

# Helical Gears

## Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

16 DP

17°45' H.A.

20° P.A.

ALTERNATIVE : Brass, Tufnol or Delrin

SPECIAL TEETH : between 9 - 120

TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	<b>TORQUE Nm.</b>	16.94	67.03	8.47	6.05
	<b>K.W.</b>	1.775	7.027	0.877	0.634



RH 17°45'

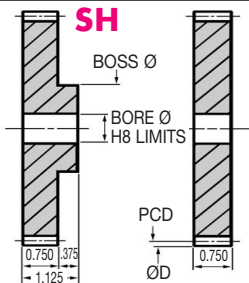


LH 17°45'

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
SH16-9	9	0.656	0.781	0.781	0.312	£13.93	£12.75
SH16-10	10	0.656	0.781	0.781	0.312	£13.94	£12.76
SH16-11	11	0.722	0.847	0.847	0.312	£13.95	£12.77
SH16-12	12	0.788	0.913	0.913	0.375	£13.96	£12.78
SH16-13	13	0.853	0.978	0.750	0.375	£13.97	£13.37
SH16-14	14	0.919	1.044	0.750	0.375	£14.25	£13.77
SH16-15	15	0.984	1.109	0.750	0.375	£14.67	£14.46
SH16-16	16	1.050	1.175	0.750	0.375	£15.55	£15.19
SH16-17	17	1.116	1.241	0.750	0.375	£16.17	£15.61
SH16-18	18	1.181	1.306	0.750	0.375	£16.94	£16.22
SH16-19	19	1.247	1.372	0.750	0.375	£17.37	£16.44
SH16-20	20	1.313	1.438	1.000	0.500	£17.81	£16.83
SH16-21	21	1.378	1.503	1.000	0.500	£18.87	£17.25
SH16-22	22	1.444	1.569	1.000	0.500	£19.73	£17.51
SH16-23	23	1.509	1.634	1.000	0.500	£20.36	£17.99
SH16-24	24	1.575	1.700	1.000	0.500	£20.87	£18.43
SH16-25	25	1.641	1.766	1.000	0.500	£21.09	£18.66
SH16-26	26	1.706	1.831	1.000	0.500	£21.77	£18.98
SH16-27	27	1.772	1.897	1.000	0.500	£22.11	£19.07
SH16-28	28	1.838	1.963	1.000	0.500	£22.55	£19.21
SH16-29	29	1.903	2.028	1.000	0.500	£22.81	£19.36
SH16-30	30	1.969	2.094	1.000	0.500	£23.22	£19.50
SH16-31	31	2.034	2.159	1.000	0.500	£23.81	£19.66

