

# Helical Gears

## Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

40 DP

17°45' H.A.

20° P.A.

ALTERNATIVE : Brass, Tufnol or Delrin

SPECIAL TEETH : between 9 - 200

TORQUE CHECK 50 teeth x 1000 rpm		214M15 303S21	214M15 Cse/HD	Brass	Tufnol
variations at back	TORQUE Nm.	1.36	5.36	0.68	0.48
	K.W.	0.1417	0.559	0.074	0.052



RH 17°45'

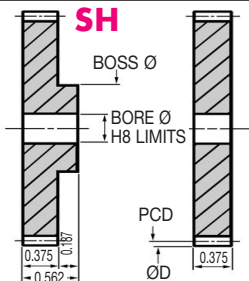


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will



PSH

### 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	
						SH	PSH
SH40-9	9	0.263	0.313	0.313	0.125	£11.56	£9.26
SH40-10	10	0.263	0.313	0.313	0.125	£11.58	£9.28
SH40-11	11	0.289	0.339	0.339	0.125	£11.59	£9.30
SH40-12	12	0.315	0.365	0.365	0.187	£11.65	£9.31
SH40-13	13	0.341	0.391	0.391	0.187	£11.65	£9.32
SH40-14	14	0.368	0.418	0.418	0.187	£11.66	£9.35
SH40-15	15	0.394	0.444	0.444	0.187	£11.77	£9.38
SH40-16	16	0.420	0.470	0.470	0.187	£11.84	£9.47
SH40-17	17	0.446	0.496	0.500	0.187	£11.85	£9.48
SH40-18	18	0.473	0.523	0.500	0.187	£11.86	£9.49
SH40-19	19	0.499	0.549	0.500	0.187	£12.11	£9.67
SH40-20	20	0.525	0.575	0.500	0.187	£12.34	£9.93
SH40-21	21	0.551	0.601	0.500	0.187	£12.44	£9.96
SH40-22	22	0.578	0.628	0.500	0.187	£12.50	£9.97
SH40-23	23	0.604	0.654	0.500	0.187	£12.51	£10.01
SH40-24	24	0.630	0.680	0.500	0.187	£12.77	£10.22
SH40-25	25	0.656	0.706	0.500	0.187	£13.01	£10.32
SH40-26	26	0.683	0.733	0.500	0.187	£13.09	£10.43
SH40-27	27	0.709	0.759	0.500	0.187	£13.26	£10.57
SH40-28	28	0.735	0.785	0.500	0.187	£13.31	£10.70
SH40-29	29	0.761	0.811	0.500	0.187	£13.59	£10.80
SH40-30	30	0.788	0.838	0.500	0.187	£13.82	£10.99
SH40-31	31	0.814	0.864	0.500	0.187	£14.36	£11.49

24.50



Unit 14, Foxwood Ind. Park, Foxwood Rd. Chesterfield, Derbyshire S41 9RN  
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Helical Gears Parallel Axis Steel DP 40

