

# Helical Gears

## Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

**1.5 MOD** 17°45'H.A.  
20° P.A.

ALTERNATIVE : Brass, Tufnol or Delrin

SPECIAL TEETH : between 9 - 120

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	12.71	50.29	6.36	4.54
	K.W.	1.34	5.27	0.66	0.48



RH 17°45'

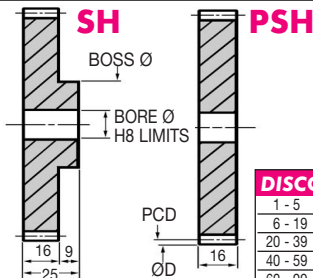


LH 17°45'

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
SH1.5-9	9	15.75	18.75	18	8	0.032	0.018	£13.78	£12.75
SH1.5-10	10	15.75	18.75	18	8	0.032	0.018	£13.82	£12.76
SH1.5-11	11	17.33	20.33	18	8	0.037	0.023	£13.82	£12.77
SH1.5-12	12	18.90	21.90	18	8	0.042	0.028	£13.83	£12.78
SH1.5-13	13	20.48	23.48	18	8	0.048	0.034	£13.92	£13.26
SH1.5-14	14	22.05	25.05	18	8	0.055	0.041	£13.93	£13.68
SH1.5-15	15	23.63	26.63	18	8	0.062	0.048	£14.32	£14.05
SH1.5-16	16	25.20	28.20	20	10	0.068	0.051	£14.67	£14.50
SH1.5-17	17	26.78	29.78	20	10	0.076	0.059	£15.12	£14.96
SH1.5-18	18	28.35	31.35	20	10	0.084	0.068	£15.55	£15.39
SH1.5-19	19	29.93	32.93	20	10	0.093	0.077	£16.17	£15.45
SH1.5-20	20	31.50	34.50	20	10	0.102	0.086	£16.94	£15.47
SH1.5-21	21	33.08	36.08	20	10	0.112	0.096	£17.18	£15.61
SH1.5-22	22	34.65	37.65	20	10	0.122	0.106	£17.31	£15.70
SH1.5-23	23	36.23	39.23	20	10	0.133	0.117	£17.59	£15.83
SH1.5-24	24	37.80	40.80	25	12	0.150	0.124	£17.81	£15.95
SH1.5-25	25	39.38	42.38	25	12	0.161	0.135	£18.71	£15.97
SH1.5-26	26	40.95	43.95	25	12	0.173	0.147	£19.61	£16.04
SH1.5-27	27	42.53	45.53	25	12	0.186	0.160	£20.31	£16.35
SH1.5-28	28	44.10	47.10	25	12	0.199	0.173	£20.87	£16.60
SH1.5-29	29	45.68	48.68	25	12	0.213	0.187	£21.15	£16.90
SH1.5-30	30	47.25	50.25	25	12	0.227	0.201	£21.77	£17.18
SH1.5-31	31	48.83	51.83	25	12	0.241	0.215	£22.11	£17.65

24.24



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN  
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

