



HERTFORDSHIRE DIAMOND PRODUCTS

Recommended RPM and Peripheral Speeds for Blades and Core Drills



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Wall Saws

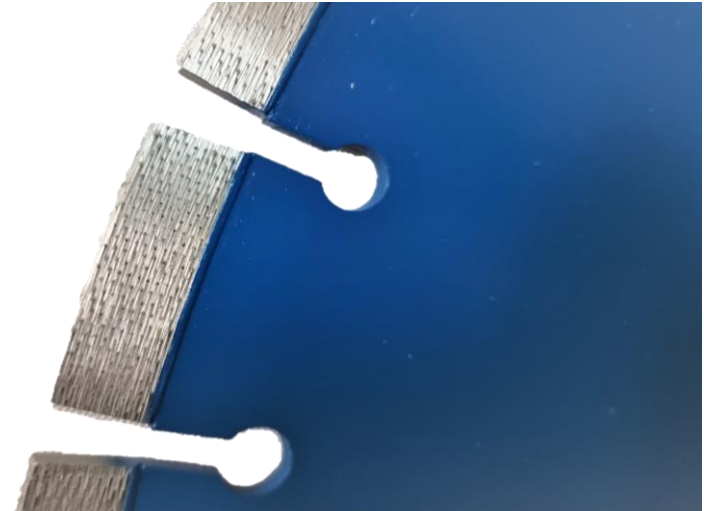
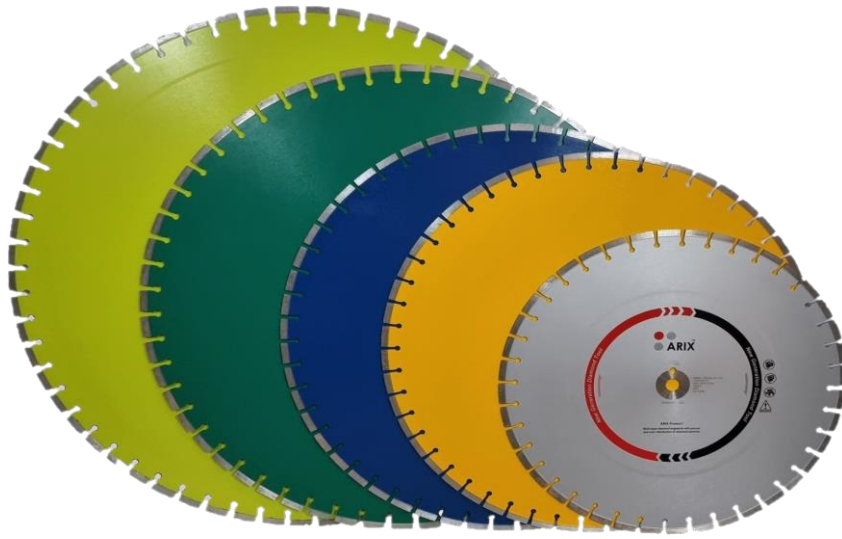
Diameter (mm / M)	POWER	Cutting depth	RPM	Peripheral Speed [m/min]	Peripheral Speed
~600mm	4Kw [5Hp]	~230 mm	1560	2940 m/min	50 m/sec
~900mm	7.5Kw [10Hp]	~400 mm	1400	3950 m/min	65 m/sec
700mm - 1.2M	19Kw [25Hp]	~550 mm	760	2860 m/min	48 m/sec
1M - 1.6M	25Kw [33Hp]	~740 mm	630	3160 m/min	53 m/sec

Hand Saws

PRODUCT	Diameter [mm]	POWER	Cutting depth	RPM	Peripheral Speed
STANDARD	300mm - 400mm	4.8 - 7.8 Hp	100 - 150 mm	4300 - 5400	80 - 100 M/sec
	100mm - 230mm	Angle grinders		5600 - 10,400	
RING SAW	360mm	5.8 - 6.1Hp	~260 mm	4800	80 M/sec

Floor Saws

Diameter	Recommended Operating Speed (RPM)	Maximum Safe Speed (RPM)	Diameter	Recommended Operating Speed (RPM)	Maximum Safe Speed (RPM)
300mm	3,024	5,095	650mm	1,396	2,350
350mm	2,592	4,365	700mm	1,296	2,185
400mm	2,268	3,820	750mm	1,120	2,040
450mm	2,016	3,395	800mm	1,134	1,910
500mm	1,814	3,055	900mm	1,008	1,700
550mm	1,649	2,780	1000mm	864	1,455
600mm	1,512	2,550	1200mm	756	1,275



Core Drills



Diameter (mm)	Concrete	Reinforced	Coolant (Litre / Min)
	(Peripheral Speed: 2-3m/s)	(Peripheral Speed: 1.2- 1.8m/s)	
20	1900 - 2900	1150 - 1700	0.5 - 1
30	1300 - 1900	750 - 1150	
40	950 - 1450	570 - 860	1 - 2
52	750 - 1100	440 - 660	
62	620 - 950	370 - 550	2 - 3
72	550 - 800	320 - 480	
82	475 - 700	280 - 420	
107	360 - 550	220 - 340	3 - 4
122	320 - 780	190 - 280	
142	270 - 400	160 - 240	
162	240 - 350	140 - 210	
182	210 - 320	120 - 190	4 - 5
212	180 - 270	110 - 160	
250	150 - 230	100 - 140	
300	130 - 190	80 - 120	6 - 8
400	100 - 140	60 - 90	
500	70 - 120	45 - 70	8 - 12

