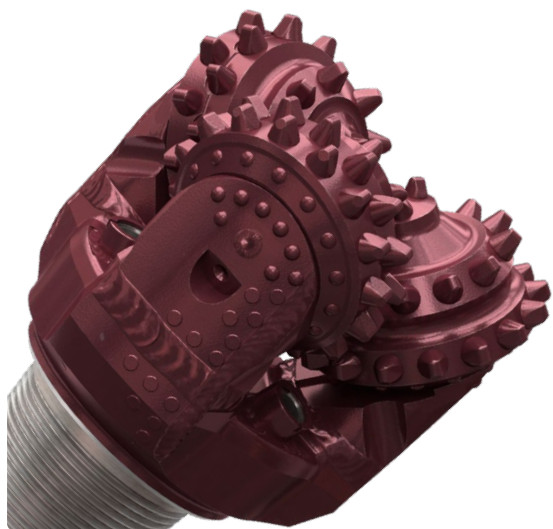


# Roller cone bit

## 9" 228,6.432



### 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 50 to 160 kN.

Rock strength range - 2 000 - 6 000 PSI.



### Specification

<b>Bearing support type</b>	Open rolling bearing support with air blow-through
<b>Bearing/cooling type</b>	Roller - Ball - Roller / Air cooling
<b>Shirrtail protection</b>	2/3 Shirrtail protection with TCIs and wear-resistant hardmetal surfacing
<b>Blow-through type</b>	Side (center) air blow-through
<b>IADC code</b>	432X
<b>Connection thread</b>	4 ½ REG
<b>Nozzle diameter, mm</b>	16 (installed) + spare nozzles 14, 18
<b>Bit weight, kg</b>	Net - 40,1 / Gross - 43,4 kg
<b>Cutting structure</b>	Tungsten carbide inserts
<b>Inner and nose TCIs</b>	Chisel (71 TCIs)
<b>Gauge row TCIs</b>	Chisel (43 TCIs)
<b>Gauge bevel TCIs</b>	Spherical (43 TCIs)