

Helical Gears

Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

1 MOD

17°45'H.A. ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A.

SPECIAL TEETH : between 9 - 150

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	4.23	16.74	2.12	1.51
	K.W.	0.44	1.75	0.22	0.15



RH 17°45'

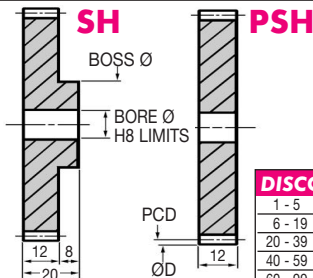


LH 17°45'

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	
SH1-9	9	10.50	12.50	12	6	0.011	0.005	£10.62	£9.94
SH1-10	10	10.50	12.50	12	6	0.011	0.005	£10.65	£9.95
SH1-11	11	11.55	13.55	12	6	0.012	0.007	£10.68	£9.96
SH1-12	12	12.60	14.60	12	6	0.014	0.009	£10.70	£9.97
SH1-13	13	13.65	15.65	12	6	0.016	0.011	£10.80	£10.24
SH1-14	14	14.70	16.70	12	6	0.018	0.013	£10.99	£10.43
SH1-15	15	15.75	17.75	12	6	0.020	0.015	£11.28	£10.75
SH1-16	16	16.80	18.80	15	8	0.023	0.016	£11.47	£10.94
SH1-17	17	17.85	19.85	15	8	0.026	0.018	£11.65	£11.20
SH1-18	18	18.90	20.90	15	8	0.029	0.021	£11.85	£11.47
SH1-19	19	19.95	21.95	15	8	0.032	0.024	£12.09	£11.66
SH1-20	20	21.00	23.00	15	8	0.035	0.027	£12.44	£11.89
SH1-21	21	22.05	24.05	15	8	0.038	0.030	£12.56	£12.15
SH1-22	22	23.10	25.10	15	8	0.042	0.034	£12.69	£12.34
SH1-23	23	24.15	26.15	15	8	0.045	0.037	£12.77	£12.56
SH1-24	24	25.20	27.20	15	8	0.049	0.041	£12.84	£12.83
SH1-25	25	26.25	28.25	15	8	0.053	0.045	£13.37	£13.03
SH1-26	26	27.30	29.30	15	8	0.057	0.049	£13.92	£13.27
SH1-27	27	28.35	30.35	15	8	0.061	0.053	£14.15	£13.48
SH1-28	28	29.40	31.40	15	8	0.065	0.058	£14.46	£13.75
SH1-29	29	30.45	32.45	15	8	0.070	0.062	£14.82	£13.96
SH1-30	30	31.50	33.50	20	8	0.083	0.067	£15.12	£14.20
SH1-31	31	32.55	34.55	20	8	0.088	0.072	£15.33	£14.33

