



Improve the probability of casings and liners reaching TD when rotation cannot be applied. The **NaviREAM** is a casing reamer shoe that features an eccentric profiled nose. When inserted into the tool, the relative rotational motion from reciprocation can be used to orientate the nose over or past obstructions. Rides over ledges or orients to path of least resistance. Installs simply. Easy to use. Requires no operator.

### Features

- Available in most standard casing/liner versus open-hole combinations
- Drill out ID matches casing being run
- Flow by areas have been maximized for circulation and cementation
- Strength to suit casing specifications
- Supplied with customer specified casing connections
- Continuous ratchet with higher strength than connection

### Applications

- Lower sand screen completions
- Liners (cemented or un-cemented)
- Floated casings
- All casing strings
- Slotted or pre-perforated liners
- Gravel pack installations
- TTRD completions
- Multi-lateral completions
- Casing exits

### Customer Benefits

- Increases probability of casings, liners and other open hole deployed systems reaching planned TD
- Provides end of string rotation where the full string cannot be rotated
- Rides over ledges or orients to path of least resistance
- Provides improvement in operational efficiency
- Low cost Insurance
- Fast drill out - tool has no components to drill out other than the eccentric aluminium nose, therefore reducing drilling inside casing time, thus protecting BHA
- Simple to install and use, no operator required

