

Model	SP30	SP45	SP55	SP75	SP100
A	28.6	44.5	57.2	76.2	101.6
B	32.5	45.0	55.0	70.0	95.0
C	100.0	150.0	190.0	250.0	335.0
D	75.0	110.0	135.0	180.0	240.0
E	55.0	75.0	90.0	120.0	160.0
F	50.0	75.0	90.0	120.0	160.0
G	43.0	60.0	70.0	95.0	125.0
H	75.0	115.0	145.0	190.0	255.0
J	12.5	17.5	22.5	30.0	40.0
K	40.0	55.0	65.0	80.0	100.0
L	27.0	38.0	48.0	55.0	70.0
M	24.0	35.0	45.0	50.0	60.0
N	30.0	50.0	60.0	80.0	90.0
O	25.0	45.0	55.0	70.0	80.0
P	11.0	15.0	20.0	25.0	30.0
Q	16.0	25.0	30.0	40.0	45.0
R			42.0	55.0	60.0
S	54.0	70.0	88.0	118.0	158.0
T			82.0	110.0	150.0
U	27.0	37.0	44.0	64.0	80.0
V	4.0	6.0	8.0	10.0	13.0
W	7.0	9.0	11.0	14.0	20.0
Y	16.0	25.0	30.0	40.0	45.0

