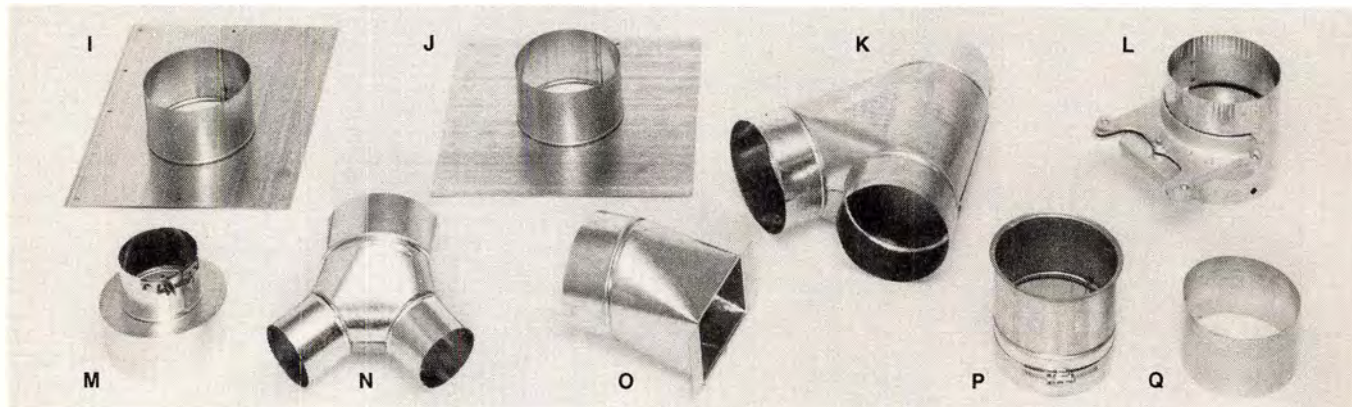
E. No. 50-234 H.D. Shaper Connector. 5" dia. outlet. Attaches to 43-830 Fence Guard Assembly of Delta H.D. Shaper.

F. No. 50-218 Reducer. 6" to 5". Clamping lug on 6" end.

G. No. 50-237 Increaser. 3" to 5". Clamping lug on 3" end. Attaches to exhaust chute of Delta RT-31 Saw. Also Delta 12" Disc Sander equipped with 50-224 Connector.

H. No. 50-238 20" Band Saw Connector. Attaches to 2 $\frac{3}{8}$ " dia. dust spout on band saw increasing outlet to 5" dia.

No. 50-239 14" Band Saw Connector. Attaches to 1 $\frac{3}{8}$ " dia. dust spout on band saw increasing outlets to 5" dia.



I. No. 50-221 6" and 8" Jointer Connector. 5" dia. outlet. Including mounting screws. Attaches directly to jointer stand covering factory installed chute.

J. No. 50-220 Table Saw Connector. 5" dia. outlet. Including mounting screws. Attaches to underside of saw mounted to 50-315 Open Stand.

K. No. 50-229 Y-Connector. 5" x 5" x 5". For use in a fixed 5" duct installation.

L. No. 50-230 Slide Gate. Fits 5" duct in a fixed installation.

M. No. 50-214 Increaser. 3 $\frac{1}{4}$ " to 5". Clamping lug on 3 $\frac{1}{4}$ " end. Attaches to exhaust chute of Delta 6" Belt Sander.

N. No. 50-228 Y-Connector. 3" x 3" x 5". For dual hook-up of Belt and Disc Sander on Combination Unit.

O. No. 50-222 Unisaw Connector. 5" dia. outlet. Attaches over opening in base frame of Delta Unisaw.

No. 50-224 12" Disc Sander Connector. 3" dia. outlet. Attaches to bottom of disc sander.

P. No. 50-226 Quick Disconnect. with clamp for attachment to 5" dia. hose. A quick change connector or coupling for hook-up of the No. 50-180 1 HP Dust Collector to machinery with 5" dia. connector outlets.

No. 50-232 Quick Disconnect. with clamp for attachment to 6" dia. hose. Reduces inlet to 5" dia. For hook-up of the No. 50-181 2 HP or 50-182 3 HP Dust Collector to machinery with 5" dia. connector outlets.

Q. No. 50-227 Hose Coupler. For connecting two lengths of 5" dia. hose and/or use with Nos. 50-227 or 50-232 Quick Disconnects.

Delta Vacuum Cleaner

Ideal for "big job" cleaning chores!

Delta Vacuum Cleaner is ideal for "big job" cleaning chores too bulky or messy for a standard cleaner to handle. Extra powerful, it will handle a wide variety of waste—sawdust, wood chips and shavings, paint and rust chippings, grit and filings—in quantities that would clog an ordinary type of cleaner. You can't hurt the motor with anything you pick up because all debris is drawn directly into the collector drum, by-passing the motor. Easy roll casters (optional) increase the mobility of the Delta cleaner.



Model 49-255 28-gallon capacity vacuum cleaner (casters extra)

Catalog Listing



No. 49-255 All-Purpose Vacuum Cleaner. 28-gallon capacity, complete with 7.5 amp motor, switch and cord; filter bag, fiber collector drum; 2½" diameter x 6' hose and 3 x 6" rectangular nozzle. 24 lbs.

Machine Data

Motor
7.5 amps, 115 V, AC-DC, develops 1 HP

Hose
2½" (63.5 mm) diameter x 6' (18,288 mm) long

Drum Capacity
28 gallon (105.98 liter)

Overall Dimensions
25¾" (139.05 mm) high x 19" (482.6 mm) diameter

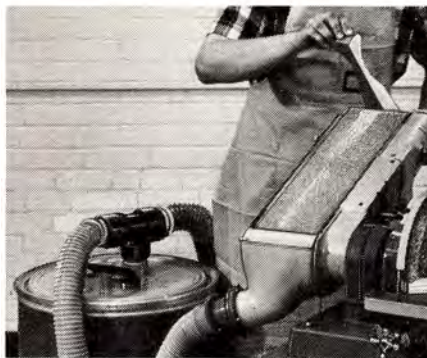
Weight
24 lbs. (10.86 kg.)

For dry pickup only

Do all these jobs with the Delta Vacuum Cleaner



For use with woodworking power tools to collect dust and chips at the source.



For general purpose shop cleaning, picking up sawdust, shavings, filings, and other shop debris.

Accessory Equipment



A. No. 49-226 Set of Extension Tubes for floor cleaning. 2½" diameter x 40" overall. 2 lbs.

B. No. 49-228 Hose Coupling. For connecting two 6-foot lengths of 49-229 2½" diameter hose. ½ lb.

C. No. 49-229 Hose. 2½" dia. x 6'. Replacement for standard hose or for use as extension with 49-228 coupling. 3 lbs.

D. No. 49-230 Elbow. 90°, 2½" dia. ½ lb.

E. No. 49-231 Floor Brush. 14" wide. 2 lbs.

F. No. 49-247 Crevice Tool. 2½" diameter. ½ lb.

G. No. 49-250 Round Elbow Brush. 2½" diameter. 1 lb.

H. No. 49-225 "T" Connector. For connecting two 49-229 hoses to vacuum cleaner. 2 lbs.

Other Accessories (not shown)

No. 49-220 Increaser. 1½" to 2½" dia. ½ lb.

No. 49-233 Flange. 2½" diameter. For making your own attachments for your power tools. ½ lb.

No. 49-243 Replaceable Filter Bags. Package of five. ½ lb.

No. 49-245 Four-Wheel Caster Set for 28-gal. vacuum cleaner. 3 lbs.

Attachments Parts

(Order necessary connection fittings and hoses separately)

No. 49-589 Attachment Parts for 6" abrasive belt finishing machine and for belt unit only of combination belt and disc finishing machine. Includes 43-829 flange for connecting to 2½" hose. 1½ lbs.

No. 49-590 Attachment Parts for 31-122 12" abrasive disc finishing machine on open stand. For connecting to 2½" hose. 5 lbs.

No. 50-140 Attachment Parts for ready-to-run 12" abrasive disc finishing machine and for disc unit only of combination belt and disc finishing machine. Includes cast iron funnel and flange for connecting to 2½" hose. 8¼ lbs.

For other accessories, see product pages.