Helical Gears Parallel Axis Steel MOD 1.5

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH1.5-32	32	50.40	53.40	25	12	0.256	0.230	£22.55	£17.81
SH1.5-33	33	51.98	54.98	25	12	0.272	0.246	£22.74	£18.29
SH1.5-34	34	53.55	56.55	25	12	0.298	0.272	£22.94	£18.43
SH1.5-35	35	55.13	58.13	30	15	0.307	0.271	£23.22	£18.66
SH1.5-36	36	56.70	59.70	30	15	0.324	0.288	£24.39	£18.87
SH1.5-37	37	58.28	61.28	30	15	0.341	0.305	£24.88	£19.13
SH1.5-38	38	59.85	62.85	30	15	0.359	0.323	£25.43	£19.41
SH1.5-39	39	61.43	64.43	30	15	0.378	0.341	£26.04	£19.93
SH1.5-40	40	63.00	66.00	40	15	0.434	0.360	£26.57	£20.42
SH1.5-41	41	64.58	67.58	40	15	0.454	0.379	£26.60	£21.09
SH1.5-42	42	66.15	69.15	40	15	0.474	0.399	£26.61	£21.70
SH1.5-43	43	67.73	70.73	40	15	0.494	0.419	£26.66	£22.38
SH1.5-44	44	69.30	72.30	40	15	0.515	0.440	£26.66	£22.99
SH1.5-45	45	70.88	73.88	40	15	0.536	0.461	£27.18	£23.67
SH1.5-46	46	72.45	75.45	40	15	0.557	0.483	£27.74	£24.24
SH1.5-47	47	74.03	77.03	40	15	0.580	0.505	£28.31	£24.88
SH1.5-48	48	75.60	78.60	40	15	0.602	0.528	£29.01	£25.59
SH1.5-49	49	77.18	80.18	40	15	0.626	0.551	£30.34	£26.20
SH1.5-50	50	78.75	81.75	40	15	0.649	0.575	£32.53	£26.86
SH1.5-51	51	80.33	83.33	40	15	0.673	0.599	£33.41	£27.53
SH1.5-52	52	81.90	84.90	40	15	0.698	0.623	£34.06	£28.14
SH1.5-53	53	83.48	86.48	40	15	0.723	0.648	£34.60	£28.79
SH1.5-54	54	85.05	88.05	40	15	0.748	0.674	£34.77	£29.38
SH1.5-55	55	86.63	89.63	40	15	0.774	0.700	£34.98	£29.85
SH1.5-56	56	88.20	91.20	40	15	0.801	0.726	£35.22	£30.34
SH1.5-57	57	89.78	92.78	40	15	0.828	0.753	£35.55	£30.76
SH1.5-58	58	91.35	94.35	40	15	0.855	0.781	£35.71	£31.21
SH1.5-59	59	92.93	95.93	40	15	0.883	0.809	£35.93	£31.62
SH1.5-60	60	94.50	97.50	40	15	0.911	0.837	£36.06	£32.04
SH1.5-62	62	97.65	100.65	40	15	0.970	0.895	£36.76	£32.53
SH1.5-64	64	100.80	103.80	40	15	1.030	0.955	£37.29	£32.90
SH1.5-65	65	102.38	105.38	40	15	1.061	0.986	£38.14	£33.36
SH1.5-66	66	103.95	106.95	40	15	1.092	1.017	£39.58	£34.03
SH1.5-68	68	107.10	110.10	40	15	1.156	1.081	£40.48	£34.51
SH1.5-70	70	110.25	113.25	40	15	1.222	1.147	£41.91	£34.88
SH1.5-71	71	111.83	114.83	40	15	1.255	1.181	£42.18	£35.88
SH1.5-72	72	113.40	116.40	40	15	1.289	1.215	£44.30	£36.91
SH1.5-73	73	114.98	117.98	40	15	1.324	1.250	£45.43	£37.79
SH1.5-74	74	116.55	119.55	40	15	1.359	1.285	£46.96	£39.15
SH1.5-75	75	118.13	121.13	40	15	1.395	1.320	£47.20	£39.28
SH1.5-76	76	119.70	122.70	40	15	1.431	1.356	£47.44	£39.53
SH1.5-78	78	122.85	125.85	40	15	1.504	1.430	£49.75	£41.47
SH1.5-80	80	126.00	129.00	40	15	1.579	1.505	£51.63	£43.03
SH1.5-86	86	135.45	138.45	40	15	1.817	1.743	£55.49	£46.18
SH1.5-90	90	141.75	144.75	40	15	1.985	1.911	£59.48	£49.51
SH1.5-96	96	151.20	154.20	40	15	2.251	2.177	£63.39	£52.77
SH1.5-98	98	154.35	157.35	40	15	2.344	2.269	£67.31	£56.07
SH1.5-100	100	157.50	160.50	40	15	2.438	2.364	£71.61	£59.67
SH1.5-105	105	165.38	168.38	40	15	2.683	2.608	£76.37	£63.61
SH1.5-110	110	173.25	176.25	40	15	2.939	2.865	£82.42	£68.69
SH1.5-115	115	181.13	184.13	40	15	3.208	3.133	£91.86	£76.50
SH1.5-120	120	189.00	192.00	40	15	3.488	3.413	£102.60	£85.48