Helical Gears Parallel Axis Steel MOD 1

24.16



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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
SH1-32	32	33.60	35.50	20	8	0.093	0.077	£15.45	£14.46
SH1-33	33	34.65	36.65	20	8	0.098	0.082	£15.65	£14.65
SH1-34	34	35.70	37.70	20	8	0.103	0.087	£15.83	£14.73
SH1-35	35	36.75	38.75	20	8	0.109	0.093	£15.97	£14.96
SH1-36	36	37.80	39.80	20	8	0.115	0.098	£16.19	£15.12
SH1-37	37	38.85	40.85	20	8	0.120	0.104	£16.38	£15.23
SH1-38	38	39.90	41.90	20	8	0.126	0.110	£16.68	£15.39
SH1-39	39	40.95	42.95	20	8	0.132	0.116	£16.94	£15.49
SH1-40	40	42.00	44.00	20	8	0.139	0.123	£17.28	£15.76
SH1-41	41	43.05	45.05	20	8	0.145	0.129	£17.31	£15.87
SH1-42	42	44.10	46.10	20	8	0.152	0.136	£17.37	£15.97
SH1-43	43	45.15	47.15	20	8	0.159	0.142	£17.44	£16.17
SH1-44	44	46.20	48.20	20	8	0.165	0.149	£17.51	£16.27
SH1-45	45	47.25	49.25	20	8	0.173	0.156	£17.62	£16.48
SH1-46	46	48.30	50.30	20	8	0.180	0.164	£17.67	£16.65
SH1-47	47	49.35	51.35	20	8	0.187	0.171	£17.77	£16.77
SH1-48	48	50.40	52.40	30	8	0.219	0.179	£17.81	£16.92
SH1-49	49	51.45	53.45	30	8	0.226	0.186	£18.71	£17.13
SH1-50	50	52.50	54.50	30	10	0.230	0.192	£19.62	£17.28
SH1-51	51	53.55	55.55	30	10	0.238	0.200	£19.93	£17.38
SH1-52	52	54.60	56.60	30	10	0.246	0.208	£20.20	£17.65
SH1-53	53	55.65	57.65	30	10	0.255	0.216	£20.46	£17.87
SH1-54	54	56.70	58.70	30	10	0.263	0.225	£20.70	£18.09
SH1-55	55	57.75	59.75	30	10	0.272	0.233	£21.07	£18.23
SH1-56	56	58.80	60.80	30	10	0.281	0.242	£21.09	£18.40
SH1-57	57	59.85	61.85	30	10	0.290	0.251	£21.38	£18.67
SH1-58	58	60.90	62.90	30	10	0.299	0.260	£21.70	£18.79
SH1-59	59	61.95	63.95	30	10	0.308	0.270	£21.96	£19.04
SH1-60	60	63.00	65.00	30	10	0.317	0.279	£22.26	£19.21
SH1-61	61	64.05	66.05	30	10	0.327	0.289	£22.55	£19.41
SH1-62	62	65.10	67.10	30	10	0.337	0.298	£22.94	£19.62
SH1-63	63	66.15	68.15	30	10	0.347	0.308	£23.60	£19.77
SH1-64	64	67.20	69.20	30	10	0.357	0.318	£24.07	£20.08
SH1-65	65	68.25	70.25	30	10	0.367	0.329	£24.61	£20.20
SH1-66	66	69.30	71.30	30	10	0.378	0.339	£25.12	£20.42
SH1-68	68	71.40	73.40	30	10	0.399	0.360	£25.81	£20.61
SH1-70	70	73.50	75.50	30	10	0.421	0.382	£26.33	£20.82
SH1-72	72	75.60	77.60	30	10	0.443	0.405	£26.90	£21.07
SH1-73	73	76.65	78.65	30	10	0.455	0.417	£27.68	£21.32
SH1-74	74	77.70	79.70	30	10	0.467	0.428	£28.37	£21.59
SH1-76	76	79.80	81.80	30	10	0.491	0.452	£28.76	£21.84
SH1-78	78	81.90	83.90	30	10	0.515	0.477	£29.26	£22.11
SH1-80	80	84.00	86.00	30	10	0.540	0.502	£29.79	£22.38
SH1-84	84	88.20	90.20	30	10	0.592	0.554	£30.22	£22.66
SH1-88	88	92.40	94.40	30	10	0.647	0.609	£30.85	£23.60
SH1-90	90	94.50	96.50	30	10	0.675	0.637	£31.82	£24.89
SH1-96	96	100.80	102.80	30	10	0.764	0.726	£35.26	£26.47
SH1-100	100	105.00	107.00	30	10	0.826	0.788	£35.71	£29.79
SH1-112	112	117.60	119.60	30	10	1.029	0.990	£41.09	£34.03
SH1-120	120	126.00	128.00	40	12	1.176	1.138	£50.59	£42.20
SH1-130	130	136.50	138.50	40	12	1.375	1.337	£54.27	£47.90
SH1-150	150	157.50	159.50	40	15	1.820	1.782	£67.31	£56.07

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

STD : White Delrin
(fully machined)

1 MOD

17°45' H.A.
20° P.A.

