



Kelly-Drive Cementing Head

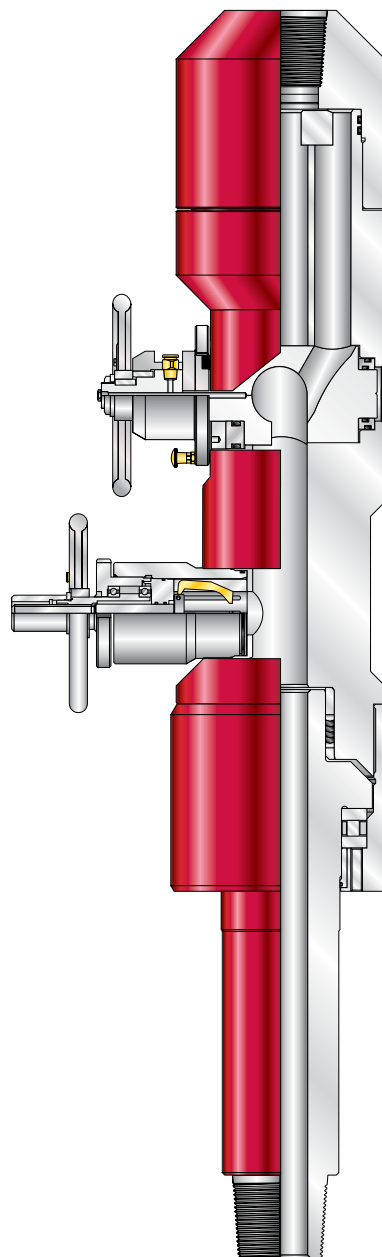
Weatherford's kelly-drive cementing head (KDH) is a rotary-drive cementing head that allows the release of setting balls and drillpipe darts without breaking connections. The KDH is compact and can be easily transported to remote land rigs. The KDH is preloaded with the setting ball, drillpipe dart, or full-length wiper plug. The well can be circulated through the KDH with the use of a cement unit and with the dart and setting ball loaded. The ball and dart can be released by clearly identified wheels on the KDH.

Applications

- Running a liner on rotary-drive rigs
- Launching darts and balls related to Sub-Surface Release™ plug systems on rotary-drive rigs

Features, Advantages and Benefits

- The KDH does not feature a side manifold, making the design very compact.
- The integral swivel facilitates rotation of the drillstring during cementing operations, resulting in a better cement bond.
- The KDH allows circulation through the cement line, even when fully loaded. This advantage saves rig time when the cementing head is in use.
- High tensile and pressure ratings enable the KDH to withstand the physical challenges associated with cementing a liner.



Kelly-Drive Cementing Head

Specifications

| | |
|---------------------------------------|------------------------------------|
| Part number | 00904167 |
| Connections (in.) | 4 1/2-in. IF LH box × pin |
| Static load rating (lb/tonne) | 526,000 234 |
| Dynamic load rating (lb/tonne) | 152,000 68 |
| Operating pressure (psi/MPa) | 7,500 51.7 |
| Maximum rotating speed (rpm) | 40 |
| Minimum operating temperature (°F/°C) | −4° −20° |
| Main bore ID (in./mm) | 2.980 75.700 |
| Bypass channel ID (in./mm) | 1.957 49.700 |
| Dropping ball size OD (in./mm) | 1.250 to 2.250 31.750 to 57.150 |
| Dart chamber length (in./mm) | 38 96.520 |

Options

- The KDH can be fitted with an indicator (or flag) sub for confirmation that the drillpipe dart is successfully released.