

# Helical Gears

## Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

**0.5 MOD**

17°45'H.A.

ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A.

SPECIAL TEETH : between 10 - 250

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	<b>TORQUE Nm.</b>	0.53	2.09	0.26	0.19
	<b>K.W.</b>	0.052	0.216	0.030	0.022



**RH 17°45'**

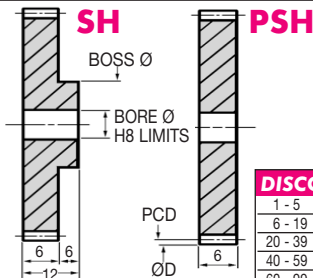


**LH 17°45'**

**LH runs with RH**

Popular sizes in stock.

Any two part numbers of this pitch will run together.



### DISCOUNTS

	List Price
1 - 5	
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH0.5-10	10	5.78	6.78	6.78	3	0.0022	0.0009	£9.04	£7.54
SH0.5-11	11	5.78	6.78	6.78	3	0.0022	0.0009	£9.06	£7.55
SH0.5-12	12	6.30	7.30	7.30	3	0.0027	0.0011	£9.07	£7.57
SH0.5-13	13	6.83	7.83	7.83	3	0.0032	0.0014	£9.18	£7.73
SH0.5-14	14	7.35	8.35	8.35	4	0.0033	0.0014	£9.28	£7.92
SH0.5-15	15	7.88	8.88	8.50	4	0.0037	0.0017	£9.40	£8.03
SH0.5-16	16	8.40	9.40	8.50	4	0.0040	0.0020	£9.58	£8.20
SH0.5-17	17	8.93	9.93	8.50	4	0.0043	0.0023	£9.63	£8.37
SH0.5-18	18	9.45	10.45	8.50	4	0.0047	0.0026	£9.73	£8.51
SH0.5-19	19	9.98	10.98	8.50	4	0.0050	0.0030	£9.85	£8.59
SH0.5-20	20	10.50	11.50	8.50	4	0.0054	0.0034	£9.96	£8.64
SH0.5-21	21	11.03	12.03	8.50	4	0.0058	0.0038	£10.07	£8.69
SH0.5-22	22	11.55	12.55	8.50	4	0.0063	0.0042	£10.24	£8.76
SH0.5-23	23	12.08	13.08	8.50	4	0.0067	0.0047	£10.33	£8.80
SH0.5-24	24	12.60	13.60	10.00	4	0.0082	0.0051	£10.47	£8.85
SH0.5-25	25	13.13	14.13	10.00	4	0.0087	0.0056	£10.57	£8.99
SH0.5-26	26	13.65	14.65	10.00	5	0.0085	0.0058	£10.74	£9.04
SH0.5-27	27	14.18	15.18	10.00	5	0.0091	0.0063	£10.84	£9.09
SH0.5-28	28	14.70	15.70	10.00	5	0.0096	0.0069	£10.98	£9.12
SH0.5-29	29	15.23	16.23	10.00	5	0.0102	0.0075	£11.03	£9.13
SH0.5-30	30	15.75	16.75	10.00	5	0.0107	0.0080	£11.06	£9.19
SH0.5-31	31	16.28	17.28	10.00	5	0.0114	0.0087	£11.20	£9.28
SH0.5-32	32	16.80	17.80	10.00	5	0.0120	0.0093	£11.30	£9.33



PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH0.5-33	33	17.33	18.33	10	5	0.0126	0.0099	£11.45	£9.47
SH0.5-34	34	17.85	18.85	10	5	0.0133	0.0106	£11.59	£9.58
SH0.5-35	35	18.38	19.38	10	5	0.0140	0.0113	£11.69	£9.63
SH0.5-36	36	18.90	19.90	10	5	0.0147	0.0120	£11.84	£9.73
SH0.5-37	37	19.43	20.43	10	5	0.0154	0.0127	£11.92	£9.77
SH0.5-38	38	19.95	20.95	10	5	0.0162	0.0135	£12.10	£9.89
SH0.5-39	39	20.48	21.48	10	5	0.0169	0.0142	£12.19	£9.96
SH0.5-40	40	21.00	22.00	10	5	0.0177	0.0150	£12.32	£10.06
SH0.5-41	41	21.53	22.53	10	5	0.0185	0.0158	£12.44	£10.10
SH0.5-42	42	22.05	23.05	10	5	0.0193	0.0166	£12.55	£10.24
SH0.5-43	43	22.58	23.58	10	5	0.0202	0.0175	£12.71	£10.32
SH0.5-44	44	23.10	24.10	10	5	0.0210	0.0183	£12.82	£10.38
SH0.5-45	45	23.63	24.63	10	5	0.0219	0.0192	£12.94	£10.47
SH0.5-46	46	24.15	25.15	10	5	0.0228	0.0201	£13.05	£10.53
SH0.5-47	47	24.68	25.68	10	5	0.0238	0.0211	£13.16	£10.62
SH0.5-48	48	25.20	26.20	10	5	0.0247	0.0220	£13.32	£10.75
SH0.5-49	49	25.73	26.73	10	5	0.0257	0.0230	£13.44	£10.82
SH0.5-50	50	26.25	27.25	12	6	0.0274	0.0235	£13.57	£10.89
SH0.5-51	51	26.78	27.78	12	6	0.0285	0.0246	£13.68	£11.00
SH0.5-52	52	27.30	28.30	12	6	0.0295	0.0256	£13.77	£11.12
SH0.5-53	53	27.83	28.83	12	6	0.0305	0.0266	£13.87	£11.20
SH0.5-54	54	28.35	29.35	12	6	0.0316	0.0277	£13.97	£11.29
SH0.5-55	55	28.88	29.88	12	6	0.0327	0.0288	£14.06	£11.39
SH0.5-56	56	29.40	30.40	12	6	0.0338	0.0299	£14.15	£11.54
SH0.5-57	57	29.93	30.93	12	6	0.0349	0.0310	£14.24	£11.61
SH0.5-58	58	30.45	31.45	12	6	0.0360	0.0321	£14.33	£11.70
SH0.5-59	59	30.98	31.98	12	6	0.0372	0.0333	£14.38	£11.84
SH0.5-60	60	31.50	32.50	12	6	0.0384	0.0345	£14.54	£11.89
SH0.5-61	61	32.03	33.03	12	6	0.0396	0.0357	£14.64	£12.00
SH0.5-62	62	32.55	33.55	12	6	0.0408	0.0369	£14.70	£12.12
SH0.5-63	63	33.08	34.08	12	6	0.0421	0.0382	£14.76	£12.20
SH0.5-64	64	33.60	34.60	12	6	0.0433	0.0394	£14.86	£12.32
SH0.5-65	65	34.13	35.13	12	6	0.0446	0.0407	£14.99	£12.42
SH0.5-68	68	35.70	37.70	12	6	0.0486	0.0447	£15.17	£12.51
SH0.5-70	70	36.75	37.75	12	6	0.0513	0.0474	£15.25	£12.64
SH0.5-72	72	37.80	38.80	12	6	0.0541	0.0502	£15.41	£12.74
SH0.5-75	75	39.38	40.38	12	6	0.0585	0.0546	£15.53	£12.80
SH0.5-77	77	40.43	41.43	12	6	0.0615	0.0576	£15.80	£12.84
SH0.5-80	80	42.00	43.00	12	6	0.0662	0.0623	£15.88	£12.88
SH0.5-84	84	44.10	45.10	12	6	0.0727	0.0688	£16.01	£13.02
SH0.5-86	86	45.15	46.15	12	6	0.0761	0.0722	£16.18	£13.05
SH0.5-88	88	46.20	47.20	12	6	0.0796	0.0757	£16.36	£13.14
SH0.5-90	90	47.25	48.25	12	6	0.0831	0.0792	£16.48	£13.21
SH0.5-96	96	50.40	51.40	12	6	0.0942	0.0903	£16.65	£13.57
SH0.5-100	100	52.50	53.50	12	6	0.1020	0.0981	£16.74	£16.74
SH0.5-120	120	63.00	64.00	12	6	0.1457	0.1418	£20.25	£18.13
SH0.5-140	140	73.50	74.50	12	6	0.1974	0.1935	£24.21	£21.80
SH0.5-150	150	78.75	79.75	15	8	0.2262	0.2223	£26.74	£24.08
SH0.5-180	180	94.50	95.50	15	8	0.3246	0.3207	£29.76	£26.82
SH0.5-200	200	105.00	106.00	20	10	0.4002	0.3963	£32.49	£29.28
SH0.5-220	220	115.50	116.50	20	10	0.4836	0.4798	£35.47	£31.97
SH0.5-250	250	131.25	132.25	25	12	0.6238	0.6199	£38.99	£35.14

**Helical Gears Parallel Axis Steel MOD 0.5**

*Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.*



# Helical Gears

Materials

Plastic - Parallel Axis

**0.5 MOD**

17°45' H.A.