SPECIAL TEETH : between 9 - 120

SPECIALS
ON DEMAND

TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 1.00



RH 17°45'

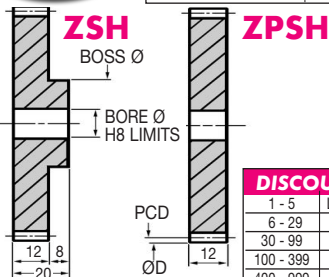


LH 17°45'

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	
ZSH1-9	9	10.50	12.50	12.50	4	0.015	0.007	£5.27	£4.03
ZSH1-10	10	10.50	12.50	12.50	4	0.015	0.007	£5.29	£4.04
ZSH1-11	11	11.55	13.55	13.55	4	0.017	0.008	£5.30	£4.07
ZSH1-12	12	12.60	14.60	14.00	4	0.019	0.010	£5.33	£4.08
ZSH1-13	13	13.65	15.65	15.00	4	0.022	0.012	£5.46	£4.14
ZSH1-14	14	14.70	16.70	15.00	4	0.024	0.014	£5.52	£4.21
ZSH1-15	15	15.75	17.75	15.00	4	0.027	0.017	£5.58	£4.28
ZSH1-16	16	16.80	18.80	15.00	6	0.027	0.018	£5.73	£4.35
ZSH1-17	17	17.85	19.85	15.00	6	0.029	0.020	£5.81	£4.44
ZSH1-18	18	18.90	20.90	15.00	6	0.032	0.023	£5.90	£4.56
ZSH1-19	19	19.95	21.95	15.00	6	0.035	0.026	£6.06	£4.59
ZSH1-20	20	21.00	23.00	15.00	6	0.038	0.029	£6.20	£4.75
ZSH1-21	21	22.05	24.05	18.00	6	0.046	0.032	£6.30	£4.79
ZSH1-22	22	23.10	25.10	18.00	6	0.050	0.036	£6.32	£4.83
ZSH1-23	23	24.15	26.15	18.00	6	0.053	0.039	£6.38	£4.85
ZSH1-24	24	25.20	27.20	18.00	6	0.057	0.043	£6.40	£4.85
ZSH1-25	25	26.25	28.25	18.00	6	0.061	0.047	£6.68	£5.09
ZSH1-26	26	27.30	29.30	18.00	6	0.065	0.051	£7.64	£5.83
ZSH1-27	27	28.35	30.35	18.00	6	0.069	0.055	£7.82	£5.95
ZSH1-28	28	29.40	31.40	18.00	6	0.074	0.060	£7.99	£6.14
ZSH1-29	29	30.45	32.45	18.00	6	0.078	0.064	£8.18	£6.30
ZSH1-30	30	31.50	33.50	18.00	6	0.083	0.069	£8.35	£6.38
ZSH1-31	31	32.55	34.55	18.00	6	0.088	0.074	£8.45	£6.44

24.18



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Helical Gears Parallel Axis Plastic MOD 1