Delta "High Efficiency" Ferrous Metal Dust Collectors

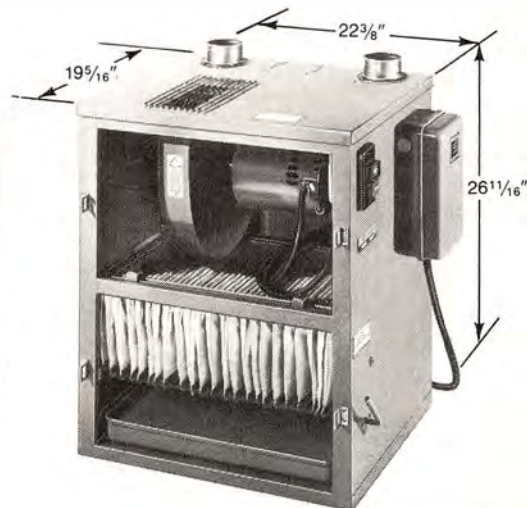
Delta "high efficiency" Ferrous Metal Dust Collectors provide filtering efficiencies to help you comply with O.S.H.A. standards

Protect workers' health, safeguard machinery, and reduce maintenance costs with Delta "high efficiency" Ferrous Metal Dust Collectors. They are capable of moving 500 cubic feet of air per minute and develop a static suction of 3.5 inches of water. Recommended for dry collection only of grit, dust, chips, tramp iron and other foreign materials which

are deposited in the base or stopped by the filters. *Only clean air reaches the fan.*

Overall collection efficiencies by weight are 99.9+% on particles down to two micron. Treated filters are fire-resistant.

Fine dust is easily dislodged from the fabric filters by using the foot-operated filter shaker.



Catalog Listing

No. 49-826 Dust Collector. Includes $\frac{3}{4}$ HP, single phase, 115/230 V, 60 hertz, 3450 RPM motor; two 6' lengths of 3" diameter wire hose and four hose clamps, two 3" inlets with adapters, foot-operated shaker and 30 square feet of fabric filter (24 filters). Less electrical controls. 140 lbs.

No. 49-909 Dust Collector. Same as No. 49-826, except 200-230/460 V, three phase. Less electrical controls. 140 lbs.

Controls for "High Efficiency" Dust Collectors

No. 52-377 Start-Stop Push Button Switch, 2-pole. Includes connecting wire assemblies, 8' cord with 3-prong 115 V grounding type plug and mounting hardware. For use with No. 49-826 Single Phase Dust Collector on 115 V only. 5 lbs.

No. 52-378 24 Volt Push Button Station, Magnetic Starter, Transformer and Overload Protection (LVC). Includes connecting wire assemblies and mounting hardware. For use with No. 49-826 Single Phase Dust Collector. When ordering, specify 115 or 230 V. Order heater separately. 15 lbs.

No. 52-379 24 Volt Push Button Station, Magnetic Starter, Transformer and 3-Leg Overload Protection (LVC). Includes connecting wire assemblies and mounting hardware. For use with No. 49-909 Three Phase Dust Collector. When ordering, specify 200, 230 or 460 volts. Order three heaters separately. 17 lbs.

NOTE: Above electrical controls are shipped separately, must be mounted and wired to dust collectors.

Attachment Parts

(Include necessary connection fittings less hoses. See hose selection below under Available Connection Fittings.)

No. 23-802 Attachment Parts for 7" standard grinder. 8 lbs.

No. 31-856 Attachment Parts for 6" abrasive belt finishing machine and for belt unit of combination belt and disc finishing machine. 6 lbs.

No. 50-141 Attachment Parts for 12" abrasive disc finishing machine when mounted on enclosed stand 50-126 and for disc unit of combination belt and disc finishing machine. Includes cast iron funnel. 13 $\frac{1}{2}$ lbs.

Available Connection Fittings

(For old style 49-520 and 49-527 dust collectors)

No. 49-533 Flexible Rubber Hose. 2 $\frac{5}{16}$ " I.D. x 20" long. 2 lbs.

No. 49-535 Flexible Rubber Hose. 3" I.D. x 48" long. 3 lbs.

No. 49-539 Flange for 3" hose, with mounting screws and washers. 2 $\frac{1}{2}$ lbs.

No. 49-541 Hose Clamps. Adjustable to hose. $\frac{1}{2}$ lb.

Here's why the Delta "high efficiency" is a better dust collector!

Fan on clean air side. Grit, dust, metal chips, tramp iron and other foreign materials are deposited in the base or stopped by the filters—*only clean air reaches the fan.* This eliminates the risk of fan loading or breakage and ultimate need for expensive, time-consuming repairs.

Highly efficient fabric filters. Delta collectors contain fabric filters of an extremely high collection efficiency for dust particles of all sizes, including those as small as two microns. Overall collection efficiencies by weight are 99.9+%—even with a high concentration of particles of these small sizes. Filters are treated to be fire-resistant.

Clean filtered air may be recirculated.

Delta collectors' extremely high filtering efficiency allows the filtered air to be recirculated indoors if desired, saving costly heated or conditioned air.

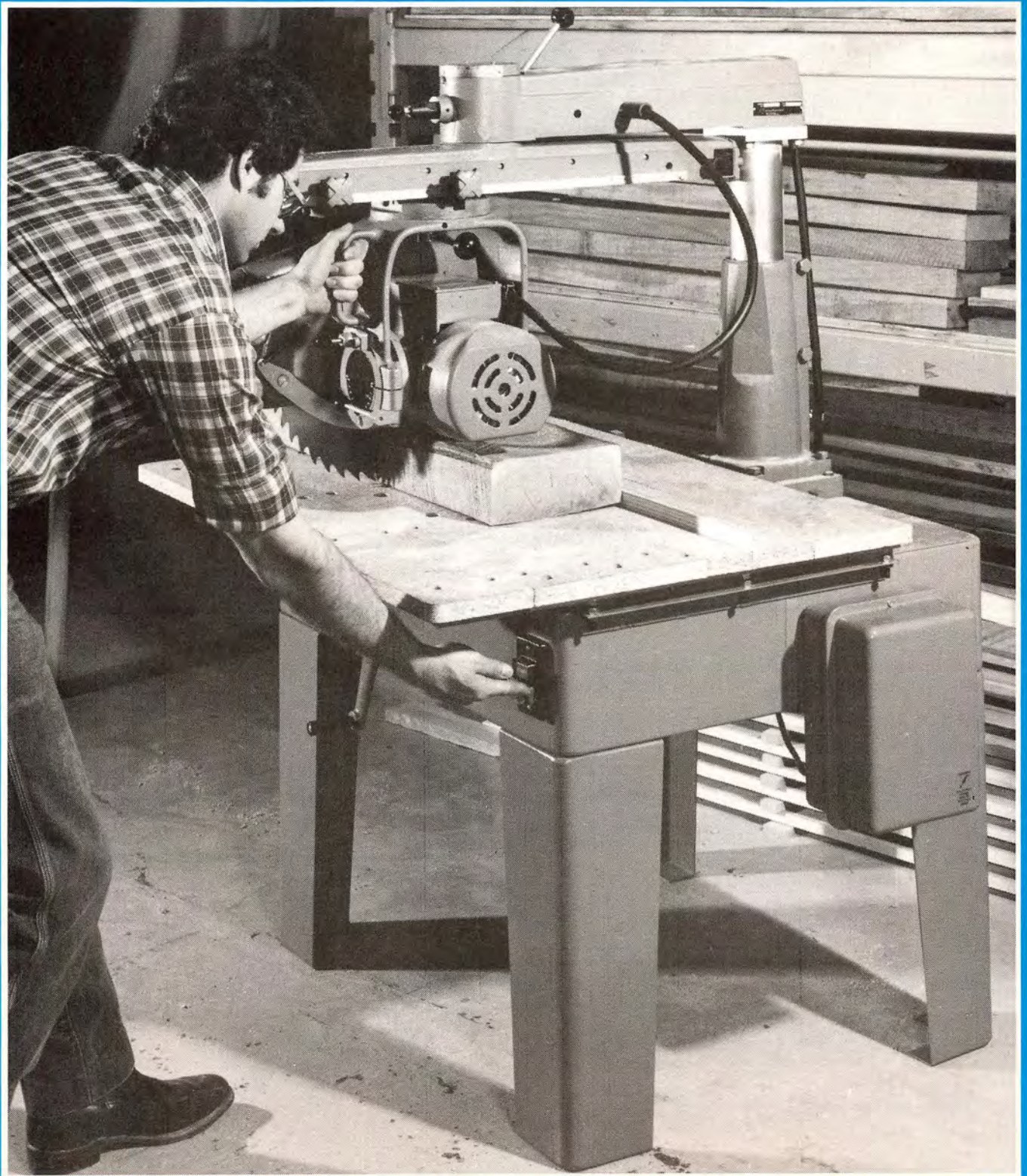
Filters easily cleaned. Most of the dust and material settles immediately into the pull-out drawer. Fine dust which clings to the outside of the fabric filters is easily dislodged by shaking the filter shaker handle.

Easy emptying dust drawer. All "high efficiency" dust collectors contain a handy pull-out drawer with .34 cubic feet storage capacity.

