

Stanley Powerbore bit

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 " 1/ ₄ " - 3/ ₈ " 7/ ₁₆ " - 5/ ₈ " 11/ ₁₆ " - 1"	3000 3000 1500 750	3000 1500 750 500	2500 2000 1500 NR	3000 1200 750 400	3000 2500 1500 1000	3000 1000 600 350	Lubricate drill with oil when cutting ½" or thicker. Use center punch on all holes to pr drill from wandering.				
Black & Decker B	Bullet pilot-p	ooint bits*			•	•					
1/8" - 3/16" 1/4" - 3/8" 1/2"	3000 3000 3000	3000 3000 1500	3000 2400 1600	2000 1500 1500	1500 1000 750	3000 2000 1200	Good all-around bit. These cut more quickly than brad p and twist drills.				
Brad-point bits*	•	•			'	•					
1/8" 1/4" 3/8" 1/2" 5/8" 3/4" 3/8"	1800 1800 1800 1800 1800 1400 1200 1000	1200 1000 750 750 500 250 250 250	1500 1500 1500 1000 750 750 500 250	NR NR NR NR NR NR	NR NR NR NR NR NR NR	NR NR NR NR NR NR NR	Raise 1/4" and smaller bits often to c shavings and prevent heat build-up				
Forstner bits											
1/4" - 3/8" 1/2" - 5/8" 3/4" - 1" 11/8" - 11/4" 13/8" - 2"	2400 2400 1500 1000 500	700 500 500 250 250	NR 250 250 250 NR	NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	Raise 1/4-3/s" bits often to clear shav and prevent heat build-up. Make several shallow passes with labits; allow bit to cool between pass				
Glass-and-tile bi	ts (Listed s	peeds are for gl	ass and t	ile—not s	softwood.)						
	750	I N	N	NI	I NI	LNI					

1/8"	750	N	N	N	N
3/16"	600	R	R	R	N R
1/4"	500	NR	NR	NR	NR
5/16"	400	NR	NR	NR	NR
3/8"	350	NR	NR	NR	NR
-70	000				

350 200 NR NR NR NR NR 1/2" Hole saws* Do not use with brass or aluminum 350 250 250 250 250 NR 1" - 11/2" 500 NR 250 thicker than 1/16". 15/8" - 2" 500 150 Avoid dense hardwoods such as hard

NR NR NR NR 21/8" - 21/2" 250-500 NR 150 maple.

Spade bits*

3/8" - 1"

3/8" - 1/2"

3/4" - 1"

Multi spur bits*

21/8" - 4"

250

2000

250

1500

1500

1000

NR

NR

NR

NR

R

NR

NR

NR

Smaller sizes also available; use Forstner speeds.

Wear safety goggles. Use drill press

Lubricate with water while drilling.

Reduce quill pressure when bit tip

emerges from back side.

only. Do not apply excessive pressure.

1/4" - 1/2" 5/8" - 1" 11/8" - 11/2"

1750 1500 Spade bits with spurs

NR NR

NR

NR NR NR

NR

NR NR NR

NR NR NR

Clamp work to table to improve quality of hole.

2000

1800

500 750

500

NR

NR

NR

NR

NR

Best bit for acrylic. Clamp work securely.

Stanley Powerbore bits*

1800 1800

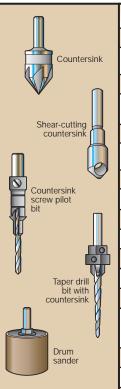
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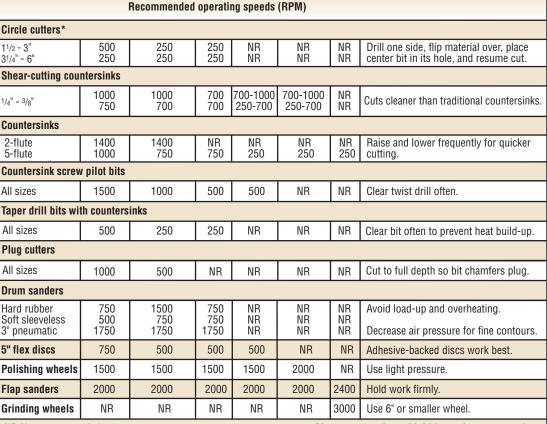
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Ideal for deep holes and end-grain drilling.





NR Not recommended *Back material to prevent chip-out.

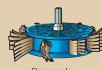
Always wear a face shield for optimum protection.

Votes

- Recommendations are based on visual and tactile tests under shop conditions.
 Drilling faster than recommended can cause overheating. Speeds slower than those recommended may cause poorquality holes.
- All testing done on face grain. Reduce speed when drilling into end grain.
- Speeds based on new bits from the factory.



Plug cutter







Polishing wheel



Flex disc sander



Grinding wheel