

# Spur Gears

## Materials

Standard duty

STD : Steel 214M15/045M10

ALTERNATIVE : Brass, Tufnol or Delrin

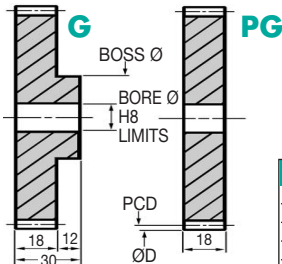
14 DP

20° P.A.

SPECIAL TEETH : between 9 - 240



TORQUE CHECK 50 teeth x 1000 rpm	214M15 303S21	214M15 Cse/HD	Brass	Tufnol
<b>TORQUE Nm.</b>	16.000	75.000	8.000	6.400
<b>variations at back K.W.</b>	1.720	7.830	0.860	0.670



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1 - 5	
						G	PG
G14-9	9	18.14	21.77	21.00	10	£12.96	£11.00
G14-10	10	19.96	23.59	22.75	10	£12.97	£11.01
G14-11	11	21.77	25.40	24.50	10	£12.99	£11.04
G14-12	12	21.77	25.40	24.50	10	£13.00	£11.07
G14-13	13	23.59	27.21	25.00	10	£13.33	£11.36
G14-14	14	25.40	29.03	25.00	10	£14.10	£11.96
G14-15	15	27.21	30.84	25.00	10	£14.67	£12.51
G14-16	16	29.03	32.66	25.00	12	£14.97	£12.70
G14-17	17	30.84	34.47	25.00	12	£15.35	£13.04
G14-18	18	32.66	36.29	25.00	12	£16.02	£13.62
G14-19	19	34.47	38.10	25.00	12	£16.67	£14.17
G14-20	20	36.29	39.91	30.00	12	£17.81	£15.14
G14-21	21	38.10	41.73	30.00	12	£18.24	£15.51
G14-22	22	39.91	43.54	30.00	12	£18.51	£15.74
G14-23	23	41.73	45.36	30.00	12	£19.47	£16.52
G14-24	24	43.54	47.17	30.00	12	£20.36	£17.25
G14-25	25	45.36	48.99	30.00	12	£20.47	£17.39
G14-26	26	47.17	50.80	30.00	12	£20.61	£17.56
G14-27	27	48.99	52.61	30.00	12	£20.95	£17.76
G14-28	28	50.80	54.43	40.00	15	£21.04	£17.99
G14-29	29	52.61	56.24	40.00	15	£21.22	£18.07
G14-30	30	54.43	58.06	40.00	15	£21.84	£18.55
G14-31	31	56.24	59.87	40.00	15	£22.30	£18.95

