

Crossed Helical Gears Materials

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

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

1 MOD

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.	0.747	4.908	0.373	0.267
	K.W.	0.078	0.514	0.039	0.028



RH 45°

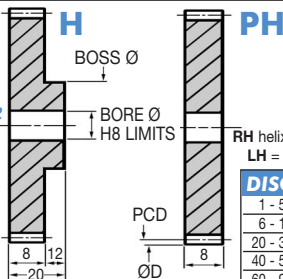


LH available
on request.

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	H	PH
H1-9	9	14.14	16.14	11	6	0.014	0.009	£10.30	£9.82
H1-10	10	14.14	16.14	11	6	0.014	0.009	£10.72	£10.32
H1-11	11	15.56	17.56	11	6	0.016	0.011	£10.96	£10.65
H1-12	12	16.97	18.97	14	6	0.024	0.014	£11.06	£10.87
H1-13	13	18.38	20.38	14	6	0.026	0.016	£11.49	£11.47
H1-14	14	19.80	21.80	15	6	0.031	0.019	£11.85	£11.84
H1-15	15	21.21	23.21	15	6	0.034	0.021	£12.09	£11.89
H1-16	16	22.63	24.63	15	6	0.037	0.024	£12.15	£11.91
H1-17	17	24.04	26.04	15	6	0.040	0.027	£12.75	£12.06
H1-18	18	25.46	27.46	15	6	0.043	0.031	£13.19	£12.23
H1-19	19	26.87	28.87	15	6	0.047	0.034	£13.46	£12.34
H1-20	20	28.28	30.28	15	6	0.050	0.038	£14.13	£12.56
H1-21	21	29.70	31.70	15	6	0.054	0.042	£14.36	£12.66
H1-22	22	31.11	33.11	15	6	0.058	0.046	£14.72	£12.78
H1-23	23	32.53	34.53	15	6	0.063	0.051	£14.90	£12.84
H1-24	24	33.94	35.94	20	8	0.077	0.055	£15.07	£12.95
H1-25	25	35.36	37.36	20	8	0.081	0.060	£15.41	£13.09
H1-26	26	36.77	38.77	20	8	0.086	0.065	£15.57	£13.14
H1-27	27	38.18	40.18	20	8	0.091	0.070	£16.17	£13.26
H1-28	28	39.60	41.60	20	8	0.097	0.075	£16.44	£13.37
H1-29	29	41.01	43.01	20	8	0.102	0.080	£16.56	£13.41
H1-30	30	42.43	44.43	20	8	0.108	0.086	£16.65	£13.61
H1-31	31	43.84	45.84	20	8	0.114	0.092	£16.72	£13.75

