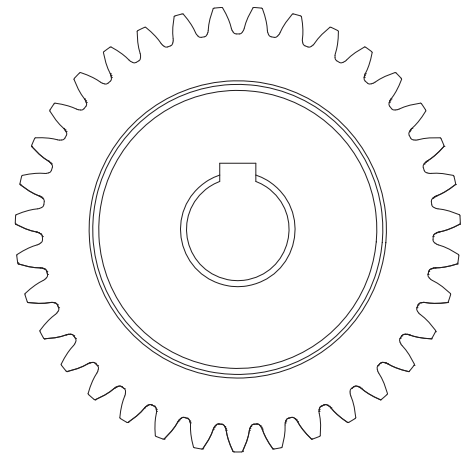
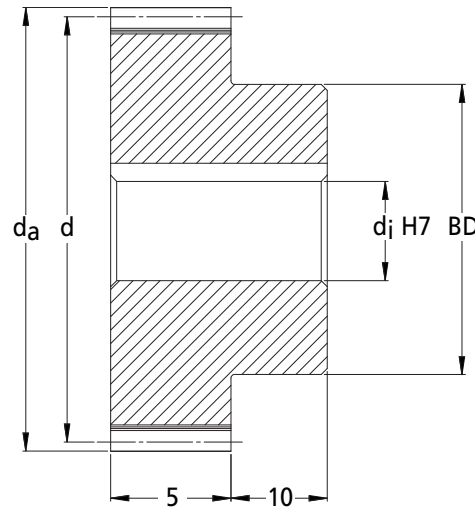


PSG-HC
PSG-HCK
0.5m_n

PRECISION GEARS

0.5 Module Skive Hobbed Spur Gear α 20° PA

Quality Grade 6e DIN 3961/58405 (AGMA Q11)



DIN 58405 Tooth Thickness tol.

Part Number	No. of Teeth z	Ref. Dia. d	Tip Dia. da	Bore H7 dj	Max. Bore H7 dj	Hub Dia. BD	Keyway	Backlash (mm)		I Inertia kgm ²	Mass kg
								jt,e (max)	jt,i (min)		
PSG0.5-20HC	20	10.0	11.0	4	4	8	-	0.054 - 0.024	6.81 x 10 ⁻⁸	0.006	
PSG0.5-21HC	21	10.5	11.5	4	4	8	-	0.056 - 0.023	7.64 x 10 ⁻⁸	0.006	
PSG0.5-22HC	22	11.0	12.0	4	4	8	-	0.056 - 0.023	8.60 x 10 ⁻⁸	0.006	
PSG0.5-23HC	23	11.5	12.5	4	4	8	-	0.056 - 0.023	9.69 x 10 ⁻⁸	0.006	
PSG0.5-24HC	24	12.0	13.0	5	5	10	-	0.056 - 0.023	1.51 x 10 ⁻⁷	0.008	
PSG0.5-25HC	25	12.5	13.5	5	5	10	-	0.062 - 0.028	1.65 x 10 ⁻⁷	0.009	
PSG0.5-26HC	26	13.0	14.0	5	5	10	-	0.062 - 0.028	1.81 x 10 ⁻⁷	0.009	
PSG0.5-27HC	27	13.5	14.5	5	5	10	-	0.062 - 0.028	1.98 x 10 ⁻⁷	0.009	
PSG0.5-28HC	28	14.0	15.0	5	5	10	-	0.062 - 0.028	2.18 x 10 ⁻⁷	0.010	
PSG0.5-29HCK	29	14.5	15.5	6	6	13	2	0.062 - 0.028	3.76 x 10 ⁻⁷	0.013	
PSG0.5-30HCK	30	15.0	16.0	6	6	13	2	0.062 - 0.028	4.00 x 10 ⁻⁷	0.014	
PSG0.5-32HCK	32	16.0	17.0	6	6	13	2	0.062 - 0.028	4.57 x 10 ⁻⁷	0.015	
PSG0.5-35HCK	35	17.5	18.5	6	6	13	2	0.062 - 0.028	5.65 x 10 ⁻⁷	0.016	
PSG0.5-38HCK	38	19.0	20.0	6	8	17	2	0.063 - 0.026	1.13 x 10 ⁻⁶	0.026	
PSG0.5-40HCK	40	20.0	21.0	6	8	17	2	0.063 - 0.026	1.24 x 10 ⁻⁶	0.027	
PSG0.5-42HCK	42	21.0	22.0	6	8	17	2	0.063 - 0.026	1.37 x 10 ⁻⁶	0.028	
PSG0.5-45HCK	45	22.5	23.5	6	8	17	2	0.063 - 0.026	1.61 x 10 ⁻⁶	0.030	
PSG0.5-48HCK	48	24.0	25.0	6	8	17	2	0.063 - 0.026	1.90 x 10 ⁻⁶	0.032	
PSG0.5-50HCK	50	25.0	26.0	6	8	17	2	0.063 - 0.026	2.12 x 10 ⁻⁶	0.034	
PSG0.5-52HCK	52	26.0	27.0	6	8	17	2	0.067 - 0.029	2.38 x 10 ⁻⁶	0.035	
PSG0.5-55HCK	55	27.5	28.5	6	8	17	2	0.067 - 0.029	2.81 x 10 ⁻⁶	0.038	
PSG0.5-58HCK	58	29.0	30.0	6	8	17	2	0.067 - 0.029	3.33 x 10 ⁻⁶	0.040	
PSG0.5-60HCK	60	30.0	31.0	6	8	17	2	0.067 - 0.029	3.72 x 10 ⁻⁶	0.042	
PSG0.5-62HCK	62	31.0	32.0	8	10	20	2	0.069 - 0.027	4.72 x 10 ⁻⁶	0.048	
PSG0.5-65HCK	65	32.5	33.5	8	10	20	2	0.069 - 0.027	5.45 x 10 ⁻⁶	0.051	
PSG0.5-68HCK	68	34.0	35.0	8	10	20	2	0.069 - 0.027	6.29 x 10 ⁻⁶	0.054	
PSG0.5-70HCK	70	35.0	36.0	8	10	20	2	0.069 - 0.027	6.92 x 10 ⁻⁶	0.056	
PSG0.5-72HCK	72	36.0	37.0	8	10	20	2	0.069 - 0.027	7.61 x 10 ⁻⁶	0.058	
PSG0.5-75HCK	75	37.5	38.5	8	10	20	2	0.069 - 0.027	8.75 x 10 ⁻⁶	0.062	
PSG0.5-78HCK	78	39.0	40.0	8	10	20	2	0.069 - 0.027	1.00 x 10 ⁻⁵	0.065	
PSG0.5-80HCK	80	40.0	41.0	8	12	25	2	0.069 - 0.027	1.28 x 10 ⁻⁵	0.082	
PSG0.5-82HCK	82	41.0	42.0	8	12	25	2	0.069 - 0.027	1.38 x 10 ⁻⁵	0.084	
PSG0.5-85HCK	85	42.5	43.5	8	12	25	2	0.069 - 0.027	1.54 x 10 ⁻⁵	0.088	
PSG0.5-90HCK	90	45.0	46.0	8	12	25	2	0.069 - 0.027	1.86 x 10 ⁻⁵	0.095	
PSG0.5-100HCK	100	50.0	51.0	10	16	30	3	0.069 - 0.027	3.00 x 10 ⁻⁵	0.123	
PSG0.5-120HCK	120	60.0	61.0	10	20	35	3	0.081 - 0.032	6.11 x 10 ⁻⁵	0.177	
PSG0.5-130HCK	130	65.0	66.0	10	20	35	3	0.081 - 0.032	7.98 x 10 ⁻⁵	0.196	
PSG0.5-140HCK	140	70.0	71.0	10	20	35	3	0.081 - 0.032	1.03 x 10 ⁻⁴	0.217	
PSG0.5-150HCK	150	75.0	76.0	10	25	40	3	0.081 - 0.032	1.41 x 10 ⁻⁴	0.262	
PSG0.5-200HCK	200	100.0	101.0	14	30	50	5	0.083 - 0.030	4.31 x 10 ⁻⁴	0.444	
PSG0.5-250HCK	250	125.0	126.0	16	40	60	5	0.095 - 0.034	1.04 x 10 ⁻³	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

