

Router bit speed chart

Maximum speed by bit diameter and maker speed examples.



Maximum recommended router speed by bit diameter (IGM router bit safety sheet)

Bit diameter	Maximum rpm
2-25 mm (about 1/16-1 in)	24,000
25-50 mm (about 1-2 in)	18,000
50-75 mm (about 2-3 in)	16,000
75-90 mm (about 3-3-1/2 in)	12,000

Single manufacturer chart. The maximum rpm etched on the bit or printed in its documentation always takes priority. Inch values are conversions.

Manufacturer-rated speeds for individual Whiteside router bits, by cutting diameter

Bit (Whiteside part)	Shank	Large/cutting diameter	Recommended rpm	Max rpm
Carbide straight SC01	1/4 in	1/16 in (1.6 mm)	18,000-20,000	24,000
Straight bit 1074	1/2 in	17/32 in (13.5 mm)	16,000-18,000	24,000
Flush trim 2415	1/2 in	7/8 in (22.2 mm)	14,000-16,000	18,000
Cove & bead 3212	1/2 in	1-5/16 in (33.3 mm)	14,000-16,000	18,000
120 deg V-groove 1566	1/2 in	1-1/2 in (38.1 mm)	14,000-16,000	18,000
Roman ogee 2210	1/2 in	2 in (50.8 mm)	10,000-12,000	12,000
45 deg chamfer 2310	1/2 in	2-5/8 in (66.7 mm)	10,000-12,000	12,000
Raised panel with back cutter 5920B	1/2 in	3-1/4 in (82.6 mm)	10,000-12,000	12,000
Roundover 2016 (1-1/2 in radius)	1/2 in	3-3/4 in (95.3 mm)	10,000-12,000	12,000

Per-bit ratings from Whiteside product pages; other bits of the same diameter may carry different ratings.

Sources: IGM Tools & Machinery; Whiteside Machine Co.. Checked 22 October 2026. Always confirm against your tool and accessory manuals. Free to share under CC BY 4.0 with credit to AccessoryFit (accessoryfit.com/printables/).