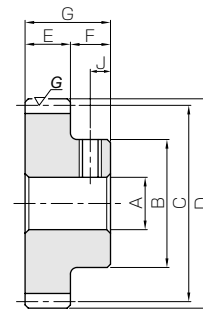




Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Thermal refined *
Tooth hardness	225 ~ 260HB

\* Tooth areas, where size is less than 0.8 module, without quenching treatment.



S1T

Catalog No.	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway	
				AH7	B	C	D	E	F	G	Width×Depth	
<b>SSG0.5-30A</b> <b>SSG0.5-30B</b>	<b>m0.5</b>	30	S1T S1T	5 6	13	15	16	5	7	12	— —	
<b>SSG0.5-32A</b>		32	S1T	5	14	16	17	5	7	12	—	
<b>SSG0.5-34A</b>		34	S1T	5	15	17	18	5	7	12	—	
<b>SSG0.5-35A</b>		35	S1T	5	15	17.5	18.5	5	7	12	—	
<b>SSG0.5-36A</b>		36	S1T	5	16	18	19	5	7	12	—	
<b>SSG0.5-38A</b>		38	S1T	5	16	19	20	5	7	12	—	
<b>SSG0.5-40A</b> <b>SSG0.5-40B</b>		40	S1T S1T	5 6	18	20	21	5	7	12	— —	
<b>SSG0.5-50A</b> <b>SSG0.5-50B</b>		50	S1T S1T	5 6	22	25	26	5	7	12	— —	
<b>SSG0.5-60A</b> <b>SSG0.5-60B</b>		60	S1T S1T	6 8	28	30	31	5	7	12	— —	
<b>SSG0.5-70A</b> <b>SSG0.5-70B</b>		70	S1T S1T	6 8	28	35	36	5	7	12	— —	
<b>SSG0.5-80A</b> <b>SSG0.5-80B</b>		80	S1T S1T	6 8	28	40	41	5	7	12	— —	
<b>SSG0.8-20A</b> <b>SSG0.8-20B</b>		<b>m0.8</b>	20	S1T S1T	5 6	13	16	17.6	8	8	16	— —
<b>SSG0.8-21A</b>			21	S1T	6	14	16.8	18.4	8	8	16	—
<b>SSG0.8-22A</b>			22	S1T	6	15	17.6	19.2	8	8	16	—
<b>SSG0.8-23A</b>	23		S1T	6	15	18.4	20	8	8	16	—	
<b>SSG0.8-24A</b> <b>SSG0.8-24B</b>	24		S1T S1T	5 6	16	19.2	20.8	8	8	16	— —	
<b>SSG0.8-25A</b> <b>SSG0.8-25B</b>	25		S1T S1T	5 6	16	20	21.6	8	8	16	— —	
<b>SSG0.8-26A</b>	26		S1T	6	18	20.8	22.4	8	8	16	—	
<b>SSG0.8-27A</b>	27		S1T	6	18	21.6	23.2	8	8	16	—	
<b>SSG0.8-28A</b>	28		S1T	6	18	22.4	24	8	8	16	—	
<b>SSG0.8-29A</b>	29		S1T	6	20	23.2	24.8	8	8	16	—	
<b>SSG0.8-30A</b> <b>SSG0.8-30B</b> <b>SSG0.8-30C</b>	30		S1T S1T S1T	5 6 8	20	24	25.6	8	8	16	— — —	
<b>SSG0.8-32A</b>	32		S1T	6	22	25.6	27.2	8	8	16	—	
<b>SSG0.8-34A</b>	34		S1T	6	22	27.2	28.8	8	8	16	—	
<b>SSG0.8-35A</b>	35		S1T	6	25	28	29.6	8	8	16	—	
<b>SSG0.8-36A</b>	36		S1T	6	25	28.8	30.4	8	8	16	—	
<b>SSG0.8-38A</b>	38		S1T	6	25	30.4	32	8	8	16	—	
<b>SSG0.8-40A</b> <b>SSG0.8-40B</b>	40		S1T S1T	6 8	28	32	33.6	8	8	16	— —	
<b>SSG0.8-50A</b> <b>SSG0.8-50B</b>	50		S1T S1T	6 8	28	40	41.6	8	8	16	— —	
<b>SSG0.8-60A</b> <b>SSG0.8-60B</b>	60		S1T S1T	6 8	28	48	49.6	8	8	16	— —	
<b>SSG0.8-70A</b> <b>SSG0.8-70B</b>	70		S1T S1T	6 8	28	56	57.6	8	8	16	— —	
<b>SSG0.8-80A</b> <b>SSG0.8-80B</b>	80	S1T S1T	6 8	28	64	65.6	8	8	16	— —		

[Caution on Product Characteristics]

- ① For products with a tapped hole, a set screw is included.