Helical Gears Parallel Axis Steel DP 16

24.66



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN  
Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5 SH	PSH
SH16-32	32	2.100	2.225	1.000	0.500	£24.39	£19.81
SH16-33	33	2.166	2.291	1.000	0.500	£24.45	£19.98
SH16-34	34	2.231	2.356	1.000	0.500	£24.58	£20.12
SH16-35	35	2.297	2.422	1.000	0.500	£24.67	£20.25
SH16-36	36	2.363	2.488	1.250	0.625	£24.77	£24.07
SH16-37	37	2.428	2.553	1.250	0.625	£25.12	£24.73
SH16-38	38	2.494	2.619	1.250	0.625	£25.66	£25.40
SH16-39	39	2.559	2.684	1.250	0.625	£26.30	£25.93
SH16-40	40	2.625	2.750	1.250	0.625	£26.66	£26.61
SH16-41	41	2.691	2.816	1.250	0.625	£26.90	£26.70
SH16-42	42	2.756	2.881	1.250	0.625	£27.60	£27.21
SH16-43	43	2.822	2.947	1.250	0.625	£28.29	£27.33
SH16-44	44	2.888	3.013	1.250	0.625	£29.01	£28.14
SH16-45	45	2.953	3.078	1.250	0.625	£29.84	£28.66
SH16-46	46	3.019	3.144	1.250	0.625	£30.79	£29.10
SH16-47	47	3.084	3.209	1.250	0.625	£31.77	£29.73
SH16-48	48	3.150	3.275	1.250	0.625	£32.53	£30.26
SH16-49	49	3.216	3.341	1.250	0.625	£33.36	£31.06
SH16-50	50	3.281	3.406	1.250	0.625	£33.90	£31.68
SH16-51	51	3.347	3.472	1.250	0.625	£34.55	£32.22
SH16-52	52	3.413	3.538	1.250	0.625	£35.11	£33.20
SH16-53	53	3.478	3.603	1.250	0.625	£36.36	£33.50
SH16-54	54	3.544	3.669	1.250	0.625	£37.44	£34.13
SH16-55	55	3.609	3.734	1.250	0.625	£37.76	£34.60
SH16-56	56	3.675	3.800	1.250	0.625	£38.35	£35.15
SH16-57	57	3.741	3.866	1.250	0.625	£39.55	£35.82
SH16-58	58	3.806	3.931	1.250	0.625	£40.05	£36.44
SH16-59	59	3.872	3.997	1.250	0.625	£40.65	£37.08
SH16-60	60	3.938	4.063	1.250	0.625	£41.32	£37.71
SH16-61	61	4.003	4.128	1.250	0.625	£42.52	£37.80
SH16-62	62	4.069	4.194	1.250	0.625	£43.73	£38.86
SH16-63	63	4.134	4.259	1.250	0.625	£44.29	£39.34
SH16-64	64	4.200	4.325	1.250	0.625	£44.80	£39.93
SH16-65	65	4.266	4.391	1.250	0.625	£45.58	£40.56
SH16-66	66	4.331	4.456	1.250	0.625	£46.96	£41.31
SH16-68	68	4.463	4.588	1.250	0.625	£47.40	£41.66
SH16-70	70	4.594	4.719	1.250	0.625	£48.97	£43.13
SH16-72	72	4.725	4.850	1.250	0.625	£50.82	£44.67
SH16-73	73	4.791	4.916	1.250	0.625	£53.45	£47.02
SH16-74	74	4.856	4.981	1.250	0.625	£56.15	£49.44
SH16-76	76	4.988	5.113	1.250	0.625	£59.99	£52.77
SH16-78	78	5.119	5.244	1.250	0.625	£62.42	£54.92
SH16-80	80	5.250	5.375	1.250	0.625	£66.83	£58.81
SH16-84	84	5.512	5.637	1.250	0.625	£70.63	£62.15
SH16-88	88	5.775	5.900	1.250	0.625	£78.49	£69.13
SH16-90	90	5.906	6.031	1.250	0.625	£82.08	£72.24
SH16-96	96	6.300	6.425	1.500	0.750	£90.15	£79.36
SH16-100	100	6.563	6.688	1.500	0.750	£93.96	£82.67
SH16-105	105	6.890	7.015	1.500	0.750	£102.66	£90.31
SH16-110	110	7.218	7.343	1.500	0.750	£109.68	£96.57
SH16-115	115	7.547	7.672	1.500	0.750	£113.63	£99.96
SH16-120	120	7.875	8.000	1.500	0.750	£119.20	£104.91

**Helical Gears Parallel Axis Steel DP 16**

*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

STD : White Delrin  
(fully machined)

16 DP

17°45' H.A.  
20° P.A.

SPECIAL TEETH : between 9 - 100

**SPECIALS**  
ON DEMAND

**TORQUE CHECK**

50 teeth x 1000 rpm

variations  
at back

**TORQUE Nm.**

3.00



RH 17°45'

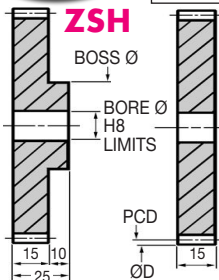


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



**DISCOUNTS**

	1 - 5	List Price
6 - 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
ZSH16-9	9	0.656	0.781	0.708	6	£6.94	£5.23
ZSH16-10	10	0.656	0.781	0.708	6	£6.95	£5.25
ZSH16-11	11	0.722	0.847	0.708	6	£6.96	£5.27
ZSH16-12	12	0.788	0.913	0.708	6	£6.97	£5.29
ZSH16-13	13	0.853	0.978	0.708	6	£6.99	£5.30
ZSH16-14	14	0.919	1.044	0.787	8	£7.10	£5.48
ZSH16-15	15	0.984	1.109	0.787	8	£7.36	£5.58
ZSH16-16	16	1.050	1.175	0.787	8	£8.59	£6.54
ZSH16-17	17	1.116	1.241	0.787	8	£8.93	£6.77
ZSH16-18	18	1.181	1.306	0.944	8	£9.32	£7.14
ZSH16-19	19	1.247	1.372	0.984	8	£9.37	£7.36
ZSH16-20	20	1.313	1.438	0.984	8	£9.86	£7.49
ZSH16-21	21	1.378	1.503	0.984	8	£10.42	£7.99
ZSH16-22	22	1.444	1.569	0.984	8	£12.16	£8.47
ZSH16-23	23	1.509	1.634	0.984	8	£12.32	£9.40
ZSH16-24	24	1.575	1.700	0.984	8	£12.75	£9.51
ZSH16-25	25	1.641	1.766	0.984	8	£13.27	£10.15
ZSH16-26	26	1.706	1.831	0.984	8	£13.68	£10.50
ZSH16-27	27	1.772	1.897	0.984	8	£13.93	£10.65
ZSH16-28	28	1.838	1.963	0.984	8	£17.02	£13.04
ZSH16-29	29	1.903	2.028	0.984	8	£17.28	£13.27
ZSH16-30	30	1.969	2.094	0.984	8	£17.52	£13.41
ZSH16-31	31	2.034	2.159	1.102	10	£17.99	£13.78