Helical Gears Crossed Axis Steel MOD 1

25.14



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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
H1-32	32	45.25	47.25	20	8	0.120	0.098	£16.83	£14.08
H1-33	33	46.67	48.67	20	8	0.126	0.104	£16.92	£14.33
H1-34	34	48.08	50.08	20	8	0.132	0.111	£17.80	£14.50
H1-35	35	49.50	51.50	20	8	0.139	0.117	£18.69	£14.90
H1-36	36	50.91	52.91	20	8	0.146	0.124	£18.98	£15.14
H1-37	37	52.33	54.33	20	8	0.153	0.131	£19.46	£15.61
H1-38	38	53.74	55.74	20	8	0.160	0.138	£19.72	£15.90
H1-39	39	55.15	57.15	20	8	0.167	0.146	£20.09	£16.29
H1-40	40	56.57	58.57	20	8	0.175	0.153	£20.42	£16.60
H1-41	41	57.98	59.98	20	8	0.183	0.161	£20.66	£16.83
H1-42	42	59.40	61.40	20	8	0.191	0.169	£21.15	£17.29
H1-43	43	60.81	62.81	20	8	0.199	0.177	£21.42	£17.62
H1-44	44	62.23	64.23	20	8	0.207	0.186	£22.45	£17.90
H1-45	45	63.64	65.64	20	8	0.216	0.194	£22.85	£18.13
H1-46	46	65.05	67.05	20	8	0.225	0.203	£23.88	£18.30
H1-47	47	66.47	68.47	20	8	0.234	0.212	£24.59	£18.84
H1-48	48	67.88	69.88	25	10	0.255	0.221	£24.61	£18.87
H1-49	49	69.30	71.30	25	10	0.264	0.230	£25.12	£19.13
H1-50	50	70.71	72.71	25	10	0.273	0.240	£25.66	£19.40
H1-51	51	72.12	74.12	25	10	0.283	0.250	£26.33	£19.41
H1-52	52	73.54	75.54	25	10	0.293	0.260	£27.02	£19.98
H1-53	53	74.95	76.95	25	10	0.303	0.270	£27.39	£20.42
H1-54	54	76.37	78.37	25	10	0.313	0.280	£27.74	£20.70
H1-55	55	77.78	79.78	25	10	0.324	0.290	£27.79	£20.73
H1-56	56	79.20	81.20	25	10	0.335	0.301	£28.37	£21.21
H1-57	57	80.61	82.61	25	10	0.345	0.312	£28.74	£23.00
H1-58	58	82.02	84.02	25	10	0.357	0.323	£28.75	£23.04
H1-59	59	83.44	85.44	25	10	0.368	0.334	£28.76	£23.06
H1-60	60	84.85	86.85	25	10	0.379	0.346	£29.35	£23.89
H1-61	61	86.27	88.27	25	10	0.391	0.357	£29.37	£23.91
H1-62	62	87.68	89.68	25	10	0.403	0.369	£29.38	£23.92
H1-63	63	89.10	91.10	25	10	0.415	0.381	£30.32	£25.12
H1-64	64	90.51	92.51	25	10	0.427	0.393	£33.55	£27.04
H1-65	65	91.92	93.92	25	10	0.439	0.406	£33.56	£27.05
H1-66	66	93.34	95.34	25	10	0.452	0.418	£33.58	£27.07
H1-68	68	96.17	98.17	25	10	0.478	0.444	£34.00	£29.37
H1-70	70	98.99	100.99	25	10	0.504	0.471	£34.02	£29.38
H1-72	72	101.82	103.82	25	10	0.532	0.498	£42.53	£35.30
H1-73	73	103.24	105.24	25	10	0.546	0.512	£42.54	£35.67
H1-74	74	104.65	106.65	25	10	0.556	0.522	£42.56	£35.98
H1-76	76	107.48	109.48	25	10	0.588	0.555	£42.58	£36.34
H1-78	78	110.31	112.31	25	10	0.618	0.585	£42.60	£37.34
H1-80	80	113.14	115.14	25	10	0.649	0.615	£48.17	£37.35
H1-84	84	118.79	120.79	30	12	0.712	0.678	£48.18	£41.13
H1-88	88	124.45	126.45	30	12	0.778	0.744	£54.61	£44.62
H1-90	90	127.28	129.28	30	12	0.812	0.778	£54.62	£46.17
H1-96	96	135.76	137.76	30	12	0.919	0.886	£64.06	£49.63
H1-100	100	141.42	143.42	30	12	0.995	0.961	£64.10	£53.48
H1-112	112	158.39	160.39	40	15	1.239	1.206	£70.87	£60.44
H1-120	120	169.71	171.71	40	15	1.418	1.384	£73.53	£63.11
H1-130	130	183.85	185.85	50	20	1.658	1.625	£80.67	£70.23
H1-150	150	212.13	214.13	50	20	2.197	2.163	£92.49	£81.97

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 MOD

45° H.A.

20° P.A.

