

Crossed Helical Gears Materials

Steel Crossed Axis @ 90° STD : Steel 214M15/045M10
1.5 MOD 45° H.A. ALTERNATIVE : Brass, Tufnol or Delrin
 20° P.A. SPECIAL TEETH : between 9- 120

TORQUE CHECK		214M15	214M15	Brass	Tufnol
50 teeth x 1000 rpm		303S21	Cse/HD		
variations at back	TORQUE Nm.	2.325	15.278	1.162	0.830
	K.W.	0.244	1.601	0.122	0.087



RH 45°

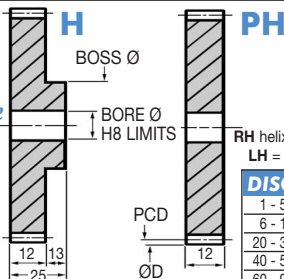


LH available on request.

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
H1.5-9	9	21.21	24.21	17	8	0.045	0.028	£12.93	£12.75
H1.5-10	10	21.21	24.21	17	8	0.045	0.028	£13.61	£13.13
H1.5-11	11	23.23	26.33	19	8	0.058	0.034	£13.96	£13.71
H1.5-12	12	25.46	28.46	20	10	0.063	0.040	£14.36	£14.08
H1.5-13	13	27.58	30.58	20	10	0.071	0.048	£15.39	£14.29
H1.5-14	14	29.70	32.70	20	10	0.080	0.056	£16.17	£15.23
H1.5-15	15	31.82	34.82	20	10	0.089	0.066	£16.48	£15.49
H1.5-16	16	33.94	36.94	25	12	0.110	0.073	£16.77	£15.71
H1.5-17	17	36.06	39.06	25	12	0.121	0.083	£17.81	£17.34
H1.5-18	18	38.18	41.18	25	12	0.132	0.095	£18.67	£18.09
H1.5-19	19	40.31	43.31	25	12	0.144	0.107	£19.25	£18.17
H1.5-20	20	42.43	45.43	30	15	0.166	0.114	£20.12	£18.43
H1.5-21	21	44.55	47.55	30	15	0.180	0.127	£20.70	£18.61
H1.5-22	22	46.67	49.67	30	15	0.194	0.141	£21.42	£18.87
H1.5-23	23	48.79	51.79	30	15	0.208	0.155	£21.65	£19.04
H1.5-24	24	50.91	53.91	30	15	0.223	0.171	£21.85	£19.16
H1.5-25	25	53.03	56.03	40	15	0.294	0.187	£23.22	£22.85
H1.5-26	26	55.15	58.15	40	15	0.311	0.203	£23.74	£23.54
H1.5-27	27	57.28	60.28	40	15	0.328	0.220	£24.77	£24.67
H1.5-28	28	59.40	62.40	40	15	0.346	0.238	£25.31	£25.08
H1.5-29	29	61.52	64.52	40	15	0.364	0.257	£25.32	£25.18
H1.5-30	30	63.64	66.64	40	15	0.383	0.276	£25.33	£25.21
H1.5-31	31	65.76	68.76	40	15	0.403	0.296	£26.86	£25.34

