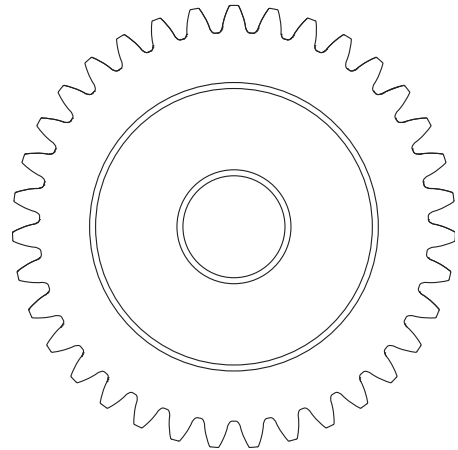
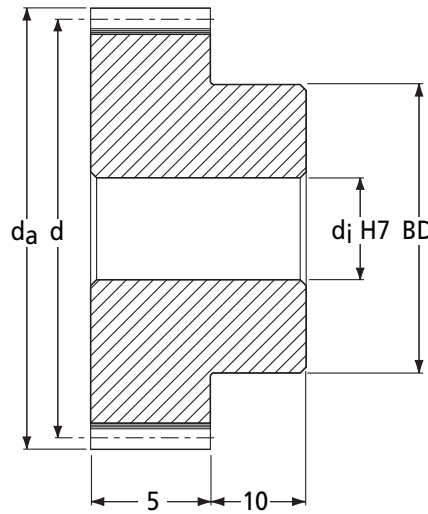


**PSG**  
**0.5m<sub>n</sub>**

# PRECISION GEARS

## 0.5 Module Spur Gear α 20° PA Quality Grade 7e DIN 3961/58405 (AGMA Q10)



DIN 58405 Tooth Thickness tol.

