



MOTORS

Gerotor Motors – Low Speed – High Torque



FEATURES:

- High-torque, low speed with gerotor
- Instantly reversible by reversing the flow
- Cross-over for many popular models in the market

- 2 Bolt Flange
- 1.0" keyed shaft
- 4 Bolt flange
- ½ NPTF ports

APPLICATIONS:

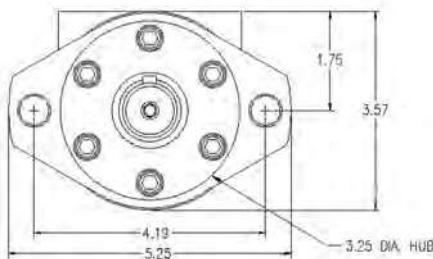
Use the CMM Series for light to medium duty applications such as grain augers and elevators, salt and sand spreaders, car wash and sweeper brushes, conveyors, winches, scissor lifts, and many others. To assure optimum motor life, run motor for approximately one hour at 30% of rated pressure before application of full load.

CMM MOTORS

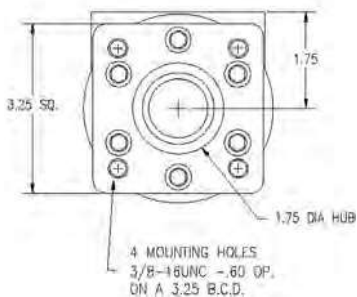
MODEL NUMBER	DISPLACEMENT IN ³ /REV	MAXIMUM PRESSURE PSI		MAXIMUM SPEED RPM		WT LBS.	LIST PRICE
		CONTINUOUS	INTERMITTENT	CONTINUOUS	INTERMITTENT		
†CMM100-2RP	6.1	1300	2000	600	750	13.4	Call
†CMM150-2RP	9.2	1200	1900	400	500	14.0	Call
CMM200-2RP	12.2	1200	1800	300	400	14.5	343.00
CMM400-2RP	24.4	900	1300	125	160	16.7	370.00
CMM50-4RP	3.0	1400	2200	800	1000	12.8	296.00
CMM100-4RP	6.1	1300	2000	600	750	13.4	323.00
CMM150-4RP	9.2	1200	1900	400	500	14.0	333.00
CMM200-4RP	12.2	1200	1800	300	400	14.5	343.00
CMM300-4RP	17.9	1000	1600	200	250	15.5	359.00
CMM400-4RP	24.4	900	1300	125	160	16.7	370.00

It is not recommended to operate at a condition requiring both maximum torque and speed. Intermittent operation is 10% of any minute. Normal operating temperature 80°F to 140°F, max temperature 185°F. Max inlet pressure 2500 psi for motors in series. Max back pressure 1000 psi. For use with mineral based hydraulic fluid 100-200 SUS @ operating PSI. Maximum axial thrust load on shaft 1000 lbs. Oil filtration 10 micron on fine, oil cleanliness per ISO code level 17/14.

2 BOLT FLANGE



4 BOLT FLANGE

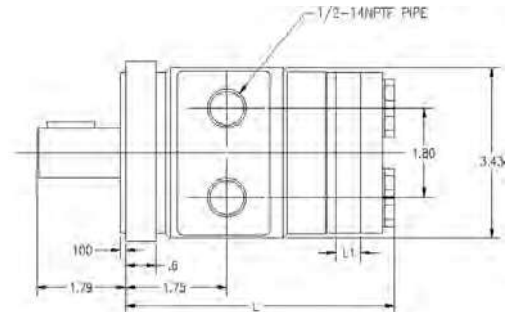


STANDARD 1" KEYED SHAFT

1.00 DIA. X 1/4 WIDE STD. WOODRUFF KEY

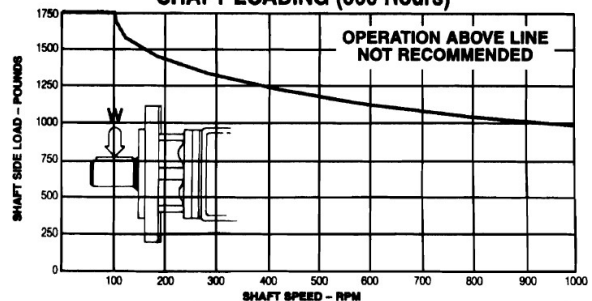
.9995 ±.0005 DIA.

1/4-20 UNC .63 OP



CMM	50	100	150	200	300	400
L	5.83	5.96	6.18	6.38	7.00	7.40
L1	.27	.51	.83	1.02	1.65	2.05

SHAFT LOADING (500 Hours)



† NON-STOCKED ITEMS AVAILABLE AT STANDARD LEAD-TIME.

CHECK OUR PRINCE WEBSITE OR CONTACT YOUR SALES REP TO VERIFY IF NON-STOCKED ITEMS ARE STILL ON HAND FOR IMMEDIATE SHIPMENT.