Helical Gears Crossed Axis Steel MOD 1.5

25.22



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN
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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
H1.5-32	32	67.88	70.88	40	15	0.424	0.316	£26.89	£26.44
H1.5-33	33	70.00	73.00	40	15	0.445	0.337	£27.05	£26.90
H1.5-34	34	72.12	75.12	40	15	0.466	0.359	£28.89	£28.39
H1.5-35	35	74.25	77.25	40	15	0.489	0.381	£30.86	£28.60
H1.5-36	36	76.37	79.37	40	15	0.512	0.404	£31.82	£28.76
H1.5-37	37	78.49	81.49	40	15	0.536	0.428	£32.98	£28.90
H1.5-38	38	80.61	83.61	40	15	0.560	0.452	£33.10	£29.01
H1.5-39	39	82.73	85.73	40	15	0.585	0.477	£33.56	£30.03
H1.5-40	40	84.85	87.85	40	15	0.610	0.503	£33.86	£30.61
H1.5-41	41	86.97	89.97	40	15	0.637	0.529	£34.02	£31.21
H1.5-42	42	89.10	92.10	40	15	0.664	0.556	£34.34	£32.40
H1.5-43	43	91.22	94.22	40	15	0.691	0.584	£35.02	£32.60
H1.5-44	44	93.34	96.34	40	15	0.720	0.612	£35.45	£33.58
H1.5-45	45	95.46	98.46	40	15	0.748	0.641	£35.47	£33.76
H1.5-46	46	97.58	100.58	40	15	0.778	0.670	£37.70	£34.52
H1.5-47	47	99.70	102.70	40	15	0.808	0.701	£38.52	£35.11
H1.5-48	48	101.82	104.82	40	15	0.839	0.731	£38.54	£35.47
H1.5-49	49	103.94	106.94	40	15	0.870	0.763	£39.93	£35.88
H1.5-50	50	106.07	109.07	40	15	0.903	0.795	£40.99	£36.23
H1.5-51	51	108.19	111.19	40	15	0.935	0.828	£43.22	£39.12
H1.5-52	52	110.31	113.31	40	15	0.969	0.861	£44.70	£41.30
H1.5-53	53	112.43	115.43	40	15	1.003	0.895	£45.00	£41.46
H1.5-54	54	114.55	117.55	40	15	1.038	0.930	£47.40	£41.88
H1.5-55	55	116.67	119.67	40	15	1.073	0.965	£47.44	£45.35
H1.5-56	56	118.79	121.79	40	15	1.109	1.001	£49.18	£45.54
H1.5-57	57	120.92	123.92	40	15	1.146	1.038	£52.82	£51.56
H1.5-58	58	123.04	126.04	40	15	1.183	1.076	£52.83	£52.23
H1.5-59	59	125.16	128.16	40	15	1.221	1.114	£52.85	£52.35
H1.5-60	60	127.28	130.28	40	15	1.260	1.152	£52.86	£52.40
H1.5-62	62	131.52	134.52	40	15	1.339	1.231	£56.60	£55.29
H1.5-64	64	135.76	138.76	40	15	1.420	1.313	£60.38	£59.26
H1.5-65	65	137.89	140.89	40	15	1.462	1.355	£60.38	£59.86
H1.5-66	66	140.01	143.01	40	15	1.505	1.398	£60.38	£60.01
H1.5-68	68	144.25	147.25	40	15	1.592	1.484	£64.10	£64.10
H1.5-70	70	148.49	151.49	40	15	1.681	1.574	£68.27	£67.02
H1.5-71	71	150.61	153.61	40	15	1.727	1.620	£72.71	£71.89
H1.5-72	72	152.74	155.74	40	15	1.774	1.666	£72.72	£72.16
H1.5-73	73	154.86	157.86	40	15	1.821	1.713	£72.73	£72.41
H1.5-74	74	156.98	159.98	40	15	1.868	1.761	£72.76	£72.49
H1.5-75	75	159.10	162.10	40	15	1.917	1.809	£78.48	£76.34
H1.5-76	76	161.22	164.22	40	15	1.966	1.858	£78.49	£77.02
H1.5-78	78	165.46	168.46	40	15	2.066	1.958	£87.46	£86.96
H1.5-80	80	169.71	172.71	40	15	2.168	2.061	£90.96	£88.28
H1.5-86	86	182.43	185.43	40	15	2.491	2.384	£93.46	£92.62
H1.5-90	90	190.92	193.92	40	15	2.720	2.613	£99.57	£96.34
H1.5-96	96	203.65	206.65	50	20	3.082	2.975	£107.20	£100.24
H1.5-98	98	207.89	210.89	50	20	3.208	3.101	£111.02	£104.09
H1.5-100	100	212.13	215.13	50	20	3.337	3.229	£114.91	£104.53
H1.5-105	105	222.74	225.74	50	20	3.657	3.549	£118.71	£108.30
H1.5-110	110	233.35	236.35	50	20	4.018	3.911	£121.93	£111.53
H1.5-115	115	243.95	246.95	50	20	4.383	4.276	£125.72	£115.29
H1.5-120	120	254.56	257.56	50	20	4.765	4.657	£133.46	£123.04

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)

1.5 MOD

45° H.A.

20° P.A.

SPECIAL TEETH : between 9 - 75



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.70

Helical Gears Crossed Axis Plastic MOD 1.5



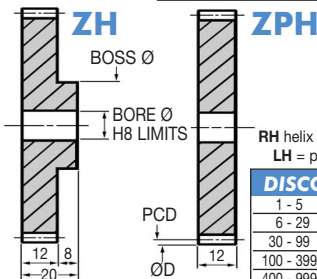
RH 45°

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

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
ZH1.5-9	9	21.21	24.21	20	8	0.0092	0.0058	£6.43	£4.97
ZH1.5-10	10	21.21	24.21	20	8	0.0092	0.0058	£6.77	£5.22
ZH1.5-11	11	23.23	26.33	20	8	0.0106	0.0072	£6.99	£5.33
ZH1.5-12	12	25.46	28.46	20	8	0.0122	0.0089	£7.27	£5.52
ZH1.5-13	13	27.58	30.58	24	8	0.0157	0.0106	£7.49	£6.43
ZH1.5-14	14	29.70	32.70	25	8	0.0181	0.0124	£8.93	£6.77
ZH1.5-15	15	31.82	34.82	25	8	0.0200	0.0144	£9.08	£6.99
ZH1.5-16	16	33.94	36.94	25	8	0.0221	0.0165	£9.26	£7.04
ZH1.5-17	17	36.06	39.06	25	8	0.0244	0.0187	£9.86	£7.49
ZH1.5-18	18	38.18	41.18	25	8	0.0268	0.0211	£10.01	£7.87
ZH1.5-19	19	40.31	43.31	25	8	0.0293	0.0236	£12.08	£9.26
ZH1.5-20	20	42.43	45.43	25	8	0.0320	0.0263	£12.68	£9.68
ZH1.5-21	21	44.55	47.55	25	8	0.0348	0.0291	£13.03	£9.96
ZH1.5-22	22	46.67	49.67	28	10	0.0384	0.0315	£13.49	£10.30
ZH1.5-23	23	48.79	51.79	28	10	0.0415	0.0345	£13.61	£10.42
ZH1.5-24	24	50.91	53.91	28	10	0.0447	0.0378	£16.55	£12.66
ZH1.5-25	25	53.03	56.03	28	10	0.0480	0.0411	£17.52	£13.41
ZH1.5-26	26	55.15	58.15	28	10	0.0515	0.0446	£17.98	£13.75
ZH1.5-27	27	57.28	60.28	28	10	0.0551	0.0482	£18.69	£14.35
ZH1.5-28	28	59.40	62.40	30	12	0.0589	0.0513	£19.07	£14.66
ZH1.5-29	29	61.52	64.52	30	12	0.0628	0.0552	£21.70	£16.60
ZH1.5-30	30	63.64	66.64	30	12	0.0668	0.0592	£21.71	£16.61
ZH1.5-31	31	65.76	68.76	30	12	0.0710	0.0633	£21.73	£16.64