Part Number	No. of Teeth z	Ref. Dia. d	Tip Dia. d <sub>a</sub>	Bore H7 d <sub>j</sub>	Max. Bore H7 d <sub>j</sub>	Hub Dia. BD	Backlash (mm)		I Inertia kgm <sup>2</sup>	Mass kg
							j <sub>t,e</sub> (max)	j <sub>t,i</sub> (min)		
PSG0.5-20	20	10.0	11.0	4	4	8	0.076	-0.037	6.81 x 10 <sup>-8</sup>	0.006
PSG0.5-21	21	10.5	11.5	4	4	8	0.077	-0.036	7.64 x 10 <sup>-8</sup>	0.006
PSG0.5-22	22	11.0	12.0	4	4	8	0.077	-0.036	8.60 x 10 <sup>-8</sup>	0.006
PSG0.5-23	23	11.5	12.5	4	4	8	0.077	-0.036	9.69 x 10 <sup>-8</sup>	0.006
PSG0.5-24	24	12.0	13.0	5	5	10	0.077	-0.036	1.51 x 10 <sup>-7</sup>	0.008
PSG0.5-25	25	12.5	13.5	5	5	10	0.087	-0.042	1.65 x 10 <sup>-7</sup>	0.009
PSG0.5-26	26	13.0	14.0	5	5	10	0.087	-0.042	1.81 x 10 <sup>-7</sup>	0.009
PSG0.5-27	27	13.5	14.5	5	5	10	0.087	-0.042	1.98 x 10 <sup>-7</sup>	0.009
PSG0.5-28	28	14.0	15.0	5	5	10	0.087	-0.042	2.18 x 10 <sup>-7</sup>	0.010
PSG0.5-29	29	14.5	15.5	6	6	13	0.087	-0.042	3.76 x 10 <sup>-7</sup>	0.013
PSG0.5-30	30	15.0	16.0	6	6	13	0.087	-0.042	4.00 x 10 <sup>-7</sup>	0.014
PSG0.5-32	32	16.0	17.0	6	6	13	0.087	-0.042	4.57 x 10 <sup>-7</sup>	0.015
PSG0.5-35	35	17.5	18.5	6	6	13	0.087	-0.042	5.65 x 10 <sup>-7</sup>	0.016
PSG0.5-38	38	19.0	20.0	6	8	17	0.089	-0.041	1.13 x 10 <sup>-6</sup>	0.026
PSG0.5-40	40	20.0	21.0	6	8	17	0.089	-0.041	1.24 x 10 <sup>-6</sup>	0.027
PSG0.5-42	42	21.0	22.0	6	8	17	0.089	-0.041	1.37 x 10 <sup>-6</sup>	0.028
PSG0.5-45	45	22.5	23.5	6	8	17	0.089	-0.041	1.61 x 10 <sup>-6</sup>	0.030
PSG0.5-48	48	24.0	25.0	6	8	17	0.089	-0.041	1.90 x 10 <sup>-6</sup>	0.032
PSG0.5-50	50	25.0	26.0	6	8	17	0.089	-0.041	2.12 x 10 <sup>-6</sup>	0.034
PSG0.5-52	52	26.0	27.0	6	8	17	0.097	-0.046	2.38 x 10 <sup>-6</sup>	0.035
PSG0.5-55	55	27.5	28.5	6	8	17	0.097	-0.046	2.81 x 10 <sup>-6</sup>	0.038
PSG0.5-58	58	29.0	30.0	6	8	17	0.097	-0.046	3.33 x 10 <sup>-6</sup>	0.040
PSG0.5-60	60	30.0	31.0	6	8	17	0.097	-0.046	3.72 x 10 <sup>-6</sup>	0.042
PSG0.5-62	62	31.0	32.0	8	10	20	0.098	-0.044	4.72 x 10 <sup>-6</sup>	0.048
PSG0.5-65	65	32.5	33.5	8	10	20	0.098	-0.044	5.45 x 10 <sup>-6</sup>	0.051
PSG0.5-68	68	34.0	35.0	8	10	20	0.098	-0.044	6.29 x 10 <sup>-6</sup>	0.054
PSG0.5-70	70	35.0	36.0	8	10	20	0.098	-0.044	6.92 x 10 <sup>-6</sup>	0.056
PSG0.5-72	72	36.0	37.0	8	10	20	0.098	-0.044	7.61 x 10 <sup>-6</sup>	0.058
PSG0.5-75	75	37.5	38.5	8	10	20	0.098	-0.044	8.75 x 10 <sup>-6</sup>	0.062
PSG0.5-78	78	39.0	40.0	8	10	20	0.098	-0.044	1.00 x 10 <sup>-5</sup>	0.065
PSG0.5-80	80	40.0	41.0	8	12	25	0.098	-0.044	1.28 x 10 <sup>-5</sup>	0.082
PSG0.5-82	82	41.0	42.0	8	12	25	0.098	-0.044	1.38 x 10 <sup>-5</sup>	0.084
PSG0.5-85	85	42.5	43.5	8	12	25	0.098	-0.044	1.54 x 10 <sup>-5</sup>	0.088
PSG0.5-90	90	45.0	46.0	8	12	25	0.098	-0.044	1.86 x 10 <sup>-5</sup>	0.095
PSG0.5-100	100	50.0	51.0	10	16	30	0.098	-0.044	3.00 x 10 <sup>-5</sup>	0.123
PSG0.5-120	120	60.0	61.0	10	20	35	0.111	-0.049	6.11 x 10 <sup>-5</sup>	0.177
PSG0.5-130	130	65.0	66.0	10	20	35	0.111	-0.049	7.98 x 10 <sup>-5</sup>	0.196
PSG0.5-140	140	70.0	71.0	10	20	35	0.111	-0.049	1.03 x 10 <sup>-4</sup>	0.217
PSG0.5-150	150	75.0	76.0	10	25	40	0.111	-0.049	1.41 x 10 <sup>-4</sup>	0.262
PSG0.5-200	200	100.0	101.0	14	30	50	0.113	-0.047	4.31 x 10 <sup>-4</sup>	0.444
PSG0.5-250	250	125.0	126.0	16	40	60	0.140	-0.062	1.04 x 10 <sup>-3</sup>	0.679

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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**  
**0.5m<sub>n</sub>**

## 0.5 Module Spur Gear α 20° PA Quality Grade 7e DIN 3961/58405 (AGMA Q10)

Standard Part **PSG 0.5 - 50**      
Modified Part **PSG 0.5 - 50 H 8 K T**

PSG - Precision Spur Gear  
Quality Grade 7e DIN 3961/58405  
Other Quality Grades available.  
See page 291

m<sub>n</sub> Module - Cut with DIN 867 1.25/0.20/1.0  
Ref. Tooth Profile Topping WD = 2.25 x m<sub>n</sub>

Number of Teeth z

Standard Material = 817M40T (28HRC)  
H = 805M20 Case Hardened (58HRC)  
S = 303 Stainless Steel  
SL = 316 Stainless Steel

