

Crossed Helical Gears Materials

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

3 MOD 45° H.A. ALTERNATIVE : Brass, Tufnol or Delrin
20° P.A. SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	16.175	106.291	8.087	5.777
	K.W.	1.694	11.138	0.847	0.605

RH 45°

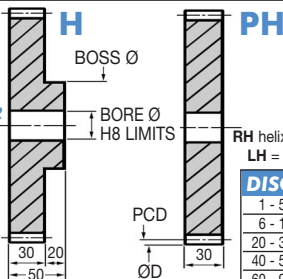


*LH available
on request.*

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	
H3-9	9	42.43	48.43	34	20	0.343	0.252	£30.11	£26.53
H3-10	10	42.43	48.43	34	20	0.343	0.252	£32.40	£26.60
H3-11	11	46.67	52.67	34	20	0.411	0.321	£34.47	£26.80
H3-12	12	50.91	56.91	34	20	0.486	0.395	£36.36	£32.55
H3-13	13	55.15	61.15	40	20	0.621	0.476	£39.73	£32.98
H3-14	14	59.40	65.40	50	25	0.749	0.523	£40.98	£34.17
H3-15	15	63.64	69.64	50	25	0.843	0.618	£43.79	£36.36
H3-16	16	67.88	73.88	50	25	0.943	0.718	£45.18	£37.60
H3-17	17	72.12	78.12	50	25	1.050	0.825	£49.27	£38.59
H3-18	18	76.37	82.37	50	25	1.164	0.939	£52.08	£40.84
H3-19	19	80.61	86.61	50	25	1.284	1.059	£53.38	£41.87
H3-20	20	84.85	90.85	60	25	1.543	1.185	£57.07	£44.80
H3-21	21	89.10	95.10	60	25	1.676	1.319	£59.13	£45.35
H3-22	22	93.34	99.34	60	25	1.816	1.458	£63.43	£47.72
H3-23	23	97.58	103.58	60	25	1.962	1.604	£66.85	£48.98
H3-24	24	101.82	107.82	60	25	2.114	1.757	£68.20	£54.54
H3-25	25	106.07	112.07	60	25	2.273	1.916	£76.33	£54.76
H3-26	26	110.31	116.31	60	25	2.439	2.081	£77.79	£59.16
H3-27	27	114.55	120.55	60	25	2.611	2.253	£79.91	£67.96
H3-28	28	118.79	124.79	60	25	2.789	2.432	£81.10	£77.70
H3-29	29	123.04	129.04	60	25	2.974	2.617	£83.53	£82.22
H3-30	30	127.28	133.28	60	25	3.166	2.808	£91.04	£88.08
H3-31	31	131.52	137.52	60	25	3.364	3.006	£102.16	£98.51

