

## Drill Bit Speed - **Hardwood & Softwood**

| Diameter (in)    | Speed (rpm)     |                       |         |       |          |       |
|------------------|-----------------|-----------------------|---------|-------|----------|-------|
|                  | Softwood (Pine) | Hardwood (Hard Maple) | Acrylic | Brass | Aluminum | Steel |
| Twist drill bits |                 |                       |         |       |          |       |
| 1/16 - 3/16      | 3000            | 3000                  | 2500    | 3000  | 3000     | 3000  |
| 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                   | -       | 400   | 1000     | 350   |
| Brad-point bits  |                 |                       |         |       |          |       |
| 1/8              | 1800            | 1200                  | 1500    | -     | -        | -     |
| 1/4              | 1800            | 1000                  | 1500    | -     | -        | -     |
| 3/8              | 1800            | 750                   | 1500    | -     | -        | -     |
| 1/2              | 1800            | 750                   | 1000    | -     | -        | -     |
| 5/8              | 1800            | 500                   | 750     | -     | -        | -     |
| 3/4              | 1400            | 250                   | 750     | -     | -        | -     |
| 7/8              | 1200            | 250                   | 500     | -     | -        | -     |
| 1                | 1000            | 250                   | 250     | -     | -        | -     |
| Forstner bits    |                 |                       |         |       |          |       |
| 1/4 - 3/8        | 2400            | 700                   | -       | -     | -        | -     |
| 1/2 - 5/8        | 2400            | 500                   | 250     | -     | -        | -     |
| 3/4 - 1          | 1500            | 500                   | 250     | -     | -        | -     |
| 1 1/8 - 1 1/4    | 1000            | 250                   | 250     | -     | -        | -     |
| 1 3/8 - 2        | 500             | 250                   | -       | -     | -        | -     |
| Spade bits       |                 |                       |         |       |          |       |
| 1/4 - 1/2        | 2000            | 1500                  | -       | -     | -        | -     |
| 5/8 - 1          | 1750            | 1500                  | -       | -     | -        | -     |
| 1 1/8 - 1 1/2    | 1500            | 1000                  | -       | -     | -        | -     |
| 1 5/8 - 2        | 1200            | 700                   | -       | -     | -        | -     |