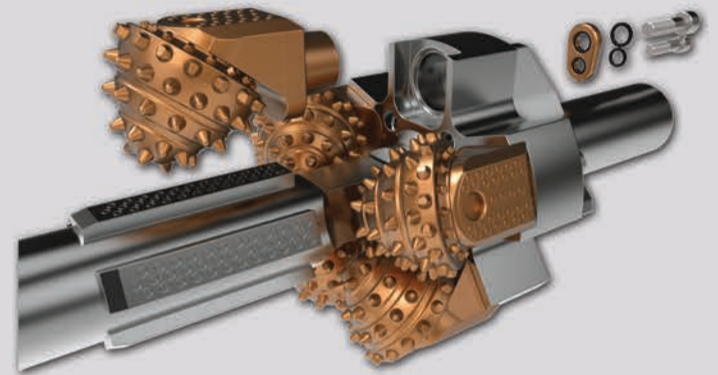


### CENTURY FALCON FR REPLACEABLE ASSEMBLY DESIGNS

Century's Falcon FR Series Hole Openers feature Field Replaceable Assemblies that come in 12.5" and 17" cone sizes with three cutting structures incorporating TCI Conical and Chisel profiles as well as Milled Tooth.

#### Mechanical Bolted Design

Featuring a Mechanical Bolted Design, the Falcon FR requires no welding to easily interchange Arm & Cone Assemblies – right on the jobsite.



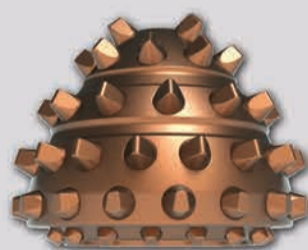
#### Century Bearing Advantages

- **HSN O-Ring Seals** – For the high energy required, Century has designed and utilizes the largest seal in the industry. HSN Material utilized for wear, heat compression and chemical resistance properties.
- **Premium Crowned Roller Bearings** – Gives the bearing the capability to withstand the extreme high loads.
- **Premium Silver-Plated Floating Thrust Bearing** – Allows for reduced frictional heat build-up to ensure lower operational temperatures under high-energy operations. This design facilitates the longer bit life Century's reputation has been built around.
- **Gage Row Protection** – Double the number of carbide inserts that actively cut the gage diameter and assist in maintaining tight tolerances and extending in-gage bit life.
- **Shirttail/Leg Protection** – Hard Facing along with carbide inserts blanket the shirttail and leg providing superior wear resistance.

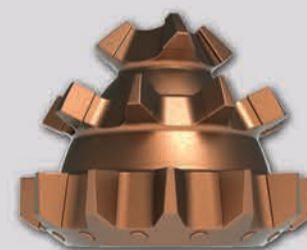
#### Falcon FR Cone Profiles



C27 Conical



C27 Chisel

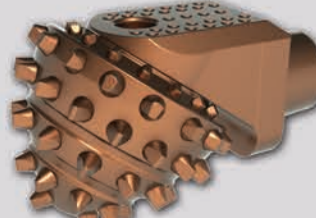


Milled Tooth

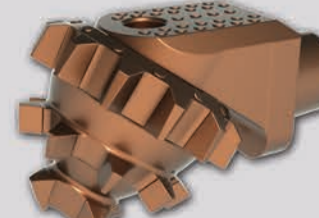
#### Falcon FR Bolted Arm & Cone Assemblies



12.5" C27 Conical



17" C27 Chisel



17" Milled Tooth

*Patent Pending*