

Crossed Helical Gears Materials

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10

0.5 MOD 45° H.A. ALTERNATIVE : Brass, Tufnol or Delrin
20° P.A. SPECIAL TEEETH : between 10-250

TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	TORQUE Nm.	0.127	0.705	0.054	0.038
	K.W.	0.011	0.074	0.006	0.0037

Helical Gears Crossed Axis Steel MOD 0.5



RH 45°

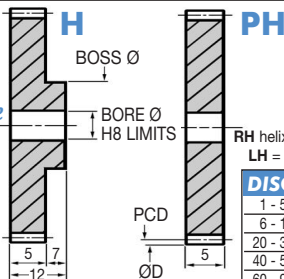


LH available
on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

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		
							H	PH	
H0.5-10	10	7.07	8.07	8.07	3	0.0036	0.0012	£10.54	£8.83
H0.5-11	11	7.78	8.78	8.50	3	0.0042	0.0015	£10.72	£9.18
H0.5-12	12	8.49	9.49	8.50	3	0.0046	0.0019	£10.79	£9.32
H0.5-13	13	9.19	10.19	8.50	4	0.0044	0.0021	£10.99	£9.55
H0.5-14	14	9.90	10.90	8.50	4	0.0048	0.0025	£11.20	£9.61
H0.5-15	15	10.61	11.61	8.50	4	0.0053	0.0029	£11.47	£9.72
H0.5-16	16	11.31	12.31	8.50	5	0.0051	0.0031	£11.59	£9.82
H0.5-17	17	12.02	13.02	10.00	5	0.0067	0.0036	£11.85	£9.84
H0.5-18	18	12.73	13.73	10.00	5	0.0073	0.0041	£12.04	£9.97
H0.5-19	19	13.44	14.44	10.00	5	0.0078	0.0047	£12.15	£10.02
H0.5-20	20	14.14	15.14	10.00	5	0.0084	0.0053	£12.34	£10.22
H0.5-21	21	14.85	15.85	10.00	5	0.0090	0.0059	£12.40	£10.24
H0.5-22	22	15.56	16.56	10.00	5	0.0097	0.0065	£12.69	£10.30
H0.5-23	23	16.26	17.26	10.00	5	0.0103	0.0072	£12.83	£10.42
H0.5-24	24	16.97	17.97	10.00	5	0.0111	0.0079	£13.00	£10.47
H0.5-25	25	17.68	18.68	10.00	5	0.0118	0.0086	£13.27	£10.65
H0.5-26	26	18.38	19.38	10.00	5	0.0126	0.0094	£13.40	£10.80
H0.5-27	27	19.09	20.09	10.00	5	0.0134	0.0102	£13.68	£10.95
H0.5-28	28	19.80	20.80	10.00	5	0.0142	0.0110	£13.82	£11.28
H0.5-29	29	20.51	21.51	10.00	5	0.0150	0.0119	£14.08	£11.35
H0.5-30	30	21.21	22.21	10.00	5	0.0159	0.0128	£14.25	£11.66
H0.5-31	31	21.92	22.92	10.00	5	0.0168	0.0137	£14.36	£11.81
H0.5-32	32	22.63	23.63	10.00	5	0.0178	0.0146	£14.67	£12.09

