



HERTFORDSHIRE DIAMOND PRODUCTS

Variables that affect Diamond cutting performance



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Variable	Condition	Cutting Speed	Segment Life
Bond hardness	Harder	Slower	Longer
	Softer	Faster	Shorter
Material Hardness	Harder	Slower	Longer
	Softer	Faster	Shorter
Diamond Quality	Lower	Slower	Shorter
	Higher	Faster	Longer
Diamond Concentration	Lower	Faster	Shorter
	Higher	Slower	Longer
Horsepower	Lower	Slower	Longer
	Higher	Faster	Shorter
Blade RPM	Lower	Faster	Shorter
	Higher	Slower	Longer
Water Flow	Lower	Faster	Shorter
	Higher	Slower	Longer
Aggregate Size	Larger	Slower	Shorter
	Smaller	Faster	Longer
Cutting Depth	Shallow	Faster	Longer
	Deep	Slower	Shorter
Steel Reinforcement	Less	Faster	Longer
	More	Slower	Shorter
Diamond Grit Size	Coarser	Faster	Longer
	Finer	Slower	Shorter