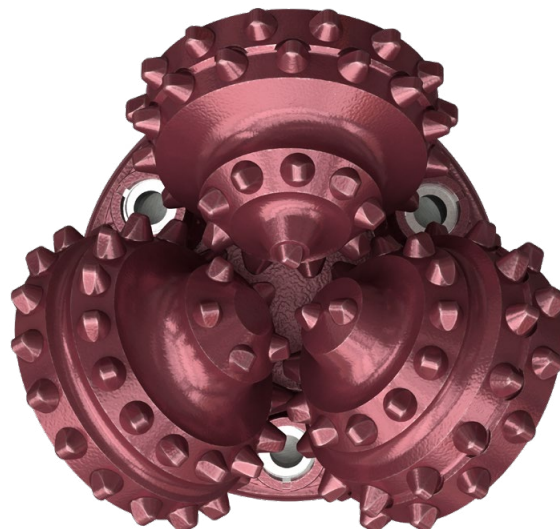
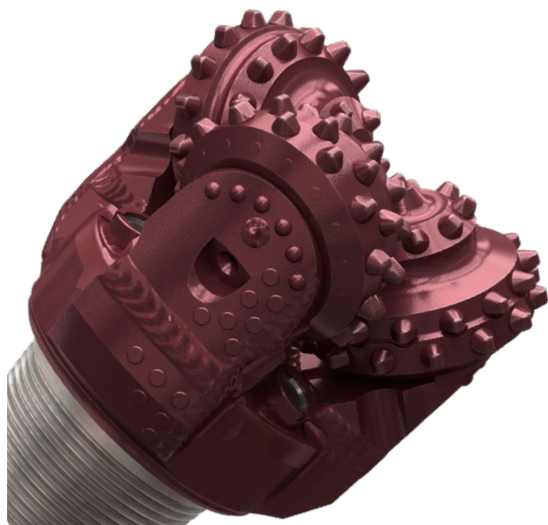


# Roller cone bit

## 7 7/8" 200,0.542



### Application.

The bit is designed for drilling of 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 30 to 140 kN.

Rock strength range - from 6 000 to 24 000 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>	542X
<b>Connection thread</b>	4 1/2 REG
<b>Nozzle diameter, mm</b>	16 (installed) + spare nozzles 14, 18
<b>Bit weight, kg</b>	Net - 26,4 / Gross - 28,9 kg
<b>Cutting structure</b>	Tungsten carbide inserts
<b>Inner and nose TCIs</b>	Chisel (71 TCIs)
<b>Gauge row TCIs</b>	Chisel (44 TCIs)
<b>Gauge bevel TCIs</b>	Flat (44 TCIs)