25.4



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PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						H	PH	H	PH
H0.5-33	33	23.33	24.33	10	5	0.0188	0.0156	£14.77	£12.15
H0.5-34	34	24.04	25.04	10	5	0.0198	0.0166	£15.07	£12.22
H0.5-35	35	24.75	25.75	10	5	0.0208	0.0177	£15.23	£12.40
H0.5-36	36	25.46	26.46	10	5	0.0219	0.0187	£15.38	£12.51
H0.5-37	37	26.16	27.16	10	5	0.0230	0.0198	£15.55	£12.75
H0.5-38	38	26.87	27.87	10	5	0.0241	0.0209	£15.65	£12.83
H0.5-39	39	27.58	28.58	10	5	0.0253	0.0221	£15.87	£13.03
H0.5-40	40	28.28	29.28	10	5	0.0264	0.0233	£15.95	£13.14
H0.5-41	41	28.99	29.99	10	5	0.0277	0.0245	£16.12	£13.27
H0.5-42	42	29.70	30.70	10	5	0.0289	0.0258	£16.35	£13.37
H0.5-43	43	30.41	31.41	10	5	0.0302	0.0270	£16.38	£13.59
H0.5-44	44	31.11	32.11	10	5	0.0315	0.0283	£16.60	£13.68
H0.5-45	45	31.82	32.82	10	5	0.0328	0.0297	£16.72	£13.93
H0.5-46	46	32.53	33.53	10	5	0.0342	0.0310	£16.93	£13.98
H0.5-47	47	33.23	34.23	10	5	0.0356	0.0324	£16.94	£14.02
H0.5-48	48	33.94	34.94	10	5	0.0370	0.0339	£16.95	£14.05
H0.5-49	49	34.65	35.65	10	5	0.0385	0.0353	£17.13	£14.13
H0.5-50	50	35.36	36.36	12	6	0.0410	0.0365	£17.29	£14.15
H0.5-51	51	36.06	37.06	12	6	0.0425	0.0380	£17.38	£14.20
H0.5-52	52	36.77	37.77	12	6	0.0441	0.0395	£17.43	£14.47
H0.5-53	53	37.48	38.48	12	6	0.0457	0.0411	£17.44	£14.50
H0.5-54	54	38.18	39.18	12	6	0.0473	0.0427	£17.65	£14.77
H0.5-55	55	38.89	39.89	12	6	0.0489	0.0444	£17.77	£15.06
H0.5-56	56	39.60	40.60	12	6	0.0506	0.0460	£17.81	£15.07
H0.5-57	57	40.31	41.31	12	6	0.0523	0.0477	£17.90	£15.42
H0.5-58	58	41.01	42.01	12	6	0.0540	0.0495	£17.94	£15.45
H0.5-59	59	41.72	42.72	12	6	0.0558	0.0512	£17.98	£15.47
H0.5-60	60	42.43	43.43	12	6	0.0576	0.0530	£18.17	£15.55
H0.5-61	61	43.13	44.13	12	6	0.0594	0.0548	£18.29	£15.57
H0.5-62	62	43.84	44.84	12	6	0.0612	0.0567	£18.30	£15.76
H0.5-63	63	44.55	45.55	12	6	0.0631	0.0586	£18.50	£15.90
H0.5-64	64	45.25	46.25	12	6	0.0650	0.0604	£18.68	£16.48
H0.5-65	65	45.96	46.96	12	6	0.0669	0.0624	£18.69	£16.49
H0.5-68	68	48.08	49.08	12	6	0.0729	0.0684	£18.76	£17.73
H0.5-70	70	49.50	50.50	12	6	0.0771	0.0725	£18.77	£17.76
H0.5-72	72	50.91	51.91	12	6	0.0813	0.0768	£22.68	£20.34
H0.5-75	75	53.03	54.03	12	6	0.0880	0.0834	£22.69	£20.35
H0.5-77	77	54.45	55.45	12	6	0.0926	0.0880	£22.71	£20.36
H0.5-80	80	56.57	57.57	12	6	0.0996	0.0951	£22.73	£20.37
H0.5-84	84	59.40	60.40	12	6	0.1095	0.1049	£22.74	£20.42
H0.5-86	86	60.81	61.81	12	6	0.1146	0.1100	£27.09	£21.60
H0.5-88	88	62.23	63.23	12	6	0.1198	0.1153	£27.13	£21.61
H0.5-90	90	63.64	64.64	12	6	0.1252	0.1206	£27.16	£21.62
H0.5-96	96	67.88	68.88	16	6	0.1466	0.1374	£27.18	£21.65
H0.5-100	100	70.71	71.71	16	6	0.1584	0.1492	£30.03	£23.88
H0.5-120	120	84.85	85.85	20	8	0.2245	0.2153	£33.41	£27.60
H0.5-140	140	98.99	99.99	20	8	0.3026	0.2934	£36.49	£31.99
H0.5-150	150	106.07	107.07	20	10	0.3463	0.3370	£39.79	£34.60
H0.5-180	180	127.28	128.28	20	10	0.4948	0.4856	£44.64	£38.08

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



Crossed Helical Gears Materials

Plastic Crossed Axis @ 90°

0.5 MOD

45° H.A.

