

# Helical Gears

## Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

20 DP

17°45' H.A. ALTERNATIVE : Brass, Tufnol or Delrin

20° P.A.

SPECIAL TEETH : between 9 - 140

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	9.04	35.75	4.52	3.23
	K.W.	0.947	3.744	0.470	0.336



RH 17°45'

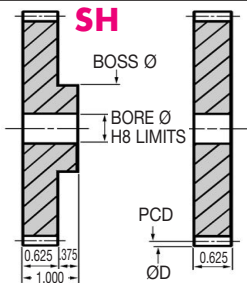


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



DISCOUNTS	
1 - 5	List Price
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	
						SH	PSH
SH20-9	9	0.525	0.625	0.625	0.250	£12.41	£11.30
SH20-10	10	0.525	0.625	0.625	0.250	£12.42	£11.33
SH20-11	11	0.578	0.678	0.678	0.250	£12.43	£11.34
SH20-12	12	0.630	0.730	0.730	0.250	£12.44	£11.35
SH20-13	13	0.683	0.783	0.783	0.250	£13.03	£11.66
SH20-14	14	0.735	0.835	0.835	0.250	£13.75	£12.15
SH20-15	15	0.788	0.888	0.625	0.375	£14.27	£12.51
SH20-16	16	0.840	0.940	0.625	0.375	£14.90	£12.83
SH20-17	17	0.893	0.993	0.625	0.375	£15.07	£13.00
SH20-18	18	0.945	1.045	0.750	0.375	£15.33	£13.03
SH20-19	19	0.998	1.098	0.750	0.375	£15.61	£13.19
SH20-20	20	1.050	1.150	0.750	0.375	£15.93	£13.31
SH20-21	21	1.103	1.203	0.750	0.375	£16.17	£13.48
SH20-22	22	1.155	1.255	0.750	0.375	£16.44	£13.64
SH20-23	23	1.208	1.308	0.750	0.375	£16.68	£13.92
SH20-24	24	1.260	1.360	0.875	0.375	£16.90	£14.05
SH20-25	25	1.313	1.413	0.875	0.375	£17.31	£14.20
SH20-26	26	1.365	1.465	0.875	0.375	£17.77	£14.32
SH20-27	27	1.418	1.518	0.875	0.375	£18.17	£14.44
SH20-28	28	1.470	1.570	0.875	0.375	£18.61	£14.64
SH20-29	29	1.523	1.623	0.875	0.375	£19.00	£14.72
SH20-30	30	1.575	1.675	0.875	0.375	£19.46	£14.82
SH20-31	31	1.628	1.728	0.875	0.375	£19.73	£14.95