25.24



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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
ZH1.5-32	32	67.88	70.88	30	12	0.0753	0.0676	£22.68	£17.37
ZH1.5-33	33	70.00	73.00	30	12	0.0797	0.0721	£23.20	£17.77
ZH1.5-34	34	72.12	75.12	30	12	0.0843	0.0766	£24.73	£18.98
ZH1.5-35	35	74.25	77.25	30	12	0.0890	0.0813	£26.48	£20.32
ZH1.5-36	36	76.37	79.37	36	12	0.0978	0.0862	£28.89	£22.12
ZH1.5-37	37	78.49	81.49	36	12	0.1028	0.0912	£29.93	£22.99
ZH1.5-38	38	80.61	83.61	36	12	0.1079	0.0963	£30.08	£23.16
ZH1.5-39	39	82.73	85.73	36	12	0.1131	0.1015	£30.44	£23.31
ZH1.5-40	40	84.85	87.85	36	12	0.1185	0.1069	£30.76	£23.55
ZH1.5-41	41	86.97	89.97	36	12	0.1240	0.1124	£30.87	£23.68
ZH1.5-42	42	89.10	92.10	36	12	0.1297	0.1181	£34.63	£26.57
ZH1.5-43	43	91.22	94.22	36	12	0.1355	0.1239	£35.32	£27.07
ZH1.5-44	44	93.34	96.34	36	12	0.1414	0.1298	£35.73	£27.40
ZH1.5-45	45	95.46	98.46	36	12	0.1475	0.1359	£35.82	£27.41
ZH1.5-46	46	97.58	100.58	36	12	0.1537	0.1421	£41.82	£32.03
ZH1.5-47	47	99.70	102.70	48	12	0.1702	0.1484	£42.76	£32.81
ZH1.5-48	48	101.82	104.82	48	12	0.1767	0.1549	£42.76	£32.83
ZH1.5-49	49	103.94	106.94	48	12	0.1833	0.1615	£44.33	£33.97
ZH1.5-50	50	106.07	109.07	48	12	0.1901	0.1683	£45.54	£34.93
ZH1.5-51	51	108.19	111.19	48	12	0.1970	0.1752	£47.97	£36.81
ZH1.5-52	52	110.31	113.31	48	12	0.2040	0.1822	£49.63	£38.05
ZH1.5-53	53	112.43	115.43	48	12	0.2111	0.1893	£49.97	£38.30
ZH1.5-54	54	114.55	117.55	48	12	0.2184	0.1966	£52.18	£40.39
ZH1.5-55	55	116.67	119.67	48	12	0.2259	0.2040	£52.64	£40.42
ZH1.5-56	56	118.79	121.79	48	12	0.2334	0.2116	£59.52	£45.71
ZH1.5-57	57	120.92	123.92	48	12	0.2412	0.2193	£63.94	£49.01
ZH1.5-58	58	123.04	126.04	48	12	0.2490	0.2272	£63.95	£49.05
ZH1.5-59	59	125.16	128.16	48	12	0.2570	0.2351	£63.99	£49.08
ZH1.5-60	60	127.28	130.28	48	12	0.2651	0.2433	£63.99	£49.12
ZH1.5-62	62	131.52	134.52	48	12	0.2817	0.2599	£68.57	£52.64
ZH1.5-64	64	135.76	138.76	48	12	0.2989	0.2770	£73.16	£56.07
ZH1.5-65	65	137.89	140.89	48	12	0.3077	0.2859	£79.19	£60.74
ZH1.5-66	66	140.01	143.01	48	12	0.3166	0.2948	£79.21	£60.75
ZH1.5-68	68	144.25	147.25	48	12	0.3349	0.3131	£84.24	£64.52
ZH1.5-70	70	148.49	151.49	48	15	0.3537	0.3319	£89.61	£68.76
ZH1.5-71	71	150.61	153.61	48	15	0.3633	0.3415	£95.48	£73.25
ZH1.5-73	73	154.86	157.86	48	15	0.3830	0.3611	£108.78	£86.53
ZH1.5-75	75	159.10	162.10	48	15	0.4031	0.3813	£126.07	£103.91

'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.

