

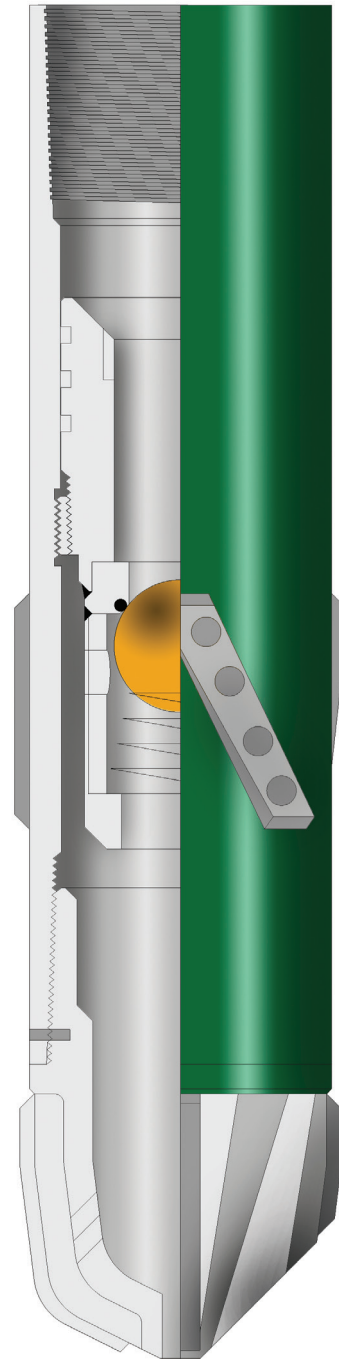


**CHANCELLOR**  
A TEAM OIL TOOLS COMPANY

# CEMENTED LINER ASSEMBLIES

## MODEL CRS REAMER SHOE

- > The Chancellor Reamer Shoe is designed to get liner or casing to TD despite problems with compromising hole conditions such as tight hole, bridges, swelling shale, ledges, high deviations, or fill.
- > The Reamer Shoe can be circulated, reciprocated, and rotated for effective results.
- > The nose is machined from solid bronze and is designed with a unique tapered mule shoe profile for negotiating all obstacles. The nose is locked in with set screws and thread lock to ensure integrity when reaming or drilling out.
- > Tungsten Carbide Matrix is applied to the Reamer Shoe nose in a radial pattern to create an efficient cutting structure. This pattern includes a total of four cutter surfaces. This anti aggressive pattern is designed to easily follow the existing hole and eliminate stalling and minimize torque build up. The cutter surface area is large enough to last through long severe jobs.
- > Down facing circulating jets (5) are spaced in between the cutter surfaces to assist in cutting removal and keep the cutter surfaces from loading up. The radial jet spacing is asymmetrical to maximize turbulence. The powerful downward direction of the jets minimizes side jetting that can lead to washouts.
- > All internals are PDC drillable.
- > Ideally combined with rotating liner hangers and related equipment to get liner to bottom when circulating and reciprocating are not enough.
- > An internal spring loaded float valve is included as standard.
- > The Reamer Shoe body is machined from 4140 allow steel.
- > Right hand stabilizer blades are machined integral to the body and offer low torque, excellent centralization, and large bypass.
- > Casing or liner connection are high torque bottom shouldered API Buttress. Torque rings are typically used in the casing string.



MODEL CRS REAMER SHOE  
WITH FLOAT VALVE