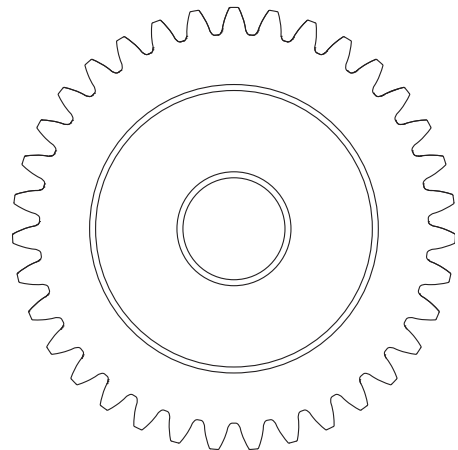
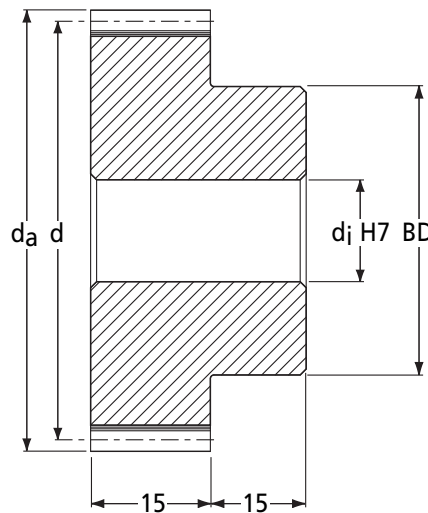


PSG-DL
PSG-PK
1.5m_n

PRECISION GEARS

1.5 Module Plastic Spur Gear α 20° PA

Quality Grade 8e25 DIN 3961/3967 (AGMA Q9)



DIN 3967 Tooth Thickness tol.

