

# Helical Gears

## Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

2.5 MOD

17°45'H.A.

ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A.

SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back				
<b>TORQUE Nm.</b>	66.17	261.76	33.00	23.63
<b>K.W.</b>	6.94	27.43	3.47	2.48

RH 17°45'

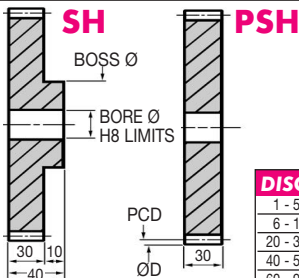


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



### DISCOUNTS

Quantity	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
SH2.5-9	9	26.25	31.25	30	12	0.144	0.098	£24.67	£16.29
SH2.5-10	10	26.25	31.25	30	12	0.144	0.098	£24.70	£16.32
SH2.5-11	11	28.88	33.88	30	12	0.170	0.124	£24.72	£16.35
SH2.5-12	12	31.50	36.50	30	15	0.179	0.138	£24.73	£16.38
SH2.5-13	13	34.13	39.13	30	15	0.210	0.169	£25.31	£17.31
SH2.5-14	14	36.75	41.75	30	15	0.244	0.203	£26.47	£18.23
SH2.5-15	15	39.38	44.38	30	15	0.280	0.239	£28.14	£20.08
SH2.5-16	16	42.00	47.00	30	15	0.318	0.277	£29.81	£21.91
SH2.5-17	17	44.63	49.63	30	15	0.359	0.319	£30.39	£22.79
SH2.5-18	18	47.25	52.25	30	15	0.403	0.362	£31.50	£23.74
SH2.5-19	19	49.88	54.88	30	15	0.449	0.408	£32.35	£24.70
SH2.5-20	20	52.50	57.50	40	20	0.497	0.425	£33.50	£25.69
SH2.5-21	21	55.13	60.13	40	20	0.548	0.476	£34.33	£26.67
SH2.5-22	22	57.75	62.75	40	20	0.601	0.529	£35.54	£27.64
SH2.5-23	23	60.38	65.38	40	20	0.657	0.585	£36.45	£28.60
SH2.5-24	24	63.00	68.00	40	20	0.716	0.643	£37.52	£29.53
SH2.5-25	25	65.63	70.63	40	20	0.777	0.704	£39.55	£31.50
SH2.5-26	26	68.25	73.25	45	20	0.865	0.768	£41.53	£33.47
SH2.5-27	27	70.88	75.88	45	20	0.931	0.834	£42.40	£34.51
SH2.5-28	28	73.50	78.50	45	20	1.000	0.902	£43.56	£35.44
SH2.5-29	29	76.13	81.13	45	20	1.071	0.973	£44.97	£37.31
SH2.5-30	30	78.75	83.75	45	20	1.144	1.046	£46.50	£39.05
SH2.5-31	31	81.38	86.38	45	20	1.220	1.122	£47.66	£40.93