*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

Plastic - Parallel Axis

**1.5 MOD** 17°45' H.A.  
20° P.A.

Materials

STD : White Delrin  
(fully machined)

SPECIAL TEETH : between 9 - 100

**SPECIALS**  
ON DEMAND

TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 3.00



RH 17°45'

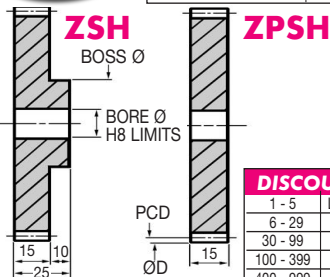


LH 17°45'

RH runs with LH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



## DISCOUNTS

Quantity	Discount	List Price
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
ZSH1.5-9	9	15.75	18.75	18	6	0.022	0.019	£6.50	£4.99
ZSH1.5-10	10	15.75	18.75	18	6	0.022	0.019	£6.50	£5.01
ZSH1.5-11	11	17.33	20.33	18	6	0.028	0.024	£6.51	£5.06
ZSH1.5-12	12	18.90	21.90	18	6	0.034	0.029	£6.54	£5.06
ZSH1.5-13	13	20.48	23.48	18	6	0.042	0.035	£6.77	£5.22
ZSH1.5-14	14	22.05	25.05	20	8	0.045	0.038	£6.99	£5.30
ZSH1.5-15	15	23.63	26.63	20	8	0.054	0.045	£7.14	£5.48
ZSH1.5-16	16	25.20	28.20	20	8	0.061	0.051	£7.36	£5.58
ZSH1.5-17	17	26.78	29.78	20	8	0.070	0.059	£8.35	£6.38
ZSH1.5-18	18	28.35	31.35	24	8	0.080	0.067	£8.59	£6.54
ZSH1.5-19	19	29.93	32.93	25	8	0.090	0.075	£8.93	£6.77
ZSH1.5-20	20	31.50	34.50	25	8	0.100	0.084	£9.32	£7.14
ZSH1.5-21	21	33.08	36.08	25	8	0.111	0.093	£9.76	£7.28
ZSH1.5-22	22	34.65	37.65	25	8	0.122	0.102	£10.01	£7.36
ZSH1.5-23	23	36.23	39.23	25	8	0.135	0.113	£10.44	£7.40
ZSH1.5-24	24	37.80	40.80	25	8	0.147	0.123	£11.28	£8.59
ZSH1.5-25	25	39.38	42.38	25	8	0.160	0.134	£11.76	£8.96
ZSH1.5-26	26	40.95	43.95	25	8	0.174	0.145	£12.44	£9.47
ZSH1.5-27	27	42.53	45.53	25	8	0.188	0.157	£12.78	£9.76
ZSH1.5-28	28	44.10	47.10	25	8	0.204	0.170	£13.05	£10.04
ZSH1.5-29	29	45.68	48.68	25	8	0.218	0.182	£13.30	£10.15
ZSH1.5-30	30	47.25	50.25	25	8	0.234	0.195	£13.68	£10.50
ZSH1.5-31	31	48.83	51.83	28	10	0.247	0.206	£13.93	£10.65