20° P.A.

STD : White Delrin
(fully machined)

SPECIAL TEETH : between 10 - 120



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.03



RH 45°

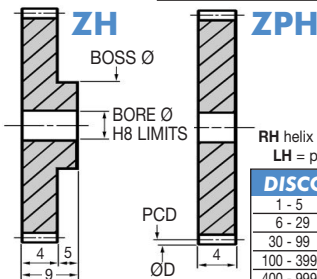


LH available on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



RH helix is standard.
LH = price + 33%.

DISCOUNTS

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

Helical Gears Crossed Axis Plastic MOD 0.5

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZH	ZPH	ZH	ZPH
ZH0.5-10	10	7.07	8.07	8.07	2	0.0007	0.0003	£5.48	£4.01
ZH0.5-11	11	7.78	8.78	8.78	2	0.0008	0.0003	£5.49	£4.08
ZH0.5-12	12	8.49	9.49	9.49	2	0.0009	0.0004	£5.50	£4.20
ZH0.5-13	13	9.19	10.19	10.00	3	0.0010	0.0005	£5.52	£4.21
ZH0.5-14	14	9.90	10.90	10.00	3	0.0011	0.0005	£5.58	£4.28
ZH0.5-15	15	10.61	11.61	10.00	3	0.0012	0.0006	£5.73	£4.35
ZH0.5-16	16	11.31	12.31	10.00	3	0.0013	0.0007	£5.81	£4.44
ZH0.5-17	17	12.02	13.02	10.00	3	0.0014	0.0008	£5.90	£4.51
ZH0.5-18	18	12.73	13.73	10.00	3	0.0015	0.0009	£6.04	£4.59
ZH0.5-19	19	13.44	14.44	10.00	3	0.0016	0.0010	£6.06	£4.62
ZH0.5-20	20	14.14	15.14	10.00	3	0.0017	0.0012	£6.15	£4.73
ZH0.5-21	21	14.85	15.85	10.00	3	0.0018	0.0013	£6.20	£4.75
ZH0.5-22	22	15.56	16.56	14.00	4	0.0025	0.0014	£6.38	£4.83
ZH0.5-23	23	16.26	17.26	14.00	4	0.0026	0.0015	£6.39	£4.85
ZH0.5-24	24	16.97	17.97	14.00	4	0.0027	0.0016	£6.51	£4.97
ZH0.5-25	25	17.68	18.68	14.00	4	0.0029	0.0018	£6.65	£5.06
ZH0.5-26	26	18.38	19.38	14.00	4	0.0030	0.0020	£6.72	£5.09
ZH0.5-27	27	19.09	20.09	14.00	4	0.0032	0.0021	£6.87	£5.25
ZH0.5-28	28	19.80	20.80	14.00	4	0.0034	0.0023	£6.95	£5.30
ZH0.5-29	29	20.51	21.51	14.00	4	0.0035	0.0025	£7.04	£5.33
ZH0.5-30	30	21.21	22.21	14.00	4	0.0037	0.0026	£7.09	£5.48
ZH0.5-31	31	21.92	22.92	14.00	4	0.0039	0.0028	£7.27	£5.52
ZH0.5-32	32	22.63	23.63	14.00	4	0.0041	0.0030	£7.36	£5.58