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: 8 = 8mm H7 etc  
For prices see page 308

# Quality Grades and Tolerances stated prior to heat treatment processes.  
η Efficiency approx. 98%

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

817M40T (28HRC)			Case Hardened 805M20 (58HRC)#			Stainless 303			Stainless 316		
Part Number	T <sub>2</sub> Nm n <sub>2</sub> 100min <sup>-1</sup>	Price Each 1 - 5	Part Number	T <sub>2</sub> Nm n <sub>2</sub> 100min <sup>-1</sup>	Price Each 1 - 5	Part Number	T <sub>2</sub> Nm n <sub>2</sub> 100min <sup>-1</sup>	Price Each 1 - 5	Part Number	T <sub>2</sub> Nm n <sub>2</sub> 100min <sup>-1</sup>	Price Each 1 - 5
PSG0.5-20	0.36	£11.19	PSG0.5-20H	1.11	£18.45	PSG0.5-20S	0.21	£15.10	PSG0.5-20SL	0.17	£17.34
PSG0.5-21	0.37	£11.29	PSG0.5-21H	1.16	£18.64	PSG0.5-21S	0.22	£15.25	PSG0.5-21SL	0.17	£17.51
PSG0.5-22	0.39	£11.44	PSG0.5-22H	1.22	£18.88	PSG0.5-22S	0.23	£15.45	PSG0.5-22SL	0.18	£17.74
PSG0.5-23	0.41	£11.58	PSG0.5-23H	1.27	£19.12	PSG0.5-23S	0.25	£15.64	PSG0.5-23SL	0.19	£17.95
PSG0.5-24	0.43	£11.71	PSG0.5-24H	1.33	£19.34	PSG0.5-24S	0.26	£15.82	PSG0.5-24SL	0.20	£18.16
PSG0.5-25	0.44	£11.83	PSG0.5-25H	1.38	£19.54	PSG0.5-25S	0.27	£15.99	PSG0.5-25SL	0.21	£18.36
PSG0.5-26	0.54	£12.01	PSG0.5-26H	1.44	£19.82	PSG0.5-26S	0.33	£16.22	PSG0.5-26SL	0.25	£18.62
PSG0.5-27	0.57	£12.13	PSG0.5-27H	1.50	£20.03	PSG0.5-27S	0.34	£16.39	PSG0.5-27SL	0.26	£18.81
PSG0.5-28	0.59	£12.26	PSG0.5-28H	1.55	£20.24	PSG0.5-28S	0.35	£16.55	PSG0.5-28SL	0.27	£19.00
PSG0.5-29	0.61	£12.33	PSG0.5-29H	1.61	£20.35	PSG0.5-29S	0.36	£16.65	PSG0.5-29SL	0.28	£19.13
PSG0.5-30	0.69	£12.37	PSG0.5-30H	1.65	£20.44	PSG0.5-30S	0.41	£16.72	PSG0.5-30SL	0.32	£19.20
PSG0.5-32	0.74	£12.68	PSG0.5-32H	1.76	£20.92	PSG0.5-32S	0.44	£17.12	PSG0.5-32SL	0.34	£19.66
PSG0.5-35	0.81	£13.11	PSG0.5-35H	1.93	£21.64	PSG0.5-35S	0.48	£17.70	PSG0.5-35SL	0.38	£20.32
PSG0.5-38	0.87	£13.50	PSG0.5-38H	2.09	£22.30	PSG0.5-38S	0.52	£18.23	PSG0.5-38SL	0.41	£20.93
PSG0.5-40	1.18	£13.80	PSG0.5-40H	2.45	£22.78	PSG0.5-40S	0.71	£18.63	PSG0.5-40SL	0.55	£21.40
PSG0.5-42	1.24	£14.04	PSG0.5-42H	2.57	£23.19	PSG0.5-42S	0.74	£18.97	PSG0.5-42SL	0.58	£21.78
PSG0.5-45	1.32	£14.49	PSG0.5-45H	2.75	£23.89	PSG0.5-45S	0.79	£19.56	PSG0.5-45SL	0.62	£22.45