24.26



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN  
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZSH	ZPSH	ZSH	ZPSH
ZSH1.5-32	32	50.40	53.40	28	10	0.264	0.220	£14.25	£10.87
ZSH1.5-33	33	51.98	54.98	28	10	0.282	0.235	£14.31	£10.97
ZSH1.5-34	34	54.55	56.55	28	10	0.300	0.259	£14.46	£11.10
ZSH1.5-35	35	55.13	58.13	28	10	0.306	0.265	£14.64	£11.15
ZSH1.5-36	36	56.70	59.70	28	10	0.322	0.281	£18.40	£14.08
ZSH1.5-37	37	58.28	61.28	28	10	0.338	0.297	£18.79	£14.38
ZSH1.5-38	38	59.85	62.85	28	10	0.355	0.314	£19.59	£14.74
ZSH1.5-39	39	61.43	64.43	28	10	0.372	0.331	£19.85	£15.06
ZSH1.5-40	40	63.00	66.00	30	12	0.390	0.345	£20.08	£15.38
ZSH1.5-41	41	64.58	67.58	30	12	0.408	0.363	£20.09	£15.39
ZSH1.5-42	42	66.15	69.15	30	12	0.427	0.381	£20.10	£15.40
ZSH1.5-43	43	67.73	70.73	30	12	0.446	0.401	£20.11	£15.41
ZSH1.5-44	44	69.30	72.30	30	12	0.465	0.420	£20.12	£15.42
ZSH1.5-45	45	70.88	73.88	30	12	0.485	0.440	£20.55	£15.71
ZSH1.5-46	46	72.45	75.45	30	12	0.506	0.460	£23.80	£18.23
ZSH1.5-47	47	74.03	77.03	30	12	0.527	0.481	£24.24	£18.61
ZSH1.5-48	48	75.60	78.60	30	12	0.548	0.502	£24.86	£19.04
ZSH1.5-49	49	77.18	80.18	30	12	0.569	0.524	£25.97	£19.93
ZSH1.5-50	50	78.75	81.75	30	12	0.592	0.546	£27.88	£21.37
ZSH1.5-51	51	80.33	83.33	30	12	0.614	0.569	£28.66	£21.96
ZSH1.5-52	52	81.90	84.90	30	12	0.637	0.592	£29.26	£22.38
ZSH1.5-53	53	83.48	86.48	30	12	0.661	0.615	£29.67	£22.74
ZSH1.5-54	54	85.05	88.05	30	12	0.685	0.639	£29.82	£22.80
ZSH1.5-55	55	86.63	89.63	30	12	0.709	0.664	£31.74	£24.40
ZSH1.5-56	56	88.20	91.20	30	12	0.734	0.688	£31.96	£24.54
ZSH1.5-57	57	89.78	92.78	30	12	0.759	0.714	£32.27	£24.73
ZSH1.5-58	58	91.35	94.35	30	12	0.785	0.739	£32.43	£24.86
ZSH1.5-59	59	92.93	95.93	30	12	0.811	0.766	£32.61	£25.03
ZSH1.5-60	60	94.50	97.50	30	12	0.838	0.792	£36.36	£27.91
ZSH1.5-62	62	97.65	100.65	30	12	0.892	0.847	£37.08	£28.48
ZSH1.5-64	64	100.80	103.80	30	12	0.948	0.903	£37.52	£28.84
ZSH1.5-65	65	102.38	105.38	30	12	0.977	0.932	£38.52	£29.54
ZSH1.5-66	66	103.95	106.95	40	12	1.049	0.961	£39.94	£31.21
ZSH1.5-68	68	107.10	110.10	40	12	1.109	1.021	£40.84	£31.29
ZSH1.5-70	70	110.25	113.25	40	12	1.170	1.083	£42.33	£32.43
ZSH1.5-71	71	111.83	114.83	40	12	1.202	1.114	£45.78	£34.24
ZSH1.5-72	72	113.40	116.40	40	12	1.234	1.146	£49.16	£34.29
ZSH1.5-73	73	114.98	117.98	40	12	1.266	1.179	£52.40	£40.21
ZSH1.5-74	74	116.55	119.55	40	12	1.299	1.212	£52.64	£40.68
ZSH1.5-75	75	118.13	121.13	40	12	1.333	1.245	£55.27	£42.34
ZSH1.5-76	76	119.70	122.70	40	12	1.366	1.279	£57.30	£43.98
ZSH1.5-78	78	122.85	125.85	40	12	1.435	1.348	£59.63	£46.49
ZSH1.5-80	80	126.00	129.00	40	12	1.506	1.418	£61.07	£46.84
ZSH1.5-86	86	135.45	138.45	40	12	1.728	1.641	£76.73	£58.89
ZSH1.5-90	90	141.75	144.75	40	12	1.886	1.798	£81.57	£62.42
ZSH1.5-96	96	151.20	154.20	50	15	2.135	2.048	£94.02	£72.14
ZSH1.5-100	100	157.50	160.50	50	15	2.311	2.223	£104.71	£82.82

**Helical Gears Parallel Axis Plastic MOD 1.5**

**'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.*