20° P.A.

STD : White Delrin  
(fully machined)

SPECIAL TEETH : between 10 - 180

**SPECIALS**  
ON DEMAND

TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.13

Helical Gears Parallel Axis Plastic MOD 0.5



RH 17°45'

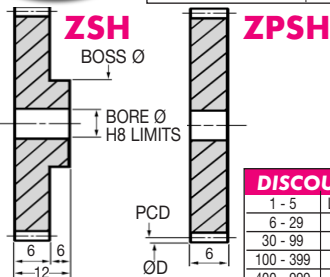


LH 17°45'

RH runs with LH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



### DISCOUNTS

Quantity	Discount
1 - 5	List Price
6 - 29	- 22%
30 - 99	- 44%
100 - 399	- 47%
400 - 999	- 50%
1000 - 5000	- 53%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZSH	ZPSH	ZSH	ZPSH
ZSH0.5-10	10	5.78	6.78	6.78	2	0.0027	0.0011	£4.55	£3.44
ZSH0.5-11	11	5.78	6.78	6.78	2	0.0027	0.0011	£4.58	£3.48
ZSH0.5-12	12	6.30	7.30	7.00	2	0.0029	0.0013	£4.63	£3.49
ZSH0.5-13	13	6.83	7.83	7.00	2	0.0031	0.0015	£4.64	£3.50
ZSH0.5-14	14	7.35	8.35	7.00	2	0.0034	0.0018	£4.66	£3.53
ZSH0.5-15	15	7.88	8.88	7.00	2	0.0037	0.0021	£4.71	£3.60
ZSH0.5-16	16	8.40	9.40	7.00	2	0.0040	0.0024	£4.76	£3.65
ZSH0.5-17	17	8.93	9.93	8.00	2	0.0049	0.0027	£4.83	£3.69
ZSH0.5-18	18	9.45	10.45	8.00	2	0.0052	0.0031	£4.87	£3.71
ZSH0.5-19	19	9.98	10.98	9.00	3	0.0059	0.0033	£4.94	£3.78
ZSH0.5-20	20	10.50	11.50	9.00	3	0.0062	0.0037	£4.97	£3.82
ZSH0.5-21	21	11.03	12.03	9.00	3	0.0067	0.0041	£5.03	£3.89
ZSH0.5-22	22	11.55	12.55	9.00	3	0.0071	0.0045	£5.12	£3.92
ZSH0.5-23	23	12.08	13.08	10.00	3	0.0082	0.0049	£5.23	£3.95
ZSH0.5-24	24	12.60	13.60	10.00	3	0.0087	0.0054	£5.24	£4.01
ZSH0.5-25	25	13.13	14.13	10.00	3	0.0092	0.0059	£5.27	£4.03
ZSH0.5-26	26	13.65	14.65	10.00	3	0.0097	0.0064	£5.38	£4.08
ZSH0.5-27	27	14.18	15.18	10.00	3	0.0102	0.0069	£5.43	£4.15
ZSH0.5-28	28	14.70	15.70	10.00	3	0.0107	0.0075	£5.48	£4.21
ZSH0.5-29	29	15.23	16.23	10.00	3	0.0113	0.0080	£5.52	£4.22
ZSH0.5-30	30	15.75	16.75	12.00	4	0.0130	0.0084	£5.52	£4.24
ZSH0.5-31	31	16.28	17.28	12.00	4	0.0136	0.0090	£5.66	£4.29
ZSH0.5-32	32	16.80	17.80	12.00	4	0.0142	0.0096	£5.68	£4.34

