

# Crossed Helical Gears Materials

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

1.25 MOD 45° H.A. ALTERNATIVE : Brass, Tufnol or Delrin  
20° P.A. SPECIAL TEETH : between 9 - 140

TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back				
<b>TORQUE Nm.</b>	1.386	9.108	0.693	0.495
<b>K.W.</b>	0.145	0.954	0.072	0.052



RH 45°

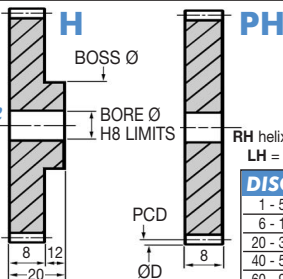


LH available  
on request.

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	
H1.25-9	9	17.68	20.18	15	6	0.027	0.013	£13.75	£11.15
H1.25-10	10	17.68	20.18	15	6	0.027	0.013	£14.27	£11.53
H1.25-11	11	19.45	21.95	15	6	0.030	0.016	£14.72	£12.22
H1.25-12	12	21.21	23.71	15	6	0.034	0.020	£15.12	£12.34
H1.25-13	13	22.98	25.48	15	6	0.037	0.024	£16.13	£12.50
H1.25-14	14	24.75	27.25	15	6	0.041	0.028	£16.29	£12.69
H1.25-15	15	26.52	29.02	15	6	0.046	0.032	£16.72	£13.00
H1.25-16	16	28.28	30.78	20	8	0.060	0.035	£16.94	£13.19
H1.25-17	17	30.05	32.55	20	8	0.065	0.040	£17.59	£13.40
H1.25-18	18	31.82	34.32	20	8	0.070	0.046	£17.80	£13.61
H1.25-19	19	33.59	36.09	20	8	0.075	0.051	£18.18	£13.75
H1.25-20	20	35.36	37.86	20	8	0.081	0.057	£19.46	£13.99
H1.25-21	21	37.12	39.62	20	8	0.087	0.063	£20.11	£14.13
H1.25-22	22	38.89	41.39	20	8	0.094	0.070	£20.95	£14.20
H1.25-23	23	40.66	43.16	20	8	0.101	0.076	£21.37	£14.46
H1.25-24	24	42.43	44.93	20	8	0.108	0.083	£21.65	£14.67
H1.25-25	25	44.19	46.69	20	8	0.115	0.091	£22.49	£15.02
H1.25-26	26	45.96	48.46	20	8	0.123	0.098	£22.66	£15.18
H1.25-27	27	47.73	50.23	20	8	0.131	0.106	£23.15	£15.41
H1.25-28	28	49.50	52.00	20	8	0.139	0.115	£23.31	£15.76
H1.25-29	29	51.27	53.77	20	8	0.148	0.123	£23.54	£15.90
H1.25-30	30	53.03	55.53	20	8	0.156	0.132	£23.67	£16.19
H1.25-31	31	54.80	57.30	20	8	0.166	0.141	£23.80	£16.27

