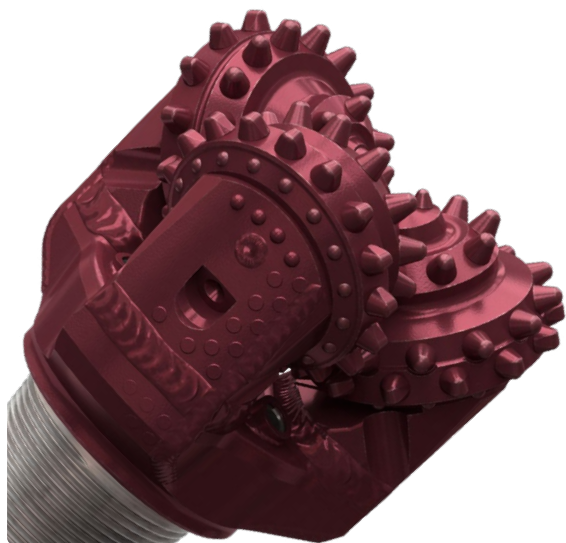


Roller cone bit

9 5/8" 244,5.422



Application.

The bit is designed for drilling of soft abrasive rock formations, e.g. chalk, marl, dolomite, marlous limestone and sandstone with aired out cement, volcanic tuff, medium and hard coal, aleurolite and apatite-nepheline ore, coarse-grained marble, quartzeous and micaceous shale, phosphorite and conglomerate of sedimentary rocks, 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 80 to 190 kN.

Rock strength range - from 2 000 to 6 000 PSI.



Specification

Bearing support type	Open rolling bearing support with air blow-through
Bearing/cooling type	Roller - Ball - Roller / Air cooling
Shirttail protection	2/3 Shirttail protection with TCIs and wear-resistant hardmetal surfacing
Blow-through type	Side (center) air blow-through
IADC code	422X
Connection thread	4 1/2 FH
Nozzle diameter, mm	16(installed)+ spare nozzles 18
Bit weight, kg	Net - 42,0 / Gross - 45,5 kg
Cutting structure	Tungsten carbide inserts
Inner and nose TCIs	Conical (64 TCIs)
Gauge row TCIs	Chisel (45 TCIs)
Gauge bevel TCIs	Spherical (45 TCIs)