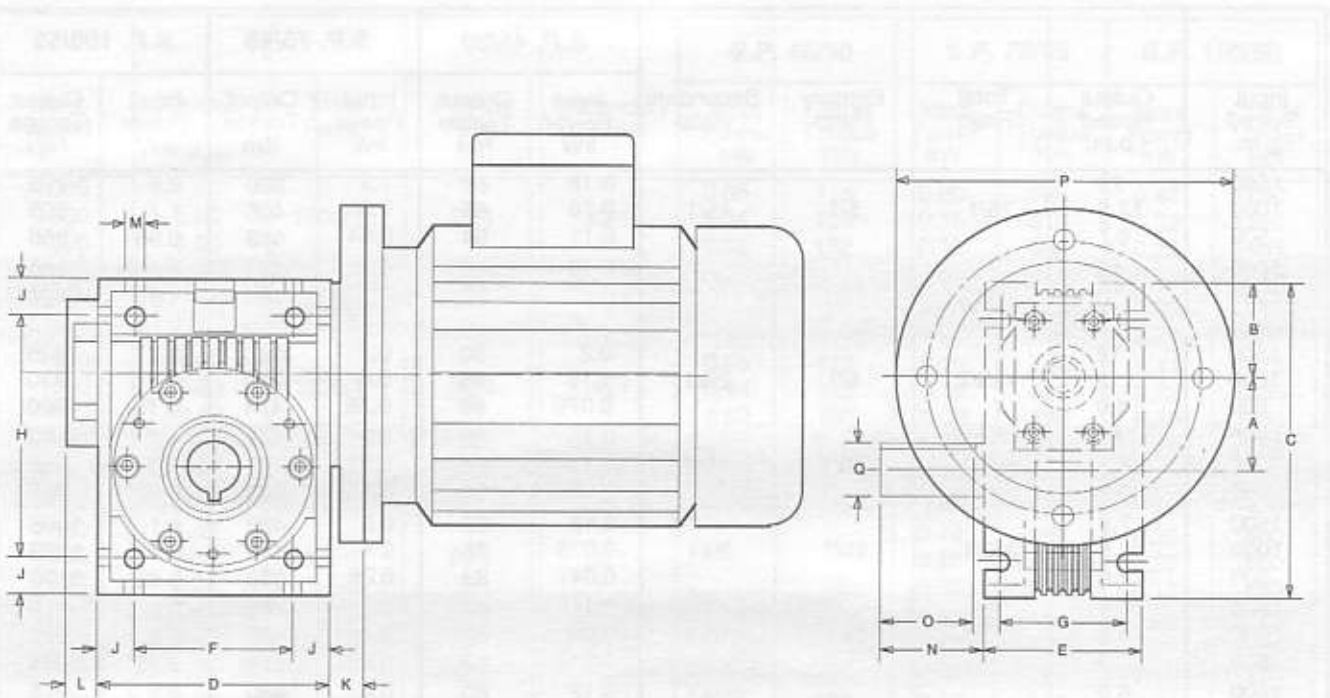
# SP worm gearbox

# Penfold

WORM GEAR REDUCERS

## RATINGS

Ratio	Input Speed r.p.m.	Output Speed r.p.m.	S.P. 30		S.P. 45		S.P. 55		S.P. 75		S.P. 100	
			Input Power kW	Output Torque Nm	Input Power kW	Output Torque Nm	Input Power kW	Output Torque Nm	Input Power kW	Output Torque Nm	Input Power kW	Output Torque Nm
5/1	1500	300	0.20	6.0	1.20	34	2.60	73	5.20	148	12.3	360
	1000	200	0.16	7.5	0.90	40	1.90	82	4.00	162	9.8	408
	750	150	0.14	8.0	0.80	45	1.60	90	3.40	181	8.0	464
	500	100	0.12	12.0	0.60	49	1.20	99	2.50	203	6.2	530
	250	50	0.08	14.0	0.40	61	0.80	128	1.80	303	4.0	660
	100	20	0.03	16.0	0.16	62	0.52	199	0.97	390	2.2	893
10/1	1500	150	0.18	9.5	0.80	44	1.80	95	3.40	192	7.3	420
	1000	100	0.14	11.0	0.70	54	1.60	118	2.80	230	6.0	497
	750	75	0.12	12.0	0.60	62	1.30	132	2.30	252	4.9	547
	500	50	0.10	17.0	0.45	67	1.00	154	1.60	263	3.9	619
	250	25	0.07	20.0	0.25	72	0.60	170	1.00	313	2.4	742
	100	10	0.03	22.0	0.10	72	0.32	222	0.61	469	1.2	894
15/1	1500	100.0	0.13	11.0	0.70	47	1.50	115	2.60	217	5.1	431
	1000	66.7	0.11	12.5	0.50	55	1.10	129	1.90	227	4.1	499
	750	50.0	0.09	13.0	0.45	60	1.00	132	1.60	261	3.5	564
	500	33.3	0.08	16.0	0.40	72	0.70	153	1.50	300	2.8	638
	250	16.7	0.05	17.0	0.20	79	0.44	175	0.90	418	1.7	785
	100	6.7	0.02	19.0	0.09	84	0.24	224	0.46	466	0.9	856
20/1	1500	75.0	0.12	11.0	0.60	55	1.10	104	2.20	223	4.9	554
	1000	50.0	0.10	12.5	0.45	62	0.80	121	1.60	258	3.7	632
	750	37.5	0.08	13.0	0.40	70	0.75	129	1.50	284	3.2	683
	500	25.0	0.07	16.0	0.30	79	0.60	150	1.10	325	2.5	790
	250	12.5	0.04	17.0	0.16	84	0.36	177	0.65	375	1.6	932
	100	5.0	0.02	23.0	0.07	75	0.21	239	0.34	459	0.8	1023
25/1	1500	60.0	0.10	12.0	0.50	55	1.00	115	1.70	214	3.7	489
	1000	40.0	0.08	13.5	0.40	66	0.75	129	1.40	249	3.4	599