Part Number	No. of Teeth z	Ref. Dia. d	Tip Dia. d _a	Bore H7 d _j	Max. Bore H7 d _j	Hub Dia. BD	Backlash (mm)		I Inertia kgm ² (Delrin)	Mass kg (Delrin)
							j _{t,e} (max)	j _{t,i} (min)		
PSG1.5-18DL	18	27.0	30.0	6	12	22	0.128 - 0.052	1.63 x 10 ⁻⁶	0.019	
PSG1.5-19DL	19	28.5	31.5	6	12	22	0.128 - 0.052	1.89 x 10 ⁻⁶	0.020	
PSG1.5-20DL	20	30.0	33.0	6	12	22	0.128 - 0.052	2.21 x 10 ⁻⁶	0.022	
PSG1.5-21DL	21	31.5	34.5	8	14	25	0.129 - 0.051	2.88 x 10 ⁻⁶	0.025	
PSG1.5-22DL	22	33.0	36.0	8	14	25	0.129 - 0.051	3.30 x 10 ⁻⁶	0.026	
PSG1.5-23DL	23	34.5	37.5	8	14	25	0.129 - 0.051	3.78 x 10 ⁻⁶	0.028	
PSG1.5-24DL	24	36.0	39.0	8	14	25	0.129 - 0.051	4.32 x 10 ⁻⁶	0.030	
PSG1.5-25DL	25	37.5	40.5	8	14	25	0.129 - 0.051	4.93 x 10 ⁻⁶	0.031	
PSG1.5-26DL	26	39.0	42.0	8	14	25	0.129 - 0.051	5.63 x 10 ⁻⁶	0.033	
PSG1.5-27DL	27	40.5	43.5	8	14	25	0.129 - 0.051	6.41 x 10 ⁻⁶	0.035	
PSG1.5-28DL	28	42.0	45.0	8	14	25	0.129 - 0.051	7.27 x 10 ⁻⁶	0.037	
PSG1.5-29DL	29	43.5	46.5	10	20	35	0.129 - 0.051	1.05 x 10 ⁻⁵	0.048	
PSG1.5-30DL	30	45.0	48.0	10	20	35	0.129 - 0.051	1.16 x 10 ⁻⁵	0.050	
PSG1.5-32DL	32	48.0	51.0	10	20	35	0.129 - 0.051	1.41 x 10 ⁻⁵	0.055	
PSG1.5-35DL	35	52.5	55.5	10	20	35	0.171 - 0.069	1.88 x 10 ⁻⁵	0.062	
PSG1.5-38DL	38	57.0	60.0	12	25	45	0.171 - 0.069	3.02 x 10 ⁻⁵	0.082	
PSG1.5-40DL	40	60.0	63.0	12	25	45	0.171 - 0.069	3.52 x 10 ⁻⁵	0.088	
PSG1.5-42DL	42	63.0	66.0	12	25	45	0.171 - 0.069	4.09 x 10 ⁻⁵	0.094	
PSG1.5-45DL	45	67.5	70.5	12	25	45	0.171 - 0.069	5.12 x 10 ⁻⁵	0.104	
PSG1.5-48DL	48	72.0	75.0	12	25	45	0.171 - 0.069	6.38 x 10 ⁻⁵	0.114	
PSG1.5-50DL	50	75.0	78.0	14	30	55	0.171 - 0.069	8.40 x 10 ⁻⁵	0.136	
PSG1.5-52DL	52	78.0	81.0	14	30	55	0.171 - 0.069	9.51 x 10 ⁻⁵	0.144	
PSG1.5-55DL	55	82.5	85.5	14	30	55	0.173 - 0.067	1.14 x 10 ⁻⁴	0.156	
PSG1.5-58DL	58	87.0	90.0	14	30	55	0.173 - 0.067	1.37 x 10 ⁻⁴	0.169	
PSG1.5-60DL	60	90.0	93.0	14	30	55	0.173 - 0.067	1.54 x 10 ⁻⁴	0.177	
PSG1.5-62DL	62	93.0	96.0	14	30	55	0.173 - 0.067	1.73 x 10 ⁻⁴	0.186	
PSG1.5-65DL	65	97.5	100.5	14	30	55	0.173 - 0.067	2.05 x 10 ⁻⁴	0.201	
PSG1.5-68DL	68	102.0	105.0	16	40	65	0.173 - 0.067	2.60 x 10 ⁻⁴	0.233	
PSG1.5-70DL	70	105.0	108.0	16	40	65	0.173 - 0.067	2.87 x 10 ⁻⁴	0.244	
PSG1.5-72DL	72	108.0	111.0	16	40	65	0.173 - 0.067	3.17 x 10 ⁻⁴	0.254	
PSG1.5-75DL	75	112.5	115.5	16	40	65	0.173 - 0.067	3.67 x 10 ⁻⁴	0.271	
PSG1.5-78DL	78	117.0	120.0	16	40	65	0.173 - 0.067	4.23 x 10 ⁻⁴	0.288	
PSG1.5-80DL	80	120.0	123.0	16	40	65	0.173 - 0.067	4.64 x 10 ⁻⁴	0.300	
PSG1.5-82DL	82	123.0	126.0	16	40	65	0.175 - 0.065	5.08 x 10 ⁻⁴	0.312	
PSG1.5-85DL	85	127.5	130.5	16	40	65	0.227 - 0.097	5.81 x 10 ⁻⁴	0.330	
PSG1.5-88DL	88	132.0	135.0	16	40	65	0.227 - 0.097	6.63 x 10 ⁻⁴	0.350	
PSG1.5-90DL	90	135.0	138.0	16	40	65	0.227 - 0.097	7.21 x 10 ⁻⁴	0.363	
PSG1.5-92DL	92	138.0	141.0	16	40	65	0.227 - 0.097	7.84 x 10 ⁻⁴	0.376	
PSG1.5-95DL	95	142.5	145.5	16	40	65	0.227 - 0.097	8.87 x 10 ⁻⁴	0.397	
PSG1.5-98DL	98	147.0	150.0	16	40	65	0.227 - 0.097	1.00 x 10 ⁻³	0.419	

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Product information updated 1st April 2011 and subject to change. Please contact Sales for the latest prices and availability.

PRECISION GEARS

PSG-DL
PSG-PK
1.5m_n

1.5 Module Plastic Spur Gear α 20° PA

Quality Grade 8e25 DIN 3961/3967 (AGMA Q9)

Standard Part **PSG** **1.5** **50** **DL**
Modified Part **PSG** **1.5** **50** **PK** **20** **K** **T**

PSG - Precision Spur Gear
Quality Grade 8e25 DIN 3961/3967
Other Quality Grades available.
See page 291

m_n Module - Cut with DIN 867 1.25/0.20/1.0
Ref. Tooth Profile Topping WD = 2.25 x m_n

Number of Teeth z

DL = Delrin POM (White)
PK = PEEK GF30® (Light Brown)

T = 1 x Tapped hole 2T = 2 x Tapped holes.
P = 1 x Pin Hole PT = 1 x Pin Hole thru.
All threads metric as standard,
refer to page 308 for sizes and prices.

