

# Crossed Helical Gears Materials

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

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

20° P.A. SPECIAL TEETH : between 9-120

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	5.201	34.178	2.601	1.858
	K.W.	0.537	3.581	0.272	0.195



RH 45°

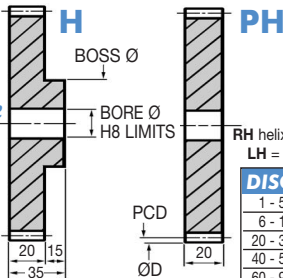


LH available  
on request.

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	
H2-9	9	28.28	32.28	22	12	0.109	0.079	£18.13	£15.19
H2-10	10	28.28	32.28	22	12	0.109	0.079	£20.16	£17.13
H2-11	11	31.11	35.11	25	12	0.142	0.099	£21.15	£17.99
H2-12	12	33.94	37.94	25	12	0.165	0.121	£21.65	£18.50
H2-13	13	36.77	40.77	30	15	0.196	0.135	£22.78	£19.36
H2-14	14	39.60	43.60	30	15	0.197	0.137	£23.25	£19.85
H2-15	15	42.43	46.43	30	15	0.250	0.189	£24.24	£21.84
H2-16	16	45.25	49.25	30	15	0.280	0.219	£24.77	£22.79
H2-17	17	48.08	52.08	30	15	0.312	0.251	£26.70	£24.21
H2-18	18	50.91	54.91	40	20	0.372	0.263	£27.57	£24.85
H2-19	19	53.74	57.74	40	20	0.407	0.299	£28.55	£25.58
H2-20	20	56.57	60.57	40	20	0.445	0.337	£29.16	£26.70
H2-21	21	59.40	63.40	40	20	0.484	0.376	£30.55	£27.40
H2-22	22	62.23	66.23	50	20	0.607	0.417	£33.19	£28.39
H2-23	23	65.05	69.05	50	20	0.650	0.461	£33.85	£31.16
H2-24	24	67.88	71.88	50	20	0.695	0.506	£35.47	£32.02
H2-25	25	70.71	74.71	50	20	0.742	0.553	£38.68	£33.09
H2-26	26	73.54	77.54	50	20	0.791	0.602	£39.20	£33.99
H2-27	27	76.37	80.37	50	20	0.842	0.653	£41.16	£35.89
H2-28	28	79.20	83.20	50	20	0.895	0.706	£41.91	£38.72
H2-29	29	82.02	86.02	50	20	0.950	0.761	£43.21	£39.04
H2-30	30	84.85	88.85	50	20	1.007	0.817	£43.73	£39.68
H2-31	31	87.68	91.68	50	20	1.065	0.876	£44.39	£40.15

Helical Gears Crossed Axis Steel MOD 2

25.26



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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
H2-32	32	90.51	94.51	50	20	1.126	0.937	£46.15	£40.75
H2-33	33	93.34	97.34	50	20	1.188	0.999	£47.19	£41.15
H2-34	34	96.17	100.17	50	20	1.253	1.064	£50.09	£42.58
H2-35	35	98.99	102.99	50	20	1.319	1.130	£51.96	£43.36
H2-36	36	101.82	105.82	50	20	1.387	1.198	£53.01	£44.38
H2-37	37	104.65	108.65	50	20	1.458	1.268	£53.90	£46.88
H2-38	38	107.48	111.48	50	20	1.530	1.340	£55.46	£47.66
H2-39	39	110.31	114.31	50	20	1.604	1.415	£60.88	£49.97
H2-40	40	113.14	117.14	50	20	1.680	1.491	£63.41	£51.04
H2-41	41	115.97	119.97	50	20	1.758	1.568	£64.51	£52.08
H2-42	42	118.79	122.79	50	20	1.837	1.648	£66.19	£54.07
H2-43	43	121.62	125.62	50	20	1.919	1.730	£67.80	£55.50
H2-44	44	124.45	128.45	50	20	2.003	1.814	£69.42	£57.13
H2-45	45	127.28	131.28	50	20	2.088	1.899	£72.76	£58.54
H2-46	46	130.11	134.11	50	20	2.176	1.987	£73.96	£58.57
H2-47	47	132.94	136.94	50	20	2.266	2.076	£75.06	£61.09
H2-48	48	135.76	139.76	50	20	2.357	2.167	£75.07	£61.12
H2-49	49	138.59	142.59	50	20	2.450	2.261	£76.99	£61.84
H2-50	50	141.42	145.42	50	20	2.545	2.356	£81.25	£62.46
H2-51	51	144.25	148.25	50	20	2.642	2.453	£89.65	£68.95
H2-52	52	147.08	151.08	50	20	2.741	2.552	£92.19	£72.25
H2-53	53	149.91	153.91	50	20	2.842	2.653	£95.26	£75.85
H2-54	54	152.74	156.74	50	20	2.945	2.756	£105.10	£86.13
H2-55	55	155.56	159.56	50	20	3.050	2.861	£105.11	£86.15
H2-56	56	158.39	162.39	50	20	3.157	2.967	£115.33	£92.23
H2-57	57	161.22	165.22	50	20	3.265	3.076	£124.06	£96.80
H2-58	58	164.05	168.05	50	20	3.376	3.187	£124.07	£97.82
H2-59	59	166.88	170.88	50	20	3.489	3.299	£124.08	£99.30
H2-60	60	169.71	173.71	50	20	3.603	3.414	£124.13	£102.16
H2-62	62	175.36	179.36	50	20	3.838	3.648	£137.69	£105.88
H2-64	64	181.02	185.02	50	20	4.080	3.891	£147.35	£109.32
H2-65	65	183.85	187.85	50	20	4.204	4.015	£147.38	£111.64
H2-66	66	186.68	190.68	50	20	4.330	4.141	£147.41	£114.27
H2-68	68	192.33	196.33	50	20	4.588	4.398	£160.44	£117.94
H2-70	70	197.99	201.99	50	20	4.853	4.664	£171.24	£128.45
H2-71	71	200.82	204.82	50	20	4.989	4.799	£177.54	£131.11
H2-72	72	203.65	207.65	50	20	5.126	4.937	£177.55	£134.15
H2-73	73	206.48	210.48	50	20	5.266	5.077	£177.57	£137.02
H2-74	74	209.30	213.30	50	20	5.407	5.217	£177.58	£140.06
H2-75	75	212.13	216.13	50	20	5.550	5.361	£189.72	£147.12
H2-76	76	214.96	218.96	50	20	5.695	5.506	£189.73	£154.12
H2-78	78	220.62	224.62	50	20	5.992	5.802	£202.84	£161.25
H2-80	80	226.27	230.27	50	20	6.295	6.106	£202.95	£162.72
H2-86	86	243.24	247.24	50	20	7.253	7.064	£234.98	£168.57
H2-90	90	254.56	258.56	50	20	7.930	7.741	£277.68	£175.19
H2-96	96	271.53	275.53	50	20	9.003	8.814	£306.46	£188.29
H2-98	98	277.19	281.19	50	20	9.378	9.191	£321.43	£208.51
H2-100	100	282.84	286.84	50	20	9.757	9.568	£341.08	£230.55
H2-105	105	296.98	300.98	50	20	10.743	10.553	£363.04	£248.03
H2-110	110	311.13	315.13	50	20	11.777	11.588	£383.67	£271.46
H2-115	115	325.27	329.27	50	20	12.858	12.669	£400.62	£294.47
H2-120	120	339.41	343.41	50	20	13.988	13.799	£417.71	£320.49