23.126



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 (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1 - 5	
						G	PG
G14-32	32	58.06	61.69	40	15	£22.53	£19.10
G14-33	33	59.87	63.50	40	15	£22.63	£19.26
G14-34	34	61.69	65.31	40	15	£23.02	£19.53
G14-35	35	63.50	67.13	40	15	£23.07	£18.64
G14-36	36	65.31	68.94	50	15	£23.88	£20.26
G14-37	37	67.13	70.76	50	15	£24.94	£21.18
G14-38	38	68.94	72.57	50	15	£25.49	£21.64
G14-39	39	70.76	74.39	50	15	£26.22	£22.26
G14-40	40	72.57	76.20	50	15	£26.81	£22.74
G14-41	41	74.39	78.01	50	15	£27.21	£23.12
G14-42	42	76.20	79.83	50	15	£27.76	£23.65
G14-43	43	78.01	81.64	50	15	£28.84	£24.50
G14-44	44	79.83	83.46	50	15	£29.25	£24.83
G14-45	45	81.64	85.27	60	20	£29.65	£25.18
G14-46	46	83.46	87.09	60	20	£30.23	£25.70
G14-47	47	85.27	88.90	60	20	£30.78	£26.12
G14-48	48	87.09	90.71	60	20	£31.60	£26.87
G14-49	49	88.90	92.53	60	20	£32.78	£27.85
G14-50	50	90.71	94.34	60	20	£33.16	£28.16
G14-51	51	92.53	96.16	60	20	£33.99	£28.84
G14-52	52	94.34	97.97	60	20	£34.84	£29.56
G14-53	53	96.16	99.79	60	20	£35.70	£30.33
G14-54	54	97.97	101.60	80	20	£38.56	£32.67
G14-55	55	99.79	103.41	80	20	£39.69	£33.79
G14-56	56	101.60	105.23	80	20	£41.42	£35.21
G14-57	57	103.41	107.04	80	20	£42.78	£36.32
G14-58	58	105.23	108.86	80	20	£44.05	£37.43
G14-59	59	107.04	110.67	80	20	£45.48	£38.63
G14-60	60	108.86	112.49	80	20	£47.31	£40.17
G14-62	62	112.49	116.11	80	20	£48.46	£41.19
G14-64	64	116.11	119.74	80	20	£49.88	£42.42
G14-65	65	117.93	121.56	80	20	£51.47	£43.74
G14-66	66	119.74	123.37	80	20	£53.03	£45.08
G14-68	68	123.37	127.00	80	20	£54.59	£46.40
G14-70	70	127.00	130.63	100	20	£56.09	£47.63
G14-71	71	128.81	132.44	100	20	£56.90	£48.33
G14-72	72	130.63	134.26	100	20	£57.98	£49.24
G14-73	73	132.44	136.07	100	20	£58.79	£50.01
G14-74	74	134.26	137.89	100	20	£59.69	£50.76
G14-75	75	136.07	139.70	100	20	£60.56	£51.45
G14-76	76	137.89	141.51	100	20	£61.48	£52.26
G14-78	78	141.51	145.14	100	20	£66.25	£56.27
G14-80	80	145.14	148.77	100	20	£70.16	£59.57
G14-86	86	156.03	159.66	100	20	£78.88	£65.13
G14-90	90	163.29	166.91	100	20	£86.34	£65.59
G14-96	96	174.17	177.80	100	20	£95.54	£81.47
G14-98	98	177.80	181.43	100	20	£99.42	£84.50
G14-100	100	181.43	185.06	100	20	£103.77	£88.20
G14-105	105	190.50	194.13	100	20	£109.18	£90.24
G14-110	110	199.57	203.20	100	20	£113.93	£91.59
G14-115	115	208.64	212.27	100	20	£120.60	£102.53
G14-120	120	217.71	221.34	100	20	£126.82	£107.83

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



# Spur Gears

## Materials

Heavy duty steel

STD : 817M40 (En24) or 655M13 (En36)  
ALTERNATIVE : 080M40 (En8) torque x 0.47  
of 655M13(En36)

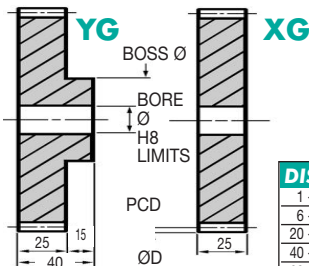
14 DP

20° P.A.

SPECIAL TEETH : between 9 - 240



TORQUE CHECK 50 teeth x 1000 rpm	655M13	655M13 Cse/HD	817M40	817M40 Ind/HD
variations at back	26.00	114.00	13.00	10.00
<b>TORQUE Nm. K.W.</b>	2.72	11.95	1.36	1.05



DISCOUNTS	
1 - 5	List Price
6 - 19	- 12%
20 - 39	- 25%
40 - 59	- 33%
60 - 99	- 37%
100 - 200	- 42%

