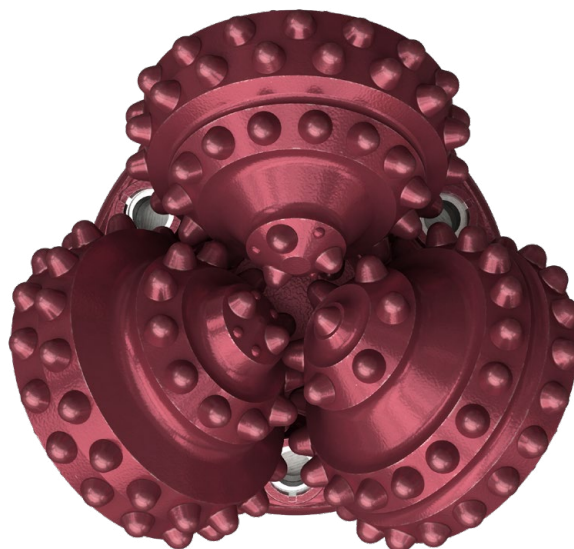


# Roller cone bit

## 9" 228,6.642



### 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 80 to 190 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>    | 4 ½ REG   |
| <b>Nozzle diameter, mm</b>  | 16(installed)+ spare nozzles 18   |
| <b>Bit weight, kg</b>       | Net - 40,9 / Gross - 44,2 kg  |
| <b>Cutting structure</b>    | Tungsten carbide inserts  |
| <b>Inner and nose TCIs</b>  | Conical (88 TCIs)   |
| <b>Gauge row TCIs</b>       | Conical (53 TCIs)   |
| <b>Gauge bevel TCIs</b>     | Spherical (53 TCIs)   |

