



### *CTD® Motor with ForceFlex™ Technology*

The Weatherford *CTD* positive displacement motor (PDM) is engineered to ensure reliable delivery of the optimal horsepower to the bit. Weatherford's proprietary power section is specifically designed to address the concerns of thru-tubing operations. The power section converts hydraulic energy of the drilling fluid to the mechanical horsepower necessary to rotate a bit. Using Weatherford's *ForceFlex* Technology elastomer, the high-torque power section minimizes stalls and allows the operator to focus on other aspects of the operation. The *CTD* motor is dynamometer-tested and delivered with a chart of its characteristics.

Weatherford's PDMs are among the most powerful and reliable in the industry.

### *Applications*

- Heavy-duty milling
- Coiled-tubing drilling
- Tubing cutting
- Underreaming
- Plug removal

### *Features, Advantages and Benefits*

- Rugged design, with fully sealed and pressure-balanced bearing assembly, provides unparalleled longevity, reducing the need for costly replacements.
- Unique high-torque power sections minimize stalls, saving time and allowing the operator to focus on other aspects of the operation.
- Unique design of the *CTD* motor enhances performance in demanding environments, preventing costly fishing operations.
- Elevated weight-on-bit ratings effectively manage the higher loads experienced in heavy-duty milling and drilling applications, enhancing safety and reducing costs.
- Unique elastomer compound delivers improved compatibility with multiphase fluids, providing long life and improved performance.





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### *Features, Advantages and Benefits*

- Built-in safety mechanisms minimize risk of leaving fish in a well, reducing fish-replacement costs.
- High-performance power output maximizes penetration rates, reducing rig time.

### *Specifications*

#### Performance

OD (in./mm)	Maximum Torque Output (ft-lb/N•m)	Maximum Bit Pressure Drop (psi/MPa)	Minimum Flow Rate (GPM/LPM)	Maximum Flow Rate (GPM/LPM)	Speed Range (RPM)	Maximum Weight on Bit (lb/kg)	Maximum Temperature (°F/°C)	Maximum Overpull (lb/kg)
2-7/8 73.025	1,448 1,963	2,000 13.79	60 227.12	120 454.25	220 to 460	18,240 8,274	300 149	34,000 15,422
3-1/2 88.900	2,625 3,558	2,000 13.79	80 302.83	160 605.67	190 to 400	26,000 11,793	300 149	50,000 22,680

#### Equipment

OD (in./mm)	Overall Length (ft/m)	Configuration	Stages	Weight (lb/kg)	Standard Thread Connections	Makeup Torque		Bit Size Range (in./mm)
						Top Connection (ft-lb/N•m)	Bottom Connection (ft-lb/N•m)	
2-7/8 73.025	10.5 3.21	7:8	3.6	168 76.20	2 3/8-in. PAC	2,693 3,651		3-1/4 to 4-3/4 82.55 to 120.65
3-1/2 88.900	11.8 3.59	7:8	5.0	250 113.39	2 3/8-in. API Reg	2,908 3,943		3-7/8 to 5-1/4 98.43 to 133.35