SPECIAL TEETH : between 9 - 100



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.18



RH 45°

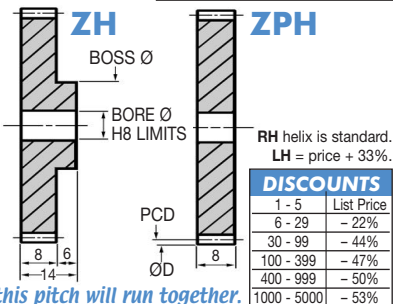


LH available on request.

RH 45°

RH runs with RH
Popular sizes in stock.

Any two part numbers of this pitch will run together.



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 1

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZH	ZPH	ZH	ZPH
ZH1-9	9	14.14	16.14	12	4	0.0033	0.0022	£5.19	£3.96
ZH1-10	10	14.14	16.14	12	4	0.0033	0.0022	£5.33	£4.08
ZH1-11	11	15.56	17.56	12	4	0.0038	0.0027	£5.48	£4.21
ZH1-12	12	16.97	18.97	15	6	0.0046	0.0031	£5.54	£4.24
ZH1-13	13	18.38	20.38	15	6	0.0052	0.0037	£5.72	£4.38
ZH1-14	14	19.80	21.80	15	6	0.0058	0.0043	£5.90	£4.57
ZH1-15	15	21.21	23.21	18	6	0.0073	0.0050	£6.04	£4.61
ZH1-16	16	22.63	24.63	18	6	0.0081	0.0058	£6.06	£4.62
ZH1-17	17	24.04	26.04	18	6	0.0089	0.0066	£6.38	£4.83
ZH1-18	18	25.46	27.46	18	6	0.0097	0.0074	£6.65	£5.06
ZH1-19	19	26.87	28.87	18	6	0.0106	0.0083	£6.72	£5.19
ZH1-20	20	28.28	30.28	18	6	0.0116	0.0093	£7.74	£5.95
ZH1-21	21	29.70	31.70	18	6	0.0126	0.0103	£7.75	£6.06
ZH1-22	22	31.11	33.11	18	6	0.0136	0.0113	£8.12	£6.15
ZH1-23	23	32.53	34.53	18	6	0.0147	0.0124	£8.20	£6.30
ZH1-24	24	33.94	35.94	18	6	0.0159	0.0135	£8.35	£6.38
ZH1-25	25	35.36	37.36	18	6	0.0170	0.0147	£8.50	£6.51
ZH1-26	26	36.77	38.77	18	6	0.0183	0.0160	£8.59	£6.61
ZH1-27	27	38.18	40.18	18	6	0.0196	0.0172	£10.15	£7.75
ZH1-28	28	39.60	41.60	18	6	0.0209	0.0186	£10.30	£7.87
ZH1-29	29	41.01	43.01	18	6	0.0223	0.0199	£10.42	£7.99
ZH1-30	30	42.43	44.43	18	6	0.0237	0.0214	£10.47	£8.01
ZH1-31	31	43.84	45.84	18	6	0.0252	0.0229	£10.50	£8.02