Helical Gears Parallel Axis Steel DP 20

24.62



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	
						SH	PSH
SH20-32	32	1.680	1.780	0.875	0.375	£20.08	£15.02
SH20-33	33	1.733	1.833	0.875	0.375	£20.36	£15.19
SH20-34	34	1.785	1.885	0.875	0.375	£20.82	£15.38
SH20-35	35	1.838	1.938	0.875	0.375	£21.25	£15.39
SH20-36	36	1.890	1.990	0.875	0.375	£21.77	£15.82
SH20-37	37	1.943	2.043	0.875	0.375	£22.21	£15.93
SH20-38	38	1.995	2.095	0.875	0.375	£22.69	£16.19
SH20-39	39	2.048	2.148	0.875	0.375	£23.15	£16.38
SH20-40	40	2.100	2.200	0.875	0.500	£23.54	£16.49
SH20-41	41	2.153	2.253	0.875	0.500	£23.99	£16.72
SH20-42	42	2.205	2.305	0.875	0.500	£24.45	£16.83
SH20-43	43	2.258	2.358	0.875	0.500	£24.81	£16.95
SH20-44	44	2.310	2.410	0.875	0.500	£25.31	£17.13
SH20-45	45	2.363	2.463	0.875	0.500	£25.77	£17.28
SH20-46	46	2.415	2.515	0.875	0.500	£26.04	£17.37
SH20-47	47	2.468	2.568	0.875	0.500	£26.27	£17.51
SH20-48	48	2.520	2.620	0.875	0.500	£26.69	£17.77
SH20-49	49	2.573	2.673	0.875	0.500	£26.89	£17.98
SH20-50	50	2.625	2.725	0.875	0.500	£27.13	£18.23
SH20-51	51	2.678	2.778	0.875	0.500	£27.42	£18.43
SH20-52	52	2.730	2.830	0.875	0.500	£27.64	£18.67
SH20-53	53	2.783	2.883	0.875	0.500	£28.04	£18.77
SH20-54	54	2.835	2.935	0.875	0.500	£28.50	£18.87
SH20-55	55	2.888	2.988	0.875	0.500	£28.76	£19.04
SH20-56	56	2.940	3.040	0.875	0.500	£29.32	£19.15
SH20-57	57	2.993	3.093	0.875	0.500	£29.81	£19.27
SH20-58	58	3.045	3.145	0.875	0.500	£30.10	£19.41
SH20-59	59	3.098	3.198	0.875	0.500	£30.51	£19.61
SH20-60	60	3.150	3.250	0.875	0.500	£30.74	£19.73
SH20-61	61	3.203	3.303	0.875	0.500	£31.16	£19.98
SH20-62	62	3.255	3.355	0.875	0.500	£31.62	£20.42
SH20-63	63	3.308	3.408	0.875	0.500	£31.85	£20.73
SH20-64	64	3.360	3.460	0.875	0.500	£32.05	£21.21
SH20-65	65	3.413	3.513	0.875	0.500	£32.40	£21.84
SH20-66	66	3.465	3.565	0.875	0.500	£32.53	£22.45
SH20-68	68	3.570	3.670	0.875	0.500	£32.64	£23.08
SH20-70	70	3.675	3.775	0.875	0.500	£32.78	£23.74
SH20-72	72	3.780	3.880	0.875	0.500	£33.16	£26.89
SH20-73	73	3.833	3.933	0.875	0.500	£34.60	£27.31
SH20-74	74	3.885	3.985	0.875	0.500	£36.26	£27.87
SH20-76	76	3.990	4.090	0.875	0.500	£36.98	£28.37
SH20-78	78	4.095	4.195	0.875	0.500	£37.76	£28.76
SH20-80	80	4.200	4.300	0.875	0.500	£39.34	£29.27
SH20-84	84	4.410	4.510	0.875	0.500	£42.56	£32.05
SH20-88	88	4.620	4.720	0.875	0.500	£53.17	£42.53
SH20-90	90	4.725	4.825	0.875	0.500	£58.53	£46.74
SH20-96	96	5.040	5.140	1.500	0.750	£66.43	£53.14
SH20-100	100	5.250	5.350	1.500	0.750	£70.74	£56.58
SH20-112	112	5.880	5.980	1.500	0.750	£75.14	£60.09
SH20-120	120	6.300	6.400	1.500	0.750	£79.30	£63.41
SH20-130	130	6.825	6.925	1.500	0.750	£83.81	£67.01
SH20-140	140	7.350	7.450	1.500	0.750	£88.22	£70.54

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



# Helical Gears

## Materials

Plastic - Parallel Axis

20 DP

17°45' H.A.

20° P.A.

STD : White Delrin  
(fully machined)

SPECIAL TEETH : between 9 - 120



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



RH 17°45'

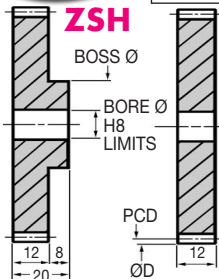


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



ZPSH

### DISCOUNTS

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

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH20-9	9	0.525	0.625	0.590	5	£6.43	£4.95
ZSH20-10	10	0.525	0.625	0.590	5	£6.44	£4.96
ZSH20-11	11	0.578	0.678	0.590	5	£6.46	£4.97
ZSH20-12	12	0.630	0.730	0.590	5	£6.50	£4.98
ZSH20-13	13	0.683	0.783	0.590	5	£6.50	£4.99
ZSH20-14	14	0.735	0.835	0.590	5	£6.87	£5.25
ZSH20-15	15	0.788	0.888	0.590	5	£7.10	£5.48
ZSH20-16	16	0.840	0.940	0.629	6	£7.45	£5.73
ZSH20-17	17	0.893	0.993	0.629	6	£7.63	£5.79
ZSH20-18	18	0.945	1.045	0.629	6	£7.72	£5.83
ZSH20-19	19	0.998	1.098	0.629	6	£7.82	£5.95
ZSH20-20	20	1.050	1.150	0.629	6	£7.99	£6.14
ZSH20-21	21	1.103	1.203	0.708	6	£8.10	£6.20
ZSH20-22	22	1.155	1.255	0.708	6	£8.20	£6.32
ZSH20-23	23	1.208	1.308	0.708	6	£9.20	£7.02
ZSH20-24	24	1.260	1.360	0.708	6	£9.47	£7.10
ZSH20-25	25	1.313	1.413	0.708	6	£9.55	£7.36
ZSH20-26	26	1.365	1.465	0.708	6	£9.82	£7.45
ZSH20-27	27	1.418	1.518	0.708	6	£10.04	£7.72
ZSH20-28	28	1.470	1.570	0.708	6	£10.25	£7.87
ZSH20-29	29	1.523	1.623	0.708	6	£10.50	£8.02
ZSH20-30	30	1.575	1.675	0.708	6	£12.22	£9.40
ZSH20-31	31	1.628	1.728	0.708	6	£12.42	£9.51