0.5 Module Skive Hobbed Spur Gear α 20° PA

Quality Grade 6e DIN 3961/58405 (AGMA Q11)

PSG-HC
PSG-HCK
0.5m_n

Standard Part **PSG** **0.5** **50** **HC**
Modified Part **PSG** **0.5** **50** **HCK** **8** **T**

PSG - Precision Spur Gear
Quality Grade 6e DIN 3961/58405
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

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.

To specify different bore enter size required
Example: 8 = 8mm H7 etc
For prices see page 308

Standard Material = 805M20 (58HRC)
Skive Hobbed

Standard bores less than 6mm supplied without keyway.

Quality Grades and Tolerances stated prior to heat treatment processes.

η Efficiency approx. 98%

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

Part Number	Hard Cut T ₂ Nm n ₂ 100min ⁻¹	Price Each 1 - 5
PSG0.5-20HC	1.11	£29.53
PSG0.5-21HC	1.16	£29.84
PSG0.5-22HC	1.22	£30.22
PSG0.5-23HC	1.27	£30.58
PSG0.5-24HC	1.33	£30.94
PSG0.5-25HC	1.38	£31.26
PSG0.5-26HC	1.44	£31.73
PSG0.5-27HC	1.50	£32.04
PSG0.5-28HC	1.55	£32.39
PSG0.5-29HCK	1.61	£32.58
PSG0.5-30HCK	1.65	£32.70
PSG0.5-32HCK	1.76	£33.49
PSG0.5-35HCK	1.93	£34.62
PSG0.5-38HCK	2.09	£35.67
PSG0.5-40HCK	2.45	£36.46
PSG0.5-42HCK	2.57	£37.10
PSG0.5-45HCK	2.75	£38.25
PSG0.5-48HCK	2.94	£39.76
PSG0.5-50HCK	3.32	£40.17
PSG0.5-52HCK	3.45	£40.76
PSG0.5-55HCK	3.65	£41.61
PSG0.5-58HCK	3.85	£42.46
PSG0.5-60HCK	4.15	£42.91
PSG0.5-62HCK	4.29	£43.44
PSG0.5-65HCK	4.50	£44.39
PSG0.5-68HCK	4.70	£44.67
PSG0.5-70HCK	4.84	£45.17
PSG0.5-72HCK	4.98	£45.58
PSG0.5-75HCK	5.19	£45.95
PSG0.5-78HCK	5.40	£46.62
PSG0.5-80HCK	5.80	£41.61
PSG0.5-82HCK	5.95	£47.47
PSG0.5-85HCK	6.16	£47.95
PSG0.5-90HCK	6.53	£48.75
PSG0.5-100HCK	7.42	£49.46
PSG0.5-120HCK	8.90	£59.93
PSG0.5-130HCK	9.65	£68.75
PSG0.5-140HCK	10.39	£71.62
PSG0.5-150HCK	11.37	£77.97
PSG0.5-200HCK	15.32	£96.10
PSG0.5-250HCK	19.15	£115.27

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