24.32



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PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						SH	PSH	SH	PSH
SH2.5-32	32	84.00	89.00	45	20	1.298	1.200	£49.27	£42.76
SH2.5-33	33	86.63	91.63	45	20	1.379	1.281	£49.87	£43.97
SH2.5-34	34	89.25	94.25	45	20	1.462	1.364	£51.09	£45.18
SH2.5-35	35	91.88	96.88	45	20	1.548	1.450	£52.29	£46.36
SH2.5-36	36	94.50	99.50	45	20	1.636	1.538	£55.09	£50.10
SH2.5-37	37	97.13	102.13	45	20	1.727	1.629	£55.84	£50.92
SH2.5-38	38	99.75	104.75	45	20	1.820	1.722	£57.41	£51.82
SH2.5-39	39	102.38	107.38	45	20	1.915	1.818	£58.28	£52.69
SH2.5-40	40	105.00	110.00	50	20	2.042	1.916	£59.67	£53.59
SH2.5-41	41	107.63	112.63	50	20	2.143	2.017	£61.13	£54.28
SH2.5-42	42	110.25	115.25	50	20	2.246	2.119	£62.08	£54.97
SH2.5-43	43	112.88	117.88	50	20	2.351	2.225	£62.72	£55.75
SH2.5-44	44	115.50	120.50	50	20	2.459	2.333	£63.46	£56.35
SH2.5-45	45	118.13	123.13	50	20	2.570	2.444	£64.28	£57.12
SH2.5-46	46	120.75	125.75	50	20	2.683	2.557	£65.75	£58.28
SH2.5-47	47	123.38	128.38	50	20	2.799	2.673	£67.02	£59.46
SH2.5-48	48	126.00	131.00	50	20	2.917	2.790	£68.84	£60.59
SH2.5-49	49	128.63	133.63	50	20	3.037	2.911	£70.73	£62.37
SH2.5-50	50	131.25	136.25	50	20	3.160	3.034	£72.67	£64.06
SH2.5-51	51	133.88	138.88	50	20	3.286	3.160	£72.96	£64.93
SH2.5-52	52	136.50	141.50	50	20	3.413	3.287	£73.27	£65.85
SH2.5-53	53	139.13	144.13	50	20	3.544	3.418	£75.03	£66.70
SH2.5-54	54	141.75	146.75	50	20	3.677	3.551	£75.81	£67.53
SH2.5-55	55	144.38	149.38	50	20	3.813	3.686	£83.17	£71.06
SH2.5-56	56	147.00	152.00	50	20	3.950	3.824	£84.62	£71.70
SH2.5-57	57	149.63	154.63	50	20	4.091	3.965	£86.17	£72.41
SH2.5-58	58	152.25	157.25	50	20	4.233	4.107	£87.35	£73.06
SH2.5-59	59	154.88	159.88	50	20	4.379	4.253	£88.72	£73.77
SH2.5-60	60	157.50	162.50	50	20	4.527	4.400	£90.15	£74.45
SH2.5-62	62	162.75	167.75	50	20	4.830	4.704	£102.11	£89.11
SH2.5-64	64	168.00	173.00	50	20	5.143	5.017	£115.28	£103.69
SH2.5-65	65	170.63	175.63	50	20	5.303	5.177	£123.51	£110.74
SH2.5-66	66	173.25	178.25	50	20	5.466	5.340	£135.83	£114.30
SH2.5-68	68	178.50	183.50	50	20	5.799	5.673	£141.84	£118.03
SH2.5-70	70	183.75	188.75	50	20	6.142	6.016	£150.41	£125.03
SH2.5-71	71	186.38	191.38	50	20	6.317	6.191	£159.58	£132.95
SH2.5-72	72	189.00	194.00	50	20	6.495	6.368	£169.25	£141.08
SH2.5-73	73	191.63	196.63	50	20	6.675	6.549	£175.50	£146.22
SH2.5-74	74	194.25	199.25	50	20	6.857	6.731	£182.48	£152.00
SH2.5-75	75	196.88	201.88	50	20	7.043	6.917	£189.44	£157.82
SH2.5-76	76	199.50	204.50	50	20	7.230	7.104	£196.40	£163.61
SH2.5-78	78	204.75	209.75	50	20	7.613	7.487	£199.95	£166.63
SH2.5-80	80	210.00	215.00	50	20	8.005	7.879	£203.50	£169.57
SH2.5-86	86	225.75	230.75	50	20	9.243	9.117	£207.42	£172.79
SH2.5-90	90	236.25	241.25	50	20	10.117	9.991	£226.88	£189.03
SH2.5-96	96	252.00	257.00	50	20	11.504	11.378	£244.23	£203.50
SH2.5-98	98	257.25	262.25	50	20	11.986	11.860	£258.26	£215.22
SH2.5-100	100	262.50	267.50	50	20	12.478	12.352	£289.84	£241.54
SH2.5-105	105	275.63	280.63	50	20	13.752	13.626	£314.39	£261.95
SH2.5-110	110	288.75	293.75	50	20	15.087	14.961	£333.69	£278.07
SH2.5-115	115	301.88	306.88	100	20	16.936	16.359	£363.55	£302.93

Up to Ø750 mm

Please consult Technical for larger sizes.