	750	30.0	0.07	14.0	0.35	72	0.70	147	1.10	261	2.8	682
	500	20.0	0.06	18.0	0.25	77	0.55	167	0.80	285	2.2	784
	250	10.0	0.04	21.0	0.15	85	0.34	199	0.56	377	1.4	956
	100	4.0	0.02	23.0	0.07	86	0.19	266	0.32	474	0.6	1020
30/1	1500	50.0	0.09	11.0	0.45	54	0.90	112	1.60	227	3.4	507
	1000	33.3	0.07	13.5	0.37	63	0.70	132	1.30	259	2.8	602
	750	25.0	0.06	14.0	0.30	69	0.60	147	1.10	285	2.4	658
	500	16.7	0.07	20.0	0.24	77	0.50	164	0.75	305	1.9	743
	250	8.3	0.04	25.0	0.13	82	0.29	188	0.47	429	1.1	908
	100	3.3	0.02	27.0	0.06	86	0.16	260	0.30	526	0.6	971
40/1	1500	37.5	0.06	9.5	0.40	55	0.75	125	1.30	237	2.8	551
	1000	25.0	0.05	10.0	0.30	60	0.60	144	1.00	272	2.2	624
	750	18.8	0.04	11.0	0.25	68	0.50	151	0.90	286	1.9	683
	500	12.5	0.04	18.0	0.21	83	0.40	172	0.70	319	1.5	741
	250	6.3	0.03	23.0	0.10	82	0.23	192	0.40	386	0.8	875
	100	2.5	0.01	24.0	0.05	88	0.11	225	0.21	434	0.5	970
50/1	1500	30.0	0.05	9.5	0.30	52	0.65	128	1.00	215	2.2	532
	1000	20.0	0.04	9.5	0.25	61	0.55	143	0.80	242	1.9	618
	750	15.0	0.03	10.0	0.20	66	0.45	147	0.70	257	1.7	723
	500	10.0	0.03	12.0	0.16	75	0.39	168	0.50	296	1.1	725
	250	5.0	0.02	14.0	0.08	76	0.18	172	0.30	341	0.7	772
	100	2.0	0.01	17.0	0.04	81	0.09	189	0.14	319	0.4	823
60/1	1500	25.0	0.04	8.5	0.25	48	0.60	123	0.80	200	2.0	541
	1000	16.7	0.03	10.0	0.20	55	0.45	128	0.70	227	1.6	594
	750	12.5	0.03	11.0	0.15	62	0.35	130	0.60	250	1.3	624
	500	8.3	0.02	14.0	0.14	71	0.25	140	0.45	276	1.0	729
	250	4.2	0.02	17.0	0.09	74	0.13	142	0.24	287	0.6	807
	100	1.7	0.01	19.0	0.04	77	0.07	164	0.12	327	0.3	895
70/1	1500	21.4							0.80	206	1.9	557
	1000	14.3							0.60	229	1.5	633
	750	10.7							0.50	245	1.3	718
	500	7.2							0.40	270	0.9	764
	250	3.6							0.23	305	0.6	795
	100	1.4							0.11	342	0.3	916