Helical Gears Crossed Axis Steel MOD 3

25.34



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
H3-32	32	135.76	141.76	60	25	3.568	3.210	£120.86	£101.38
H3-33	33	140.01	146.01	60	25	3.810	3.452	£121.83	£106.95
H3-34	34	144.25	150.25	60	25	3.997	3.639	£127.93	£111.94
H3-35	35	148.49	154.49	60	25	4.220	3.863	£132.69	£117.18
H3-36	36	152.74	158.74	60	25	4.451	4.094	£137.39	£117.65
H3-37	37	156.98	162.98	60	25	4.688	4.330	£146.87	£124.17
H3-38	38	161.22	167.22	60	25	4.931	4.574	£151.34	£127.39
H3-39	39	165.46	171.46	60	25	5.181	4.823	£161.08	£132.27
H3-40	40	169.71	175.71	60	25	5.438	5.080	£163.59	£140.86
H3-41	41	173.95	179.95	60	25	5.701	5.343	£166.16	£142.22
H3-42	42	178.19	184.19	60	25	5.970	5.612	£175.71	£146.86
H3-43	43	182.43	188.43	60	25	6.245	5.888	£180.44	£150.87
H3-44	44	186.88	192.68	60	25	6.542	6.184	£190.04	£156.35
H3-45	45	190.92	196.92	60	25	6.817	6.459	£194.33	£163.09
H3-46	46	195.16	201.16	60	25	7.112	6.754	£207.66	£171.38
H3-47	47	199.40	205.40	60	25	7.414	7.056	£208.69	£175.80
H3-48	48	203.65	209.65	60	25	7.723	7.365	£209.31	£181.00
H3-49	49	207.89	213.89	60	25	8.037	7.680	£226.10	£182.87
H3-50	50	212.13	218.13	60	25	8.358	8.001	£233.38	£194.31
H3-51	51	216.37	222.37	60	25	8.686	8.328	£246.42	£199.34
H3-52	52	220.62	226.62	60	25	9.021	8.663	£249.10	£205.95
H3-53	53	224.86	230.86	60	25	9.361	9.004	£251.37	£214.83
H3-54	54	229.10	235.10	60	25	9.708	9.351	£264.15	£231.15
H3-55	55	233.35	239.35	60	25	10.063	9.705	£266.88	£241.89
H3-56	56	237.59	243.59	60	25	10.423	10.065	£280.42	£252.36
H3-57	57	241.83	247.83	60	25	10.789	10.432	£295.96	£263.48
H3-58	58	246.07	252.07	60	25	11.162	10.805	£308.51	£269.95
H3-59	59	250.32	256.32	60	25	11.543	11.185	£310.19	£281.20
H3-60	60	254.56	260.56	60	25	11.928	11.571	£335.16	£290.99
H3-61	61	258.80	264.80	60	25	12.321	11.963	£355.83	£305.67
H3-62	62	263.04	269.04	60	25	12.720	12.362	£367.12	£312.20
H3-63	63	267.29	273.29	60	25	13.126	12.769	£369.06	£325.96
H3-64	64	271.53	277.53	60	25	13.538	13.181	£379.13	£339.62
H3-65	65	275.77	281.77	60	25	13.957	13.599	£380.57	£353.30
H3-68	68	288.50	294.50	60	25	15.252	14.894	£399.05	£372.48
H3-70	70	296.98	302.98	60	25	16.147	15.789	£411.11	£385.28
H3-72	72	305.47	311.47	60	25	17.069	16.711	£420.68	£404.43
H3-75	75	318.20	324.20	60	25	18.501	18.143	£436.71	£417.48
H3-76	76	322.44	328.44	60	25	18.990	18.633	£449.51	£427.37
H3-78	78	330.93	336.93	60	25	19.990	19.633	£465.84	£440.55
H3-80	80	339.41	345.41	60	25	21.015	20.658	£486.04	£454.13
H3-82	82	347.90	353.90	60	25	22.067	21.710	£505.73	£470.12
H3-84	84	356.38	362.38	60	25	23.144	22.787	£523.08	£480.82
H3-86	86	364.87	370.87	60	25	24.248	23.891	£549.10	£493.86
H3-88	88	373.35	379.35	60	25	25.377	25.019	£565.30	£500.34
H3-90	90	381.84	387.84	60	25	26.533	26.175	£588.10	£503.62

Up to Ø750 mm

Helical Gears Crossed Axis Steel MOD 3

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°

45° H.A.

3 MOD

20° P.A.

STD : White Delrin
(fully machined)

SPECIALS : up to Ø750 mm



TORQUE CHECK 50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 5.00



RH 45°

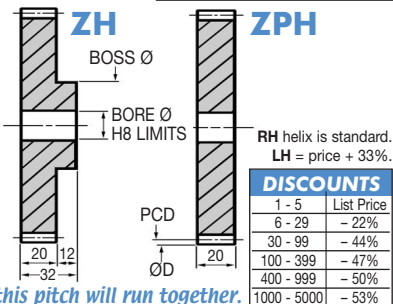


LH available on request.