Minimum floor space. "High efficiency" dust collectors require only 19 $\frac{5}{16}$ x 22 $\frac{3}{8}$ " floor space and provide a fabric filtering area of 30 square feet. Cabinets are constructed of steel; doors are felt-gasketed and close with specially designed "Positive-Seal" fasteners.

Delta Electronic Brake

Offers frictionless, automatic braking for all types of wood and metalworking machinery. Controlled, fast braking action makes operations safer while reducing costly "idle time" to increase productivity.



Delta Electronic Brake

You can step up your productivity at small cost with the Delta Electronic Brake! Add safety and efficiency to machine operations!

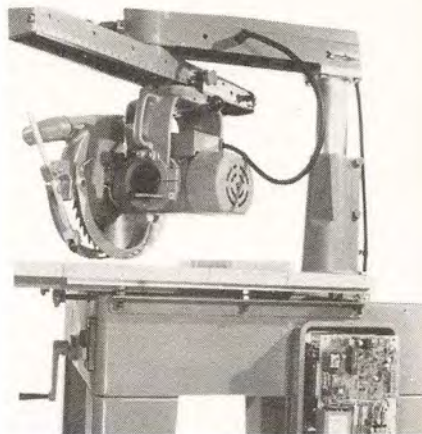
Is excessive "idle time" costing you money on your machinery operations such as sawing, sanding, grinding and shaping? Then, consider the Delta Electronic Brake.

It stops machine arbors and spindles fast – in as little as two seconds – to keep production moving. Offered with 24-volt LVC control, it is packaged in a dust tight, easy-to-install enclosure. Two basic units – one for single phase and one for three phase – together with four small plug-in modules, cover a horsepower range through 7.5 HP and voltages from 110 through 575V. Braking time of 2 to 28 seconds, plus the desired braking force, any be easily and quickly selected.

Delta's patented brake is reliable, too. Its solid state, integrated circuitry is combined with a unique electrical isolation system that permits accurate, reliable brake performance.

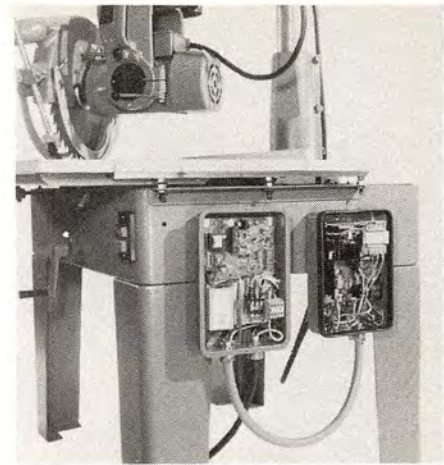
Lower your operating costs now by adding the Delta Brake/LVC combination to your machinery. If they're already equipped with 24-volt LVC

Typical Delta Electronic Brake set-ups



Delta Electronic Brake/LVC Combination, No. 52-708, shown mounted on a 16" radial saw. Brake, together with module, is supplied as Standard Equipment on new factory-built radialsaws.

control, it's a simple matter to add only the Delta Electronic Brake. Either way, you'll reduce your operating costs!



Delta Electronic Brake only, No. 52-710, shown wired into an existing LVC control box in the field. For field retrofit, module must be ordered separately.

Typical stopping times using Delta Electronic Brake

Machine Operation	Coast Time Without Brake (Minutes/Seconds)	Coast Time With Electronic Brake (Minutes/Seconds)
16" Radial Saw	2:49	:16
12" Disc Sander	1:32	:15
10" Grinder	:49	:10
20" Wood Cutting Band Saw	:27	:05
16" Circular Saw	:17	:05
Wood Shaper	:10	:03

Catalog Listing

Electronic Brake/LVC Combination. Mounted in a dust-tight enclosure. Order proper brake module and motor heaters separately.

Cat. No.	Voltage Applications	Phase	Wt., Lbs.
52-707	115/230V	1	16½
52-703	200-230/460/575V	3	17

Electronic Brake for Field Retrofit. Used on single or three phase machines equipped with Delta LVC control. Mounted in a dust-tight enclosure. Order proper brake module separately.

Cat. No.	Voltage Applications	Phase	Wt., Lbs.
52-710	All Voltages	1 & 3	10

Specifications

Input Power: 120, 20-240, 460 or 575 VAC, ± 12.5%, 50 or 60 Hz.

Operating Temperature: -20° to 125°F, ambient

Brake Time Setting: Approximately 1 second to 30 seconds, adjustable

Brake Torque Setting: After first second of operation, torque is fully adjustable

Module Selection Guide

Module	Voltage Rating	Module Color	Cat. No.
	110	Black	52-711
	200-240	Blue	52-712
	450	Green	52-713
	575	Red	52-714

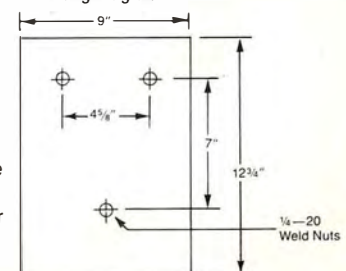
Packaging and Mounting

Enclosure: Unit is provided in a dust-tight, 12¾ x 9 x 4½" enclosure.

Mounting: Three ¼-20 bolts

Ease of Installation: Approximately 16" of armored cable is provided, completely wired to the electronic brake. The only additional requirement is connecting the cable to the motor starter.

Mounting Diagram



Delta Electronic Motor Brake

Technical Data

Principle of Operation

The unique Delta Electronic Brake is a fully solid state unit, designed for use with AC induction motors equipped with a motor starter or low-voltage control system. Brake operation is completely automatic.

When the motor's 'STOP' button is actuated, a solid state circuit senses that the AC power is removed from the motor. Then, the electronic brake converts the AC power to DC power. The electronic circuits apply a controlled DC current to the motor windings.

Both the time and the DC current are adjustable so that only the amount of DC power required to stop the motor in the selected time is applied to the motor windings. The DC power applied to the motor is much less than the power required to run the motor for the same time period. The DC current generates a stationary magnetic field in the motor stator which brings the rotor to a smooth, quiet and fast stop. On completion of the braking cycle, the electronic brake resets automatically. The Delta Electronic Brake is

not a holding brake, therefore, the motor rotor is free to turn when the braking cycle is completed.

Delta's Electronic Brake incorporates a positive lockout feature that prevents the brake from energizing when the AC motor is running. It also prevents the motor from restarting during a braking cycle.

A simple, inexpensive plug-in module, selected by the customer, determines the operating voltage of the Delta Electronic Brake. See chart for voltage and module color selection.

Delta Quality Features

Configurations – Unlike many other electronic brakes where a different physical size unit is required for each voltage, Delta offers just two basic units (single and three phase), together with four small plug-in modules, that cover a horsepower range through 7.5 HP and voltages from 110 through 575 V.

Standardized Mounting – Brake/LVC combination is packaged in a dust tight, standard enclosure which mounts easily like present Delta LVC controls.

Simplified Wiring – Installation wiring is identical to that used on LVC motor controls. No

additional wiring connections are required.

Wide Adjustment Range – Brake stopping time can be set over a wide 2 to 28-second range by a simple control adjustment. Torque is similarly selected.

Patented Brake Circuitry – Unique patented features assure users of advanced operating performance.

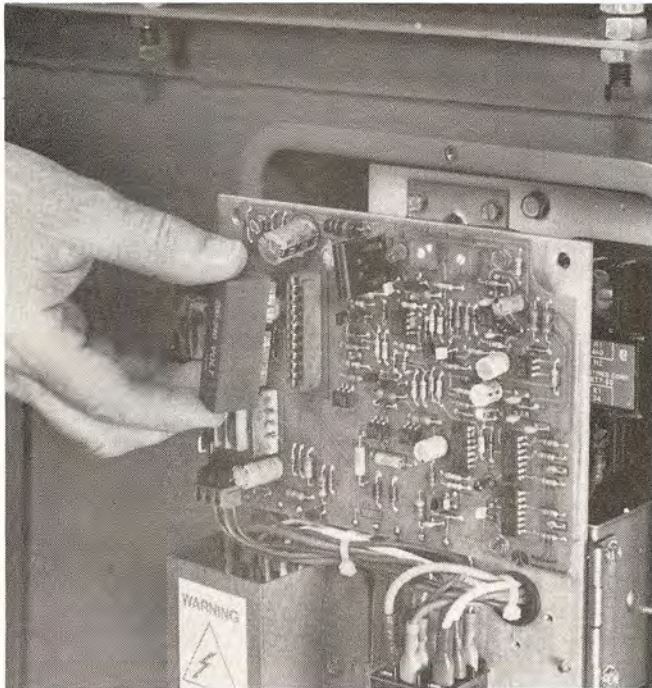
Reliability – Brake's solid state, integrated circuitry is combined with a unique electrical isolation system that permits reliable, accurate brake performance – no contact arcing. There is no wear of the type associated with

mechanical brake systems.

