

# Helical Gears

## Materials

Steel - Parallel Axis

STD : Steel 214M15/045M10

48 DP

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

20° P.A.

SPECIAL TEETH : between 10 - 250

TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol	
variations at back	<b>TORQUE Nm.</b>	0.63	2.48	0.31	0.22
	<b>K.W.</b>	0.067	0.261	0.029	0.022

Helical Gears Parallel Axis Steel DP48



RH 17°45'

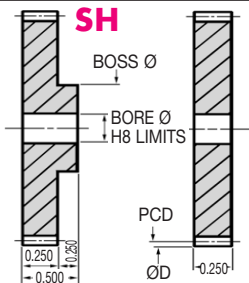


LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.



### DISCOUNTS

Quantity	Discount
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
SH48-10	10	0.241	0.282	0.282	0.125	£9.04	£7.54
SH48-11	11	0.241	0.282	0.282	0.125	£9.06	£7.55
SH48-12	12	0.263	0.304	0.304	0.125	£9.07	£7.57
SH48-13	13	0.284	0.326	0.312	0.125	£9.18	£7.73
SH48-14	14	0.306	0.348	0.312	0.125	£9.28	£7.89
SH48-15	15	0.328	0.370	0.312	0.125	£9.40	£8.03
SH48-16	16	0.350	0.392	0.312	0.125	£9.58	£8.17
SH48-17	17	0.372	0.414	0.312	0.125	£9.61	£8.36
SH48-18	18	0.394	0.435	0.312	0.125	£9.73	£8.51
SH48-19	19	0.416	0.457	0.312	0.125	£9.80	£8.52
SH48-20	20	0.438	0.479	0.375	0.187	£9.90	£8.59
SH48-21	21	0.459	0.501	0.375	0.187	£10.00	£8.64
SH48-22	22	0.481	0.523	0.375	0.187	£10.07	£8.67
SH48-23	23	0.503	0.545	0.375	0.187	£10.22	£8.75
SH48-24	24	0.525	0.567	0.375	0.187	£10.29	£8.78
SH48-25	25	0.547	0.589	0.375	0.187	£10.37	£8.84
SH48-26	26	0.569	0.610	0.375	0.187	£10.47	£8.89
SH48-27	27	0.591	0.632	0.375	0.187	£10.53	£8.99
SH48-28	28	0.613	0.654	0.375	0.187	£10.62	£9.07
SH48-29	29	0.634	0.676	0.375	0.187	£10.75	£9.12
SH48-30	30	0.656	0.698	0.375	0.187	£10.84	£9.13
SH48-31	31	0.678	0.720	0.375	0.187	£10.98	£9.18
SH48-32	32	0.700	0.742	0.375	0.187	£11.06	£9.19

