

# Crossed Helical Gears Materials

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

16 DP 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.	2.716	17.823	1.356	0.969
	K.W.	0.285	1.868	0.142	0.102

Helical Gears Crossed Axis Steel DP 16

RH 45°

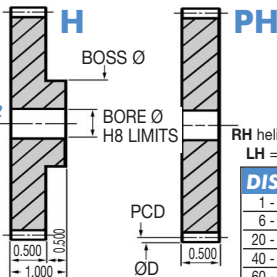


LH available  
on request.

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 (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H16-9	9	0.884	1.009	0.750	0.500	£13.49	£12.75
H16-10	10	0.884	1.009	0.750	0.500	£13.54	£13.13
H16-11	11	0.972	1.097	0.750	0.500	£14.82	£14.46
H16-12	12	1.061	1.186	0.875	0.500	£15.39	£14.83
H16-13	13	1.149	1.274	0.875	0.500	£16.56	£15.61
H16-14	14	1.237	1.362	1.000	0.500	£16.94	£16.04
H16-15	15	1.326	1.451	1.000	0.500	£18.79	£16.72
H16-16	16	1.414	1.539	1.250	0.625	£19.36	£17.18
H16-17	17	1.503	1.628	1.250	0.625	£19.81	£17.59
H16-18	18	1.591	1.716	1.250	0.625	£20.70	£18.09
H16-19	19	1.679	1.804	1.250	0.625	£21.07	£18.17
H16-20	20	1.768	1.893	1.250	0.625	£21.77	£18.43
H16-21	21	1.856	1.981	1.250	0.625	£22.11	£18.61
H16-22	22	1.945	2.070	1.500	0.625	£23.22	£18.87
H16-23	23	2.033	2.158	1.500	0.625	£23.30	£19.04
H16-24	24	2.121	2.246	1.500	0.625	£23.37	£19.16
H16-25	25	2.210	2.335	1.500	0.625	£23.60	£22.85
H16-26	26	2.298	2.423	1.500	0.625	£23.88	£23.54
H16-27	27	2.386	2.511	1.500	0.625	£25.07	£24.67
H16-28	28	2.475	2.600	1.500	0.625	£25.34	£25.18
H16-29	29	2.563	2.688	1.500	0.625	£25.66	£25.43
H16-30	30	2.652	2.777	1.500	0.625	£26.90	£26.32
H16-31	31	2.740	2.865	1.500	0.625	£27.63	£26.86

25.62



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN  
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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						H	PH
H16-32	32	2.828	2.953	1.500	0.625	£29.33	£27.69
H16-33	33	2.917	3.042	1.500	0.625	£30.26	£28.31
H16-34	34	3.005	3.130	1.500	0.750	£31.74	£29.53
H16-35	35	3.094	3.219	1.500	0.750	£32.29	£30.17
H16-36	36	3.182	3.307	1.500	0.750	£32.81	£30.73
H16-37	37	3.270	3.395	1.500	0.750	£34.61	£31.90
H16-38	38	3.359	3.484	1.500	0.750	£35.70	£32.53
H16-39	39	3.447	3.572	1.500	0.750	£37.10	£33.50
H16-40	40	3.536	3.661	1.500	0.750	£37.67	£34.06
H16-41	41	3.624	3.749	1.500	0.750	£38.14	£34.63
H16-42	42	3.712	3.837	1.500	0.750	£39.34	£35.89
H16-43	43	3.801	3.926	1.500	0.750	£40.49	£36.03
H16-44	44	3.889	4.014	1.500	0.750	£41.57	£37.06
H16-45	45	3.977	4.102	1.500	0.750	£41.63	£37.29
H16-46	46	4.066	4.191	1.500	0.750	£42.58	£38.02
H16-47	47	4.154	4.279	1.500	0.750	£43.29	£38.59
H16-48	48	4.243	4.368	1.500	0.750	£43.36	£38.99
H16-49	49	4.331	4.456	2.000	0.750	£44.70	£39.28
H16-50	50	4.419	4.544	2.000	0.750	£45.11	£39.68
H16-51	51	4.508	4.633	2.000	0.750	£48.40	£42.56
H16-52	52	4.596	4.721	2.000	0.750	£50.89	£44.72
H16-53	53	4.685	4.810	2.000	0.750	£53.48	£47.04
H16-54	54	4.773	4.898	2.000	0.750	£59.40	£52.18
H16-55	55	4.861	4.986	2.000	0.750	£59.46	£52.30
H16-56	56	4.950	5.075	2.000	0.750	£63.61	£55.94
H16-57	57	5.038	5.163	2.000	0.750	£67.08	£58.53
H16-58	58	5.127	5.252	2.000	0.750	£67.18	£59.15
H16-59	59	5.215	5.340	2.000	0.750	£67.28	£61.29
H16-60	60	5.303	5.428	2.000	0.750	£67.30	£63.11
H16-62	62	5.480	5.605	2.000	0.750	£74.75	£65.76
H16-64	64	5.657	5.782	2.000	0.750	£77.92	£67.38
H16-65	65	5.745	5.870	2.000	0.750	£77.99	£68.80
H16-66	66	5.834	5.959	2.000	0.750	£78.12	£73.88
H16-68	68	6.010	6.135	2.000	0.750	£85.85	£75.48
H16-70	70	6.187	6.312	2.000	0.750	£89.47	£78.74
H16-71	71	6.276	6.401	2.000	0.750	£97.36	£85.05
H16-72	72	6.364	6.489	2.000	0.750	£97.42	£86.02
H16-73	73	6.452	6.577	2.000	0.750	£97.60	£87.35
H16-74	74	6.541	6.666	2.500	0.750	£97.72	£89.80
H16-75	75	6.629	6.754	2.500	0.750	£104.38	£91.83
H16-76	76	6.718	6.843	2.500	0.750	£104.53	£91.92
H16-78	78	6.894	7.019	2.500	0.750	£108.12	£95.24
H16-80	80	7.071	7.196	2.500	0.750	£108.22	£95.40
H16-86	86	7.601	7.726	2.500	0.750	£113.46	£99.57
H16-90	90	7.955	8.080	2.500	0.750	£115.34	£103.31
H16-96	96	8.485	8.610	2.500	0.750	£119.00	£107.20
H16-98	98	8.662	8.787	2.500	0.750	£122.96	£111.02
H16-100	100	8.839	8.964	2.500	0.750	£129.84	£114.91
H16-105	105	9.281	9.406	2.500	0.750	£133.86	£118.71
H16-110	110	9.723	9.848	2.500	0.750	£137.66	£121.93
H16-115	115	10.165	10.290	2.500	0.750	£141.88	£125.72
H16-120	120	10.607	10.732	2.500	0.750	£148.41	£133.46