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5	
						SH	PSH
SH40-32	32	0.840	0.890	0.500	0.187	£14.50	£11.59
SH40-33	33	0.866	0.916	0.500	0.187	£14.72	£11.77
SH40-34	34	0.893	0.943	0.500	0.187	£14.96	£11.93
SH40-35	35	0.919	0.969	0.500	0.187	£15.07	£12.06
SH40-36	36	0.945	0.995	0.500	0.187	£15.33	£12.22
SH40-37	37	0.971	1.021	0.500	0.187	£15.47	£12.39
SH40-38	38	0.998	1.048	0.625	0.250	£15.61	£12.44
SH40-39	39	1.024	1.074	0.625	0.250	£15.90	£12.69
SH40-40	40	1.050	1.100	0.625	0.250	£16.04	£12.83
SH40-41	41	1.076	1.126	0.625	0.250	£16.22	£13.00
SH40-42	42	1.103	1.153	0.625	0.250	£16.35	£13.03
SH40-43	43	1.129	1.179	0.625	0.250	£16.45	£13.13
SH40-44	44	1.155	1.205	0.625	0.250	£16.60	£13.27
SH40-45	45	1.181	1.231	0.625	0.250	£16.77	£13.41
SH40-46	46	1.208	1.258	0.625	0.250	£16.92	£13.54
SH40-47	47	1.234	1.284	0.625	0.250	£16.98	£13.61
SH40-48	48	1.260	1.310	0.625	0.250	£17.13	£13.68
SH40-49	49	1.286	1.336	0.625	0.250	£17.18	£13.70
SH40-50	50	1.313	1.363	0.625	0.250	£17.28	£13.77
SH40-51	51	1.339	1.389	0.625	0.250	£17.37	£13.93
SH40-52	52	1.365	1.415	0.625	0.250	£17.38	£13.95
SH40-53	53	1.391	1.441	0.625	0.250	£17.51	£13.98
SH40-54	54	1.418	1.468	0.625	0.250	£17.62	£14.05
SH40-55	55	1.444	1.494	0.625	0.250	£17.67	£14.15
SH40-56	56	1.470	1.520	0.625	0.250	£17.77	£14.20
SH40-57	57	1.496	1.546	0.625	0.250	£17.87	£14.27
SH40-58	58	1.523	1.573	0.625	0.250	£17.88	£14.33
SH40-59	59	1.549	1.599	0.625	0.250	£17.90	£14.44
SH40-60	60	1.575	1.625	0.625	0.250	£18.23	£14.64
SH40-61	61	1.601	1.651	0.625	0.250	£18.37	£14.68
SH40-62	62	1.628	1.678	0.625	0.250	£18.66	£14.90
SH40-63	63	1.654	1.704	0.625	0.250	£18.77	£15.02
SH40-64	64	1.680	1.730	0.625	0.250	£18.88	£15.14
SH40-66	66	1.733	1.783	0.625	0.250	£19.13	£15.33
SH40-68	68	1.785	1.835	0.625	0.250	£19.27	£15.39
SH40-70	70	1.838	1.888	0.625	0.250	£20.08	£15.97
SH40-75	75	1.969	2.019	0.625	0.250	£21.38	£17.13
SH40-76	76	1.995	2.045	0.625	0.250	£21.84	£17.38
SH40-80	80	2.100	2.150	0.625	0.250	£23.25	£18.61
SH40-86	86	2.258	2.308	0.750	0.250	£23.87	£19.07
SH40-88	88	2.310	2.360	0.750	0.250	£25.05	£19.98
SH40-90	90	2.363	2.413	0.750	0.250	£25.43	£20.36
SH40-96	96	2.520	2.570	0.750	0.250	£25.68	£20.56
SH40-100	100	2.625	2.675	0.750	0.250	£26.04	£20.82
SH40-112	112	2.940	2.990	0.750	0.250	£27.02	£23.91
SH40-120	120	3.150	3.200	0.750	0.250	£28.20	£25.43
SH40-127	127	3.334	3.384	0.750	0.312	£30.00	£26.89
SH40-128	128	3.360	3.410	0.750	0.312	£32.05	£28.57
SH40-140	140	3.675	3.725	1.000	0.375	£34.06	£31.01
SH40-150	150	3.938	3.988	1.000	0.375	£34.19	£32.81
SH40-175	175	4.594	4.644	1.500	0.500	£44.33	£35.47
SH40-200	200	5.250	5.300	1.500	0.750	£49.63	£39.69

*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

**40 DP**

17°45' H.A.

20° P.A.

STD : White Delrin  
(fully machined)

SPECIAL TEETH : between 9 - 150

**SPECIALS**  
ON DEMAND

TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.40



**RH 17°45'**

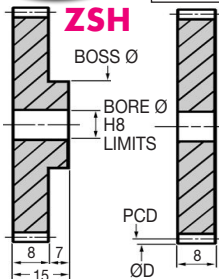


**LH 17°45'**

**LH runs with RH**

Popular sizes in stock.

Any two part numbers of this pitch will run together.



**ZPSH**

### DISCOUNTS

Quantity	Discount
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
ZSH40-9	9	0.263	0.313	0.313	2	£5.29	£4.40
ZSH40-10	10	0.263	0.313	0.313	2	£5.30	£4.41
ZSH40-11	11	0.289	0.339	0.339	2	£5.32	£4.42
ZSH40-12	12	0.315	0.365	0.365	2	£5.33	£4.44
ZSH40-13	13	0.341	0.391	0.391	2	£5.83	£4.49
ZSH40-14	14	0.368	0.418	0.418	3	£5.85	£4.51
ZSH40-15	15	0.394	0.444	0.444	3	£5.86	£4.53
ZSH40-16	16	0.420	0.470	0.470	3	£5.87	£4.54
ZSH40-17	17	0.446	0.496	0.496	3	£5.90	£4.56
ZSH40-18	18	0.473	0.523	0.523	3	£5.91	£4.57
ZSH40-19	19	0.499	0.549	0.549	3	£6.06	£4.62
ZSH40-20	20	0.525	0.575	0.575	3	£6.15	£4.73
ZSH40-21	21	0.551	0.601	0.472	3	£6.20	£4.75
ZSH40-22	22	0.578	0.628	0.472	3	£6.24	£4.78
ZSH40-23	23	0.604	0.654	0.472	3	£6.30	£4.79
ZSH40-24	24	0.630	0.680	0.472	3	£6.38	£4.85
ZSH40-25	25	0.656	0.706	0.472	3	£6.50	£4.97
ZSH40-26	26	0.683	0.733	0.551	4	£6.54	£4.99
ZSH40-27	27	0.709	0.759	0.551	4	£6.65	£5.06
ZSH40-28	28	0.735	0.785	0.551	4	£6.68	£5.09
ZSH40-29	29	0.761	0.811	0.551	4	£6.77	£5.22
ZSH40-30	30	0.788	0.838	0.551	4	£6.95	£5.30
ZSH40-31	31	0.814	0.864	0.551	4	£7.27	£5.52