*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°

**2 MOD**

45° H.A.

20° P.A.

STD : White Delrin  
(fully machined)

SPECIAL TEETH : between 9 - 70



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 1.50



RH 45°

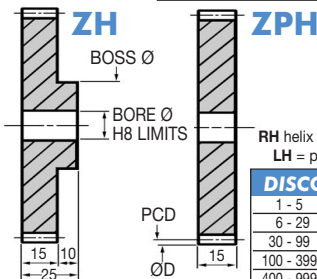


LH available on request.

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 2

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZH	ZPH	ZH	ZPH
ZH2-9	9	28.28	32.28	25	12	0.0178	0.0119	£10.01	£7.70
ZH2-10	10	28.28	32.28	25	12	0.0178	0.0119	£11.15	£8.53
ZH2-11	11	31.11	35.11	27	12	0.0221	0.0150	£11.67	£8.93
ZH2-12	12	33.94	37.94	30	12	0.0275	0.0183	£11.96	£9.18
ZH2-13	13	36.77	40.77	30	12	0.0311	0.0220	£12.62	£9.65
ZH2-14	14	39.60	43.60	30	12	0.0313	0.0221	£14.64	£11.21
ZH2-15	15	42.43	46.43	30	12	0.0393	0.0301	£18.34	£11.67
ZH2-16	16	45.25	49.25	30	12	0.0438	0.0346	£18.69	£14.35
ZH2-17	17	48.08	52.08	35	12	0.0525	0.0394	£20.20	£15.47
ZH2-18	18	50.91	54.91	35	12	0.0576	0.0445	£20.82	£15.95
ZH2-19	19	53.74	57.74	35	12	0.0630	0.0499	£21.60	£16.55
ZH2-20	20	56.57	60.57	35	12	0.0687	0.0556	£25.03	£19.16
ZH2-21	21	59.40	63.40	35	12	0.0746	0.0615	£26.16	£20.08
ZH2-22	22	62.23	66.23	35	12	0.0809	0.0678	£28.48	£21.74
ZH2-23	23	65.05	69.05	35	12	0.0874	0.0743	£28.98	£22.26
ZH2-24	24	67.88	71.88	35	12	0.0943	0.0811	£30.44	£23.30
ZH2-25	25	70.71	74.71	35	12	0.1014	0.0883	£35.11	£26.93
ZH2-26	26	73.54	77.54	45	15	0.1160	0.0942	£35.59	£27.30
ZH2-27	27	76.37	80.37	45	15	0.1238	0.1019	£37.34	£28.66
ZH2-28	28	79.20	83.20	45	15	0.1318	0.1099	£38.05	£29.26
ZH2-29	29	82.02	86.02	45	15	0.1400	0.1182	£39.22	£30.08
ZH2-30	30	84.85	88.85	45	15	0.1486	0.1268	£44.15	£33.85
ZH2-31	31	87.68	91.68	45	15	0.1575	0.1357	£44.79	£34.35

25.28



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