Helical Gears Crossed Axis Steel MOD 1.25

25.18



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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
H1.25-32	32	56.57	59.07	20	8	0.175	0.151	£23.92	£16.56
H1.25-33	33	58.34	60.84	20	8	0.185	0.161	£24.10	£16.72
H1.25-34	34	60.10	62.60	20	8	0.195	0.171	£24.70	£16.92
H1.25-35	35	61.87	64.37	20	8	0.205	0.181	£24.89	£17.34
H1.25-36	36	63.64	66.14	20	8	0.216	0.192	£25.18	£17.59
H1.25-37	37	65.41	67.91	20	8	0.227	0.203	£25.62	£17.87
H1.25-38	38	67.18	69.68	20	8	0.238	0.214	£25.80	£17.98
H1.25-39	39	68.94	71.44	20	8	0.250	0.225	£27.13	£18.13
H1.25-40	40	70.71	73.21	25	10	0.273	0.236	£28.39	£18.30
H1.25-41	41	72.48	74.98	25	10	0.286	0.248	£28.50	£18.45
H1.25-42	42	74.25	76.75	25	10	0.298	0.260	£30.05	£18.79
H1.25-43	43	76.01	78.51	25	10	0.311	0.273	£30.34	£19.04
H1.25-44	44	77.78	80.28	25	10	0.324	0.286	£31.09	£19.73
H1.25-45	45	79.55	82.05	25	10	0.337	0.299	£31.42	£20.16
H1.25-46	46	81.32	83.82	25	10	0.351	0.313	£32.29	£20.73
H1.25-47	47	83.09	85.59	25	10	0.365	0.327	£33.04	£21.95
H1.25-48	48	84.85	87.35	25	10	0.379	0.341	£33.06	£21.96
H1.25-49	49	86.62	89.12	25	10	0.394	0.356	£33.63	£22.57
H1.25-50	50	88.39	90.89	25	10	0.409	0.371	£33.85	£25.62
H1.25-51	51	90.16	92.66	25	10	0.424	0.386	£33.99	£26.00
H1.25-52	52	91.92	94.42	25	10	0.439	0.401	£34.19	£26.55
H1.25-53	53	93.69	96.19	25	10	0.455	0.417	£34.77	£27.02
H1.25-54	54	95.46	97.96	25	10	0.471	0.433	£35.97	£27.32
H1.25-55	55	97.23	99.73	25	10	0.488	0.450	£35.98	£27.39
H1.25-56	56	98.99	101.49	25	10	0.504	0.466	£38.36	£27.87
H1.25-57	57	100.76	103.26	25	10	0.521	0.483	£38.61	£30.55
H1.25-58	58	102.53	105.03	25	10	0.538	0.501	£38.64	£31.21
H1.25-59	59	104.30	106.80	25	10	0.556	0.518	£38.65	£34.02
H1.25-60	60	106.07	108.57	25	10	0.574	0.536	£42.53	£37.06
H1.25-61	61	107.83	110.33	25	10	0.592	0.554	£42.54	£40.51
H1.25-62	62	109.60	112.10	25	10	0.611	0.573	£42.56	£41.18
H1.25-63	63	111.37	113.87	25	10	0.629	0.592	£42.92	£41.22
H1.25-64	64	113.14	115.64	25	10	0.649	0.611	£49.36	£41.34
H1.25-65	65	114.90	117.40	25	10	0.668	0.630	£49.37	£41.36
H1.25-66	66	116.67	119.17	25	10	0.688	0.650	£49.39	£42.20
H1.25-68	68	120.21	122.71	25	12	0.728	0.690	£50.16	£42.78
H1.25-70	70	123.74	126.24	25	12	0.769	0.731	£50.19	£43.00
H1.25-72	72	127.28	129.78	25	12	0.813	0.775	£55.52	£44.29
H1.25-73	73	129.05	131.55	25	12	0.834	0.796	£56.32	£45.25
H1.25-74	74	130.81	133.31	25	12	0.856	0.818	£56.91	£47.60
H1.25-76	76	134.35	136.85	25	12	0.901	0.863	£58.58	£49.44
H1.25-78	78	137.89	140.39	25	12	0.947	0.909	£58.59	£50.58
H1.25-80	80	141.42	143.92	25	12	0.995	0.957	£59.41	£52.23
H1.25-84	84	148.49	150.99	30	15	1.093	1.055	£61.84	£56.13
H1.25-88	88	155.56	158.06	30	15	1.197	1.159	£66.24	£63.80
H1.25-90	90	159.10	161.60	30	15	1.250	1.212	£66.48	£63.82
H1.25-96	96	169.71	172.21	30	15	1.418	1.380	£71.56	£67.13
H1.25-100	100	176.78	179.28	30	15	1.536	1.498	£76.68	£68.95
H1.25-112	112	197.99	200.49	40	20	1.918	1.880	£85.97	£74.37

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°

STD : White Delrin

(fully machined)

1.25 MOD 45° H.A.

20° P.A.

