

Drill Bit Speed Chart

Safety First

1. Wear eye protection.
2. Run drill at correct cutting speed
3. Use a vise or clamp for small material.
4. Remove chips with a brush, never by hand.
5. Ease up on pressure as bit breaks through material.
6. Don't drill with too much pressure, if the bit is dull sharpen or replace it.
7. If drill binds, shut off machine, turn chuck backwards by hand to free bit.
8. When drilling deep holes withdraw drill to clear chips frequently.
9. Remove drill chuck key immediately after using.

Tips

To prevent wood splintering when the bit exits clamp a piece of scrap material to the back of it.

If possible stop drilling just as the point of the bit comes through the material, then finish drilling the hole from the other side.

When using a geared chuck, tighten the bit in the first hole then move around to the next two holes and tighten as well to prevent bit from slipping.

Diameter Twist	Softwood Speed RPM	Hardwood Speed RPM
1/16 - 3/16	3000	3000
1/4 - 3/8	3000	1500
7/16 - 5/8	1500	750
1 1/16 - 1	750	500
Brad Point		
1/8	1800	1200
1/4	1800	1000
1/2	1500	750
5/8	1500	500
3/4	1200	250
7/8	1200	250
1	1000	250
Forstner		
1/4 - 3/8	2400	700
1/2 - 5/8	2000	500
3/4 - 1	1500	500
1 1/8 - 1 1/4	1000	250
1 3/8 - 2	500	250
Spade		
1/4 - 1/2	2000	1500
5/8 - 1	1800	1500
1 1/8 - 1 1/2	1500	1000
1 5/8 - 2	1200	700

Use a center punch for best results.

Use for holes with flat bottom.

Raise bit periodically to clear shavings

Clamp work to drill table for best results.

"If it doesn't feel good, don't do it."