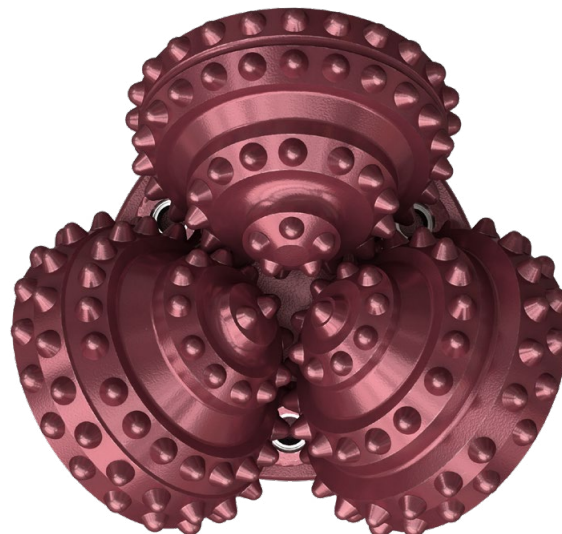
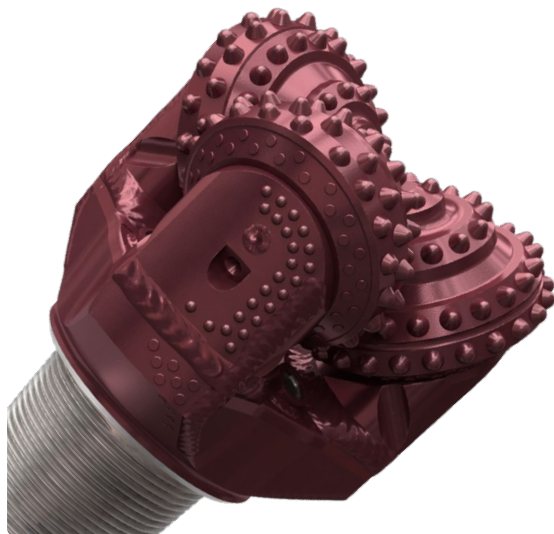


# Roller cone bit

## 12 ¼" 311,1.642



### Application.

The bit is designed for drilling of medium-hard and hard abrasive rock formations, e.g. quartzeous sandstone with lime cement, magnesite, ferrous quartzite, diorite, quartzeous porphyry, silicized shale, fine-grained skarn, weak pegmatite, martite ore and metamorphic granite rocks, fine-grained diorite and diabase, most frequently found in gold and copper mines.

Recommended drilling parameters for maximum efficiency of the bit: low and medium rotation speed (60-115 RPM) and axial load from 140 to 250 kN.

Rock strength range - 24 000-44 000 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>Shirttail protection</b>	2/3 Shirttail protection with TCIs and wear-resistant hardmetal surfacing
<b>Blow-through type</b>	Side (center) air blow-through
<b>IADC code</b>	642Y
<b>Connection thread</b>	6 ⅝ REG
<b>Nozzle diameter, mm</b>	22 (installed)+ spare nozzles 20,25
<b>Bit weight, kg</b>	Net - 89,7 / Gross - 94,2 kg
<b>Cutting structure</b>	Tungsten carbide inserts
<b>Inner and nose TCIs</b>	Conical (140 TCIs)
<b>Gauge row TCIs</b>	Spheroconical (61 TCIs)
<b>Gauge bevel TCIs</b>	Flat (122 TCIs)