

DRILLTECH™ PDM

FEATURES

- Pumped Fluid Lubricated Bearing Pack
- High Strength Forged Alloy Steel Output Shaft
- Through hardened thrust bearing races
- Carbide clad upper and lower radial bearings
- Super Strong jaw clutch drive couplings
- Field Proven power Sections
- Crossover sub (top sub)

OPTIONAL FEATURES

- Float Bored top subs
- Flex shaft drive coupling for straight motor applications
- Rotor catch
- Flow bypass rotor nozzle

ADDITIONAL INFORMATION

- Common sizes are shown, other sizes available on request.
- Tools are manufactured from mild steel as standard.
- Other tool joints also available.

WellEnTech DrillTech™ PDM's (Positive Displacement Motors) are designed with the primary focus on reliability and simplicity in design. This results in an extremely tough and versatile PDM, which offers the performance necessary for a variety of drilling applications. It also makes the DrillTech™ PDM one of the easiest to build, maintain and repair. All motor components are engineered with detail in mind and manufactured to exacting standards with only the highest quality materials. DrillTech™ PDM's are available in sizes ranging from 1 11/16" to 3-1/2" diameters. DrillTech™ PDM's are lubricated with the pumped fluid which means that a portion of the drilling fluid flows through the bearing stack to cool and lubricate the bearings. A "sleeve on sleeve" upper radial bearing provides support and controls the flow of fluid through the bearing stack.

The DrillTech™ PDM bearing pack features multiple tiers of super hardened thrust bearing races. This along with rock bit ball bearings, provide the endurance necessary for long grueling motor runs. A lower mandrel catch is standard in all motor sizes. This catch prevents the bit from being lost in the hole, in the event of a mandrel shaft failure. The DrillTech™ PDM uses a patented transmission coupling, which is the industry standard for flexible torque transmission in downhole motors. It has a long history of downhole use and has proven itself to be reliable and economical.

Our high performance power sections are designed to not only meet, but exceed your requirements. The elastomers are selected for stability and resistance to swell in the most common drilling fluids.

TECHNICAL SPECIFICATION

Motor Size	1-11/16	2-1/8	2-7/8	3-1/8
Rec. Hole Size (In)	1-13/16" – 3"	2-5/8" – 3-1/4"	3-1/2" – 4-3/4"	4-3/4" – 5-7/8"
Std. Bit Box Connection	1"AMMT	1-1/2"AMMT	2-3/8"PAC	2-7/8"PAC
Std. Top Box Connection	1"AMMT	1-1/2"AMMT	2-3/8"PAC	2-7/8"PAC
Max. WOB Operating (lbs)	5,600	9,700	10,400	14,000
Max. Continuous WOB (lbs)	2,800	4,850	5,200	7,000
Max. Bit Pull (lbs)	30,000	39,000	70,000	130,000
Max. Body Pull (lbs)	45,500	90,000	165,000	190,000
Flow Rate (GPM)	25-55	20-50	50-125	100-175
Speed (RPM)	280-610	260-640	140-340	230-390
Lobe configuration	5/6	5/6	7/8	5/6
No. of Stages	4.4	6	3	3.5
Operational Torque (ft.lbs)	280	320	770	1,070
Approx. length	8ft	10ft	13ft	15ft
Part No.	290-1688-A001	290-2125-A001	290-2875-A001	290-3125-A001