Model	MSP45	MSP55	MSP75	MSP100
A	44.5	57.2	76.2	101.6
B	45.0	55.0	70.0	95.0
C	150.0	190.0	250.0	335.0
D	110.0	135.0	180.0	240.0
E	75.0	90.0	120.0	160.0
F	75.0	90.0	120.0	160.0
G	60.0	70.0	95.0	125.0
H	115.0	145.0	190.0	255.0
J	17.5	22.5	30.0	40.0
L	15.0	15.0	20.0	25.0
M	9.0	11.0	14.0	20.0
N	50.0	60.0	80.0	90.0
O	6.0	8.0	10.0	12.0
Q	25.0	30.0	40.0	45.0

Motor Frame Size	D71	D80	D90	D100	D112
K	16.0	20.0	20.0	26.0	26.0
P	160.0	200.0	200.0	250.0	250.0

# MSP worm gearmotor

# Penfold

WORM GEAR REDUCERS

## RATINGS

Power kW	Output Speed r.p.m.	Output Torque Nm	Service Factor	Motor	MSP Gearbox	
					Type	Ratio
0.37	285	10	3.40	71	45/7	5:1
	143	20	2.20	71	45/7	10:1
	95	27	1.74	71	45/7	15:1
	71	37	1.49	71	45/7	20:1
	57	40	1.38	71	45/7	25:1
	48	44	1.23	71	45/7	30:1
	36	55	1.00	71	45/7	40:1
	31	68	1.95	80	55/8	30:1
	29	70	1.83	71	55/7	50:1
	24	76	1.62	71	55/7	60:1
	18	95	1.51	80*	55/8	50:1
15	108	1.19	80*	55/8	60:1	
0.55	285	15	4.87	80	55/8	5:1
	143	30	3.17	80	55/8	10:1
	95	39	2.95	80	55/8	15:1
	71	52	2.00	80	55/8	20:1
	57	66	1.75	80	55/8	25:1
	48	70	1.60	80	55/8	30:1
	36	94	1.33	80	55/8	40:1
	29	104	1.23	80	55/8	50:1
24	114	1.08	80	55/8	60:1	
0.75	285	21	3.48	80	55/8	5:1
	143	40	2.38	80	55/8	10:1
	95	53	2.17	80	55/8	15:1
	71	69	1.51	80	55/8	20:1
	57	88	1.31	80	55/8	25:1
	48	93	1.21	80	55/8	30:1
	36	125	1.00	80	55/8	40:1
	29	132	1.63	80	75/8	50:1
	24	181	1.11	80	75/8	60:1
	20	187	1.11	80	75/8	70:1
15	272	2.19	90*	100/9	60:1	
13	298	2.13	90*	100/9	70:1	
1.1	285	32	4.63	90	75/9	5:1
	143	60	3.20	90	75/9	10:1
	95	92	2.36	90	75/9	15:1
	71	112	2.00	90	75/9	20:1
	57	140	1.53	90	75/9	25:1
	48	162	1.41	90	75/9	30:1
	36	197	1.21	90	75/9	40:1
	29	266	2.00	90	100/9	50:1
	24	301	1.80	90	100/9	60:1
	20	334	1.67	90	100/9	70:1
	15	412	1.45	90*	100/9	60:1
13	438	1.45	90*	100/9	70:1	

Power kW	Output Speed r.p.m.	Output Torque Nm	Service Factor	Motor	MSP Gearbox	
					Type	Ratio
1.5	285	44	3.37	90	75/9	5:1
	143	82	2.35	90	75/9	10:1
	95	125	1.74	90	75/9	15:1
	71	149	1.50	90	75/9	20:1
	57	186	1.15	90	75/9	25:1
	48	216	1.05	90	75/9	30:1
	36	235	2.35	90	100/9	40:1
	29	355	1.50	90	100/9	50:1
	24	401	1.35	90	100/9	60:1
	20	446	1.25	90	100/9	70:1
	15	563	1.06	100*	100/10	60:1
13	595	1.07	100*	100/10	70:1	
2.2	285	66	5.46	100	100/10	5:1
	143	126	3.34	100	100/10	10:1
	95	184	2.35	100	100/10	15:1
	71	252	2.20	100	100/10	20:1
	57	297	1.65	100	100/10	25:1
	48	338	1.50	100	100/10	30:1
	36	447	1.24	100	100/10	40:1
	29	532	1.00	100	100/10	50:1
3.0	285	90	4.00	100	100/10	5:1
	143	171	2.46	100	100/10	10:1
	95	251	1.72	100	100/10	15:1
	71	328	1.69	100	100/10	20:1
	57	400	1.23	100	100/10	25:1
	48	458	1.11	100	100/10	30:1
4.0	285	120	3.00	112	100/10	5:1
	143	229	1.84	112	100/10	10:1
	95	336	1.29	112	100/10	15:1
	71	438	1.27	112	100/10	20:1

All motors are 4 pole (1400 r.p.m.) except those marked \* which are 6 pole (960 r.p.m.)

Output speeds are nominal - for precise speeds refer to motor manufacturers literature and exact ratio chart - page 5