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1 - 5	YG	XG
YG14-9	9	18.14	21.77	21.00	10	£16.29	£13.84	
YG14-10	10	19.96	23.59	22.75	10	£16.30	£13.85	
YG14-11	11	21.77	25.40	24.50	10	£16.31	£13.86	
YG14-12	12	21.77	25.40	24.50	10	£16.32	£13.89	
YG14-13	13	23.59	27.21	25.00	10	£16.69	£14.19	
YG14-14	14	25.40	29.03	25.00	10	£17.61	£14.97	
YG14-15	15	27.21	30.84	25.00	10	£18.36	£15.63	
YG14-16	16	29.03	32.66	25.00	12	£18.76	£15.94	
YG14-17	17	30.84	34.47	25.00	12	£19.22	£16.31	
YG14-18	18	32.66	36.29	25.00	12	£20.05	£17.07	
YG14-19	19	34.47	38.10	25.00	12	£20.87	£17.72	
YG14-20	20	36.29	39.91	30.00	12	£22.28	£18.95	
YG14-21	21	38.10	41.73	30.00	12	£22.83	£19.41	
YG14-22	22	39.91	43.54	30.00	12	£23.18	£19.70	
YG14-23	23	41.73	45.36	30.00	12	£24.35	£20.68	
YG14-24	24	43.54	47.17	30.00	12	£25.42	£21.59	
YG14-25	25	45.36	48.99	30.00	12	£25.64	£21.76	
YG14-26	26	47.17	50.80	30.00	12	£25.78	£21.93	
YG14-27	27	48.99	52.61	30.00	12	£26.21	£22.22	
YG14-28	28	50.80	54.43	40.00	15	£26.31	£22.54	
YG14-29	29	52.61	56.24	40.00	15	£26.59	£22.59	
YG14-30	30	54.43	58.06	40.00	15	£27.34	£23.20	
YG14-31	31	56.24	59.87	40.00	15	£27.93	£23.70	

23.128



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 (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1 - 5	
						YG	XG
YG14-32	32	58.06	61.69	40	15	£28.18	£23.91
YG14-33	33	59.87	63.50	40	15	£28.34	£24.13
YG14-34	34	61.69	65.31	40	15	£28.80	£24.48
YG14-35	35	63.50	67.13	40	15	£28.85	£24.57
YG14-36	36	65.31	68.94	50	15	£29.83	£25.37
YG14-37	37	67.13	70.76	50	15	£31.20	£26.54
YG14-38	38	68.94	72.57	50	15	£31.91	£27.07
YG14-39	39	70.76	74.39	50	15	£32.80	£27.86
YG14-40	40	72.57	76.20	50	15	£33.54	£28.42
YG14-41	41	74.39	78.01	50	15	£34.00	£28.98
YG14-42	42	76.20	79.83	50	15	£34.76	£29.58
YG14-43	43	78.01	81.64	50	15	£36.10	£30.69
YG14-44	44	79.83	83.46	50	15	£36.60	£31.05
YG14-45	45	81.64	85.27	60	20	£37.08	£31.52
YG14-46	46	83.46	87.09	60	20	£37.79	£32.11
YG14-47	47	85.27	88.90	60	20	£38.52	£32.67
YG14-48	48	87.09	90.71	60	20	£39.53	£33.61
YG14-49	49	88.90	92.53	60	20	£41.00	£34.82
YG14-50	50	90.71	94.34	60	20	£41.49	£35.24
YG14-51	51	92.53	96.16	60	20	£42.51	£36.10
YG14-52	52	94.34	97.97	60	20	£43.57	£36.99
YG14-53	53	96.16	99.79	60	20	£44.67	£37.95
YG14-54	54	97.97	101.06	80	20	£48.21	£40.90
YG14-55	55	99.79	103.41	80	20	£49.68	£42.20
YG14-56	56	101.60	105.23	80	20	£51.79	£44.01
YG14-57	57	103.41	107.04	80	20	£53.45	£45.44
YG14-58	58	105.23	108.86	80	20	£55.09	£46.82
YG14-59	59	107.04	110.67	80	20	£56.90	£48.33
YG14-60	60	108.86	112.49	80	20	£59.17	£50.20
YG14-62	62	112.49	116.11	80	20	£60.63	£51.49
YG14-64	64	116.11	119.74	80	20	£62.38	£53.03
YG14-65	65	117.93	121.56	80	20	£64.34	£54.72
YG14-66	66	119.74	123.37	80	20	£66.33	£56.38
YG14-68	68	123.37	127.00	80	20	£68.25	£58.02
YG14-70	70	127.00	130.63	100	20	£70.16	£59.55
YG14-71	71	128.81	132.44	100	20	£71.15	£60.42
YG14-72	72	130.63	134.26	100	20	£72.47	£61.56
YG14-73	73	132.44	136.07	100	20	£73.51	£62.50
YG14-74	74	134.26	137.89	100	20	£74.66	£63.47
YG14-75	75	136.07	139.70	100	20	£75.69	£64.31
YG14-76	76	137.89	141.51	100	20	£76.85	£65.33
YG14-78	78	141.51	145.14	100	20	£82.82	£70.39
YG14-80	80	145.14	148.77	100	20	£87.72	£74.52
YG14-86	86	156.03	159.66	100	20	£98.63	£81.47
YG14-90	90	163.29	166.91	100	20	£107.99	£82.00
YG14-96	96	174.17	177.80	100	20	£119.46	£101.85
YG14-98	98	177.80	181.43	100	20	£124.30	£105.67
YG14-100	100	181.43	185.06	100	20	£129.73	£110.28
YG14-105	105	190.50	194.13	100	20	£136.49	£113.93
YG14-110	110	199.57	203.20	100	20	£142.42	£114.54
YG14-115	115	208.64	212.27	100	20	£150.79	£128.16
YG14-120	120	217.71	221.34	100	20	£158.57	£134.82

