

**Gearbox Type:**

**LWS**

Speed Range: 0.22 – 90 r.p.m.

**Worm and Multi-Spur Reduction Gear Units**

**1 or 3 Phase Induction Motors – Constant Speed**

Enclosures: Standard – Ventilated Internal Fan Cooled (IP 20)

Alternative – Totally Enclosed (IP 50) with Terminal Box or T.E.F.C. (IP 54)



**SD 21 LWS**



**SD 29 LWS**



**SD 13 LWS (T.E.F.C.)**



**SD 18 LWS**

**Voltage, Construction, Connections, Motor Performance Specifications and Optional Extras** see pages 6, 8 and 10 for full details.

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

Minimum speed of 0.15 r.p.m. obtainable using 900 r.p.m. motor (SD 8/13/18).

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

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

Gearbox Specification Motor Speed 1400 r.p.m.		SD 21 LWS		SD 8 LWS - SD 38 LWS		SD 28 LWS - SD 29 LWS		SD 18 LWS		SD 13 LWS - SD 18 LWS	
		1 Phase Capacitor		1 or 3 Phase		1 or 3 Phase		1 Phase Capacitor Start Induction Run		1 Phase	
		Motor Rating 8 watts		Motor Rating 35 watts		Motor Rating 55 watts		Motor Rating 95 watts		Motor Rating 100watts	
FINAL R.P.M.	RATIO		OUTPUT TORQUE (Nm)								
	WORM	SPUR									
0.22	54:1	115:1	100		100		100		100		100
0.45	27:1	115:1	67		100		100		100		100
0.62	40:1	56:1	45		100		100		100		100
0.92	27:1	56:1	35		100		100		100		100
1.5	16 1/2:1	56:1	25		100		100		100		100
1.85	13 1/2:1	56:1	22		93		100		100		100
2.2	11 1/3:1	56:1	20		83		100		100		100
2.4	10 1/3:1	56:1	18		78		100		100		100
3	8 1/3:1	56:1	15.5		66		100		100		100
3.4	16 1/2:1	25:1	11		49		62		62		62
4	14 1/2:1	25:1	10		44		62		62		62
4.5	12 1/2:1	25:1	9		40		62		62		62
5	11 1/3:1	25:1	8		35		55		62		62
6	9 1/3:1	25:1	7		30		49		62		62
7	8 1/3:1	25:1	6.5		28		45		62		62
8	7 1/4:1	25:1	6		26		41		62		62
9	6 1/4:1	25:1	5.6		24.5		37		62		62
11	5 1/6:1	25:1	5		20		32		55		62
13.5	4 1/8:1	25:1	4		17		27		47		62
16	14 1/2:1	6:1	2.5		11		17		30		39
18.5	12 1/2:1	6:1	2.3		10		16		27		35
22.5	10 1/3:1	6:1	1.9		8		13		23		28
28	8 1/3:1	6:1	1.7		7		11		20		26
32	7 1/4:1	6:1	1.5		6		10		18		23
37	6 1/4:1	6:1	1.4		5		9		16		21
45	5 1/6:1	6:1	1.2		4.8		8		13.5		18
56.5	4 1/8:1	6:1	1.0		4		6.6		11.3		15

Gearbox Specification Motor Speed 2800 r.p.m.		SD 21 LWS		SD 8 LWS - SD 38 LWS		SD 28 LWS - SD 29 LWS		SD 18 LWS		SD 13 LWS - SD 18 LWS	
		1 Phase Capacitor		1 or 3 Phase		1 Phase		3 Phase		1 Phase	
		Motor Rating 20 watts		Motor Rating 60 watts		Motor Rating 100 watts		Motor Rating 120 watts		Motor Rating 125 watts	
FINAL R.P.M.	RATIO		OUTPUT TORQUE (Nm)								
	WORM	SPUR									
0.9	27:1	115:1	84		100		100		100		100
1.25	40:1	56:1	57		100		100		100		100
1.85	27:1	56:1	43		100		100		100		100
3.0	16 1/2:1	56:1	32		93		100		100		100
4	12 1/2:1	56:1	26		79		100		100		100
5	10 1/3:1	56:1	20		60		100		100		100
5.4	9 1/3:1	56:1	21		59		100		100		100
7	7 1/4:1	56:1	17		50		84		100		100
8	6 1/4:1	56:1	15		45.5		76		91		100
10	11 1/3:1	25:1	10.6		32		53		62		62
12	9 1/3:1	25:1	9		27		45		54		62
15.5	7 1/4:1	25:1	7.5		22.5		37.5		45		62
22	5 1/6:1	25:1	6		17		29		35		56
27	4 1/8:1	25:1	5		15		25		30		47
37	12 1/2:1	6:1	3		8.4		14		17		26
45	10 1/3:1	6:1	2.1		6.3		10.5		12.6		19
56	8 1/3:1	6:1	2.0		6		10		12		18
74	6 1/4:1	6:1	1.6		4.8		8		9.6		15
90	5 1/6:1	6:1	1.4		4.2		7		8.4		13

