

LDT MudLub Motor Assembly

Motor Specification Sheet

➤ Market Challenge

- Reliable performance to handle today's high torque motors in challenging applications.
- High temperatures, abrasive solids, and oil-based muds, which can be problematic for elastomer seals

➤ LDT Motors

- LDT MudLub Motor is a mud lubricated bearing assembly provides a step-change increase in torque capacity
- LDT MudLub Motor is well suited for hot hole applications and invasive drilling fluids

➤ Product Advantages

- Bearings are lubricated by drilling fluid – no lubricating oil reservoir required
- No elastomeric seals used in bearing assembly, so no temperature or mud compatibility issues
- "Twin Torque Nut" design greatly increases torque capacity of bearing mandrel pin connection

➤ Value To The Customer

- Simplicity of service
- Motor fleet flexibility, LDT MudLub Motor rated for conventional and high performance motors
- Improved reliability with rugged design and minimized wear components

Technical Specifications

Size (in)	Flow Range (GPM)	Speed Range (RPM)	Max Diff Pressure (psi)	Max Torque (ft.lbs)	Max Stall Pressure (psi)	Max Stall Torque (ft.lbs)
4.75	100-300	100-646	3,056	7,000	4,889	11,000
5.00	100-350	100-1150	3,056	9,500	6,640	11,000
6.75	300-600	228-457	1,495	19,000	4,110	52,000
8.00	300-900	77-231	1,495	30,000	3,450	78,000
9.63	600-1200	287-574	1,214	40,000	1,943	108,000
11.25	1000-1800	117-175	533	45,000	852	89,000

*Note: These values do not account for dynamic effects downhole

SERVICES AVAILABLE

Technical Support

Servicing

Repair & Maintenance

Application Support

Contact us

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LDT Sealed Motor Assembly



➤ LDT Motors Applications

- Aggressive PDC drilling
- Roller cone drilling with high WOB
- High temperature applications
- Invasive drilling fluids (e.g. OBM)
- Abrasive drilling fluids
- Motor run above Rotary Steerable System
- Vertical drilling
- Horizontal drilling
- Performance drilling

➤ Features and Benefits

- All components are compatible with all available Power Sections in the market allowing maximum torque to be applied to the bit
- No elastomeric seals in bearing assembly
- Well suited for hot hole and aggressive drilling fluid applications
- **Wide Range of Availability**
 - Sizes available from 5" to 11.1/4"
 - Higher weight-on-bit (WOB) capacity
 - Proven motor bearing design
 - Superior performance for aggressive drilling applications and conditions
 - Threaded bearing housing allows near-bit stabilizer operation with slick, straight or spiral stabilizer

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**Ask us about our Oil Sealed Motor options*