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



# Spur Gears

Plastic Delrin (fully machined)

Materials

STD : White Delrin

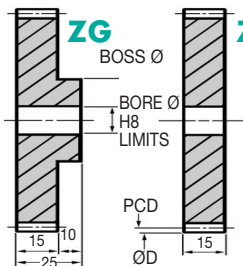
14 DP

20° P.A.

SPECIAL TEETH : between 9 - 240



TORQUE CHECK		
50 teeth x 1000 rpm		
variations at back	TORQUE Nm.	4.50



ZPG

## DISCOUNTS

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

Popular sizes in stock.

Any two part numbers of this pitch will run together.

PART NUMBER	TEETH	PCD (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	1-530-99	
						ZG	ZPG
ZG14-9	9	18.14	21.77	21.00	10	£6.48	£4.99
ZG14-10	10	19.96	23.59	22.75	10	£6.55	£5.00
ZG14-11	11	21.77	25.40	24.50	10	£6.56	£5.02
ZG14-12	12	21.77	25.40	24.50	10	£6.57	£5.03
ZG14-13	13	23.59	27.21	25.00	10	£6.79	£5.22
ZG14-14	14	25.40	29.03	25.00	10	£6.94	£5.28
ZG14-15	15	27.21	30.84	25.00	10	£7.20	£5.46
ZG14-16	16	29.03	32.66	25.00	12	£7.31	£5.61
ZG14-17	17	30.84	34.47	25.00	12	£7.57	£5.79
ZG14-18	18	32.66	36.29	25.00	12	£7.79	£5.96
ZG14-19	19	34.47	38.10	25.00	12	£8.93	£6.79
ZG14-20	20	36.29	39.91	30.00	12	£9.40	£7.20
ZG14-21	21	38.10	41.73	30.00	12	£9.44	£7.21
ZG14-22	22	39.91	43.54	30.00	12	£9.55	£7.31
ZG14-23	23	41.73	45.36	30.00	12	£9.67	£7.42
ZG14-24	24	43.54	47.17	30.00	12	£9.83	£7.56
ZG14-25	25	45.36	48.99	30.00	12	£10.33	£7.89
ZG14-26	26	47.17	50.80	30.00	12	£10.82	£8.27
ZG14-27	27	48.99	52.61	30.00	12	£12.65	£9.67
ZG14-28	28	50.80	54.43	40.00	15	£13.04	£10.02
ZG14-29	29	52.61	56.24	40.00	15	£13.26	£10.18
ZG14-30	30	54.43	58.06	40.00	15	£13.68	£10.39
ZG14-31	31	56.24	59.87	40.00	15	£13.89	£10.65