PSG0.5-48	1.41	£15.05	PSG0.5-48H	2.94	£24.84	PSG0.5-48S	0.85	£20.32	PSG0.5-48SL	0.66	£23.33
PSG0.5-50	1.74	£15.22	PSG0.5-50H	3.32	£25.10	PSG0.5-50S	1.05	£20.53	PSG0.5-50SL	0.81	£23.59
PSG0.5-52	1.81	£15.44	PSG0.5-52H	3.45	£25.47	PSG0.5-52S	1.09	£20.84	PSG0.5-52SL	0.85	£23.94
PSG0.5-55	1.92	£15.75	PSG0.5-55H	3.65	£26.00	PSG0.5-55S	1.15	£21.27	PSG0.5-55SL	0.90	£24.42
PSG0.5-58	2.02	£16.07	PSG0.5-58H	3.85	£26.54	PSG0.5-58S	1.21	£21.71	PSG0.5-58SL	0.94	£24.92
PSG0.5-60	2.49	£16.25	PSG0.5-60H	4.15	£26.81	PSG0.5-60S	1.49	£21.94	PSG0.5-60SL	1.16	£25.18
PSG0.5-62	2.57	£16.45	PSG0.5-62H	4.29	£27.15	PSG0.5-62S	1.54	£22.20	PSG0.5-62SL	1.20	£25.50
PSG0.5-65	2.70	£16.81	PSG0.5-65H	4.50	£27.74	PSG0.5-65S	1.62	£22.69	PSG0.5-65SL	1.26	£26.06
PSG0.5-68	2.82	£16.92	PSG0.5-68H	4.70	£27.91	PSG0.5-68S	1.69	£22.84	PSG0.5-68SL	1.32	£26.22
PSG0.5-70	2.91	£17.10	PSG0.5-70H	4.84	£28.23	PSG0.5-70S	1.74	£23.08	PSG0.5-70SL	1.36	£26.51
PSG0.5-72	2.99	£17.27	PSG0.5-72H	4.98	£28.48	PSG0.5-72S	1.79	£23.31	PSG0.5-72SL	1.39	£26.76
PSG0.5-75	3.11	£17.39	PSG0.5-75H	5.19	£28.71	PSG0.5-75S	1.87	£23.48	PSG0.5-75SL	1.45	£26.97
PSG0.5-78	3.24	£17.66	PSG0.5-78H	5.40	£29.13	PSG0.5-78S	1.94	£23.83	PSG0.5-78SL	1.51	£27.36
PSG0.5-80	3.71	£17.77	PSG0.5-80H	5.80	£26.00	PSG0.5-80S	2.55	£24.01	PSG0.5-80SL	1.98	£27.57
PSG0.5-82	3.81	£17.97	PSG0.5-82H	5.95	£29.66	PSG0.5-82S	2.61	£24.26	PSG0.5-82SL	2.03	£27.87
PSG0.5-85	3.95	£18.15	PSG0.5-85H	6.16	£29.96	PSG0.5-85S	2.71	£24.51	PSG0.5-85SL	2.11	£28.15
PSG0.5-90	4.18	£18.45	PSG0.5-90H	6.53	£30.47	PSG0.5-90S	2.87	£24.92	PSG0.5-90SL	2.23	£28.62
PSG0.5-100	4.75	£18.74	PSG0.5-100H	7.42	£30.91	PSG0.5-100S	3.84	£25.29	PSG0.5-100SL	2.99	£29.04
PSG0.5-120	5.70	£22.70	PSG0.5-120H	8.90	£37.45	PSG0.5-120S	4.61	£30.64	PSG0.5-120SL	3.59	£35.18
PSG0.5-130	6.17	£26.04	PSG0.5-130H	9.65	£42.96	PSG0.5-130S	5.00	£35.15	PSG0.5-130SL	3.89	£40.36
PSG0.5-140	6.65	£27.13	PSG0.5-140H	10.39	£44.76	PSG0.5-140S	5.38	£36.62	PSG0.5-140SL	4.19	£42.04
PSG0.5-150	7.28	£29.53	PSG0.5-150H	11.37	£48.73	PSG0.5-150S	7.79	£39.86	PSG0.5-150SL	6.06	£45.78
PSG0.5-200	9.80	£36.40	PSG0.5-200H	15.32	£60.06	PSG0.5-200S	11.61	£49.14	PSG0.5-200SL	9.03	£56.42
PSG0.5-250	12.25	£43.66	PSG0.5-250H	19.15	£72.05	PSG0.5-250S	14.51	£58.94	PSG0.5-250SL	11.29	£67.68

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