

# Bit Selection Guide

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Formation & Rock Type Bit-Matrix	Chert, Jasperite, Glassy Quarts, Rhyolite, Fine Grain, Very Hard	Quartzite, Gneiss, Hard Diorite, Granite, Granite Skarns, Solid, Low Abrasion	Quartz, Pegmatite, Granite Skarns, Medium to Fine Grain	Basalt, Diorite, Diabase, Gabbro, Medium to Fine Grain, solid to Fractured	Dolomite, Weathered Granite, Peridotite, Abrasive, Medium Grain	Conglomerates, Hard Shales, Limestone, Sandstone, Coarse, Abrasive	Shale, Soft Limestone, Sandstone, Coarse, Abrasive	Shale, Sandstone, Mudstone, Abrasive, Muddy
<b>P1</b>	Non-Abrasive							
<b>B2</b>	Low Abrasion		Non-Abrasive					
<b>R3</b>	Non-Abrasive		Low Abrasion	Medium Abrasion				
<b>Y4</b>	Medium Abrasion		Low Abrasion	Non-Abrasive				
<b>G5</b>	High Abrasion		Medium Abrasion	Low Abrasion				
<b>O6</b>	High Abrasion		Medium Abrasion	Low Abrasion				
<b>W7</b>	Medium Abrasion		Low Abrasion					
<b>Geoset PCD</b>					Low Abrasion			
<b>Surface Set</b>							30-40 SPC Multi-step crown	5-8 SPC Semi-round
<b>Rock Hardness</b>	<b>Hard</b> → <b>Soft</b>							