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PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (ins)	PRICE EACH 1 - 5 SH	PSH
SH48-33	33	0.722	0.764	0.375	0.187	£11.20	£9.28
SH48-34	34	0.744	0.785	0.375	0.187	£11.30	£9.33
SH48-35	35	0.766	0.807	0.375	0.187	£11.45	£9.49
SH48-36	36	0.788	0.829	0.375	0.187	£11.59	£9.58
SH48-37	37	0.806	0.851	0.375	0.187	£11.85	£9.65
SH48-38	38	0.831	0.873	0.375	0.187	£12.00	£9.75
SH48-39	39	0.853	0.895	0.375	0.187	£12.17	£9.90
SH48-40	40	0.875	0.917	0.375	0.187	£12.32	£10.02
SH48-41	41	0.897	0.939	0.375	0.187	£12.55	£10.13
SH48-42	42	0.919	0.960	0.375	0.187	£12.64	£10.29
SH48-43	43	0.941	0.982	0.375	0.187	£12.80	£10.38
SH48-44	44	0.963	1.004	0.375	0.187	£12.94	£10.52
SH48-45	45	0.984	1.026	0.375	0.187	£13.07	£10.62
SH48-46	46	1.006	1.048	0.375	0.187	£13.24	£10.74
SH48-47	47	1.028	1.070	0.375	0.187	£13.43	£10.84
SH48-48	48	1.050	1.092	0.500	0.250	£13.57	£10.89
SH48-49	49	1.072	1.114	0.500	0.250	£13.68	£11.00
SH48-50	50	1.094	1.135	0.500	0.250	£13.77	£11.06
SH48-51	51	1.116	1.157	0.500	0.250	£13.87	£11.16
SH48-52	52	1.138	1.179	0.500	0.250	£13.97	£11.27
SH48-53	53	1.159	1.201	0.500	0.250	£14.06	£11.34
SH48-54	54	1.181	1.223	0.500	0.250	£14.15	£11.45
SH48-55	55	1.203	1.245	0.500	0.250	£14.24	£11.55
SH48-56	56	1.225	1.267	0.500	0.250	£14.33	£11.62
SH48-57	57	1.247	1.289	0.500	0.250	£14.38	£11.74
SH48-58	58	1.269	1.310	0.500	0.250	£14.54	£11.84
SH48-59	59	1.291	1.332	0.500	0.250	£14.64	£11.89
SH48-60	60	1.313	1.354	0.500	0.250	£14.70	£11.99
SH48-61	61	1.334	1.376	0.500	0.250	£14.76	£12.10
SH48-62	62	1.356	1.398	0.500	0.250	£14.86	£12.16
SH48-63	63	1.378	1.420	0.500	0.250	£14.98	£12.27
SH48-64	64	1.400	1.442	0.500	0.250	£15.08	£12.41
SH48-65	65	1.422	1.464	0.500	0.250	£15.17	£12.46
SH48-68	68	1.488	1.529	0.500	0.250	£15.17	£12.52
SH48-70	70	1.531	1.573	0.500	0.250	£15.20	£12.58
SH48-72	72	1.575	1.617	0.500	0.250	£15.25	£12.64
SH48-75	75	1.641	1.682	0.500	0.250	£15.53	£12.94
SH48-77	77	1.684	1.726	0.500	0.250	£15.83	£13.16
SH48-80	80	1.750	1.792	0.500	0.250	£16.01	£13.44
SH48-84	84	1.838	1.879	0.500	0.250	£16.36	£13.80
SH48-86	86	1.881	1.923	0.500	0.250	£16.74	£13.89
SH48-88	88	1.925	1.967	0.500	0.250	£17.18	£14.00
SH48-90	90	1.969	2.010	0.500	0.250	£17.37	£14.19
SH48-96	96	2.100	2.142	0.750	0.250	£17.61	£14.72
SH48-100	100	2.188	2.229	0.750	0.250	£18.13	£15.83
SH48-120	120	2.625	2.667	0.750	0.250	£22.08	£18.13
SH48-140	140	3.063	3.104	0.750	0.375	£27.28	£19.30
SH48-150	150	3.281	3.323	0.750	0.375	£29.81	£21.32
SH48-180	180	3.938	3.979	0.750	0.375	£32.84	£24.60

*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

48 DP

17°45' H.A.

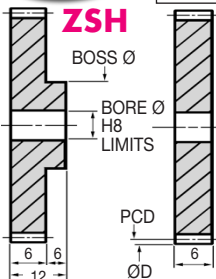
20° P.A.

STD : White Delrin  
(fully machined)

SPECIAL TEETH : between 10 - 180



TORQUE CHECK	
50 teeth x 1000 rpm	
variations at back	TORQUE Nm. 0.13



ZPSH

### DISCOUNTS

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

RH 17°45'



LH 17°45'

LH runs with RH

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH48-10	10	0.241	0.282	0.282	2	£4.38	£3.32
ZSH48-11	11	0.241	0.282	0.282	2	£4.41	£3.33
ZSH48-12	12	0.263	0.304	0.304	2	£4.42	£3.37
ZSH48-13	13	0.284	0.326	0.326	2	£4.43	£3.37
ZSH48-14	14	0.306	0.348	0.348	2	£4.44	£3.39
ZSH48-15	15	0.328	0.370	0.275	2	£4.45	£3.40
ZSH48-16	16	0.350	0.392	0.275	2	£4.54	£3.43
ZSH48-17	17	0.372	0.414	0.315	2	£4.55	£3.49
ZSH48-18	18	0.394	0.435	0.315	2	£4.65	£3.53
ZSH48-19	19	0.416	0.457	0.354	3	£4.69	£3.58
ZSH48-20	20	0.438	0.479	0.354	3	£4.71	£3.60
ZSH48-21	21	0.459	0.501	0.354	3	£4.76	£3.65
ZSH48-22	22	0.481	0.523	0.354	3	£4.83	£3.71
ZSH48-23	23	0.503	0.545	0.393	3	£4.87	£3.77
ZSH48-24	24	0.525	0.567	0.393	3	£4.92	£3.78
ZSH48-25	25	0.547	0.589	0.393	3	£4.94	£3.81
ZSH48-26	26	0.569	0.610	0.393	3	£4.97	£3.82
ZSH48-27	27	0.591	0.632	0.393	3	£5.03	£3.89
ZSH48-28	28	0.613	0.654	0.393	3	£5.06	£3.92
ZSH48-29	29	0.634	0.676	0.393	3	£5.12	£3.95
ZSH48-30	30	0.656	0.698	0.472	4	£5.16	£4.01
ZSH48-31	31	0.678	0.720	0.472	4	£5.24	£4.03
ZSH48-32	32	0.700	0.742	0.472	4	£5.27	£4.08

