



DPI RODS

Heavy Duty Drill Rods

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Specifications

CHD Drill Rod was designed for deep hole wire line applications, with its strong tool joints, and flexible mid body, it excels in directional drilling applications.

- Welded tool joints of specially heat treated steel with very high mechanical resistance
- Superior welding process and weld inspection to ensure optimum concentricity
- Mid body of annealed cold-drawn, seamless steel tubing

- Straightness and Hoop Stress controlled tubing
- Specific thread design for deep hole drilling with very high resistance as to torque and as to extension
- Can be supplied fitted with RCS inserts

The 73mm MCHD drill rod was developed specifically for challenging deep applications, offering over 150% increase in torque strength.

Dimensional Details

| Part Number | Description | Weight kg (lbs) | Length mm (inch) | I.D. Coupling mm (inch) | O.D. Coupling / Mid Body mm (inch) | I.D. Mid-body mm (inch) | Thread Length mm (inch) |
|---------------|----------------|--------------------|---------------------|----------------------------|--|----------------------------|----------------------------|
| VLD-10-30-006 | 70 CHD x 3000 | 24.5 (54.0) | 3000.0 (118.11) | 54.76 (2.156) | 69.85 (2.750) | 60.33 (2.375) | 51 (2.0) |
| 70180032V | 73 MCHD x 3000 | 26.4 (58.3) | 3000.0 (118.11) | 54.76 (2.156) | 73.03 (2.875) | 63.50 (2.500) | 51 (2.0) |

Mechanical Details

| Part Number | Description | Pre-torque Nm (ft.lbs) | Maximum Working Torque Nm (ft.lbs) | Maximum Working Pulling force kN (lbs) | Burst Pressure On The Box Thread Mpa (psi) | Burst Pressure On The Body Mpa (psi) | Collapse Pressure On The Body Mpa (psi) |
|---------------|----------------|---------------------------|---|--|--|--|--|
| VLD-10-30-006 | 70 CHD x 3000 | 1500 (1106) | 2430 (1792) | 315 (70,800) | 70.3 (10,200) | 82.7 (12,000) | 78.6 (11,400) |
| 70180032V | 73 MCHD x 3000 | 2474 (1825) | 4084 (3012) | 400 (89,900) | 73.8 (10,700) | 80.7 (11,700) | 75.2 (10,900) |

Note: Rod failure loads were determined by an independent party. These values include safety factors and are based on the use of new, unused rods, in compliance with drill rod care & handling drilling practices.

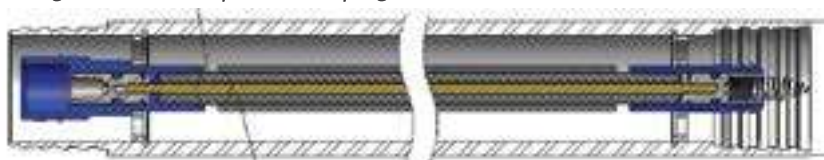
NQ, NRQ, CHD & MCHD Compared

| Rod Type | Weight | Torque | Tensile Strength |
|----------|---------|---------|---------------------|
| NQ | 23.4 kg | 750 Nm | 147 kN |
| NRQ | 23.4 kg | 2400 Nm | 330 kN |
| CHD | 24.5 kg | 2430 Nm | 315 kN |
| MCHD | 26.4 kg | 4080 Nm | 400 kN |

Note: Rod failure loads were determined by an independent party. These values include safety factors and are based on the use of new, unused rods, in compliance with drill rod care & handling drilling practices. Competitors products values are based on published data.

Rod Communication System (RCS)

The need for better drilling management and efficiency in the directional drilling community paved the way for RCS. Using the RCS in DPI rods allows the driller to receive real time survey data to not only directionally drill but also to provide sampling data of the formation being drilled. This improves drilling time and penetration rates by negating the waiting periods for gathering conventional survey data. Each rod added to the drill string automatically increases the wireline length and is ready for surveying.



| Common Sizing / Availability Chart | 5ft | 10ft | 1.5m | 3m |
|------------------------------------|-----|------|------|----|
| N Size | X | X | | X |
| CHD | | X | X | X |
| MCHD | | | X | |