

## NOT ALL ROCK FORMATIONS ARE CREATED EQUAL

DIFFERENT ROCK FORMATIONS = DIFFERENT PDC CUTTER SELECTION = **\$ POTENTIAL SAVINGS \$**

*We give YOU the PDC option*

**THE RIGHT FIT – FOR THE RIGHT BIT™**









**Water Well ♦ Geothermal ♦ Mining ♦ Petroleum Drill Bits**

**Contact us for more information regarding our different grades of PDC cutters**

**♦ Specialists in Diamond Products ♦**

**PDC CUTTERS ♦ TSP DIAMOND INSERTS ♦ SYNTHETIC DIAMOND GRIT/POWDER ♦ DIAMOND BURRS**

**STINGRAY PDC CUTTER ROCK FORMATION RECOMMENDATIONS**

ROCK TYPE	ROCK	MPA HARDNESS	WATER WELL	MINING, GEOTHERMAL, GAGE	STANDARD PETROLEUM	PREMIUM PETROLEUM
			SR-S	SR-Z	SR-3	SR-4
Soft low abrasive formations	Marl	50-100				
	Loam, peat, lignite					
	Ammonite platte					
	Tone					
Soft and abrasive formations	Lim, gypsum, Tuff	70-120				
	Porous sandstone					
	Sandy shale					
	Soft sandstone					
Medium- hard, slightly abrasive formations	Soft andesite	100-140				
	Slate					
	Travertine					
	Serpentine					
	Marble					
Medium-hard abrasive formations	Dolomitic limestone	120-150				
	Medium-hard limestone					
	Medium-hard sandstone					
	Medium-hard gneiss					
Hard, not abrasive formations	Concrete/reinforced concrete	150-200				
	Granodiorite					
	Dolomite					
	Basalt					
Hard and abrasive formations	Hard limestone	150-220				
	Gabbro					
	Altered granite					
	Syenite					
	Trachyte					
	Hard Gneiss					
	Slate					
	Diorite					
Porphyry						
Mica Slate						
Dense sandstone						