

Gearbox Type:

LWS

Speed Range: 0.45 – 80 r.p.m.

Worm and Multi-Spur Reduction Gear Units
Variable Speed – D.C. Permanent Magnet
Enclosures: – PM 1 – PM 2 – PM 6 – Drip Proof Internal Fan Cooled (IP 21)
PM 10 – PM 11 – PM 3 – PM 4 – PM 5 – Totally Enclosed (IP 54)

■ **Voltage, Construction, Connections, Motor Performance Specifications and Optional Extras** see pages 72 and 74 for full details.

On request gearbox available without feet, unit can be mounted off of gearbox spigot tapping.

Note: 17mm diameter shaft available with gear ratio's 115:1, 56:1.



PM 10 LWS



PM 5 LWS

(1 Nm = 8.85 lbs. ins.) (1 Nm = 10.2 cmkp)

Gearbox Specification		PM 11 LWS	PM 1 LWS	PM 3 LWS	PM 2 LWS	PM 4 LWS	PM 6 LWS	PM 5 LWS
Motor Speed 1500 r.p.m.		Cont Motor Rating 33 watts	Cont Motor Rating 40 watts	1 Hour Motor Rating 40 watts	Cont Motor Rating 50 watts	1 Hour Motor Rating 50 watts	Cont Motor Rating 60 watts	1 Hour Motor Rating 60 watts
FINAL R.P.M.	RATIO		OUTPUT TORQUE (Nm)					
	WORM	SPUR						
0.45	30:1	115:1	100	100	100	100	100	100
0.8	16 1/2:1	115:1	100	100	100	100	100	100
1.5	8 1/3:1	115:1	100	100	100	100	100	100
1.8	7 1/4:1	115:1	100	100	100	100	100	100
2.2	12 1/2:1	56:1	82	100	100	100	100	100
2.6	10 1/3:1	56:1	70	84	100	100	100	100
2.9	9 1/3:1	56:1	63	76	95	100	100	100
3.2	8 1/3:1	56:1	59	72	90	100	100	100
3.7	7 1/4:1	56:1	53	64	80	96	96	96
4.3	6 1/4:1	56:1	48	58	73	87	87	87
4.5	13 1/2:1	25:1	39	47	59	62	62	62
6.5	9 1/3:1	25:1	28	34	42	42	51	51

Gearbox Specification		PM 10 LWS		PM 11 LWS		PM 3 LWS		PM 1 LWS		PM 4 LWS		PM 2 LWS		PM 5 LWS		PM 6 LWS	
Motor Speed 2000 r.p.m.		Cont Motor Rating 30 watts	1 Hour Motor Rating 40 watts	Cont Motor Rating 45 watts	1 Hour Motor Rating 55 watts	Cont Motor Rating 45 watts	1 Hour Motor Rating 60 watts	Cont Motor Rating 60 watts	1 Hour Motor Rating 90 watts	Cont Motor Rating 60 watts	1 Hour Motor Rating 80 watts	Cont Motor Rating 80 watts	1 Hour Motor Rating 120 watts	Cont Motor Rating 80 watts	1 Hour Motor Rating 100 watts	Cont Motor Rating 100 watts	1 Hour Motor Rating 150 watts
FINAL R.P.M.	RATIO		OUTPUT TORQUE (Nm)														
	WORM	SPUR															
0.6	30:1	115:1	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1	16 1/2:1	115:1	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2	8 1/3:1	115:1	78	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2.4	7 1/4:1	115:1	69	92	100	100	100	100	100	100	100	100	100	100	100	100	100
2.8	12 1/2:1	56:1	56	75	84	100	84	100	100	100	100	100	100	100	100	100	100
3.5	10 1/3:1	56:1	47	63	71	87	71	95	100	95	100	100	100	100	100	100	100
3.8	9 1/3:1	56:1	43	57	64	78	64	86	100	86	100	100	100	100	100	100	100
4.3	8 1/3:1	56:1	40	53	60	74	60	80	100	80	100	100	100	100	100	100	100
4.9	7 1/4:1	56:1	36	48	54	66	54	72	100	72	96	96	100	96	100	100	100
5.7	6 1/4:1	56:1	33	44	49	59	49	65	98	65	87	87	100	87	100	100	100
6	13 1/2:1	25:1	26	35	40	49	40	53	53	80	53	62	100	62	62	62	93
6.5	12 1/2:1	25:1	25	33	37	46	37	50	50	74	50	62	100	62	62	62	93
7.7	10 1/3:1	25:1	21	28	32	40	32	42	64	42	56.5	56.5	84	56.5	62	62	93
8.5	9 1/3:1	25:1	19	25	28	35	28	38	56	38	51	51	76	51	62	62	93
9.5	8 1/3:1	25:1	18	24	27	33	27	36	54	36	48	48	72	48	60	60	90
13	6 1/4:1	25:1	14	19	22	27	22	29	44	29	39	39	58	39	48	48	72
20	16 1/2:1	6:1	7	9	11	13	11	15	22	15	20	20	30	20	24	24	36
25	13 1/2:1	6:1	6	8	9	12	9	13	18	13	17	17	26	17	21	21	31.5
30	11 1/3:1	6:1	5	7	8	10	8	11	16	11	15	15	22	15	18	18	27
35	9 1/3:1	6:1	4	6	7	8	7	9	14	9	12	12	18	12	15	15	22.5
40	8 1/3:1	6:1	4	6	6	8	6	8	12	8	11	11	16	11	14	14	21