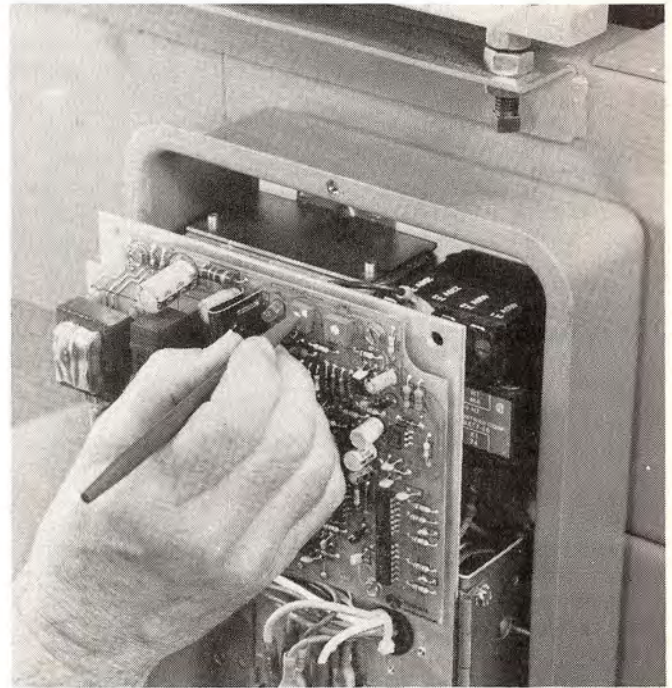
Electrical Safety Codes – Meets NEC (NFPA-79) and OSHA Standards.

Field Retrofit Capability – Wiring and mounting arrangements permit users to readily upgrade existing Delta machinery in the field. For many users, this will mean not only the addition of an electronic brake, but also low voltage restart protection, plus other safety features provided by the LVC system.

Module Selection...Setting Torque and Braking Time



The voltage of the plug-in module must be the same as the input power system voltage for the brake.



Setting the torque and brake time control potentiometers is a simple operation using the special, supplied screwdriver.

Delta Accessories and Attachments for All Shops



No. 25-857 Deluxe Flexible Type Lamp Attachment for 115 V. For use on 20" Band Saws, 6" Tool Grinder, drill presses, metal lathes and in other shop locations. With 18" flexible gooseneck, reflector and 6-foot cord with 3-prong grounding type plug. Uses standard bulb (not included) up to 100 watts. 3 lb.

No. 25-858 Deluxe Flexible Type Lamp Attachment for 115 V. For use on drill presses, band saws, scroll saws and other machines. Includes 9" flexible gooseneck, reflector and 8-foot cord with plug. Uses standard bulb (not included) up to 40 watts. 2 lbs.



Machine Enamel

High quality gray and black enamel that is color blended to machine production finish of Delta Industrial Machinery. Ideal for covering scratches, nicks, chips, etc., to make machine surfaces look like new. Prevents bare surfaces from rusting.

Dark Gray
No. 49-323 Push Button Self-Spray Can.
9¾ av. ozs. 1 lb.

Dealers Note: Single cans not shipped from the distribution center. Order NO. 49-324.

No. 49-324 Carton of 12 Cans of 49-323.
12 lbs.

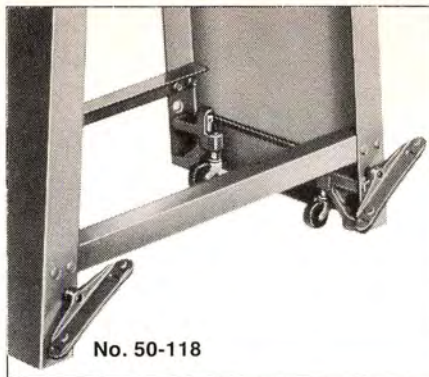
No. 49-333 Quart Size. 2½ lbs.

Light Gray
No. 49-306 Push Button Self-Spray Can.
9¾ av. ozs. 1 lb.

New Delta Gray
No. 49-990 Push Button Self-Spray Can.
9¾ av. ozs. 1 lb.

New Delta Black
No. 49-991 Push Button Self-Spray Can.
9¾ av. ozs. 1 lb.

Retractable Caster Sets



No. 50-118

Make your Delta Industrial Machines mobile and increase their usefulness to your operation. With Retractable Casters on your Delta Machines, you can easily wheel them about your plant or shop, right to the job site. 13 lbs.

No. 49-363 Retractable Caster Set.
Fits open steel stand as follows:

Stands Use On	Machines Used On
50-718	24" Scroll Saw

No. 49-364 Retractable Caster Set.
Fits open steel stand as follows:

Stands Use On	Machines Used On
50-315	10" Bench Saw 10" Contractor's Saw

No. 50-118 Retractable Caster Set.
Fits open steel stand as follows:

Stands Use On	Machines Used On
50-510	1" Sander/Grinder
50-513	Lt. Duty Wood Shaper

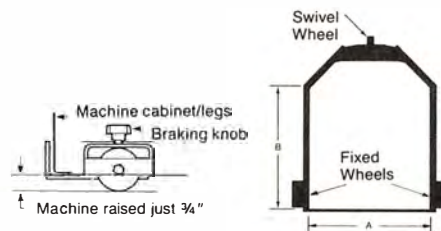
No. 50-241 Retractable Caster Set.
Fits steel stand as follows:

Stands Use On	Machines Used On
Open steel stand 436-02-389-0005	14" Band Saw

Delta Mobile Machinery Bases

Increase the Mobility and Performance of Your Shop Machines

Made of heavy gage steel with welded joints and fittings, Delta Mobile Bases feature a single swivel caster, and two rigid type wheels complete with braking knobs. Working height of mobile base mounted machines is increased by less than ¾".

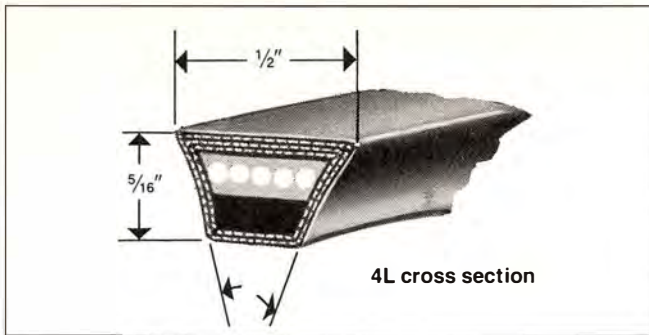


Model No.	For Use On	Dimensions	
		A	B
50-260	Delta Unisaw Equipped with Unifence Saw Guide	20⅞"	20½"
		With Support Rods for Unifence	
50-261	Delta Unisaw and/or H.D. Shaper	20⅞"	20½"
50-262	Delta 14" Band Saw on Open Type Stand	19¼"	31"
50-263	Delta 14" Band Saw, 6" Belt, 12" Disc and/or Belt/Disc Combination Finishing Machine on Enclosed Type Stand	16⅞"	18"
50-264	Delta L.D. Wood Shaper	19¼"	16¾"
50-265	Delta 10" Contractor's Saw; 10" Tilting Arbor Saw or 13" Planer on 50-315 Stand	Base Fits Just Inside Legs of Open Type Stand	
50-266	Delta 18" Electronic Variable Speed Scroll Saw	17"	27"
50-267	Delta DJ-15 6" Precision Jointer	16¾"	27¼"
50-268	Delta DJ-20 8" Precision Jointer	17"	36½"

Delta Accessories and Attachments for All Shops (continued)

V-Belts (4L Type)

Vibration free. Designed to make perfect contact with side of V-groove, these V-belts transmit maximum power with minimum slip.



Cat. No.	Out. Cir.	Cat. No.	Out. Cir.	Cat. No.	Out. Cir.
*49-124	26"	49-152	36"	49-354	47 ⁵ / ₈ "
‡49-150	28 ¹ / ₄ "	49-340	36 ¹ / ₂ "	51-009	48"
49-101	29"	49-195	37"	49-025	54"
49-105	30"	49-154	40"	49-035	54 ³ / ₈ "
†49-121	30"	49-168	41"	49-173	57"
49-287	31"	49-104	42"	49-172	59"
49-273	32"	49-034	44"	49-146	65"
49-149	33"	49-167	45"	51-010	67"
49-303	35"	51-008	47"	49-094	81"

* Matched set of three. † Matched set of two. ‡ Matched set of four.