23.130



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 (mm)	ØD (mm)	BOSS Ø (mm)	BORE Ø (mm)	PRICE EACH 1-5 ZG	ZPG
ZG14-32	32	58.06	61.69	40	15	£14.15	£10.82
ZG14-33	33	59.87	63.50	40	15	£14.26	£10.91
ZG14-34	34	61.69	65.31	40	15	£17.33	£13.25
ZG14-35	35	63.50	67.13	40	15	£17.45	£13.44
ZG14-36	36	65.31	68.94	50	15	£18.36	£14.10
ZG14-37	37	67.13	70.76	50	15	£18.81	£14.46
ZG14-38	38	68.94	72.57	50	15	£21.76	£16.67
ZG14-39	39	70.76	74.39	50	15	£22.23	£17.06
ZG14-40	40	72.57	76.20	50	15	£22.71	£17.42
ZG14-41	41	74.39	78.01	50	15	£22.74	£17.43
ZG14-42	42	76.20	79.83	50	15	£22.74	£17.44
ZG14-43	43	78.01	81.64	50	15	£22.76	£17.45
ZG14-44	44	79.83	83.46	50	15	£22.77	£17.47
ZG14-45	45	81.64	85.27	60	20	£23.19	£17.77
ZG14-46	46	83.46	87.09	60	20	£23.64	£18.12
ZG14-47	47	85.27	88.90	60	20	£24.31	£18.59
ZG14-48	48	87.09	90.71	60	20	£24.81	£19.01
ZG14-49	49	88.90	92.53	60	20	£27.42	£21.00
ZG14-50	50	90.71	94.34	60	20	£29.39	£22.52
ZG14-51	51	92.53	96.16	60	20	£30.22	£23.19
ZG14-52	52	94.34	97.97	60	20	£30.85	£23.66
ZG14-53	53	96.16	99.79	60	20	£31.36	£23.99
ZG14-54	54	97.97	101.06	80	20	£31.60	£24.28
ZG14-55	55	99.79	103.41	80	20	£31.84	£24.46
ZG14-56	56	101.60	105.23	80	20	£31.87	£24.48
ZG14-57	57	103.41	107.04	80	20	£32.24	£24.65
ZG14-58	58	105.23	108.86	80	20	£32.33	£24.84
ZG14-59	59	107.04	110.67	80	20	£36.11	£27.69
ZG14-60	60	108.86	112.49	80	20	£36.34	£27.92
ZG14-62	62	112.49	116.11	80	20	£37.00	£28.38
ZG14-64	64	116.11	119.74	80	20	£37.47	£28.74
ZG14-65	65	117.93	121.56	80	20	£42.25	£32.40
ZG14-66	66	119.74	123.37	80	20	£43.83	£33.58
ZG14-68	68	123.37	127.00	80	20	£44.82	£34.37
ZG14-70	70	127.00	130.63	100	20	£46.41	£35.61
ZG14-71	71	128.81	132.44	100	20	£47.73	£36.60
ZG14-72	72	130.63	134.26	100	20	£49.07	£37.66
ZG14-73	73	132.44	136.07	100	20	£50.22	£38.56
ZG14-74	74	134.26	137.89	100	20	£51.99	£39.86
ZG14-75	75	136.07	139.70	100	20	£52.32	£40.13
ZG14-76	76	137.89	141.51	100	20	£53.69	£40.23
ZG14-78	78	141.51	145.14	100	20	£55.09	£42.34
ZG14-80	80	145.14	148.77	100	20	£62.38	£47.88
ZG14-86	86	156.03	159.66	100	20	£67.05	£51.43
ZG14-90	90	163.29	166.91	100	20	£71.81	£55.09
ZG14-96	96	174.17	177.80	100	20	£82.98	£63.64
ZG14-98	98	177.80	181.43	100	20	£95.76	£74.01
ZG14-100	100	181.43	185.06	100	20	£108.73	£87.53
ZG14-105	105	190.50	194.13	100	20	£135.91	£114.72
ZG14-110	110	199.57	203.20	100	20	£158.17	£137.02
ZG14-115	115	208.64	212.27	100	20	£179.92	£158.72
ZG14-120	120	217.71	221.34	100	20	£205.30	£184.15

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