- ② The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
- ③ The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

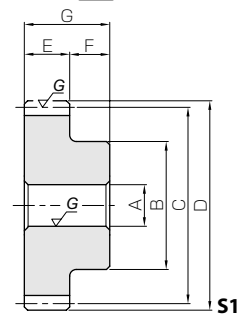
Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No.																																																																																																																																																																																																																																																																																																										
Size	J	Bending strength	Surface durability	Bending strength	Surface durability																																																																																																																																																																																																																																																																																																													
M4	3.5	1.63	0.29	0.17	0.030	0~0.08	0.012 0.011	<b>SSG0.5-30A</b> <b>SSG0.5-30B</b>																																																																																																																																																																																																																																																																																																										
M4	3.5								M4	3.5	1.78	0.34	0.18	0.035	0~0.08	0.014	<b>SSG0.5-32A</b>	M4	3.5	1.93	0.39	0.20	0.039	0~0.08	0.016	<b>SSG0.5-34A</b>	M4	3.5	2.00	0.41	0.20	0.042	0~0.08	0.017	<b>SSG0.5-35A</b>	M4	3.5	2.08	0.44	0.21	0.045	0~0.08	0.019	<b>SSG0.5-36A</b>	M4	3.5	2.23	0.49	0.23	0.050	0~0.08	0.020	<b>SSG0.5-38A</b>	M4	3.5	2.38	0.55	0.24	0.056	0~0.08	0.024 0.023	<b>SSG0.5-40A</b> <b>SSG0.5-40B</b>	M4	3.5	M4	3.5	3.14	0.89	0.32	0.091	0~0.08	0.038 0.037	<b>SSG0.5-50A</b> <b>SSG0.5-50B</b>	M4	3.5	3.91	1.32	0.40	0.13	0~0.08	0.058 0.056	<b>SSG0.5-60A</b> <b>SSG0.5-60B</b>	M5	3.5	M4	3.5	3.90	1.53	0.40	0.16	0~0.08	0.068 0.066	<b>SSG0.5-70A</b> <b>SSG0.5-70B</b>	M5	3.5	M4	3.5	4.55	2.04	0.46	0.21	0~0.08	0.080 0.077	<b>SSG0.5-80A</b> <b>SSG0.5-80B</b>	M5	3.5	M4	4	3.79	0.53	0.39	0.054	0~0.08	0.018 0.017	<b>SSG0.8-20A</b> <b>SSG0.8-20B</b>	M4	4	M4	4	4.08	0.59	0.42	0.060	0~0.08	0.020	<b>SSG0.8-21A</b>	M4	4	4.36	0.66	0.44	0.067	0~0.08	0.022	<b>SSG0.8-22A</b>	M4	4	4.64	0.73	0.47	0.074	0~0.08	0.024	<b>SSG0.8-23A</b>	M4	4	4.93	0.80	0.50	0.082	0~0.08	0.028 0.027	<b>SSG0.8-24A</b> <b>SSG0.8-24B</b>	M4	4	M4	4	5.22	0.88	0.53	0.090	0~0.08	0.029 0.028	<b>SSG0.8-25A</b> <b>SSG0.8-25B</b>	M4	4	5.51	0.96	0.56	0.098	0~0.08	0.033	<b>SSG0.8-26A</b>	M4	4	5.81	1.04	0.59	0.11	0~0.08	0.035	<b>SSG0.8-27A</b>	M4	4	6.10	1.12	0.62	0.11	0~0.08	0.037	<b>SSG0.8-28A</b>	M4	4	6.40	1.21	0.65	0.12	0~0.08	0.042	<b>SSG0.8-29A</b>	M4	4	6.70	1.30	0.68	0.13	0~0.08	0.045 0.044 0.041	<b>SSG0.8-30A</b> <b>SSG0.8-30B</b> <b>SSG0.8-30C</b>	M4	4	M5	4	M4	4	7.29	1.50	0.74	0.15	0~0.08	0.052	<b>SSG0.8-32A</b>	M4	4	