

ROLLER CONE TECHNOLOGY



PREMIUM SERIES ROLLER CONES

Our Roller Cones series offers a full suite of customizable roller cone bits, providing versatility and durability in all drilling operations. The series includes tungsten carbide insert (TCI) and milled tooth bits, in a range of bearing options, and blast hole bits to ensure the right bit for any application.

Premium Bearing Bit

- Perfected critical components provide optimum fit and finish for extended operations, even with higher RPM and WOB.
- Bearings designed and machined for reliability and consistency.
- Seal system for optimal compression on the O-ring.
- Special formulated lubricant for extreme pressures extends the bearing life.

TCI and Milled Tooth Bits

- Available in all IADC codes
- Balanced load distribution and floating bushings for improved durability at extended, high RPMs.
- Crowned, premium bearings reduces edge loading
- Journal bearings fitted with silver-plated, floating bushings, minimizes frictional heating
- Suitable for a wide range of applications
- Available in sizes 3-3/4" to 17-1/2"



PREMIUM ENGINEERING AND DESIGN

TCI tooth cones developed in different geometries based upon application and placement on the cutting structure.

Silver plated copper alloy floating bushing on Premium Series reduces wear by slowing rotation between bearing surfaces.

Sealing element utilizes abrasion resistant low compression set HNBR elastomer extending bearing life.

Cone and leg bearing surfaces heat treated and precision machined, matched in Premium Series to produce fit and finish for high RPM and WOB applications.

Leg and Shirttail armored with TCI inserts and hard facing to withstand abrasive wear against borehole contact.

