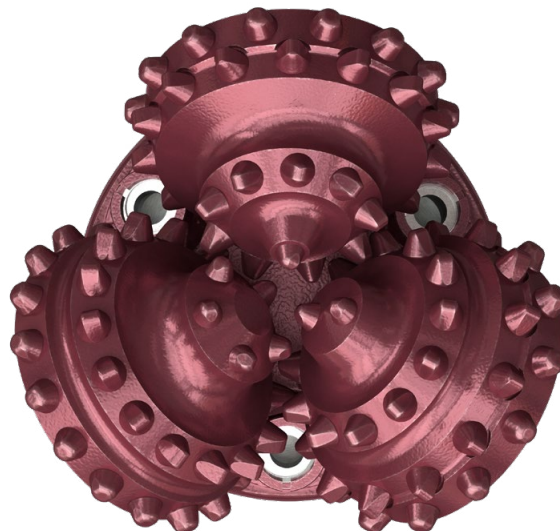


Roller cone bit

7 7/8" 200,0.512



Application.

The bit is designed for drilling of soft abrasive rock formations, e.g. rhyolite, dacite, andesite, soft limestone, conglomerate of sedimentary rocks, coarse-grained mineralized marble, quartzeous shale, phosphorite with phosphate and carbonate cement, overburden of coal seams, also found in shale mines.

Recommended drilling parameters for maximum efficiency of the bit: low and medium rotation speed (60-115 RPM) and axial load from 30 to 140 kN.

Rock strength range - 3 000-6 500 PSI.



Specification

Bearing support type	Open rolling bearing support with air blow-through
Bearing/cooling type	Roller - Ball - Roller / Air cooling
Shirrtail protection	2/3 Shirrtail protection with TCIs and wear-resistant hardmetal surfacing
Blow-through type	Side (center) air blow-through
IADC code	512X
Connection thread	4 1/2 REG
Nozzle diameter, mm	16 (installed) + spare nozzles 14, 18
Bit weight, kg	Net - 26,4 / Gross - 28,9 kg
Cutting structure	Tungsten carbide inserts
Inner and nose TCIs	Chisel (71 TCIs)
Gauge row TCIs	Chisel blunted (44 TCIs)
Gauge bevel TCIs	Flat (44 TCIs)