Helical Gears Parallel Axis Plastic DP 16

24.68



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Telephone +44(0)1246 268080 Fax +44(0)1246 260003

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH16-32	32	2.100	2.225	1.102	10	£18.40	£14.08
ZSH16-33	33	2.166	2.291	1.102	10	£18.48	£14.13
ZSH16-34	34	2.231	2.356	1.102	10	£21.09	£16.13
ZSH16-35	35	2.297	2.422	1.102	10	£21.10	£16.22
ZSH16-38	38	2.494	2.619	1.102	10	£21.24	£16.25
ZSH16-39	39	2.559	2.684	1.102	10	£21.52	£16.53
ZSH16-40	40	2.625	2.750	1.181	12	£21.98	£16.81
ZSH16-41	41	2.691	2.816	1.181	12	£22.55	£17.28
ZSH16-42	42	2.756	2.881	1.181	12	£22.80	£17.51
ZSH16-43	43	2.822	2.947	1.181	12	£23.07	£17.67
ZSH16-44	44	2.888	3.013	1.181	12	£23.64	£18.13
ZSH16-45	45	2.953	3.078	1.181	12	£25.68	£19.66
ZSH16-46	46	3.019	3.144	1.181	12	£27.13	£20.73
ZSH16-47	47	3.084	3.209	1.181	12	£27.16	£20.82
ZSH16-48	48	3.150	3.275	1.181	12	£27.96	£21.39
ZSH16-49	49	3.216	3.341	1.181	12	£28.89	£22.12
ZSH16-50	50	3.281	3.406	1.181	12	£29.54	£22.68
ZSH16-51	51	3.347	3.472	1.181	12	£30.32	£23.20
ZSH16-52	52	3.413	3.538	1.181	12	£30.78	£23.56
ZSH16-53	53	3.478	3.603	1.181	12	£31.34	£24.07
ZSH16-54	54	3.544	3.669	1.181	12	£35.45	£27.21
ZSH16-55	55	3.609	3.734	1.181	12	£36.72	£28.15
ZSH16-56	56	3.675	3.800	1.181	12	£37.79	£28.97
ZSH16-57	57	3.741	3.866	1.181	12	£38.12	£29.26
ZSH16-58	58	3.806	3.931	1.181	12	£38.65	£29.67
ZSH16-59	59	3.872	3.997	1.181	12	£39.91	£30.55
ZSH16-60	60	3.938	4.063	1.181	12	£44.50	£34.15
ZSH16-61	61	4.003	4.128	1.181	12	£45.15	£34.61
ZSH16-62	62	4.069	4.194	1.181	12	£45.90	£35.17
ZSH16-63	63	4.134	4.259	1.181	12	£47.19	£36.22
ZSH16-64	64	4.200	4.325	1.181	12	£48.52	£37.20
ZSH16-65	65	4.266	4.391	1.181	12	£49.16	£37.68
ZSH16-66	66	4.331	4.456	1.574	12	£49.72	£38.15
ZSH16-68	68	4.463	4.588	1.574	12	£50.60	£38.77
ZSH16-70	70	4.594	4.719	1.574	12	£52.10	£39.96
ZSH16-71	71	4.659	4.784	1.574	12	£52.64	£40.32
ZSH16-72	72	4.725	4.850	1.574	12	£57.54	£45.60
ZSH16-73	73	4.791	4.916	1.574	12	£61.07	£50.92
ZSH16-74	74	4.856	4.981	1.574	12	£72.27	£61.30
ZSH16-75	75	4.922	5.047	1.574	12	£82.53	£65.62
ZSH16-76	76	4.988	5.113	1.574	12	£83.09	£65.62
ZSH16-78	78	5.119	5.244	1.574	12	£89.20	£74.22
ZSH16-80	80	5.250	5.375	1.574	12	£94.64	£77.59
ZSH16-86	86	5.644	5.769	1.574	12	£99.14	£83.18
ZSH16-90	90	5.906	6.031	1.574	15	£106.54	£84.86
ZSH16-96	96	6.300	6.425	1.574	15	£119.81	£98.17
ZSH16-98	98	6.431	6.556	1.574	15	£144.30	£122.66
ZSH16-100	100	6.563	6.688	1.968	20	£178.47	£156.82

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