**24.52**



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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH40-32	32	0.840	0.890	0.551	4	£7.28	£5.54
ZSH40-33	33	0.866	0.916	0.551	4	£7.38	£5.58
ZSH40-34	34	0.893	0.943	0.551	4	£7.45	£5.73
ZSH40-35	35	0.919	0.969	0.551	4	£7.63	£5.79
ZSH40-36	36	0.945	0.995	0.551	4	£7.72	£5.83
ZSH40-37	37	0.971	1.021	0.551	4	£7.73	£5.90
ZSH40-38	38	0.998	1.048	0.551	4	£7.82	£5.95
ZSH40-39	39	1.024	1.074	0.629	5	£7.99	£6.10
ZSH40-40	40	1.050	1.100	0.629	5	£8.02	£6.14
ZSH40-41	41	1.076	1.126	0.629	5	£8.12	£6.20
ZSH40-42	42	1.103	1.153	0.629	5	£8.18	£6.30
ZSH40-43	43	1.129	1.179	0.629	5	£8.20	£6.32
ZSH40-44	44	1.155	1.205	0.629	5	£9.18	£7.02
ZSH40-45	45	1.181	1.231	0.629	5	£9.26	£7.04
ZSH40-46	46	1.208	1.258	0.629	5	£9.32	£7.10
ZSH40-47	47	1.234	1.284	0.629	5	£9.40	£7.14
ZSH40-48	48	1.260	1.310	0.629	5	£9.47	£7.27
ZSH40-49	49	1.286	1.336	0.629	5	£9.51	£7.27
ZSH40-50	50	1.313	1.363	0.629	5	£9.55	£7.28
ZSH40-51	51	1.339	1.389	0.629	5	£9.57	£7.36
ZSH40-52	52	1.365	1.415	0.629	5	£9.60	£7.37
ZSH40-53	53	1.391	1.441	0.629	5	£9.65	£7.38
ZSH40-54	54	1.418	1.468	0.629	5	£9.74	£7.40
ZSH40-55	55	1.444	1.494	0.629	5	£9.76	£7.44
ZSH40-56	56	1.470	1.520	0.629	5	£9.82	£7.45
ZSH40-57	57	1.496	1.546	0.629	5	£9.86	£7.49
ZSH40-58	58	1.523	1.573	0.629	5	£9.93	£7.63
ZSH40-59	59	1.549	1.599	0.629	5	£11.28	£8.62
ZSH40-60	60	1.575	1.625	0.629	5	£11.49	£8.81
ZSH40-61	61	1.601	1.651	0.629	5	£11.51	£8.84
ZSH40-62	62	1.628	1.678	0.629	5	£11.73	£8.93
ZSH40-63	63	1.654	1.704	0.629	5	£11.84	£9.04
ZSH40-64	64	1.680	1.730	0.629	5	£11.85	£9.08
ZSH40-66	66	1.733	1.783	0.629	5	£12.06	£9.20
ZSH40-68	68	1.785	1.835	0.708	6	£12.66	£9.26
ZSH40-70	70	1.838	1.888	0.708	6	£16.18	£9.65
ZSH40-75	75	1.969	2.019	0.708	6	£16.46	£12.39
ZSH40-76	76	1.995	2.045	0.708	6	£17.61	£12.66
ZSH40-80	80	2.100	2.150	0.708	6	£18.04	£13.41
ZSH40-86	86	2.258	2.308	0.708	6	£18.94	£13.78
ZSH40-88	88	2.310	2.360	0.708	6	£21.85	£14.50
ZSH40-90	90	2.363	2.413	0.708	6	£21.98	£16.73
ZSH40-96	96	2.520	2.570	0.708	6	£22.36	£16.92
ZSH40-100	100	2.625	2.675	0.708	6	£23.10	£17.06
ZSH40-112	112	2.940	2.990	0.708	6	£23.15	£17.76
ZSH40-120	120	3.150	3.200	0.787	8	£24.16	£18.48
ZSH40-127	127	3.334	3.384	0.787	8	£30.32	£24.61
ZSH40-128	128	3.360	3.410	0.787	8	£38.03	£32.33
ZSH40-140	140	3.675	3.725	0.787	8	£47.92	£42.25
ZSH40-150	150	3.938	3.988	0.984	10	£60.73	£55.04

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