MOTORS

Gerotor Motor – Low Speed – High Torque

Performance Data

346 Bold number on top = TORQUE (in lbs.)
 280 Number on bottom – SPEED (RPM)

☐ GREATEST EFFICIENCY
 ■ HIGH EFFICIENCY

CMM 50		3.0 Cu. In. REV						Δ PSI	Peak
		200	400	600	800	1000	1200	1400	2250
2	G	69	139	209	279	349	419	489	787
		149	143	137	131	125	119	113	63
4	G	66	136	206	276	346	416	486	784
		304	298	292	286	280	274	268	218
6	P	62	132	202	272	342	412	482	780
		459	453	447	441	435	429	423	373
8	M	55	125	195	265	335	405	475	775
		614	608	602	596	590	584	578	529
10	M	47	117	187	257	327	397	467	768
		769	763	757	751	745	739	733	684
12	M	37	107	177	247	317	387	457	758
		924	918	912	906	900	894	888	839

CMM 200		12.15 Cu. In. REV				Δ PSI	Peak
		200	400	600	800		1650
2	G	283	563	843	1123		
		35	32	29	26		
4	G	273	553	833	1113		2305
		74	71	68	65		45
6	P	258	538	818	1098		2290
		112	109	106	103		83
8	M	237	517	797	1077		2269
		149	146	143	140		120
10	M	209	489	769	1049		2241
		187	184	181	178		158
12	M	180	460	640	920		2112
		225	223	220	217		197
14	M	136	416	696	976		2168
		264	261	258	255		235

CMM 100		6.07 Cu. In. REV					Δ PSI	Peak
		200	400	600	800	1000	1200	1950
2	G	144	292	440	588	736	884	1437
		72	68	64	60	56	52	30
4	G	138	286	434	582	730	878	1431
		147	143	139	135	131	127	105
6	P	130	278	426	574	722	870	1423
		222	219	216	213	210	207	185
8	M	119	267	415	563	711	859	1412
		300	297	294	291	288	285	263
10	M	104	252	400	548	696	844	1397
		375	372	369	366	363	360	368
12	M	85	233	381	529	677	825	1378
		452	449	446	443	440	437	415
14	M	64	212	360	508	656	804	1357
		528	525	522	519	516	513	491

CMM 300		17.9 Cu. In. REV				Δ PSI	Peak
		200	400	600	800		1350
2	G	426	856	1286	1716		
		23	21	18	16		
4	G	413	843	1273	1703		2890
		49	46	44	41		27
6	P	392	822	1252	1682		2865
		75	72	70	67		53
8	M	362	791	1222	1652		2830
		101	98	95	93		79
10	M	324	754	1184	1614		2785
		126	124	121	119		105
12	M	277	707	1137	1567		2735
		152	150	147	144		131
14	M	222	652	1082	1512		2680
		178	175	173	170		157

CMM 150		9.37 Cu. In. REV					Δ PSI	Peak
		200	400	600	800	1000	1200	1800
2	G	221	467	713	959	1205	1451	2193
		46	43	40	37	34	31	15
4	G	214	460	706	952	1198	1444	2186
		95	92	89	86	83	80	64
6	P	202	448	694	940	1186	1432	2174
		145	142	139	136	133	130	114
8	M	186	432	678	924	1170	1416	2158
		194	191	188	185	182	179	163
10	M	164	410	656	902	1148	1394	2136
		242	239	236	233	230	227	211
12	M	137	383	629	875	1121	1367	2109
		291	288	285	282	279	276	260
14	M	106	352	598	844	1090	1336	2078
		340	337	334	331	328	325	309

CMM 400		24.4 Cu. In. REV				Δ PSI	Peak
		200	400	600	800		1200
2	G	565	1136	1707	2279		
		16	14	12	10		
4	G	549	1120	1691	2262		3392
		36	33	31	29		20
6	P	520	1091	1663	2229		3371
		55	53	51	48		39
8	M	481	1053	1624	2195		3335
		74	73	70	68		59
10	M	430	1002	1573	2144		3274
		94	91	89	86		77
12	M	368	939	1511	2082		3213
		113	110	108	106		97
14	M	296	867	1438	2009		3147
		132	130	127	125		116

Δ PSI – is the actual pressure difference between the inlet and outlet ports.

A SITUATION OF SIMULTANEOUS PEAK TORQUE AND MAXIMUM RPM SHOULD NOT BE ALLOWED TO OCCUR.

Operating motors at both low RPM (10-20 depending on disp.) and low torque may result in RPM fluctuations during operation.

To calculate horsepower from chart data use formula:

$$HP (out) = \frac{RPM \times TORQUE (in-lbs.)}{63025}$$

MOTOR CROSS REFERENCE

	SHAFT	PORTS	MOTOR BRAND	DISPLACEMENT CU. IN./REV.				
				2.9	6.1	11.7	17.5	23.4
2 Bolt Flange Mounting	Woodruff Keyed	1/2" NPT	Prince Charlyn H Danfoss DH		CMM100-2RP 101-1027 151-2083	CMM200-2RP 101-1029 151-2086		CMM400-2RP 101-1032 151-2089
4 Bolt Flange Mounting	Woodruff Keyed	1/2" NPT	Prince Charlyn H Danfoss DH	CMM50-4RP 101-1001 151-2121	CMM100-4RP 101-1003 151-2123	CMM200-4RP 101-1005 151-2126	CMM300-4RP 101-1007 151-2128	CMM400-4RP 101-1008 151-2129

NOTE: THE CROSS REFERENCE INFORMATION IN THIS CHART IS TO BE USED ONLY AS A REFERENCE FOR GUIDELINE PURPOSES ONLY. AFTER SELECTING A MODEL FROM ABOVE, REVIEW THE MOTOR SPECIFICATIONS TO DETERMINE COMPATIBILITY WITH SPECIFIC APPLICATION.