25.6



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PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZH	ZPH	ZH	ZPH
ZH0.5-33	33	23.33	24.33	14	4	0.0043	0.0032	£7.40	£5.67
ZH0.5-34	34	24.04	25.04	14	4	0.0045	0.0034	£7.63	£5.79
ZH0.5-35	35	24.75	25.75	14	4	0.0047	0.0036	£7.64	£5.82
ZH0.5-36	36	25.46	26.46	14	4	0.0049	0.0038	£7.72	£5.83
ZH0.5-37	37	26.16	27.16	14	4	0.0051	0.0041	£7.75	£5.95
ZH0.5-38	38	26.87	27.87	14	4	0.0054	0.0043	£7.82	£6.03
ZH0.5-39	39	27.58	28.58	14	4	0.0056	0.0045	£7.94	£6.06
ZH0.5-40	40	28.28	29.28	14	4	0.0058	0.0047	£7.99	£6.50
ZH0.5-41	41	28.99	29.99	14	4	0.0061	0.0050	£8.91	£6.75
ZH0.5-42	42	29.70	30.70	14	4	0.0063	0.0052	£9.03	£6.87
ZH0.5-43	43	30.41	31.41	14	4	0.0066	0.0055	£9.04	£6.95
ZH0.5-44	44	31.11	32.11	14	4	0.0069	0.0058	£9.18	£7.02
ZH0.5-45	45	31.82	32.82	14	4	0.0071	0.0060	£9.26	£7.04
ZH0.5-46	46	32.53	33.53	14	4	0.0074	0.0063	£9.30	£7.10
ZH0.5-47	47	33.23	34.23	14	4	0.0077	0.0066	£9.31	£7.12
ZH0.5-48	48	33.94	34.94	14	4	0.0080	0.0069	£9.32	£7.14
ZH0.5-49	49	34.65	35.65	14	4	0.0083	0.0072	£9.47	£7.27
ZH0.5-50	50	35.36	36.36	16	5	0.0088	0.0074	£9.55	£7.36
ZH0.5-51	51	36.06	37.06	16	5	0.0091	0.0077	£9.61	£7.37
ZH0.5-52	52	36.77	37.77	16	5	0.0094	0.0080	£9.62	£7.38
ZH0.5-53	53	37.48	38.48	16	5	0.0098	0.0084	£9.65	£7.39
ZH0.5-54	54	38.18	39.18	16	5	0.0101	0.0087	£9.76	£7.45
ZH0.5-55	55	38.89	39.89	16	5	0.0104	0.0090	£11.12	£8.54
ZH0.5-56	56	39.60	40.60	16	5	0.0108	0.0094	£11.15	£8.59
ZH0.5-57	57	40.31	41.31	16	5	0.0111	0.0097	£11.21	£8.60
ZH0.5-58	58	41.01	42.01	16	5	0.0114	0.0100	£11.25	£8.62
ZH0.5-59	59	41.72	42.72	16	5	0.0118	0.0104	£11.28	£8.63
ZH0.5-60	60	42.43	43.43	16	5	0.0122	0.0108	£11.47	£8.73
ZH0.5-61	61	43.13	44.13	16	5	0.0125	0.0111	£11.50	£8.78
ZH0.5-62	62	43.84	44.84	16	5	0.0129	0.0115	£11.51	£8.81
ZH0.5-63	63	44.55	45.55	16	5	0.0133	0.0119	£11.59	£8.91
ZH0.5-64	64	45.25	46.25	16	5	0.0137	0.0123	£11.70	£8.94
ZH0.5-65	65	45.96	46.96	16	5	0.0140	0.0126	£11.73	£8.96
ZH0.5-68	68	48.08	49.08	16	5	0.0153	0.0139	£14.20	£10.82
ZH0.5-70	70	49.50	50.50	16	5	0.0161	0.0147	£14.25	£10.87
ZH0.5-72	72	50.91	51.91	16	5	0.0170	0.0156	£17.13	£13.09
ZH0.5-75	75	53.03	54.03	16	5	0.0183	0.0169	£17.13	£13.09
ZH0.5-77	77	54.45	55.45	16	5	0.0192	0.0178	£17.15	£13.12
ZH0.5-80	80	56.57	57.57	16	5	0.0206	0.0192	£17.18	£13.13
ZH0.5-84	84	59.40	60.40	18	6	0.0230	0.0212	£19.42	£14.90
ZH0.5-86	86	60.81	61.81	18	6	0.0241	0.0223	£23.25	£17.81
ZH0.5-88	88	62.23	63.23	18	6	0.0251	0.0233	£23.26	£17.83
ZH0.5-90	90	63.64	64.64	18	6	0.0262	0.0244	£23.28	£17.87
ZH0.5-96	96	67.88	68.88	18	6	0.0296	0.0278	£23.30	£17.88
ZH0.5-100	100	70.71	71.71	18	6	0.0320	0.0301	£27.25	£20.90
ZH0.5-120	120	84.85	85.85	18	8	0.0453	0.0435	£30.34	£23.26

'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.