SPECIAL TEETH : between 9 - 90



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.40



RH 45°

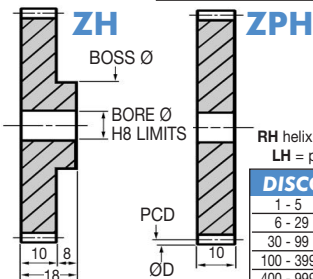


LH available on request.

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%

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZH	ZPH	ZH	ZPH
ZH1.25-9	9	17.68	20.18	15	5	0.0051	0.0035	£6.87	£5.25
ZH1.25-10	10	17.68	20.18	15	5	0.0051	0.0035	£7.09	£5.48
ZH1.25-11	11	19.45	21.95	15	6	0.0057	0.0041	£7.38	£5.58
ZH1.25-12	12	21.21	23.71	15	6	0.0065	0.0050	£7.63	£5.81
ZH1.25-13	13	22.98	25.48	16	6	0.0077	0.0060	£8.10	£6.15
ZH1.25-14	14	24.75	27.25	16	6	0.0088	0.0070	£8.18	£6.30
ZH1.25-15	15	26.52	29.02	18	6	0.0104	0.0081	£8.35	£6.38
ZH1.25-16	16	28.28	30.78	18	6	0.0116	0.0093	£9.32	£7.14
ZH1.25-17	17	30.05	32.55	18	6	0.0128	0.0105	£9.68	£7.40
ZH1.25-18	18	31.82	34.32	18	6	0.0142	0.0118	£9.82	£7.49
ZH1.25-19	19	33.59	36.09	18	6	0.0156	0.0132	£10.04	£7.70
ZH1.25-20	20	35.36	37.86	18	6	0.0170	0.0147	£10.76	£8.20
ZH1.25-21	21	37.12	39.62	18	6	0.0186	0.0163	£12.66	£9.68
ZH1.25-22	22	38.89	41.39	18	6	0.0202	0.0179	£13.18	£10.30
ZH1.25-23	23	40.66	43.16	18	6	0.0219	0.0196	£13.37	£10.36
ZH1.25-24	24	42.43	44.93	18	6	0.0237	0.0214	£13.61	£10.42
ZH1.25-25	25	44.19	46.69	18	6	0.0256	0.0232	£14.02	£10.73
ZH1.25-26	26	45.96	48.46	18	6	0.0275	0.0252	£14.25	£10.81
ZH1.25-27	27	47.73	50.23	18	6	0.0295	0.0272	£17.51	£13.39
ZH1.25-28	28	49.50	52.00	22	8	0.0323	0.0289	£17.62	£13.49
ZH1.25-29	29	51.27	53.77	22	8	0.0345	0.0311	£17.80	£13.64
ZH1.25-30	30	53.03	55.53	22	8	0.0367	0.0333	£17.88	£13.68
ZH1.25-31	31	54.80	57.30	22	8	0.0390	0.0356	£17.98	£13.75