7.90	1.71	0.81	0.17	0~0.08	0.056	<b>SSG0.8-34A</b>	M4	4	8.20	1.82	0.84	0.19	0~0.08	0.065	<b>SSG0.8-35A</b>	M4	4	8.51	1.93	0.87	0.20	0~0.08	0.067	<b>SSG0.8-36A</b>	M4	4	9.12	2.17	0.93	0.22	0~0.08	0.072	<b>SSG0.8-38A</b>	M4	4	8.11	2.02	0.83	0.21	0~0.08	0.085 0.082	<b>SSG0.8-40A</b> <b>SSG0.8-40B</b>	M5	4	M4	4	10.7	3.26	1.09	0.33	0~0.08	0.11 0.11	<b>SSG0.8-50A</b> <b>SSG0.8-50B</b>	M5	4	M4	4	13.3	4.83	1.36	0.49	0~0.08	0.15 0.14	<b>SSG0.8-60A</b> <b>SSG0.8-60B</b>	M5	4	M4	4	16.0	6.73	1.63	0.69	0~0.08	0.19 0.19	<b>SSG0.8-70A</b> <b>SSG0.8-70B</b>	M5	4	M4	4	18.7	8.97
M4	3.5	1.78	0.34	0.18	0.035	0~0.08	0.014	<b>SSG0.5-32A</b>																																																																																																																																																																																																																																																																																																										
M4	3.5	1.93	0.39	0.20	0.039	0~0.08	0.016	<b>SSG0.5-34A</b>																																																																																																																																																																																																																																																																																																										
M4	3.5	2.00	0.41	0.20	0.042	0~0.08	0.017	<b>SSG0.5-35A</b>																																																																																																																																																																																																																																																																																																										
M4	3.5	2.08	0.44	0.21	0.045	0~0.08	0.019	<b>SSG0.5-36A</b>																																																																																																																																																																																																																																																																																																										
M4	3.5	2.23	0.49	0.23	0.050	0~0.08	0.020	<b>SSG0.5-38A</b>																																																																																																																																																																																																																																																																																																										
M4	3.5	2.38	0.55	0.24	0.056	0~0.08	0.024 0.023	<b>SSG0.5-40A</b> <b>SSG0.5-40B</b>																																																																																																																																																																																																																																																																																																										