Single Groove Pulleys for 4L Cross Section Belts

(⁵/₈" , ³/₄" and ⁷/₈" bore contain ³/₁₆" keyways)

Single Groove Pulley O.D.	Cat. No. (¹ / ₂ " Bore)	Cat. No. (³ / ₄ " Bore)	Cat. No. (¹ / ₄ " Bore)	Cat. No. (⁵ / ₈ " Bore)
2"	—	41-003	—	—
2 ¹ / ₄ "	—	41-013	—	—
2 ³ / ₄ "	—	41-033	—	—
3"	41-042	41-043	—	—
3 ¹ / ₂ "	—	41-053	41-054	—
4"	—	41-063	41-064	—
4 ¹ / ₂ "	—	—	41-074	—
5"	—	41-083	41-084	—
6"	—	—	41-104	—
7"	—	—	41-124	—
*7 ¹ / ₂ "	—	41-136	41-134	41-140
10"	41-152	—	—	—

*A special balanced cast iron pulley for the No. 43-370 Heavy Duty Wood Shaper.

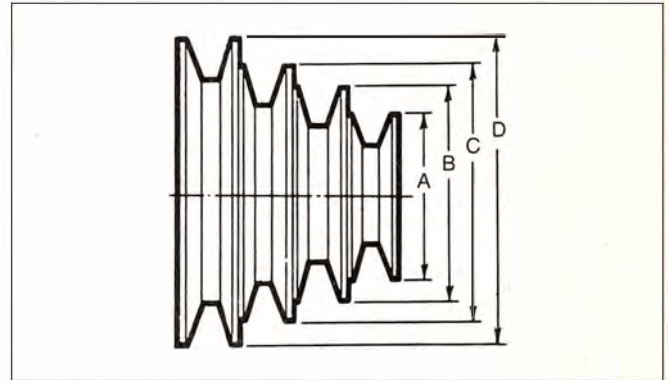
Special Heavy Duty Single and Multiple Groove Pulleys

O.D.	Grooves	Cat. No. (⁵ / ₈ " Bore)	Cat. No. (³ / ₄ " Bore)	Cat. No. (1" Bore)	Keyway	Belt Cross Section
3"	1	41-203	—	—	³ / ₁₆ "	4L
3"	3	—	41-644	—	³ / ₁₆ "	4L
3 ¹ / ₂ "	2	41-504	—	—	³ / ₁₆ "	4L
7"	1	—	—	41-006	¹ / ₄ "	A

Four-Step Pulleys

Made for same size V-belts as single groove pulleys. May be used in pairs as listed in table below and will provide speeds listed when used with 1725 RPM motor. All available with ¹/₂" , ⁵/₈" and ³/₄" bores. ⁵/₈" and ³/₄" bores have a ³/₁₆" keyway.

Cat. No. (¹ / ₂ " Bore)	Cat. No. (⁵ / ₈ " Bore)	Cat. No. (³ / ₄ " Bore)
41-712	41-713	41-714
41-722	41-723	41-724
41-732	41-733	41-734
41-702	41-703	41-704

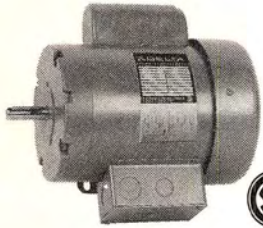


Number of Pulley	Pulley Outside Dimensions—Inches			
	A	B	C	D
41-712 41-713 41-714	1 ³ / ₄	2 ¹ / ₄	2 ³ / ₄	3 ¹ / ₈
41-722 41-723 41-724	3 ¹ / ₈	3 ⁵ / ₈	4	4 ¹ / ₂
41-732 41-733 41-734	2 ¹ / ₂	3 ¹ / ₈	3 ⁷ / ₈	4 ¹ / ₂
41-702 41-703 41-704	2 ¹ / ₈	3 ¹ / ₈	4 ¹ / ₄	5 ¹ / ₄

Driver	Driven	Speeds			
41-712 41-713 41-714	41-712 41-713 41-714	905	1410	2100	3340
41-722 41-723 41-724	41-722 41-723 41-724	1180	1520	2000	2530
41-712 41-713 41-714	41-722 41-723 41-724	610	910	1255	1725
41-722 41-723 41-724	41-712 41-713 41-724	1725	2370	3290	4900
41-732 41-733 41-734	41-732 41-733 41-734	915	1380	2150	3260
41-702 41-703 41-704	41-702 41-703 41-704	656	1240	2400	4500

Delta Motors

Designed specifically for Delta products!



Dependable Delta Heavy Duty Motors are comparatively low in cost—but they are NOT built down to a price. Quality has been maintained throughout. They are the finest motors available at anywhere near their price. Dependable Delta Standard Duty Motors give you all the performance you require, on the products for which they are recommended, at the *lowest* possible cost! Check the specially engineered features on all Delta Motors.

All ball bearings are lubricated for life. Bearing designs permit Delta

Motors to be mounted either vertically or horizontally.

All Delta motors comply with or exceed the motor manufacturing power standards (breakdown torque) as established by the National Electrical Manufacturers Association (NEMA).

Accurately balanced rotors insure smoothness of operation and prevent destructive vibration.

Well designed ventilating systems assure cool operating motors, thus providing adequate overload capacity and longer motor life.

Specifications for Delta Single Phase Motors

Catalog Number	H.P.	R.P.M.	Volts	**Nameplate Amps	Hertz	Shaft	Frame Size	Switch	Cord and Plug	Enclosure	Duty	Wt./Lbs.
§*52-493	1	3450	115	16	60	5/8" Single	NEMA 56	SPST	Yes	GD	Standard	32
60-054	1	1725	115/230	16/8	60	7/8" Single	NEMA 143T	None	None	TEFC	Heavy	55
60-055	2	1725	230	12	60	7/8" Single	NEMA 145T	None	None	TEFC	Heavy	75
62-006	1 1/2	3450	115/230	20/10	60	5/8" Single	NEMA 56	None	None	TEFC	Heavy	38
§*62-042	1 1/2	3450	115/230	20/10	60	5/8" Single	NEMA 56	DPST	Yes	TEFC	Heavy	42
§62-103	1	3450	115/230	16/8	60	5/8" Single	NEMA 56	DPST	Yes	TEFC	Heavy	47
62-129	1 1/2	3450	115/230	20/10	60	5/8" Single	NEMA 56	None	None	TEFC	Heavy	37
§*62-142	1/2	1725	115	9.8/4.9	60	5/8" Single	NEMA 56	SPST	Yes	GD	Standard	27
§*62-144	1/2	3450	115	9.8/4.9	60	5/8" Single	NEMA 56	SPST	Yes	GD	Standard	28
*62-146	1	3450	115	16	60	5/8" Double	NEMA 56	SPST	Yes	GD	Standard	34
*62-166	1/3	1725	115/230	7.2/3.6	60	1/2" Double	NEMA 56	None	None	GD	Heavy	17 1/2
62-169	2	3450	230	12	60	7/8" Single	Special	DPST	Yes	TEFC	Heavy	47
62-175	2	3450	230	12	60	7/8" Single	NEMA 145T	DPST	Yes	TEFC	Heavy	52
62-225	3/4	1725	115/230	13.8/6.9	60	5/8" Single	NEMA 56	None	None	TEFC	Standard	30
62-226	1/2	1140	115/230	9.8/4.9	60	5/8" Single	NEMA 56	None	None	TEFC	Heavy	39
62-228	1	1725	115/230	16/8	60	5/8" Single	NEMA 56	None	None	TEFC	Standard	47
††62-245	3/4	1725	115/230	13.8/6.9	60	5/8" Single	NEMA 56	None	None	TEFC	Heavy	33
§††62-246	3/4	1725	115/230	13.8/6.9	60	5/8" Single	NEMA 56	DPST	Yes	TEFC	Heavy	35
§††62-247	3/4	1725	115/230	13.8/6.9	60	5/8" Single	NEMA 56	DPST	Yes	TEFC	Heavy	35
62-680	1/2	1725	115/230	9.8/4.9	60	5/8" Single	No. 6	None	None	GD	Heavy	24
†82-006	3	3450	230	17	60	7/8" Single	NEMA 145T	None	None	TEFC	Heavy	55
82-040	1 1/2	1725	115/230	20/10	60	7/8" Single	NEMA 145T	None	None	TEFC	Heavy	60
82-041	1	1725	115/230	16/8	60	7/8" Single	NEMA 143T	None	None	TEFC	Heavy	55
83-004	5	3450	230	28	60	1 1/8" Single	NEMA 184T	None	None	TEFC	Heavy	93
83-041	3	1725	230	17	60	1 1/8" Single	NEMA 184T	None	None	TEFC	Heavy	91
83-069	3	3450	230	17	60	1 1/8" Single	NEMA 184T	None	None	TEFC	Heavy	79
83-070	1	1140	115/230	16/8	60	7/8" Single	NEMA 182	None	None	TEFC	Heavy	95
*83-621	1 1/2	3450	115/230	20/10	60	3/4" Single	Special	None	None	TEFC	Heavy	58
*83-631	2	3450	115/230	24/12	60	3/4" Single	Special	None	None	TEFC	Heavy	67
*83-651	3	3450	230	17	60	3/4" Single	Special	None	None	TEFC	Heavy	80