# Helical Gears

Plastic - Parallel Axis

**2.5 MOD** 17°45' H.A.  
20° P.A.

Materials

STD : White Delrin  
(fully machined)

SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm		
variations at back	TORQUE Nm.	12.00

RH 17°45'

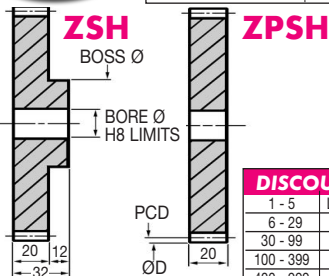


LH 17°45'

RH runs with LH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



## DISCOUNTS

	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	
ZSH2.5-9	9	26.25	31.25	30	10	0.113	0.071	£13.74	£10.43
ZSH2.5-10	10	26.25	31.25	30	10	0.113	0.071	£13.75	£10.44
ZSH2.5-11	11	28.88	33.88	30	10	0.140	0.088	£13.77	£10.45
ZSH2.5-12	12	31.50	36.50	30	12	0.132	0.102	£13.78	£10.46
ZSH2.5-13	13	34.13	39.13	30	12	0.159	0.123	£15.93	£12.16
ZSH2.5-14	14	36.75	41.75	30	12	0.188	0.145	£16.64	£12.75
ZSH2.5-15	15	39.38	44.38	30	12	0.202	0.169	£16.68	£13.57
ZSH2.5-16	16	42.00	47.00	30	12	0.234	0.195	£18.74	£14.35
ZSH2.5-17	17	44.63	49.63	30	12	0.266	0.222	£22.94	£17.61
ZSH2.5-18	18	47.25	52.25	30	12	0.301	0.251	£23.83	£18.23
ZSH2.5-19	19	49.88	54.88	30	12	0.338	0.282	£24.46	£18.74
ZSH2.5-20	20	52.50	57.50	30	12	0.376	0.314	£25.33	£19.07
ZSH2.5-21	21	55.13	60.13	30	12	0.417	0.348	£29.40	£22.55
ZSH2.5-22	22	57.75	62.75	30	12	0.460	0.384	£30.43	£23.31
ZSH2.5-23	23	60.38	65.38	30	12	0.505	0.421	£31.24	£23.92
ZSH2.5-24	24	63.00	68.00	30	12	0.552	0.460	£32.25	£24.66
ZSH2.5-25	25	65.63	70.63	30	12	0.580	0.500	£33.88	£25.97
ZSH2.5-26	26	68.25	73.25	30	12	0.597	0.543	£35.58	£27.30
ZSH2.5-27	27	70.88	75.88	30	12	0.641	0.587	£38.52	£29.54
ZSH2.5-28	28	73.50	78.50	35	15	0.694	0.622	£39.53	£30.34
ZSH2.5-29	29	76.13	81.13	35	15	0.742	0.670	£40.79	£31.29
ZSH2.5-30	30	78.75	83.75	35	15	0.791	0.718	£42.22	£32.33
ZSH2.5-31	31	81.38	86.38	35	15	0.841	0.769	£43.24	£33.17