M4	3.5								M4	3.5	3.14	0.89	0.32	0.091	0~0.08	0.038 0.037	<b>SSG0.5-50A</b> <b>SSG0.5-50B</b>	M4	3.5	3.91	1.32	0.40	0.13	0~0.08	0.058 0.056	<b>SSG0.5-60A</b> <b>SSG0.5-60B</b>	M5	3.5	M4	3.5	3.90	1.53	0.40	0.16	0~0.08	0.068 0.066	<b>SSG0.5-70A</b> <b>SSG0.5-70B</b>	M5	3.5	M4	3.5	4.55	2.04	0.46	0.21	0~0.08	0.080 0.077	<b>SSG0.5-80A</b> <b>SSG0.5-80B</b>	M5	3.5	M4	4	3.79	0.53	0.39	0.054	0~0.08	0.018 0.017	<b>SSG0.8-20A</b> <b>SSG0.8-20B</b>	M4	4	M4	4	4.08	0.59	0.42	0.060	0~0.08	0.020	<b>SSG0.8-21A</b>	M4	4	4.36	0.66	0.44	0.067	0~0.08	0.022	<b>SSG0.8-22A</b>	M4	4	4.64	0.73	0.47	0.074	0~0.08	0.024	<b>SSG0.8-23A</b>	M4	4	4.93	0.80	0.50	0.082	0~0.08	0.028 0.027	<b>SSG0.8-24A</b> <b>SSG0.8-24B</b>	M4	4	M4	4	5.22	0.88	0.53	0.090	0~0.08	0.029 0.028	<b>SSG0.8-25A</b> <b>SSG0.8-25B</b>	M4	4	5.51	0.96	0.56	0.098	0~0.08	0.033	<b>SSG0.8-26A</b>	M4	4	5.81	1.04	0.59	0.11	0~0.08	0.035	<b>SSG0.8-27A</b>	M4	4	6.10	1.12	0.62	0.11	0~0.08	0.037	<b>SSG0.8-28A</b>	M4	4	6.40	1.21	0.65	0.12	0~0.08	0.042	<b>SSG0.8-29A</b>	M4	4	6.70	1.30	0.68	0.13	0~0.08	0.045 0.044 0.041	<b>SSG0.8-30A</b> <b>SSG0.8-30B</b> <b>SSG0.8-30C</b>	M4	4	M5	4	M4	4	7.29	1.50	0.74	0.15	0~0.08	0.052	<b>SSG0.8-32A</b>	M4	4	7.90	1.71	0.81	0.17	0~0.08	0.056	<b>SSG0.8-34A</b>	M4	4	8.20	1.82	0.84	0.19	0~0.08	0.065	<b>SSG0.8-35A</b>	M4	4	8.51	1.93	0.87	0.20	0~0.08	0.067	<b>SSG0.8-36A</b>	M4	4	9.12	2.17	0.93	0.22	0~0.08	0.072	<b>SSG0.8-38A</b>	M4	4	8.11	2.02	0.83	0.21	0~0.08	0.085 0.082	<b>SSG0.8-40A</b> <b>SSG0.8-40B</b>	M5	4	M4	4	10.7	3.26	1.09	0.33	0~0.08	0.11 0.11	<b>SSG0.8-50A</b> <b>SSG0.8-50B</b>	M5	4	M4	4	13.3	4.83	1.36	0.49	0~0.08	0.15 0.14	<b>SSG0.8-60A</b> <b>SSG0.8-60B</b>	M5	4	M4	4	16.0	6.73	1.63	0.69	0~0.08	0.19 0.19	<b>SSG0.8-70A</b> <b>SSG0.8-70B</b>	M5	4	M4	4	18.7	8.97	1.90	0.91	0~0.08	0.24 0.23	<b>SSG0.8-80A</b> <b>SSG0.8-80B</b>	M5	4																																																	
M4	3.5	3.14	0.89	0.32	0.091	0~0.08	0.038 0.037	<b>SSG0.5-50A</b> <b>SSG0.5-50B</b>																																																																																																																																																																																																																																																																																																										
M4	3.5	3.91	1.32	0.40	0.13	0~0.08	0.058 0.056	<b>SSG0.5-60A</b> <b>SSG0.5-60B</b>																																																																																																																																																																																																																																																																																																										