Specifications for Delta Three Phase Motors

Catalog Number	H.P.	R.P.M.	Volts	**Nameplate Amps	Hertz	Shaft	Frame Size	Switch	Cord and Plug	Enclosure	Duty	Wt./Lbs.	Cat. No. 575 V Version	†Cat. No. 200 V Version
60-056	2	1725	230/460	6.8/3.4	60	7/8" Single	NEMA 145T	Not Supplied	TEFC	Heavy	50	60-057	60-058	
66-041	1 1/2	3450	230/460	5.2/2.6	60	5/8" Single	NEMA 56	Not Supplied	TEFC	Heavy	44	66-045	66-044	
66-071	1/2	1140	230/460	2/1	60	5/8" Single	NEMA 56	Not Supplied	TEFC	Heavy	33	—	66-072	
66-073	3/4	1725	230/460	2.8/1.4	60	5/8" Single	NEMA 56	Not Supplied	TEFC	Standard	30	—	66-074	
66-075	1/2	1725	230/460	2/1	60	5/8" Single	NEMA 56	Not Supplied	TEFC	Standard	27	—	66-076	
66-077	1	1725	230/460	3.6/1.8	60	3/4" Single	NEMA 56	Not Supplied	TEFC	Standard	32	—	66-078	
*66-245	1/3	1725	200-230/460	2/1	60	1/2" Double	NEMA 56	Not Supplied	GD	Heavy	16 1/2	—	66-245	
66-369	1/2	1725	230/460	2/1	60	5/8" Single	No. 6	Not Supplied	GD	Heavy	27	—	66-359	
†86-006	5	3450	230/460	15.2/7.6	60	7/8" Single	NEMA 145T	Not Supplied	TEFC	Heavy	55	86-008	86-007	
†86-009	3	3450	230/460	9.6/4.8	60	7/8" Single	NEMA 145T	Not Supplied	TEFC	Heavy	53	86-111	86-010	
86-040	1 1/2	1725	230/460	5.2/2.6	60	7/8" Single	NEMA 145T	Not Supplied	TEFC	Heavy	45	—	86-047	
86-044	1	1725	230/460	3.6/1.8	60	7/8" Single	NEMA 143T	Not Supplied	TEFC	Heavy	40	—	86-045	
86-070	1	1140	230/460	3.6/1.8	60	7/8" Single	NEMA 145T	Not Supplied	TEFC	Heavy	55	—	86-071	
87-040	3	1725	230/460	9.6/4.8	60	1 1/8" Single	NEMA 182T	Not Supplied	TEFC	Heavy	65	87-044	87-043	
87-041	5	1725	230/460	15.2/7.6	60	1 1/8" Single	NEMA 184T	Not Supplied	TEFC	Heavy	80	87-048	87-047	
*87-369	5	3450	230/460	9.6/4.8	60	3/4" Single	Special	Not Supplied	TEFC	Heavy	82	87-371	87-370	

* Supplied with integral, manual reset and thermal overload protection.
 § Supplied with a remote, mounted toggle switch and 8' grounding cord set mounted and wired. All tools are provided with a switch locking plate and mounting provisions.
 †† Resilient frame mounting.

‡ Supplied with integral reversing switch.
 • Due to larger physical dimensions, motor will not fit UNISAW cabinets with oval-shaped opening on right side. Use Motor No. 83-611, 1 1/2 HP, 1F only.
 † 200 V motors can be used on same machines as 230/460 V motors. See Page P2.
 •• Ampere specifications correspond to full load current ratings taken from National Electric Code.

DPST—Double pole, single throw.
 SPST—Single pole, single throw.
 TENV—Totally enclosed, non-ventilated.
 TEFC—Totally enclosed, fan cooled.
 GD—Guarded drip-proof.

Machine Applications for Delta Motors

Machines on which Delta Motors may be used

Motor Cat. No.	Band Saw 9" x 16", Finishing Machine, 12" Abrasive Disc	Band Saw, 20"	Band Saw, 14"	Circular Saw, RT-40 14" Saw; Shaper, RS-15 S-Speed; Planer, RC-51 20"	Circular Saw, 10" Unisaw	Circular Saw, 10" Bench	Fin. Mach., 6" Ab. Belt & Comp., Jointer, 8"	Circular Saw, 10" Contractor's	Circular Saw, 9" Contractor's	Drill Press, 20"	Drill Press, 17"	Drill Press, 15"	Wood Lathe, Ram	Wood Lathe, 12" Heavy Duty	Jointer, 6" Deluxe; Wood Lathe, 12"	Jointer, 4" Deluxe; Sander/Grinder, 1"	Planer, RC-33 13" x 5, 9"	Scroll Saw, 24"	Shaper, Heavy Duty	Shaper, Light Duty	Saw, Jointer Combination, 9" Saw, 4" Jointer	RU-50 Router, 8" x 14" Horizontal Band Saw	12" Economy Wood Lathe
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Single Phase Motors

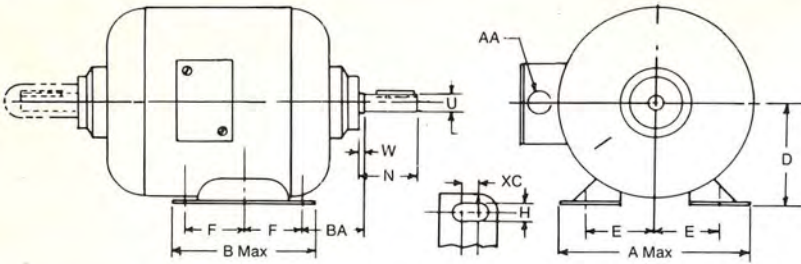
52-493																										X		
60-054	X																											
60-055	X																											
62-006						X																						
62-042								X																				
62-103																												
62-129							X																					
62-142		X																										
62-146																												
62-166																												
62-169																			X									
62-175																												
62-225										X			X															
62-226										X																		
62-228										X			X															
62-245		X								X		X																
62-246		X								X		X																
62-247													X		X													
62-247													X		X													X
62-680											X																	
82-006																		X										
82-040										X																		
82-041	X									X																		X
83-004						X																						
83-070										X																		
83-621					X																							
83-631					X																							
83-651					X																							

Three Phase Motors

60-056		X																										
66-041							X																					
66-071											X																	
66-073											X				X													
66-075		X																										
66-077													X															
66-369											X																	
86-006																			X									
86-009																		X										
86-040									X																		X	
86-044	X						None	None			X				None						None	None						
86-070							None	None		X					None						None	None						
87-369					X																							

Machine Applications for Delta Controls

Dimensional Data on Delta Motors



* Some Delta motors are supplied with a junction box in one of the motor end bells instead of on the side of the motor frame. Motors with end bell junction boxes do not have knockouts, only 2 slots which allow passage of motor cables, and holes which allow mounting of control switch or cable clamp.

† Supplied with key.

Motor Frame	A Max	AA Min	B Max	BA	D	E	F	H	N-W	U	XC
Delta No. 6	6 ⁵ / ₁₆	1/2 *	4 ³ / ₄	2	3 ¹ / ₄	2 ¹ / ₂	1 ¹⁵ / ₁₆	3/8	1 ⁷ / ₈	5/8 †	1 ⁷ / ₃₂
NEMA 56	—	5/8 *	—	2 ³ / ₄	3 ¹ / ₂	2 ⁷ / ₁₆	1 ¹ / ₂	1 ¹ / ₃₂	1 ⁷ / ₈	5/8 †	1 ¹ / ₃₂
NEMA 143T	7	3/4	6	2 ¹ / ₄	3 ¹ / ₂	2 ³ / ₄	2	1 ¹ / ₃₂	2 ¹ / ₄	7/8 †	—
NEMA 145T	7	3/4	6	2 ¹ / ₄	3 ¹ / ₂	2 ³ / ₄	2 ¹ / ₂	1 ¹ / ₃₂	2 ¹ / ₄	7/8 †	—
NEMA 182	9	3/4	6 ¹ / ₂	2 ³ / ₄	4 ¹ / ₂	3 ³ / ₄	2 ¹ / ₄	1 ³ / ₃₂	2 ¹ / ₄	7/8 †	—
NEMA 182T	9	3/4	6 ¹ / ₂	2 ³ / ₄	4 ¹ / ₂	3 ³ / ₄	2 ¹ / ₄	1 ³ / ₃₂	2 ³ / ₄	1 ¹ / ₈ †	—
NEMA 184T	9	3/4	7 ¹ / ₂	2 ³ / ₄	4 ¹ / ₂	3 ³ / ₄	2 ³ / ₄	1 ³ / ₃₂	2 ³ / ₄	1 ¹ / ₈ †	—