K- Keyway supplied to
DIN 6885 - Js9 tolerance.
For prices see page 308

To specify different bore enter size required
Example: 20 = 20mm H7 etc
For prices see page 308

η Efficiency approx. 98%

Discounts: 6+ -5% 19+ -10%

Part Number	Delrin POM		Part Number	PEEK GF30®	
	T ₂ Nm n ₂ 100min ⁻¹	Price Each 1 - 5		T ₂ Nm n ₂ 100min ⁻¹	Price Each 1 - 5
PSG1.5-18DL	1.90	£12.15	PSG1.5-18PK	2.15	£61.56
PSG1.5-19DL	2.14	£12.61	PSG1.5-19PK	2.43	£63.87
PSG1.5-20DL	2.40	£13.25	PSG1.5-20PK	2.71	£67.11
PSG1.5-21DL	2.67	£13.35	PSG1.5-21PK	3.02	£67.65
PSG1.5-22DL	2.96	£13.51	PSG1.5-22PK	3.35	£68.42
PSG1.5-23DL	3.27	£13.76	PSG1.5-23PK	3.70	£69.68
PSG1.5-24DL	3.59	£13.89	PSG1.5-24PK	4.06	£70.35
PSG1.5-25DL	3.93	£14.61	PSG1.5-25PK	4.45	£74.00
PSG1.5-26DL	4.30	£15.30	PSG1.5-26PK	4.86	£77.52
PSG1.5-27DL	4.67	£15.79	PSG1.5-27PK	5.29	£79.96
PSG1.5-28DL	5.07	£16.23	PSG1.5-28PK	5.74	£82.21
PSG1.5-29DL	5.49	£16.49	PSG1.5-29PK	6.21	£83.51
PSG1.5-30DL	5.93	£16.97	PSG1.5-30PK	6.70	£85.99
PSG1.5-32DL	6.86	£17.56	PSG1.5-32PK	7.76	£88.93
PSG1.5-35DL	7.98	£18.12	PSG1.5-35PK	9.51	£91.76
PSG1.5-38DL	8.86	£19.85	PSG1.5-38PK	11.47	£100.55
PSG1.5-40DL	9.45	£20.65	PSG1.5-40PK	12.89	£104.56
PSG1.5-42DL	10.03	£20.74	PSG1.5-42PK	13.67	£105.06
PSG1.5-45DL	10.90	£21.19	PSG1.5-45PK	14.86	£107.31
PSG1.5-48DL	11.79	£22.64	PSG1.5-48PK	16.08	£114.66
PSG1.5-50DL	12.40	£25.30	PSG1.5-50PK	16.91	£128.14
PSG1.5-52DL	12.99	£26.59	PSG1.5-52PK	17.71	£134.67
PSG1.5-55DL	13.88	£27.26	PSG1.5-55PK	18.92	£138.06
PSG1.5-58DL	14.78	£27.88	PSG1.5-58PK	20.15	£141.21
PSG1.5-60DL	15.39	£28.15	PSG1.5-60PK	20.98	£142.52
PSG1.5-62DL	15.97	£28.70	PSG1.5-62PK	21.77	£145.36
PSG1.5-65DL	16.84	£29.78	PSG1.5-65PK	22.97	£150.82
PSG1.5-68DL	17.72	£31.59	PSG1.5-68PK	24.17	£159.96
PSG1.5-70DL	18.31	£32.73	PSG1.5-70PK	24.97	£165.73
PSG1.5-72DL	18.91	£34.59	PSG1.5-72PK	25.78	£175.16
PSG1.5-75DL	19.80	£36.88	PSG1.5-75PK	27.00	£186.74
PSG1.5-78DL	20.71	£38.87	PSG1.5-78PK	28.23	£196.79
PSG1.5-80DL	21.31	£40.30	PSG1.5-80PK	29.06	£204.10
PSG1.5-82DL	21.93	£42.15	PSG1.5-82PK	29.91	£213.43
PSG1.5-85DL	22.82	£44.44	PSG1.5-85PK	31.12	£288.02
PSG1.5-88DL	23.72	£46.66	PSG1.5-88PK	32.34	£236.27
PSG1.5-90DL	24.31	£48.99	PSG1.5-90PK	33.16	£248.09
PSG1.5-92DL	24.91	£51.44	PSG1.5-92PK	33.97	£260.49
PSG1.5-95DL	25.82	£54.01	PSG1.5-95PK	35.21	£273.52
PSG1.5-98DL	26.73	£56.71	PSG1.5-98PK	36.45	£287.19

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