590



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PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZSH	ZPSH	ZSH	ZPSH
ZSH0.5-33	33	17.33	18.33	12	4	0.0149	0.0103	£5.73	£4.41
ZSH0.5-34	34	17.85	18.85	12	4	0.0155	0.0109	£5.75	£4.43
ZSH0.5-35	35	18.38	19.38	12	4	0.0162	0.0116	£5.85	£4.44
ZSH0.5-36	36	18.90	19.90	12	4	0.0169	0.0123	£5.85	£4.45
ZSH0.5-40	40	21.00	22.00	12	4	0.0199	0.0153	£5.96	£4.55
ZSH0.5-41	41	21.53	22.53	12	4	0.0208	0.0161	£6.04	£4.65
ZSH0.5-42	42	22.05	23.05	12	4	0.0216	0.0170	£6.18	£4.69
ZSH0.5-43	43	22.58	23.58	12	4	0.0224	0.0178	£6.20	£4.71
ZSH0.5-44	44	23.10	24.10	12	4	0.0233	0.0187	£6.25	£4.76
ZSH0.5-45	45	23.63	24.63	12	4	0.0242	0.0196	£6.30	£4.83
ZSH0.5-46	46	24.15	25.15	12	4	0.0251	0.0205	£6.34	£4.87
ZSH0.5-47	47	24.68	25.68	12	4	0.0260	0.0214	£6.49	£4.94
ZSH0.5-48	48	25.20	26.20	12	4	0.0269	0.0223	£6.51	£4.97
ZSH0.5-49	49	25.73	26.73	12	4	0.0279	0.0233	£6.57	£5.03
ZSH0.5-50	50	26.25	27.25	12	4	0.0289	0.0243	£6.59	£5.06
ZSH0.5-51	51	26.78	27.78	12	4	0.0299	0.0253	£6.68	£5.12
ZSH0.5-52	52	27.30	28.30	12	4	0.0309	0.0263	£6.75	£5.16
ZSH0.5-53	53	27.83	28.83	14	4	0.0338	0.0274	£6.83	£5.23
ZSH0.5-54	54	28.35	29.35	14	4	0.0349	0.0284	£6.88	£5.24
ZSH0.5-55	55	28.88	29.88	14	4	0.0360	0.0295	£6.90	£5.27
ZSH0.5-56	56	29.40	30.40	14	4	0.0371	0.0306	£6.96	£5.35
ZSH0.5-57	57	29.93	30.93	14	4	0.0382	0.0317	£6.98	£5.38
ZSH0.5-58	58	30.45	31.45	14	4	0.0393	0.0329	£7.05	£5.43
ZSH0.5-59	59	30.98	31.98	14	4	0.0405	0.0340	£7.13	£5.45
ZSH0.5-60	60	31.50	32.50	14	4	0.0417	0.0352	£7.88	£5.99
ZSH0.5-61	61	32.03	33.03	14	4	0.0429	0.0364	£7.91	£6.04
ZSH0.5-62	62	32.55	33.55	14	4	0.0441	0.0376	£7.93	£6.08
ZSH0.5-63	63	33.08	34.08	14	4	0.0454	0.0389	£8.03	£6.12
ZSH0.5-64	64	33.60	34.60	14	4	0.0466	0.0401	£8.09	£6.20
ZSH0.5-65	65	34.13	35.13	14	4	0.0479	0.0414	£8.12	£6.25
ZSH0.5-68	68	35.70	37.70	14	4	0.0519	0.0454	£8.16	£6.26
ZSH0.5-70	70	36.75	37.75	14	4	0.0546	0.0481	£8.19	£6.27
ZSH0.5-72	72	37.80	38.80	14	4	0.0574	0.0509	£8.29	£6.34
ZSH0.5-75	75	39.38	40.38	14	4	0.0618	0.0553	£8.38	£6.37
ZSH0.5-77	77	40.43	41.43	16	5	0.0664	0.0580	£8.42	£6.51
ZSH0.5-80	80	42.00	43.00	16	5	0.0710	0.0627	£8.54	£6.56
ZSH0.5-84	84	44.10	45.10	16	5	0.0776	0.0692	£9.78	£7.49
ZSH0.5-86	86	45.15	46.15	16	5	0.0809	0.0726	£9.91	£7.58
ZSH0.5-88	88	46.20	47.20	16	5	0.0844	0.0761	£9.99	£7.61
ZSH0.5-90	90	47.25	48.25	16	5	0.0879	0.0796	£10.07	£7.72
ZSH0.5-96	96	50.40	51.40	16	5	0.0990	0.0907	£10.15	£7.80
ZSH0.5-100	100	52.50	53.50	16	5	0.1068	0.0985	£10.27	£7.88
ZSH0.5-120	120	63.00	64.00	16	6	0.1506	0.1422	£10.37	£7.93
ZSH0.5-140	140	73.50	74.50	16	6	0.2022	0.1939	£10.49	£8.03
ZSH0.5-150	150	78.75	79.75	16	8	0.2311	0.2227	£10.52	£8.09
ZSH0.5-180	180	94.50	95.50	16	8	0.3295	0.3211	£15.31	£11.70

**Helical Gears Parallel Axis Plastic MOD 0.5**

*'Never Knowingly Outpriced'*

*Gears with a greater number of teeth than listed are subject to different face widths, boss and bore. Please consult Technical for sizes.*