Machines on which Delta Controls and Wiring Kits may be used

Control Cat. No.	34-881	34-883	34-888	49-000	49-312	49-313	49-330	49-331	49-357	49-417	49-513	49-514	49-530	49-670	49-671	49-672	51-115	51-331	52-346	52-347	52-348	52-704	52-705	
Band Saw, 8" x 14"			X																		X	X	X	
Band Saw, 9" x 16"																						X	X	X
Band Saw, 7" x 10"								X	X	X	X	X	X			X						X	X	X
Band Saw, 20"			X						X	X	X	X	X	X			X		X	X	X	X	X	X
Band Saw, 14"			X				X	X	X	X	X	X	X	X								X	X	X
Cir. Saw, 10" Unisaw			X							X	X	X	X	X	X						X	X	X	X
Cir. Saw, 10" Bench	X	X	X								X	X	X	X	X						X	X	X	X
Cir. Saw, 10" Contractor's										X	X	X	X	X							X	X	X	X
Cir. Saw, 9" Contractor's								X	X	X	X	X	X								X	X	X	X
Coolant Pump				X	X			X	X	X	X	X	X			X								
Drill Press, 20"			X							X	X	X	X	X	X	X					X	X	X	X
Drill Press, 17"			X							X	X	X	X	X	X	X					X	X	X	X
Drill Press, 15"			X				X	X	X	X	X	X	X	X	X	X					X	X	X	X
Drill Press, 14" Super-Hi								X	X	X	X	X	X			X	X				X	X	X	X
Drill Press, Ram Radial								X	X	X	X	X	X	X	X					X	X	X	X	X
Fin. Mach., 6" Abr. Belt			X				X	X	X	X	X	X	X	X	X					X	X	X	X	X
Fin. Mach., 12" Disc			X							X	X	X	X	X	X					X	X	X	X	X
Fin. Mach., 6" Belt & 12" Disc			X								X	X	X	X	X					X	X	X	X	X
Grinder, Sander/Grinder 1"								X	X	X	X				X						X			
Grinder, 10"						X				X	X	X									X			
Grinder, 10" Grinder/Finisher						X				X	X	X									X			
Grinder, 8"						X				X	X	X									X			
Grinder, Twin-Belt Finisher						X				X	X	X									X			
Grinder, 7"						X		X	X	X	X	X									X			
Grinder, 7" Grinder/Finisher						X		X	X	X	X	X									X			
Grinder, 6" Tool						X		X	X	X	X	X												
Grinder, Long Shaft Buffer					X		X	X	X	X	X	X						X	X	X	X	X	X	X
Jointer, 8" & 8" Precision			X					X	X	X	X	X				X				X	X	X	X	X
Jointer, 6" & 6" Precision			X					X	X	X	X	X				X				X	X	X	X	X
Jointer, 4" Deluxe							X	X	X	X	X											X	X	X
Radial Saw, 18"			X									X								X	X	X		
Radial Saw, 16" & 14"			X									X								X	X	X		
Saw-Jointer Combination						X	X	X	X	X	X													
Scroll Saw, 24"							X	X	X	X	X					X								
Wood Lathe, 12" Heavy Duty			X								X	X							X	X	X	X	X	X
Wood Lathe, 12" Standard Duty			X					X	X		X	X				X			X	X	X	X	X	X
Wood Shaper, Heavy Duty								X	X	X	X	X									X	X	X	X
Wood Shaper, Light Duty								X	X	X	X	X												
Router/Shaper, Overarm								X	X	X	X	X												

Delta Controls and Wiring Kits

Manual Single Phase Controls and Wiring



51-115



52-346

Catalog Number	Product Usage	Description	Maximum HP Rating of Switches				Weight Lbs.
			115V AC	230V AC	115V DC	230V DC	
Manual Control Switch With Wiring							
49-312	Coolant Pump	On-Off Toggle Switch, 2-Pole with 8', #16-3 Wire Cable, SJ/3 Prong 115 V Grounding Plug, mounting and connecting hardware.	1½	1½	1½	1½	2
49-313	Coolant Pump	On-Off Toggle Switch, 2-Pole with 8', #16-3 Wire Cable, SJ/3 Prong 230 V Grounding Plug, mounting and connecting hardware.	1½	1½	1½	1½	1
34-891	10" Tilting Arbor Bench Saw	Start-Stop Push Button Switch, 2-Pole, 3-Wire Cable Assembly, 115-Volt Cord Set, mounting and connecting hardware.	2	3	1	—	3
34-898	10" Tilting Arbor Bench Saw	Start-Stop Push Button Switch, 2-Pole, 3-Wire 14-3 Cable Assembly, 230-Volt Cord Set, mounting and connecting hardware.	2	3	1	—	3

Manual Control Switch



49-357



51-115	General See Description	On-Off Toggle Switch, 2-Pole, Three Hole flush mounting with hole in toggle. For use with No. 49-385 Kit.	1½	1½	1½	1½	1
49-330	10" Grinder	On-Off Toggle Switch, 2-Pole, Single Hole mounting with solid toggle. For replacement use.	1½	1½	1½	1½	2
49-670	General	Start-Stop Push Button Switch, 2-Pole. Recommended for replacement use.	1	1½	1	1½	2
52-346	General	Start-Stop Push Button Switch, 2-Pole. Includes Box, Cover, Gasket and mounting hardware. Recommended for use on Open Steel Stands and for replacement use.	2	2	—	—	2

Catalog Number	Product Usage	Description	Amp Rating		Weight Lbs.
			115 V AC	230 V AC	

Wiring

49-357	General	Consists of 8', #16-3 Wire Cable, SJ/3 Prong 115 V Grounding Plug.	13	—	3
49-513	General	Consists of 8', #14-3 Wire Cable, S/3 Prong 115 V Grounding Plug.	15	—	3
49-417	General	Consists of 8', #16-3 Wire Cable, SJ/3 Prong 230 V Grounding Plug.	—	13	2
49-514	General	Consists of 8', #14-3 Wire Cable, S/3 Prong 230 V Grounding Plug.	—	15	3

51-331

Manual Control Switch Rod

Provides very low-cost, finger tip control of single phase motors which have built-in toggle switches. Made of ½" steel rod with a loop handle at one end and cotter pin hole at opposite end.

51-331	Super-Hi 14" Drill Press	Switch Rod, 15½" long. Includes cotter pin and bent wire guide with grommet.	—	—	1
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Manual Three Phase Controls and Wiring



52-347

Catalog Number	Product Usage	Description	Maximum HP Rating of Switches		Weight Lbs.
			200-230 V AC	460-575 V AC	
Manual Control Switch and Wiring					
34-893	10" Tilting Arbor Bench Saw	Start and Stop Push Button Switch, 3-Pole, 4-Wire Cable, mounting and connecting hardware.	3	3	4

Manual Control Switch

49-671	General	Start and Stop Push Button Switch, 3-Pole. Recommended for replacement use.	2	2	2
52-347	General	Start and Stop Push Button Switch, 3-Pole. Includes Box, Cover, Gasket and mounting hardware. Recommended for use on Open Steel Stands and for replacement use.	2	2	2

Delta Controls and Wiring Kits (continued)

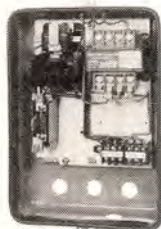
Magnetic Single and Three Phase Controls



52-348

Catalog Number	Product Usage	Description	Voltage Rating	Weight Lbs.
Magnetic Control Switch				
49-672	General	Start and Stop Push Button Magnetic Starter Control Switch. Recommended for remote control of magnetic starters and for replacement use.	600 Volts Max.	2
52-348	General	Start and Stop Push Button Magnetic Starter Control Switch. Includes Box, Cover, Gasket and mounting hardware. Recommended for remote control of magnetic starters and for replacement use.	600 Volts Max.	2

Magnetic Motor Starters With 24 Volt Control (LVC)



52-704



52-702

Delta LVC Magnetic Motor Starters have been designed for exclusive use on Delta Industrial Machines. All starters are supplied in a dust-tight enclosure and provide low-voltage, no voltage and accurate overload protection. When ordering heaters, specify motor number with nameplate volts, amps, RPM and HP. Separate 24-volt magnetic control switch must be used with starters. Order Magnetic Control Switch No. 52-348 for use in conjunction with Starter No. 52-704 or 52-705. For retrofit mounting of LVC controls on drill presses, order mounting plate separately.