Helical Gears Crossed Axis Plastic MOD 1.25

25.20



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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
ZH1.25-32	32	56.57	59.07	22	8	0.0414	0.0380	£18.10	£13.92
ZH1.25-33	33	58.34	60.84	22	8	0.0439	0.0405	£20.66	£15.83
ZH1.25-34	34	60.10	62.60	22	8	0.0464	0.0430	£21.17	£16.22
ZH1.25-35	35	61.87	64.37	22	8	0.0490	0.0456	£21.36	£16.42
ZH1.25-36	36	63.64	66.14	22	8	0.0517	0.0483	£21.60	£16.55
ZH1.25-37	37	65.41	67.91	22	8	0.0545	0.0511	£21.96	£16.81
ZH1.25-38	38	67.18	69.68	22	8	0.0573	0.0539	£22.06	£16.93
ZH1.25-39	39	68.94	71.44	26	10	0.0610	0.0564	£23.26	£18.66
ZH1.25-40	40	70.71	73.21	26	10	0.0640	0.0594	£24.31	£19.81
ZH1.25-41	41	72.48	74.98	26	10	0.0671	0.0625	£25.86	£20.91
ZH1.25-42	42	74.25	76.75	26	10	0.0703	0.0656	£27.30	£21.09
ZH1.25-43	43	76.01	78.51	26	10	0.0735	0.0688	£27.57	£21.65
ZH1.25-44	44	77.78	80.28	26	10	0.0768	0.0721	£28.23	£21.91
ZH1.25-45	45	79.55	82.05	26	10	0.0801	0.0755	£28.50	£22.44
ZH1.25-46	46	81.32	83.82	26	10	0.0836	0.0789	£29.28	£22.99
ZH1.25-47	47	83.09	85.59	26	10	0.0871	0.0825	£30.00	£22.99
ZH1.25-48	48	84.85	87.35	26	10	0.0907	0.0860	£30.04	£23.42
ZH1.25-49	49	86.62	89.12	26	10	0.0944	0.0897	£30.53	£26.16
ZH1.25-50	50	88.39	90.89	26	10	0.0981	0.0935	£34.17	£26.31
ZH1.25-51	51	90.16	92.66	26	10	0.1020	0.0973	£34.33	£26.90
ZH1.25-52	52	91.92	94.42	26	10	0.1058	0.1012	£35.08	£27.88
ZH1.25-53	53	93.69	96.19	26	10	0.1098	0.1052	£36.34	£30.61
ZH1.25-54	54	95.46	97.96	26	10	0.1139	0.1092	£39.96	£32.63
ZH1.25-55	55	97.23	99.73	26	10	0.1180	0.1134	£42.60	£32.91
ZH1.25-56	56	98.99	101.49	26	10	0.1222	0.1176	£42.97	£32.97
ZH1.25-57	57	100.76	103.26	30	10	0.1283	0.1218	£42.99	£36.22
ZH1.25-58	58	102.53	105.03	30	10	0.1327	0.1262	£43.00	£36.23
ZH1.25-59	59	104.30	106.80	30	10	0.1371	0.1306	£47.25	£36.24
ZH1.25-60	60	106.07	108.57	30	10	0.1416	0.1351	£47.27	£36.55
ZH1.25-61	61	107.83	110.33	30	10	0.1462	0.1397	£47.29	£42.04
ZH1.25-62	62	109.60	112.10	30	10	0.1508	0.1444	£47.67	£45.92
ZH1.25-63	63	111.37	113.87	30	10	0.1556	0.1491	£54.78	£46.58
ZH1.25-64	64	113.14	115.64	30	10	0.1604	0.1539	£54.80	£46.59
ZH1.25-65	65	114.90	117.40	30	10	0.1653	0.1588	£59.79	£51.63
ZH1.25-66	66	116.67	119.17	30	10	0.1702	0.1638	£60.74	£51.93
ZH1.25-68	68	120.21	122.71	30	10	0.1804	0.1739	£60.75	£52.10
ZH1.25-70	70	123.74	126.24	30	10	0.1908	0.1844	£67.25	£52.23
ZH1.25-72	72	127.28	129.78	30	10	0.2019	0.1954	£68.51	£52.31
ZH1.25-74	74	130.81	133.31	30	10	0.2126	0.2062	£77.84	£61.66
ZH1.25-78	78	137.89	140.39	30	10	0.2357	0.2292	£91.13	£75.00
ZH1.25-84	84	148.49	150.99	30	15	0.2725	0.2660	£108.50	£92.35
ZH1.25-90	90	159.10	161.60	30	15	0.3120	0.3056	£129.71	£113.56

*'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.*

