



APPROXIMATE WEIGHTS:  
M1 = 25 Kg  
GM1 = 30 Kg

NOTE: SOME M TYPE MOTORS HAD 3  
EXTRA HOLES M12 DN 140 PCD  
FOR MOUNTING GEARBOX  
THESE ARE NOT AVAILABLE  
WITH THE GM1 MOTOR

REV	BY	DATE	DESCRIPTION or CHANGE NOTE No

TOLERANCES.  
UNLESS OTHERWISE STATED, MACHINING TOLERANCES ARE TO BE:  
PLUS/MINUS 0.125 mm



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DESCRIPTION **MAIN DIFFERENCES BETWEEN  
M1 and GM1 HYDRAULIC MOTOR**

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DRAWN	PJW	DATE	23/05/02	CLIENT	
CHECKED		DATE		CLIENT ORDER No	
APPROVED		DATE		MATERIAL	
SCALE	REDUCED CAD PLOT				

REF No		DRAWING No	GM1 AGAINST M1			
		SHEET No	1	ISSUE	1	
		OF	1			

### Motor Displacement Table

	<b>GM05</b> See Page 9	<b>60</b>	<b>75</b>	<b>110</b>	<b>130</b>	<b>150</b>	<b>170</b>	<b>200</b>			
	Displacement <i>in<sup>3</sup>/rev</i>	3.59	4.51	7.04	7.87	9.20	10.14	11.64			
	Peak pressure <i>psi</i>	6400	6000	5700	5500	5500	5000	5000			
	Max. speed <i>rpm</i>	1200	1200	1000	1000	1000	900	800			
	Peak power <i>HP</i>	50	50	50	50	50	50	50			
	<b>GM1</b> See Page 13	<b>100</b>	<b>150</b>	<b>175</b>	<b>200</b>	<b>250</b>	<b>300</b>	<b>320*</b>			
	Displacement <i>in<sup>3</sup>/rev</i>	6.04	9.40	10.50	12.27	14.83	17.70	19.16			
	Peak pressure <i>psi</i>	6400	6000	5700	5500	5500	5000	5000			
	Max. speed <i>rpm</i>	1200	1200	1200	1200	1000	900	900			
	Peak power <i>HP</i>	75	75	75	75	75	75	75			
	<b>GM2</b> See Page 17	<b>200</b>	<b>250</b>	<b>300</b>	<b>350</b>	<b>420</b>	<b>500</b>	<b>600</b>			
	Displacement <i>in<sup>3</sup>/rev</i>	11.72	15.32	18.55	21.18	25.94	30.08	34.47			
	Peak pressure <i>psi</i>	6400	6000	5700	5700	5500	5500	5000			
	Max. speed <i>rpm</i>	1000	1000	900	900	850	850	800			
	Peak power <i>HP</i>	95	95	95	95	95	95	95			
	<b>GM3</b> See Page 21	<b>350</b>	<b>425</b>	<b>500</b>	<b>600</b>	<b>700</b>	<b>800</b>	<b>900</b>	<b>1000</b>		
	Displacement <i>in<sup>3</sup>/rev</i>	21.48	26.00	29.66	36.31	42.12	48.33	53.27	60.23		
	Peak pressure <i>psi</i>	6400	6000	6000	5700	5500	5500	5000	5000		
	Max. speed <i>rpm</i>	800	750	700	675	625	600	550	500		
	Peak power <i>HP</i>	120	120	120	120	120	120	120	120		
	<b>GM3A</b> See Page 21	<b>350</b>	<b>425</b>	<b>500</b>	<b>600</b>	<b>700</b>	<b>800</b>				
	Displacement <i>in<sup>3</sup>/rev</i>	21.48	26.00	29.66	36.31	42.12	48.33				
	Peak pressure <i>psi</i>	6400	6000	6000	5700	5500	5500				
	Max. speed <i>rpm</i>	800	750	700	675	625	600				
	Peak power <i>HP</i>	120	120	120	120	120	120				
	<b>GM4</b> See Page 25	<b>400</b>	<b>500</b>	<b>600</b>	<b>800</b>	<b>900</b>	<b>1000</b>	<b>1100</b>	<b>1250*</b>	<b>1300*</b>	
	Displacement <i>in<sup>3</sup>/rev</i>	24.53	30.70	37.59	48.39	55.17	62.37	68.10	76.10	80.31	
	Peak pressure <i>psi</i>	6400	6400	6000	5700	5700	5500	5500	5000	5000	
	Max. speed <i>rpm</i>	700	650	625	550	500	450	425	400	375	
	Peak power <i>HP</i>	150	150	150	150	150	150	150	150	150	
	<b>GM5A</b> See Page 29	<b>525</b>	<b>650</b>	<b>800</b>	<b>1000</b>	<b>1200</b>	<b>1300</b>	<b>1450</b>	<b>1600</b>	<b>1800</b>	<b>2000</b>
	Displacement <i>in<sup>3</sup>/rev</i>	32.10	40.21	49.25	63.40	72.31	81.77	89.22	99.71	110.8	122.5
	Peak pressure <i>psi</i>	6400	6400	6000	6000	5700	5700	5500	5500	5000	5000
	Max. speed <i>rpm</i>	700	650	625	550	500	450	425	400	375	375
	Peak power <i>HP</i>	190	190	190	190	190	190	190	190	190	190
	<b>GM6</b> See Page 33	<b>1700</b>	<b>2100</b>	<b>2500</b>	<b>3000</b>						
	Displacement <i>in<sup>3</sup>/rev</i>	103.10	129.80	153.40	185.60						
	Peak pressure <i>psi</i>	6400	5700	5500	5000						
	Max. speed <i>rpm</i>	400	350	300	250						
	Peak power <i>HP</i>	270	270	270	270						
	<b>L7</b> See Page 37	<b>2000</b>	<b>2500</b>	<b>3000</b>	<b>3600</b>	<b>4300</b>					
	Displacement <i>in<sup>3</sup>/rev</i>	125.27	154.17	183.06	221.90	263.61					
	Peak pressure <i>psi</i>	6000	6000	6000	6000	6000					
	Max. speed <i>rpm</i>	280	260	220	200	170					
	Peak power <i>HP</i>	147	174	202	255	295					

\* See motor technical pages