24.34



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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
ZSH2.5-32	32	84.00	89.00	35	15	0.893	0.821	£49.72	£38.15
ZSH2.5-33	33	86.63	91.63	35	15	0.947	0.875	£50.34	£38.61
ZSH2.5-34	34	89.25	94.25	35	15	1.003	0.930	£51.57	£39.53
ZSH2.5-35	35	91.88	96.88	35	15	1.060	0.988	£52.74	£40.45
ZSH2.5-36	36	94.50	99.50	45	17	1.164	1.039	£55.52	£42.72
ZSH2.5-37	37	97.13	102.13	45	17	1.224	1.099	£56.34	£43.22
ZSH2.5-38	38	99.75	104.75	45	17	1.286	1.161	£57.94	£44.40
ZSH2.5-39	39	102.38	107.38	45	17	1.350	1.225	£58.65	£45.10
ZSH2.5-40	40	105.00	110.00	45	17	1.416	1.290	£60.21	£46.21
ZSH2.5-41	41	107.63	112.63	45	17	1.483	1.358	£61.66	£47.31
ZSH2.5-42	42	110.25	115.25	45	17	1.552	1.426	£62.62	£48.01
ZSH2.5-43	43	112.88	117.88	45	17	1.622	1.497	£63.27	£48.52
ZSH2.5-44	44	115.50	120.50	45	17	1.694	1.569	£70.39	£54.04
ZSH2.5-45	45	118.13	123.13	45	17	1.768	1.643	£71.35	£54.78
ZSH2.5-46	46	120.75	125.75	45	17	1.843	1.718	£73.00	£56.03
ZSH2.5-47	47	123.38	128.38	45	17	1.920	1.795	£74.42	£57.07
ZSH2.5-48	48	126.00	131.00	45	17	1.999	1.874	£76.42	£58.63
ZSH2.5-49	49	128.63	133.63	45	17	2.079	1.954	£78.47	£60.21
ZSH2.5-50	50	131.25	136.25	45	17	2.161	2.036	£80.64	£61.86
ZSH2.5-51	51	133.88	138.88	45	17	2.245	2.120	£81.32	£62.39
ZSH2.5-52	52	136.50	141.50	45	17	2.330	2.205	£81.33	£62.42
ZSH2.5-53	53	139.13	144.13	45	17	2.417	2.292	£90.84	£69.73
ZSH2.5-54	54	141.75	146.75	45	17	2.506	2.380	£91.84	£72.86
ZSH2.5-55	55	144.38	149.38	45	17	2.596	2.471	£100.52	£77.24
ZSH2.5-56	56	147.00	152.00	45	17	2.688	2.563	£102.48	£78.59
ZSH2.5-57	57	149.63	154.63	60	20	2.874	2.643	£104.36	£80.05
ZSH2.5-58	58	152.25	157.25	60	20	2.969	2.738	£116.44	£90.37
ZSH2.5-59	59	154.88	159.88	60	20	3.066	2.835	£118.61	£90.78
ZSH2.5-60	60	157.50	162.50	60	20	3.164	2.934	£133.86	£102.81
ZSH2.5-62	62	162.75	167.75	60	20	3.367	3.136	£151.29	£116.03
ZSH2.5-64	64	168.00	173.00	60	20	3.575	3.344	£162.03	£124.40
ZSH2.5-65	65	170.63	175.63	60	20	3.682	3.451	£178.21	£136.69
ZSH2.5-66	66	173.25	178.25	60	20	3.791	3.560	£186.05	£142.76
ZSH2.5-68	68	178.50	183.50	60	20	4.013	3.782	£197.39	£151.29
ZSH2.5-70	70	183.75	188.75	60	20	4.241	4.010	£209.35	£160.62
ZSH2.5-71	71	186.38	191.38	60	20	4.358	4.127	£221.99	£170.35
ZSH2.5-72	72	189.00	194.00	60	20	4.476	4.246	£230.24	£176.66
ZSH2.5-73	73	191.63	196.63	60	20	4.597	4.366	£276.18	£211.94
ZSH2.5-74	74	194.25	199.25	60	20	4.718	4.487	£286.81	£220.20
ZSH2.5-75	75	196.88	201.88	60	20	4.842	4.611	£297.33	£229.63

**Up to Ø750 mm**

**'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.*

