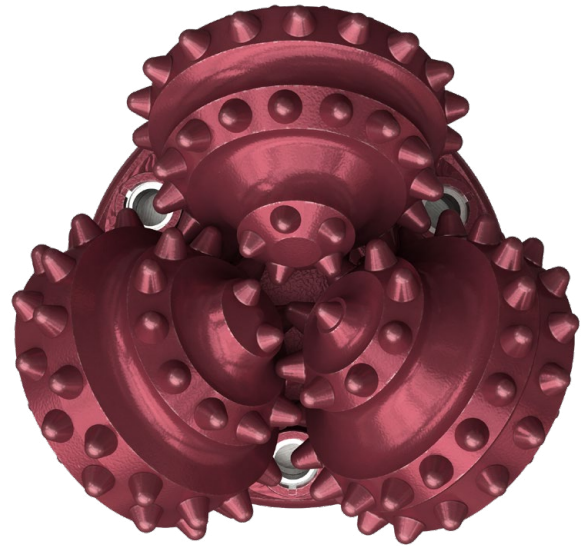


Roller cone bit

9 11/64" 233,0.542



Application.

The bit is designed for drilling of soft and medium-soft abrasive rock formations, e.g. limestone, copper porphyry, conglomerate of sedimentary rocks, coarse-grained mineralized marble, quartzeous shale, phosphorite with phosphate and carbonate cement, volcanic overburden, basalt lava, kimberlite, most frequently found in coal, shale and copper mines.

Recommended drilling parameters for maximum efficiency of the bit: low and medium rotation speed (60-115 RPM) and axial load from 60 to 170 kN.

Rock strength range - 6 000-24 000 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	542Y
Connection thread	4 ½ REG
Nozzle diameter, mm	16(installed)+ spare nozzles 18
Bit weight, kg	Net - 40,1 / Gross - 43,4 kg
Cutting structure	Tungsten carbide inserts
Inner and nose TCIs	Conical (73 TCIs)
Gauge row TCIs	Conical (47 TCIs)
Gauge bevel TCIs	Spherical (47 TCIs)