

GeoVolve TERRABIT

Percussion-Enhanced PDC Drill Bit



GeoVolve TERRABIT is a super-premium PDC drill bit, tailored to be powered by the GeoVolve HYPERDRIVE percussion-enhanced drilling system.

GeoVolve HYPERDRIVE and TERRABIT define an advanced drilling system offering unrivalled Rate of Penetration (ROP) and bit durability in hard, ductile, interbedded or high compressive strength rock.

Applications

- Geothermal drilling in basement, volcanic or other high compressive strength rock
- O&G drilling in hard, ductile, conglomerate or interbedded rock environments
- ERD or complex wells with weight transfer issues

Operating Principle

GeoVolve TERRABIT uses the controlled percussive impulse from the GeoVolve HYPERDRIVE to enhance drilling performance to pre-fracture the rock ahead of the drill bit to radically improve ROP and bit life.

The GeoVolve TERRABIT is tough and durable and is built to perfectly transmit the impulse from the GeoVolve HYPERDRIVE into the rock through its fully loaded cutting structure and bit profile.

With optimised hydraulics for highly effective cuttings evacuation, GeoVolve TERRABIT defines the ultimate in hard rock drilling technology.

Key Features

- Percussion-enhanced PDC drill bit from HydroVolve
- Designed to wield the power of the GeoVolve HYPERDRIVE
- Fails and removes rock efficiently
- Tailored cutting structure and bit profile
- Percussion-specific cutter grade and shape
- Optimised hydraulics for cuttings evacuation
- Enhanced ROP
- Extended durability
- Longer intervals drilled – less tripping
- Drilling dynamics optimised
- ERD capability enhanced
- Reduces high frequency torsional oscillation (HFTO)

Technical Features

