

Maximum Blade Cutting Depths

Blade	Diameter	Cutting Depth
Concrete Saw Blades		
	12"	3 5/8"
	14"	4 5/8"
	16"	5 5/8"
	18"	6 5/8"
	20"	7 5/8"
	24"	9 5/8"
	26"	10 5/8"
	30"	11 3/4"
	36"	14 3/4"
	42"	17 3/4"
	48"	19 3/4"
High Speed Saw Blades		
	12"	4"
	14"	5"
Wall Saw Blades		
	18"	6 1/2"
	24"	9 1/2"
	30"	11 1/2"
	36"	14 1/2"
	42"	17 3/4"
	48"	20 3/4"
Masonry Saw Blades		
	14"	5"
	18"	7"
	20"	8"
Tile Saw Blades		
	6"	1 3/4"
	7"	2 1/4"
	8"	2 3/4"
	9"	3 1/4"
	10"	3 3/4"
Hand Saw Blades		
	4"	1"
	4 1/2"	1 1/4"
	5"	1 1/2"
	7"	2 1/2"
	8"	3"

Note: Diamond blade cutting depths listed above are approximate. Actual cutting depth will vary with the exact blade diameter or saw type, or diameter of the blade collars (flanges).

Wet Cutting-Water Cooled

Wet cutting diamond blades MUST be used with water to prevent excessive heat build-up during cutting. Using water on the blade also reduces dust and helps remove cuttings. A continuous water flow is critical. Using "wet" blades without water, even for a few seconds, causes excessive heat and blade damage, and creates a safety hazard. Always check the blade and saw to ensure the safety of using water.

Diameter	Recommended Operating Speed (RPM)*	Maximum Safe Speed (RPM)**
4"	9,072	15,000
4 1/2"	8,063	13,300
5"	7,257	12,000
6"	6,048	10,185
7"	5,184	8,730
8"	4,536	7,640
9"	4,032	6,790
10"	3,629	6,115
12"	3,024	5,095
12" HS (High-Speed)	-	6,300
14"	2,592	4,365
14" HS (High-Speed)	-	5,400
16"	2,268	3,820
18"	2,016	3,395
20"	1,814	3,055
24"	1,512	2,550
26"	1,396	2,350
28"	1,296	2,185
30"	1,210	2,040
32"	1,134	1,910
36"	1,008	1,700
42"	864	1,455
48"	756	1,275

*Based on 9,500 SFPM (Surface Feet Per Minute) the general optimum performance range for cutting concrete and masonry products is +/- 10%. For hard, dense materials such as stone and tile, the optimum performance speed is 10-25% less than the speeds shown above.

**This speed (RPM) represents the maximum safe speed at which each blade can be used. Before using any blade, make sure the blade shaft (arbor) speed of the tools is within the "maximum safe" limit of that blade.

Blade shaft speeds (RPMs at no load) for most tools will be higher than the recommended operating shown above. Under normal sawing conditions, the actual blade shaft speed or the tool will slow down under load, and should fall within the optimum speed range.

Dry Cutting-Air/Water Cooled

Dry cutting diamond blades may be used dry, eliminating the need for water tanks, hoses or wet slurry clean-up. These blades depend on airflow around the blade to prevent excessive heat build-up. Use dry cutting blades for intermittent sawing. Allow the blade to cool every 10 to 15 seconds by backing off the pressure and allowing it to run up to speed for a few seconds. Use ONLY for shallow, step cutting (1-2" deep).