Helical Gears Parallel Axis Plastic DP 48



PART NUMBER	TEETH	PCD (ins)	ØD (ins)	BOSS Ø (ins)	BORE Ø (mm)	PRICE EACH 1 - 5	
						ZSH	ZPSH
ZSH48-33	33	0.722	0.764	0.472	4	£5.35	£4.13
ZSH48-34	34	0.744	0.785	0.472	4	£5.43	£4.15
ZSH48-35	35	0.766	0.807	0.472	4	£5.48	£4.41
ZSH48-36	36	0.788	0.829	0.472	4	£5.68	£4.45
ZSH48-37	37	0.806	0.851	0.472	4	£5.91	£4.50
ZSH48-38	38	0.831	0.873	0.472	4	£5.96	£4.55
ZSH48-39	39	0.853	0.895	0.472	4	£5.99	£4.63
ZSH48-40	40	0.875	0.917	0.472	4	£6.08	£4.69
ZSH48-41	41	0.897	0.939	0.472	4	£6.20	£4.71
ZSH48-42	42	0.919	0.960	0.472	4	£6.27	£4.76
ZSH48-43	43	0.941	0.982	0.472	4	£6.30	£4.87
ZSH48-44	44	0.963	1.004	0.472	4	£6.37	£4.92
ZSH48-45	45	0.984	1.026	0.472	4	£6.51	£4.95
ZSH48-46	46	1.006	1.048	0.472	4	£6.56	£4.97
ZSH48-47	47	1.028	1.070	0.472	4	£6.57	£5.03
ZSH48-48	48	1.050	1.092	0.472	4	£6.59	£5.06
ZSH48-49	49	1.072	1.114	0.472	4	£6.65	£5.12
ZSH48-50	50	1.094	1.135	0.472	4	£6.68	£5.13
ZSH48-51	51	1.116	1.157	0.472	4	£6.75	£5.16
ZSH48-52	52	1.138	1.179	0.472	4	£7.49	£5.71
ZSH48-53	53	1.159	1.201	0.472	4	£7.57	£5.85
ZSH48-54	54	1.181	1.223	0.551	4	£7.58	£5.90
ZSH48-55	55	1.203	1.245	0.551	4	£7.61	£5.91
ZSH48-56	56	1.225	1.267	0.551	4	£7.69	£5.92
ZSH48-57	57	1.247	1.289	0.551	4	£7.72	£5.93
ZSH48-58	58	1.269	1.310	0.551	4	£7.79	£5.94
ZSH48-59	59	1.291	1.332	0.551	4	£7.80	£5.95
ZSH48-60	60	1.313	1.354	0.551	4	£7.88	£5.96
ZSH48-61	61	1.334	1.376	0.551	4	£7.91	£5.99
ZSH48-62	62	1.356	1.398	0.551	4	£7.92	£6.04
ZSH48-63	63	1.378	1.420	0.551	4	£7.93	£6.05
ZSH48-64	64	1.400	1.442	0.551	4	£7.98	£6.08
ZSH48-65	65	1.422	1.464	0.551	4	£8.03	£6.12
ZSH48-68	68	1.488	1.529	0.551	4	£8.03	£6.18
ZSH48-70	70	1.531	1.573	0.551	4	£9.31	£7.13
ZSH48-72	72	1.575	1.617	0.551	4	£9.45	£7.26
ZSH48-75	75	1.641	1.682	0.551	4	£9.58	£7.32
ZSH48-77	77	1.684	1.726	0.551	4	£9.78	£7.49
ZSH48-80	80	1.750	1.792	0.629	5	£9.99	£7.69
ZSH48-84	84	1.838	1.879	0.629	5	£10.24	£7.79
ZSH48-86	86	1.881	1.923	0.629	5	£10.27	£7.80
ZSH48-88	88	1.925	1.967	0.629	5	£10.28	£7.88
ZSH48-90	90	1.969	2.010	0.629	5	£10.37	£7.98
ZSH48-96	96	2.100	2.142	0.629	5	£12.64	£9.73
ZSH48-100	100	2.188	2.229	0.787	5	£13.51	£10.46
ZSH48-120	120	2.625	2.667	0.787	5	£16.72	£12.59
ZSH48-140	140	3.063	3.104	0.787	5	£21.89	£17.80
ZSH48-150	150	3.281	3.323	0.787	5	£28.48	£24.34
ZSH48-180	180	3.938	3.979	0.787	5	£36.88	£32.75

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