*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)

16 DP

45° H.A.  
20° P.A.

SPECIAL TEETH : between 9 - 70

**SPECIALS**  
ON DEMAND

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



RH 45°

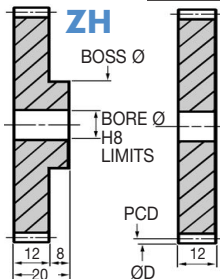


LH available on request.

RH 45°

RH runs with RH  
Popular sizes in stock.

Any two part numbers of this pitch will run together.



ZPH

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

### DISCOUNTS

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

Helical Gears Crossed Axis Plastic DP 16

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	ZH	ZPH
ZH16-9	9	0.884	1.009	0.787	6	£6.71	£5.12	
ZH16-10	10	0.884	1.009	0.787	8	£6.75	£5.19	
ZH16-11	11	0.972	1.097	0.787	8	£7.40	£5.67	
ZH16-12	12	1.061	1.186	0.787	8	£8.47	£6.44	
ZH16-13	13	1.149	1.274	0.944	8	£9.18	£6.99	
ZH16-14	14	1.237	1.362	0.984	8	£9.32	£7.14	
ZH16-15	15	1.326	1.451	0.984	8	£10.42	£7.94	
ZH16-16	16	1.414	1.539	0.984	8	£10.73	£8.18	
ZH16-17	17	1.503	1.628	0.984	8	£12.42	£9.55	
ZH16-18	18	1.591	1.716	0.984	8	£13.04	£9.95	
ZH16-19	19	1.679	1.804	0.984	8	£13.27	£10.15	
ZH16-20	20	1.768	1.893	0.984	8	£13.68	£10.50	
ZH16-21	21	1.856	1.981	0.984	8	£16.68	£12.78	
ZH16-22	22	1.945	2.070	1.102	10	£17.52	£13.41	
ZH16-23	23	2.033	2.158	1.102	10	£17.61	£13.49	
ZH16-24	24	2.121	2.246	1.102	10	£17.63	£13.57	
ZH16-25	25	2.210	2.335	1.102	10	£17.87	£13.64	
ZH16-26	26	2.298	2.423	1.102	10	£20.47	£15.69	
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ZH16-28	28	2.475	2.600	1.181	12	£21.71	£16.64	
ZH16-29	29	2.563	2.688	1.181	12	£21.98	£16.81	
ZH16-30	30	2.652	2.777	1.181	12	£23.07	£17.67	
ZH16-31	31	2.740	2.865	1.181	12	£23.64	£18.13	

25.64



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