Gearbox Specification		PM 10 LWS		PM 11 LWS		PM 3 LWS	PM 1 LWS	PM 4 LWS	PM 2 LWS	PM 5 LWS	PM 6 LWS
Motor Speed 3000 r.p.m.		Cont Motor Rating 45 watts	1 Hour Motor Rating 55 watts	Cont Motor Rating 65 watts	1 Hour Motor Rating 80 watts	1 Hour Motor Rating 90 watts	Cont Motor Rating 90 watts	1 Hour Motor Rating 120 watts	Cont Motor Rating 120 watts	1 Hour Motor Rating 150 watts	Cont Motor Rating 150 watts
FINAL R.P.M.	RATIO		OUTPUT TORQUE (Nm)								
	WORM	SPUR									
0.9	30:1	115:1	100	100	100	100	100	100	100	100	100
1.7	15 1/2:1	115:1	100	100	100	100	100	100	100	100	100
3	8 1/3:1	115:1	78	97	100	100	100	100	100	100	100
3.6	7 1/4:1	115:1	69	86	100	100	100	100	100	100	100
4.3	12 1/2:1	56:1	56	70	84	100	100	100	100	100	100
5.2	10 1/3:1	56:1	47	59	71	84	95	100	100	100	100
5.8	9 1/3:1	56:1	43	53	64	76	86	100	100	100	100
6.5	8 1/3:1	56:1	40	50	60	72	80	100	100	100	100
7.4	7 1/4:1	56:1	36	45	56	64	72	96	96	100	100
8.5	6 1/4:1	56:1	33	41	49	58	65	87	87	100	100
8.9	13 1/2:1	25:1	26	33	40	47	53	62	62	62	62
9.6	12 1/2:1	25:1	25	31	37	44	50	62	62	62	62
11.6	10 1/3:1	25:1	21	26	32	38	42	56.5	56.5	62	62
13	9 1/3:1	25:1	19	24	28	34	38	51	51	62	62
14.4	8 1/3:1	25:1	18	22	27	32	36	48	48	60	60
19	6 1/4:1	25:1	14	18	22	26	29	39	39	48	48
30	16 1/2:1	6:1	7	9	11	13	15	20	20	24	24
37	13 1/2:1	6:1	6	8	9	12	13	17	17	21	21
44	11 1/3:1	6:1	5	7	8	10	11	15	15	18	18
53.5	9 1/3:1	6:1	4	6	7	8	9	12	12	15	15
60	8 1/3:1	6:1	4	5	6	8	8	11	11	14	14