



Key Features

- Steel crown with embedded tungsten-carbide grit (2–6 mm)
- Optimised for low-speed rotation and light weight-on-bit
- High wear resistance in soft to medium formations
- Lower cost per metre compared to diamond-impregnated bits

This cutting element is decisive in the execution of drilling. Carbotec bits feature a steel crown impregnated with crushed tungsten carbide particles (2–6 mm), providing a dense, multi-edge cutting surface. Designed for use at low RPM and moderate feed pressure, they deliver consistent penetration in unconsolidated to moderately consolidated formations.

Carbotec bits have more cutting points than a normal T.C. bit and its way of working is very similar to a diamond bit. Its drilling speed is higher than the speed of a prism T.C. bit and they produce less vibrations on the drill string.

Applications

- Coring in soft to medium-hard sedimentary rocks (e.g., limestone, shale, sandstone)
- Overburden and weathered rock drilling
- Geotechnical investigation and mineral exploration in low-abrasion conditions

Rock Description	Hardness	
Clay Chalk Gypsum	Soft	✓ ✓ ✓
Sand Shale Salt Hard Shale Ice Med. Hard Limestone	Soft to Medium	✓ ✓ ✓ ✓ ✓ ✓ ✓
Sandy Shale Shale Claystone Sandy Limestone	Medium Hard Non-Abrasive	✓ ✓ ✓ ✓
Siltstone Alluvial Dep. Calcitic Hard Shale	Hard Abrasive	✓ ✓ ✓

- **Contact us for more information regarding products** -

