

Central Machinery 43389 17" 16-Speed Floor Drill Press



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Operation

Refer to owner's manual for complete operational instructions. Central_Machinery_43389_Manual.pdf	
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Drilling Holes

1. Loosen the Column Clamp and adjust Table height to accommodate the workpiece being drilled.
2. Secure the workpiece (and backup material) to the Table using a vise and /or clamp.
3. Adjust the height and left/right position of the Table. Tighten the Column Clamp.
5. Bring the drill bit down with the Feed Handle to where the hole is to be drilled. Make minor workpiece alignment adjustments.

WARNING! Wear an ANSI-approved, full face shield while drilling any type of material.

6. Push the Switch up to turn the Motor ON.

7. Pull down on the Feed Handle and slowly drill the hole into the workpiece.

WARNING! If the drill bit grabs and spins the workpiece, do not attempt to stop the spinning with your hands. Step back, and turn the drill press off. Wait for the spindle to stop turning before dislodging the workpiece.

8. Push the Switch down to turn the Motor OFF.

Changing Drill Speed

Always match the speed of the drill press to the material and type of bit being used. Refer to the chart at right.

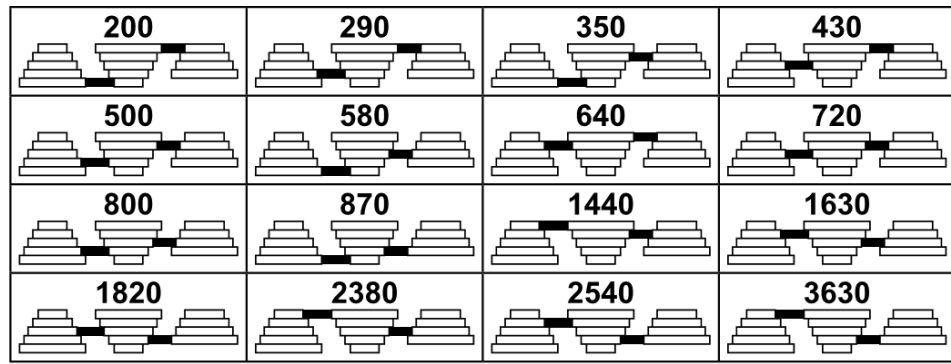
1. Turn off and unplug the Drill Press before changing drill speed.

2. Open the Pulley Cover.

3. Loosen the Belt Tension Lock Knobs on both sides of the Head and turn the Belt Tension Lever clockwise. This will bring the Motor Pulley towards the Spindle Pulley, removing all tension from the drive Belts.

4. Consult Figure A (or the chart inside the Pulley Cover) and install the Belts on the Pulleys in the positions that correspond to the required spindle/drill speed.

5. When the Belts have been correctly positioned, tighten them by turning the Belt Tension Lever counterclockwise. The tension is correct when the belts deflect by approximately 1/2 at their centers of run when using reasonable thumb pressure. Lock this position in with the two Belt Tension Lock Knobs.



A29 Left Belt

A27 Right Belt

Figure A: Belt Speed Settings

WOOD[®] Magazine's

DRILL PRESS SPEED CHART

Recommended operating speeds (RPM)							
Accessory	Softwood (Pine)	Hardwood (Hard Maple)	Acrylic	Brass	Aluminum	Steel	Shop Notes
Twist drill bits*							
1/16" - 3/16"	3000	3000	2500	3000	3000	3000	Lubricate drill with oil when cutting steel 1/8" or thicker. Use center punch on all holes to prevent drill from wandering.
1/4" - 3/8"	3000	1500	2000	1200	2500	1000	
7/16" - 5/8"	1500	750	1500	750	1500	600	
1 1/16" - 1"	750	500	NR	400	1000	350	
Black & Decker Bullet pilot-point bits*							
1/8" - 3/16"	3000	3000	3000	2000	1500	3000	Good all-around bit. These cut more quickly than brad points and twist drills.
1/4" - 3/8"	3000	3000	2400	1500	1000	2000	
1/2"	3000	1500	1600	1500	750	1200	
Brad-point bits*							
1/8"	1800	1200	1500	NR	NR	NR	Raise 1/4" and smaller bits often to clear shavings and prevent heat build-up.
1/4"	1800	1000	1500	NR	NR	NR	
3/8"	1800	750	1500	NR	NR	NR	
1/2"	1800	750	1000	NR	NR	NR	
5/8"	1800	500	750	NR	NR	NR	
3/4"	1400	250	750	NR	NR	NR	
7/8"	1200	250	500	NR	NR	NR	
1"	1000	250	250	NR	NR	NR	
Forstner bits							
1/4" - 3/8"	2400	700	NR	NR	NR	NR	Raise 1/4"-3/8" bits often to clear shavings and prevent heat build-up. Make several shallow passes with larger bits; allow bit to cool between passes.
1/2" - 5/8"	2400	500	250	NR	NR	NR	
3/4" - 1"	1500	500	250	NR	NR	NR	
1 1/8" - 1 1/4"	1000	250	250	NR	NR	NR	
1 3/8" - 2"	500	250	NR	NR	NR	NR	
Glass-and-tile bits (Listed speeds are for glass and tile—not softwood.)							
1/8"	750	N	N	N	N	N	Wear safety goggles. Use drill press only. Do not apply excessive pressure. Lubricate with water while drilling. Reduce quill pressure when bit tip emerges from back side.
3/16"	600	R	R	R	R	R	
1/4"	500	NR	NR	NR	NR	NR	
5/16"	400	NR	NR	NR	NR	NR	
3/8"	350	NR	NR	NR	NR	NR	
1/2"	200	NR	NR	NR	NR	NR	
Hole saws*							
1" - 1 1/2"	500	350	NR	250	250	NR	Do not use with brass or aluminum thicker than 1/16". Avoid dense hardwoods such as hard maple.
1 5/8" - 2"	500	250	NR	150	250	NR	
2 1/8" - 2 1/2"	250-500	NR	NR	150	250	NR	
Multi spur bits*							
2 1/8" - 4"	250	250	NR	NR	NR	NR	Smaller sizes also available; use Forstner speeds.
Spade bits*							
1/4" - 1/2"	2000	1500	NR	NR	NR	NR	Clamp work to table to improve quality of hole.
5/8" - 1"	1750	1500	NR	NR	NR	NR	
1 1/8" - 1 1/2"	1500	1000	NR	NR	NR	NR	
Spade bits with spurs							
3/8" - 1"	2000	1800	500	NR	NR	NR	Best bit for acrylic. Clamp work securely.
Stanley Powerbore bits*							
3/8" - 1/2"	1800	500	NR	NR	NR	NR	Ideal for deep holes and end-grain drilling.
3/4" - 1"	1800	750	NR	NR	NR	NR	

Frequently Asked Questions

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Part #'s, Specs & Operation Manuals

<p>Central Machinery 43389 17" 16-Speed Floor Drill Press</p> <ul style="list-style-type: none">- Horsepower (hp) 1- Number of speeds 16- Spindle Speed 200, 290, 350, 430, 500, 580, 640, 720, 800, 870, 1440, 1630, 2380, 2540, and 3630 RPM- Spindle Taper MT2- Table tilt (deg) 45° left and right- Product Height 64 in.- Product Length 17 in.- Stroke length (in.) 3-1/8 in.	<p>Central_Machinery_43389_Manual.pdf</p>
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