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZSH	ZPSH	ZSH	ZPSH
ZSH1-32	32	33.60	35.50	18	6	0.093	0.079	£8.53	£6.50
ZSH1-33	33	34.65	36.65	18	6	0.098	0.084	£8.62	£6.65
ZSH1-34	34	35.70	37.70	18	6	0.103	0.089	£8.73	£6.68
ZSH1-35	35	36.75	38.75	18	6	0.109	0.095	£8.84	£6.75
ZSH1-36	36	37.80	39.80	18	6	0.114	0.100	£8.93	£6.77
ZSH1-37	37	38.85	40.85	18	6	0.120	0.106	£9.04	£6.95
ZSH1-38	38	39.90	41.90	18	6	0.126	0.112	£10.46	£8.02
ZSH1-39	39	40.95	42.95	18	6	0.132	0.118	£10.65	£8.12
ZSH1-40	40	42.00	44.00	18	6	0.138	0.125	£10.82	£8.29
ZSH1-41	41	43.05	45.05	18	6	0.145	0.131	£10.87	£8.32
ZSH1-42	42	44.10	46.10	18	6	0.152	0.138	£10.94	£8.35
ZSH1-43	43	45.15	47.15	18	6	0.158	0.144	£10.97	£8.38
ZSH1-44	44	46.20	48.20	18	6	0.165	0.151	£10.99	£8.45
ZSH1-45	45	47.25	49.25	18	6	0.172	0.158	£11.10	£8.46
ZSH1-46	46	48.30	50.30	18	6	0.179	0.166	£11.12	£8.47
ZSH1-47	47	49.35	51.35	22	8	0.191	0.171	£11.15	£8.53
ZSH1-48	48	50.40	52.40	22	8	0.199	0.179	£11.18	£8.59
ZSH1-49	49	51.45	53.45	22	8	0.206	0.186	£11.76	£8.96
ZSH1-50	50	52.50	54.50	22	8	0.214	0.194	£12.34	£9.47
ZSH1-51	51	53.55	55.55	22	8	0.222	0.202	£12.52	£9.60
ZSH1-52	52	54.60	56.60	22	8	0.231	0.210	£12.68	£9.68
ZSH1-53	53	55.65	57.65	22	8	0.239	0.219	£12.83	£9.86
ZSH1-54	54	56.70	58.70	22	8	0.247	0.227	£13.04	£9.95
ZSH1-55	55	57.75	59.75	22	8	0.256	0.236	£13.26	£10.12
ZSH1-56	56	58.80	60.80	22	8	0.265	0.245	£13.27	£10.15
ZSH1-57	57	59.85	61.85	22	8	0.274	0.254	£16.18	£12.39
ZSH1-58	58	60.90	62.90	22	8	0.283	0.263	£16.42	£12.52
ZSH1-59	59	61.95	63.95	22	8	0.292	0.272	£16.56	£12.68
ZSH1-60	60	63.00	65.00	22	8	0.302	0.282	£16.81	£12.89
ZSH1-61	61	64.05	66.05	22	8	0.311	0.291	£17.02	£13.04
ZSH1-62	62	65.10	67.10	22	8	0.321	0.301	£17.34	£13.30
ZSH1-63	63	66.15	68.15	22	8	0.331	0.311	£17.87	£13.64
ZSH1-64	64	67.20	69.20	22	8	0.341	0.321	£18.18	£13.95
ZSH1-65	65	68.25	70.25	22	8	0.352	0.331	£18.61	£14.27
ZSH1-66	66	69.30	71.30	22	8	0.362	0.342	£19.00	£14.61
ZSH1-68	68	71.40	73.40	22	8	0.383	0.363	£19.54	£14.97
ZSH1-70	70	73.50	75.50	22	8	0.405	0.385	£22.57	£15.77
ZSH1-72	72	75.60	77.60	22	8	0.428	0.408	£23.07	£16.29
ZSH1-73	73	76.65	78.65	22	8	0.439	0.419	£23.68	£18.18
ZSH1-74	74	77.70	79.70	22	8	0.451	0.431	£24.26	£18.61
ZSH1-76	76	79.80	81.80	22	8	0.475	0.455	£24.66	£18.94
ZSH1-78	78	81.90	83.90	26	8	0.509	0.479	£25.03	£19.20
ZSH1-80	80	84.00	86.00	26	8	0.534	0.504	£26.56	£20.25
ZSH1-84	84	88.20	90.20	26	8	0.586	0.556	£27.42	£21.01
ZSH1-88	88	92.40	94.40	26	8	0.641	0.611	£27.99	£21.48
ZSH1-90	90	94.50	96.50	26	8	0.669	0.639	£32.10	£24.61
ZSH1-96	96	100.80	102.80	26	10	0.758	0.728	£39.91	£32.37
ZSH1-100	100	105.00	107.00	26	10	0.820	0.791	£47.71	£40.22
ZSH1-112	112	117.60	119.60	26	10	1.022	0.993	£59.75	£52.29
ZSH1-120	120	126.00	128.00	30	12	1.170	1.140	£73.88	£66.39

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