25.16



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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
ZH1-32	32	45.25	47.25	18	6	0.0267	0.0244	£10.54	£8.10
ZH1-33	33	46.67	48.67	18	6	0.0283	0.0260	£10.62	£8.12
ZH1-34	34	48.08	50.08	18	6	0.0299	0.0276	£13.41	£10.30
ZH1-35	35	49.50	51.50	18	6	0.0316	0.0293	£14.08	£10.79
ZH1-36	36	50.91	52.91	22	8	0.0340	0.0306	£14.29	£10.97
ZH1-37	37	52.33	54.33	22	8	0.0358	0.0324	£14.36	£11.28
ZH1-38	38	53.74	55.74	22	8	0.0376	0.0342	£14.72	£11.47
ZH1-39	39	55.15	57.15	22	8	0.0395	0.0361	£15.18	£11.59
ZH1-40	40	56.57	58.57	22	8	0.0414	0.0380	£15.42	£11.76
ZH1-41	41	57.98	59.98	22	8	0.0434	0.0400	£15.60	£11.96
ZH1-42	42	59.40	61.40	22	8	0.0454	0.0420	£18.13	£13.93
ZH1-43	43	60.81	62.81	22	8	0.0474	0.0440	£18.40	£14.08
ZH1-44	44	62.23	64.23	22	8	0.0496	0.0462	£19.25	£14.74
ZH1-45	45	63.64	65.64	22	8	0.0517	0.0483	£19.60	£15.00
ZH1-46	46	65.05	67.05	22	8	0.0539	0.0505	£20.47	£15.68
ZH1-47	47	66.47	68.47	22	8	0.0562	0.0528	£21.08	£16.17
ZH1-48	48	67.88	69.88	22	8	0.0585	0.0551	£21.09	£16.18
ZH1-49	49	69.30	71.30	22	8	0.0608	0.0574	£21.52	£16.55
ZH1-50	50	70.71	72.71	22	8	0.0632	0.0598	£21.98	£16.81
ZH1-51	51	72.12	74.12	22	8	0.0657	0.0623	£22.66	£17.28
ZH1-52	52	73.54	75.54	22	8	0.0682	0.0648	£23.56	£18.79
ZH1-53	53	74.95	76.95	22	8	0.0707	0.0673	£23.74	£19.04
ZH1-54	54	76.37	78.37	22	8	0.0733	0.0699	£23.80	£19.25
ZH1-55	55	77.78	79.78	22	8	0.0759	0.0725	£23.81	£19.54
ZH1-56	56	79.20	81.20	22	8	0.0786	0.0752	£25.74	£19.71
ZH1-57	57	80.61	82.61	22	8	0.0814	0.0780	£26.09	£19.97
ZH1-58	58	82.02	84.02	22	8	0.0842	0.0808	£26.10	£19.98
ZH1-59	59	83.44	85.44	22	8	0.0870	0.0836	£26.11	£20.00
ZH1-60	60	84.85	86.85	22	8	0.0899	0.0865	£26.66	£20.44
ZH1-61	61	86.27	88.27	22	8	0.0928	0.0894	£26.67	£20.46
ZH1-62	62	87.68	89.68	22	8	0.0958	0.0924	£26.68	£20.47
ZH1-63	63	89.10	91.10	22	8	0.0988	0.0954	£30.55	£23.45
ZH1-64	64	90.51	92.51	26	8	0.1035	0.0985	£33.86	£25.96
ZH1-65	65	91.92	93.92	26	8	0.1066	0.1016	£33.87	£25.97
ZH1-66	66	93.34	95.34	26	8	0.1098	0.1048	£33.88	£26.00
ZH1-68	68	96.17	98.17	26	8	0.1163	0.1113	£34.33	£26.33
ZH1-70	70	98.99	100.99	26	10	0.1229	0.1180	£37.76	£28.98
ZH1-72	72	101.82	103.82	26	10	0.1298	0.1249	£47.21	£36.19
ZH1-73	73	103.24	105.24	26	10	0.1334	0.1284	£47.24	£36.21
ZH1-74	74	104.65	106.65	26	10	0.1359	0.1310	£47.25	£36.22
ZH1-76	76	107.48	109.48	26	10	0.1442	0.1392	£47.27	£36.23
ZH1-78	78	110.31	112.31	26	10	0.1516	0.1467	£47.29	£36.24
ZH1-80	80	113.14	115.14	26	10	0.1593	0.1544	£53.45	£40.99
ZH1-84	84	118.79	120.79	30	12	0.1752	0.1703	£58.32	£44.73
ZH1-88	88	124.45	126.45	30	12	0.1919	0.1869	£66.14	£50.70
ZH1-90	90	127.28	129.28	30	12	0.2005	0.1956	£66.19	£50.75
ZH1-96	96	135.76	137.76	30	12	0.2276	0.2226	£78.12	£62.70
ZH1-100	100	141.42	143.42	30	12	0.2466	0.2416	£92.98	£77.58

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