Helical Gears Parallel Axis Plastic DP 20

24.64



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 (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH20-32	32	1.680	1.780	0.708	6	£12.66	£9.65
ZSH20-33	33	1.733	1.833	0.708	6	£12.78	£9.82
ZSH20-34	34	1.785	1.885	0.708	6	£13.05	£10.01
ZSH20-35	35	1.838	1.938	0.708	6	£13.31	£10.19
ZSH20-36	36	1.890	1.990	0.708	6	£16.60	£13.12
ZSH20-37	37	1.943	2.043	0.708	6	£16.77	£13.13
ZSH20-38	38	1.995	2.095	0.708	6	£17.13	£13.14
ZSH20-39	39	2.048	2.148	0.708	6	£17.51	£13.39
ZSH20-40	40	2.100	2.200	0.708	6	£17.78	£13.64
ZSH20-41	41	2.153	2.253	0.866	8	£18.13	£13.93
ZSH20-42	42	2.205	2.305	0.866	8	£18.45	£14.13
ZSH20-43	43	2.258	2.358	0.866	8	£18.74	£14.35
ZSH20-44	44	2.310	2.410	0.866	8	£21.68	£16.64
ZSH20-45	45	2.363	2.463	0.866	8	£22.11	£16.94
ZSH20-46	46	2.415	2.515	0.866	8	£22.36	£17.06
ZSH20-47	47	2.468	2.568	0.866	8	£22.47	£17.26
ZSH20-48	48	2.520	2.620	0.866	8	£22.90	£17.52
ZSH20-49	49	2.573	2.673	0.866	8	£23.07	£17.63
ZSH20-50	50	2.625	2.725	0.866	8	£23.26	£17.87
ZSH20-51	51	2.678	2.778	0.866	8	£23.53	£18.04
ZSH20-52	52	2.730	2.830	0.866	8	£23.68	£18.13
ZSH20-53	53	2.783	2.883	0.866	8	£24.07	£18.45
ZSH20-54	54	2.835	2.935	0.866	8	£24.40	£18.69
ZSH20-55	55	2.888	2.988	1.023	10	£26.11	£20.00
ZSH20-56	56	2.940	3.040	1.023	10	£26.66	£20.42
ZSH20-57	57	2.993	3.093	1.023	10	£27.04	£20.70
ZSH20-58	58	3.045	3.145	1.023	10	£27.39	£20.96
ZSH20-59	59	3.098	3.198	1.023	10	£27.68	£21.24
ZSH20-60	60	3.150	3.250	1.023	10	£27.91	£21.37
ZSH20-61	61	3.203	3.303	1.023	10	£28.28	£21.68
ZSH20-62	62	3.255	3.355	1.023	10	£28.69	£21.98
ZSH20-63	63	3.308	3.408	1.023	10	£28.91	£22.12
ZSH20-64	64	3.360	3.460	1.023	10	£29.10	£22.36
ZSH20-65	65	3.413	3.513	1.023	10	£29.40	£22.55
ZSH20-66	66	3.465	3.565	1.023	10	£32.83	£25.13
ZSH20-68	68	3.570	3.670	1.023	10	£32.97	£25.30
ZSH20-70	70	3.675	3.775	1.023	10	£33.07	£25.36
ZSH20-72	72	3.780	3.880	1.023	10	£33.44	£25.61
ZSH20-73	73	3.833	3.933	1.023	10	£34.93	£26.80
ZSH20-74	74	3.885	3.985	1.023	10	£40.28	£30.86
ZSH20-76	76	3.990	4.090	1.023	10	£41.03	£31.50
ZSH20-78	78	4.095	4.195	1.023	10	£41.90	£32.14
ZSH20-80	80	4.200	4.300	1.181	12	£43.69	£33.55
ZSH20-84	84	4.410	4.510	1.181	12	£47.27	£36.24
ZSH20-88	88	4.620	4.720	1.181	12	£59.02	£45.27
ZSH20-90	90	4.725	4.825	1.181	12	£70.87	£54.31
ZSH20-96	96	5.040	5.140	1.574	15	£80.22	£63.73
ZSH20-100	100	5.250	5.350	1.574	15	£93.51	£77.01
ZSH20-112	112	5.880	5.980	1.574	15	£110.90	£94.32
ZSH20-120	120	6.300	6.400	1.968	20	£132.14	£115.56

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