Catalog Number	Product Usage	Description	Maximum HP Rating				Weight Lbs.
			1 Phase		3 Phase		
			115V AC	230V AC	200-230V AC	400-460V AC	
52-704	General	Definite purpose full voltage motor starter with 24-volt control (LVC) transformer. Designed for single phase, 115-230 volt, 50/60 Hz. power systems. UL/CSA listed. Order heater separately.	1.5	5.0	—	—	12
52-702	General	Definite purpose full voltage motor starter with 24-volt control (LVC) transformer. Designed for three phase, 200-230-400-460 volt, 50/60 Hz. power systems. UL/CSA listed. Order three heaters separately.	—	—	7.5	7.5	12

Control Transformers

These Transformers provide 115 volt control when used with Magnetic Starters. They have a secondary voltage of 115 Volts; are rated 50 VA, 60 Cy. They are supplied with integral pipe nipple for mounting in starter box knockout.

Catalog Number	Product Usage	Description	Voltage Rating	Weight Lbs.
49-517	General	Control Transformer.	575	2
49-530	General	Control Transformer.	200-230-460	2



49-530

“JIC” Type Three Phase Control Kit

49-000	See Product Page	Consists of Allen-Bradley combination non-reversing, size 1 starter with 60 amp fused disconnect and control transformer in a NEMA type 12 enclosure. Unit is mounted and wired with oil tight conduit and fittings to an oil tight, surface mounted start-stop control station and totally enclosed motor. This kit must be ordered in addition to a three phase push button control and magnetic starter (with 115 V transformer) ordered with the machine.
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For application of controls and wiring kits, refer to controls and wiring kits listed on product pages.

Write to factory for information on available motor controls and wiring kits not listed.

Such items, when ordered special, are not subject to cancellation.

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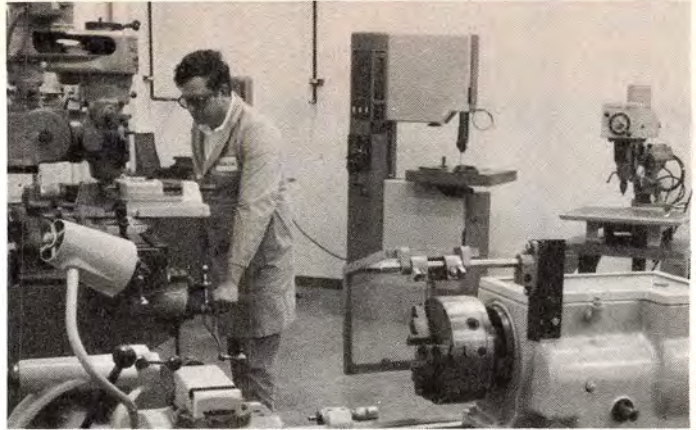


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Fairbanks Aero Services, Inc.
Box 60590
907-479-6666

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Circle Saw Shop & Ind. Tool Inc.
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Electric Motor Company
1028 Broadway
602-622-8877

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Electric Tool Co.
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Fresno 93703
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Stanislaus Electric Mtr. Wrks.
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San Leandro 94577
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707-528-1111

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1626 Republican Street
808-841-0902
Honolulu 96817
John Grinnon Co., Inc.
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808-538-7333
Kahului 96732
Maui Power Tool Service
251-H2 Lalo Street
808-877-3440

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Air Equipment Company
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IDAHO

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K C Supply Company
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Twin Falls 83301
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Evansville 47711
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812-464-9341
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C & L Electric Motor Repair
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Indianapolis 46241
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3129 Kentucky Avenue
317-248-1444
Indianapolis 46220
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5335 N. Tacoma Avenue
317-257-1368

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Industrial Engineering
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1958 River Street
319-323-9721
Des Moines 50309
Puckett Electric Tools Inc.
1011 Keo Way
515-244-4189

KANSAS

Wichita 67213
Richmond Electric Co.
911 Maple
316-264-2344

KENTUCKY

Louisville 40219
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Tool Repair
8109 Preston Highway
502-969-1626

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Baton Rouge Rental Service
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Kenner 70062
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504-469-7363
Shreveport 71101
McClamroch Machinery
939 Louisiana Avenue
318-222-9249

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M and W Electric
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207-772-2057

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Hyattsville 20781
Porter-Cable Corporation
4811 Kenilworth Avenue
301-779-8080

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Fall River 02721
Burns, Inc.
350 M. S. Bishop Blvd.
617-675-0381
Springfield 01105
Saw Center
472 Main Street
413-734-2045

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Petoskey 49770
Ed's Electric Appliance Service
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S. U.S. Hwy. 31
616-347-9599
Southfield (Detroit) 48075
Porter-Cable Corporation
18650 W. Eight Mile Road
313-569-4333

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4315 68th Avenue North
612-561-9080

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Jackson 39204
Flannigan Electric Co., Inc.
1820 S. West Street Ext.
P.O. Box 8657
601-354-2756

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Porter-Cable Corporation
1141 Swift Avenue
P.O. Box 12393
816-221-2070
St. Louis 63119
Porter-Cable Corporation
7574 Watson Road
314-968-8950

MONTANA

Billings 59101
Allen's Electric Tool Repair
431 St. John's Avenue
406-248-3865

Black Eagle 59414
Mosch Electric Motors
2513 17th Street North
406-453-2481

Missoula 59801
Montana Tool Co.
1908 North Avenue W.
406-721-6425

Missoula 59806
City Electric
Electro Service Center Div.
1919 Harve
406-549-4115

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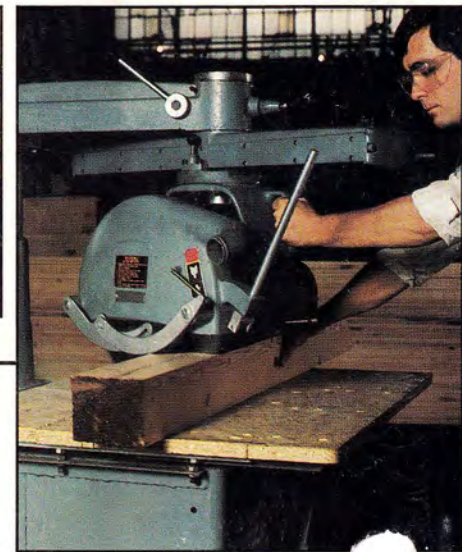
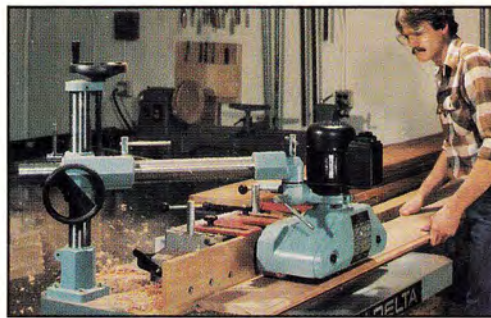
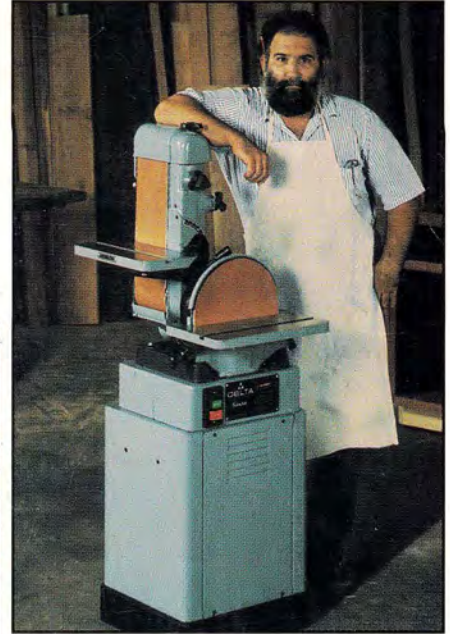
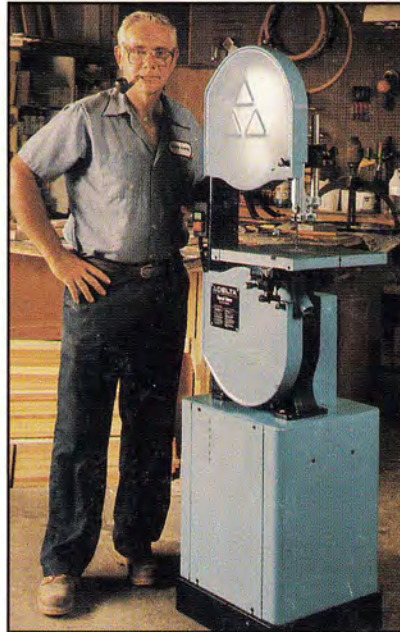
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