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 3

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	WEIGHT (kg)		PRICE EACH 1 - 5	
						ZH	ZPH	ZH	ZPH
ZH3-9	9	42.43	48.43	36	15	0.056	0.040	£16.94	£14.63
ZH3-10	10	42.43	48.43	40	15	0.061	0.040	£20.42	£15.60
ZH3-11	11	46.67	52.67	40	15	0.070	0.049	£21.70	£16.64
ZH3-12	12	50.91	56.91	40	15	0.081	0.060	£27.51	£21.09
ZH3-13	13	55.15	61.15	48	15	0.103	0.071	£30.04	£23.07
ZH3-14	14	59.40	65.40	48	15	0.115	0.083	£31.01	£23.80
ZH3-15	15	63.64	69.64	48	15	0.128	0.097	£37.56	£28.84
ZH3-16	16	67.88	73.88	48	15	0.142	0.111	£38.74	£29.68
ZH3-17	17	72.12	78.12	48	15	0.157	0.126	£42.16	£32.27
ZH3-18	18	76.37	82.37	48	15	0.173	0.142	£47.29	£36.24
ZH3-19	19	80.61	86.61	60	20	0.202	0.154	£48.45	£37.15
ZH3-20	20	84.85	90.85	60	20	0.220	0.172	£51.81	£39.72
ZH3-21	21	89.10	95.10	60	20	0.239	0.190	£53.67	£41.17
ZH3-22	22	93.34	99.34	60	20	0.258	0.210	£63.99	£49.12
ZH3-23	23	97.58	103.58	60	20	0.279	0.230	£67.46	£51.77
ZH3-24	24	101.82	107.82	60	20	0.300	0.252	£75.74	£58.07
ZH3-25	25	106.07	112.07	60	20	0.322	0.274	£84.74	£64.99
ZH3-26	26	110.31	116.31	60	20	0.346	0.297	£86.36	£66.24
ZH3-27	27	114.55	120.55	60	20	0.370	0.321	£88.71	£68.08
ZH3-28	28	118.79	124.79	60	20	0.395	0.346	£89.09	£68.40
ZH3-29	29	123.04	129.04	60	20	0.421	0.372	£101.16	£77.60
ZH3-30	30	127.28	133.28	60	20	0.447	0.399	£110.26	£84.59
ZH3-31	31	131.52	137.52	60	20	0.475	0.427	£123.73	£94.91

25.36



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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
ZH3-32	32	135.76	141.76	60	20	0.504	0.455	£146.41	£112.34
ZH3-33	33	140.01	146.01	60	20	0.538	0.489	£159.82	£122.66
ZH3-34	34	144.25	150.25	60	20	0.564	0.515	£167.86	£128.78
ZH3-35	35	148.49	154.49	60	20	0.595	0.547	£174.11	£133.60
ZH3-36	36	152.74	158.74	60	20	0.627	0.579	£180.22	£138.30
ZH3-37	37	156.98	162.98	60	20	0.661	0.612	£222.41	£170.64
ZH3-38	38	161.22	167.22	60	20	0.695	0.646	£229.17	£175.79
ZH3-39	39	165.46	171.46	60	20	0.730	0.681	£243.84	£187.11
ZH3-40	40	169.71	175.71	80	20	0.808	0.717	£247.64	£189.99
ZH3-41	41	173.95	179.95	80	20	0.845	0.754	£251.49	£193.03
ZH3-42	42	178.19	184.19	80	20	0.883	0.792	£265.99	£204.06
ZH3-43	43	182.43	188.43	80	20	0.921	0.830	£273.06	£209.63
ZH3-44	44	186.88	192.68	80	20	0.963	0.872	£286.10	£220.75
ZH3-45	45	190.92	196.92	80	20	1.001	0.910	£294.20	£225.78
ZH3-46	46	195.16	201.16	80	20	1.043	0.952	£342.77	£259.04
ZH3-47	47	199.40	205.40	80	20	1.085	0.994	£346.01	£261.49
ZH3-48	48	203.65	209.65	80	20	1.128	1.037	£348.53	£266.93
ZH3-49	49	207.89	213.89	80	20	1.172	1.081	£376.48	£288.89
ZH3-50	50	212.13	218.13	80	20	1.217	1.126	£388.55	£298.18

Up to Ø750 mm

'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.

