

MM4 | Oil Sealed Bearing Drilling Motor

The MM4 oil-sealed bearing mud motor utilizes a special rotary shaft seal designed specifically for drilling motor use that isolates the drilling fluid from the oil lubricated bearing at all times. The bearing assembly is designed to ensure reliable load transfers from the BHA to the bit. Cougar's motors are built to handle all drilling conditions from corrosive muds to high temperatures.

SPECIFICATIONS

Metric

OD (mm)	Lobes	Stages	Length (m)	Distance to Stab (mm)	Bit to Bend (mm)	Weight (kg)	Speed Ratio (rev/L)	Max Flow (L/m)	Max Torque (N-m)
79	7/8	3.0	4.95	N/A	1,118	130	0.450	530	880
95	4/5	3.5	5.82	N/A	1,118	193	0.410	610	1,300
95	7/8	2.3	5.82	N/A	1,118	194	0.203	610	1,510
121	4/5	3.5	5.99	457	1,575	371	0.270	950	1,970
121	5/6	3.4 ERT*	8.02	457	1,575	489	0.134	1,140	6,150
121	5/6	8.3	9.42	457	1,575	635	0.378	1,140	4,063
121	7/8	2.0	7.85	457	1,575	465	0.116	950	2,970
121	7/8	2.2	6.22	457	1,575	536	0.138	530	2,120
121	7/8	2.6	8.79	457	1,575	528	0.070	1,140	4,750
121	7/8	3.8	8.02	457	1,575	489	0.138	950	4,020
121	7/8	4.5	9.09	457	1,575	528	0.122	1,140	4,750
121	7/8	5.0	8.31	457	1,575	590	0.170	1,040	4,040
165	4/5	4.8	7.72	559	1,930	1,029	0.130	2,270	4,406
165	4/5	7.0	7.72	559	1,930	867	0.131	2,270	8,220
165	6/7	3.1 ERT*	7.06	559	1,930	854	0.098	2,460	6,545
165	6/7	5.0	8.89	559	1,930	946	0.077	2,270	8,450
165	7/8	2.9	9.40	559	1,930	1,107	0.045	1,890	8,680
165	7/8	3.0	6.98	559	1,930	832	0.075	2,270	8,393
165	7/8	5.0	8.63	559	1,930	1,048	0.076	2,270	9,460
165	7/8	5.7	10.41	559	1,930	1,055	0.064	2,270	12,400
171	4/5	4.8	7.72	559	1,930	1,029	0.130	2,270	4,406
171	4/5	7.0	7.72	559	1,930	864	0.131	2,270	12,330
171	5/6	5.3 ERT*	7.06	559	1,930	854	0.080	2,270	15,754
171	6/7	3.1 ERT*	7.06	559	1,930	854	0.098	2,460	6,545
171	6/7	5.0	8.89	559	1,930	946	0.077	2,270	8,450
171	7/8	2.9	9.40	559	1,930	1,107	0.045	1,890	8,680
171	7/8	3.0	6.98	559	1,930	832	0.075	2,270	5,670
171	7/8	5.0	8.63	559	1,930	1,048	0.076	2,270	14,190
171	7/8	5.7	10.41	559	1,930	1,055	0.064	2,270	12,400
203	4/5	5.3	8.38	711	2,210	1,297	0.067	3,410	12,030
203	5/6	3.3 ERT*	8.38	711	2,210	1,297	0.050	3,410	15,870
203	5/6	4.5 ERT*	8.38	711	2,210	1,297	0.050	3,410	21,831
203	7/8	3.4	8.38	711	2,210	1,297	0.044	3,410	19,390
244	5/6	5.0	10.21	711	2,337	2,433	0.036	4,542	21,850
244	6/7	5.0	9.60	711	2,337	2,433	0.034	4,542	20,650
244	7/8	3.9	11.68	711	2,337	2,858	0.018	4,542	30,500
298	5/6	4.6	10.31	577	2,416	3,701	0.024	6,810	29,560
298	5/6	7.2	10.56	577	2,416	3,764	0.035	4,542	43,510

- HR premium elastomer available
- Bend angles from 0 - 3 degrees, fixed or adjustable

*ERT is a trademark of NOV and it describes all even wall products for various manufacturers

MAX TEMPERATURE
 Standard Seals: 250°F / 121°C
 High Temp Seals: 405°F / 207°C
 Geo Seals: 405°F + / 207°C +