M5	3.5								M4	3.5	3.90	1.53	0.40	0.16	0~0.08	0.068 0.066	<b>SSG0.5-70A</b> <b>SSG0.5-70B</b>	M5	3.5	M4	3.5	4.55	2.04	0.46	0.21	0~0.08	0.080 0.077	<b>SSG0.5-80A</b> <b>SSG0.5-80B</b>	M5	3.5	M4	4	3.79	0.53	0.39	0.054	0~0.08	0.018 0.017	<b>SSG0.8-20A</b> <b>SSG0.8-20B</b>	M4	4	M4	4	4.08	0.59	0.42	0.060	0~0.08	0.020	<b>SSG0.8-21A</b>	M4	4	4.36	0.66	0.44	0.067	0~0.08	0.022	<b>SSG0.8-22A</b>	M4	4	4.64	0.73	0.47	0.074	0~0.08	0.024	<b>SSG0.8-23A</b>	M4	4	4.93	0.80	0.50	0.082	0~0.08	0.028 0.027	<b>SSG0.8-24A</b> <b>SSG0.8-24B</b>	M4	4	M4	4	5.22	0.88	0.53	0.090	0~0.08	0.029 0.028	<b>SSG0.8-25A</b> <b>SSG0.8-25B</b>	M4	4	5.51	0.96	0.56	0.098	0~0.08	0.033	<b>SSG0.8-26A</b>	M4	4	5.81	1.04	0.59	0.11	0~0.08	0.035	<b>SSG0.8-27A</b>	M4	4	6.10	1.12	0.62	0.11	0~0.08	0.037	<b>SSG0.8-28A</b>	M4	4	6.40	1.21	0.65	0.12	0~0.08	0.042	<b>SSG0.8-29A</b>	M4	4	6.70	1.30	0.68	0.13	0~0.08	0.045 0.044 0.041	<b>SSG0.8-30A</b> <b>SSG0.8-30B</b> <b>SSG0.8-30C</b>	M4	4	M5	4	M4	4	7.29	1.50	0.74	0.15	0~0.08	0.052	<b>SSG0.8-32A</b>	M4	4	7.90	1.71	0.81	0.17	0~0.08	0.056	<b>SSG0.8-34A</b>	M4	4	8.20	1.82	0.84	0.19	0~0.08	0.065	<b>SSG0.8-35A</b>	M4	4	8.51	1.93	0.87	0.20	0~0.08	0.067	<b>SSG0.8-36A</b>	M4	4	9.12	2.17	0.93	0.22	0~0.08	0.072	<b>SSG0.8-38A</b>	M4	4	8.11	2.02	0.83	0.21	0~0.08	0.085 0.082	<b>SSG0.8-40A</b> <b>SSG0.8-40B</b>	M5	4	M4	4	10.7	3.26	1.09	0.33	0~0.08	0.11 0.11	<b>SSG0.8-50A</b> <b>SSG0.8-50B</b>	M5	4	M4	4	13.3	4.83	1.36	0.49	0~0.08	0.15 0.14	<b>SSG0.8-60A</b> <b>SSG0.8-60B</b>	M5	4	M4	4	16.0	6.73	1.63	0.69	0~0.08	0.19 0.19	<b>SSG0.8-70A</b> <b>SSG0.8-70B</b>	M5	4	M4	4	18.7	8.97	1.90	0.91	0~0.08	0.24 0.23	<b>SSG0.8-80A</b> <b>SSG0.8-80B</b>	M5	4																																																																					
M4	3.5	3.90	1.53	0.40	0.16	0~0.08	0.068 0.066	<b>SSG0.5-70A</b> <b>SSG0.5-70B</b>																																																																																																																																																																																																																																																																																																										
M5	3.5								M4	3.5	4.55	2.04	0.46	0.21	0~0.08	0.080 0.077	<b>SSG0.5-80A</b> <b>SSG0.5-80B</b>	M5	3.5	M4	4	3.79	0.53	0.39	0.054	0~0.08	0.018 0.017	<b>SSG0.8-20A</b> <b>SSG0.8-20B</b>	M4	4	M4	4	4.08	0.59	0.42	0.060	0~0.08	0.020	<b>SSG0.8-21A</b>	M4	4	4.36	0.66	0.44	0.067	0~0.08	0.022	<b>SSG0.8-22A</b>	M4	4	4.64	0.73	0.47	0.074	0~0.08	0.024	<b>SSG0.8-23A</b>	M4	4	4.93	0.80	0.50	0.082	0~0.08	0.028 0.027	<b>SSG0.8-24A</b> <b>SSG0.8-24B</b>	M4	4	M4	4	5.22	0.88	0.53	0.090	0~0.08	0.029 0.028	<b>SSG0.8-25A</b> <b>SSG0.8-25B</b>	M4	4	5.51	0.96	0.56	0.098	0~0.08	0.033	<b>SSG0.8-26A</b>	M4	4	5.81	1.04	0.59	0.11	0~0.08	0.035	<b>SSG0.8-27A</b>	M4	4	6.10	1.12	0.62	0.11	0~0.08	0.037	<b>SSG0.8-28A</b>	M4	4	6.40	1.21	0.65	0.12	0~0.08	0.042	<b>SSG0.8-29A</b>	M4	4	6.70	1.30	0.68	0.13	0~0.08	0.045 0.044 0.041	<b>SSG0.8-30A</b> <b>SSG0.8-30B</b> <b>SSG0.8-30C</b>	M4	4	M5	4								M4	4	7.29	1.50	0.74	0.15	0~0.08	0.052	<b>SSG0.8-32A</b>	M4	4	7.90	1.71	0.81	0.17	0~0.08	0.056	<b>SSG0.8-34A</b>	M4	4	8.20	1.82	0.84	0.19	0~0.08	0.065	<b>SSG0.8-35A</b>	M4	4	8.51	1.93	0.87	0.20	0~0.08	0.067	<b>SSG0.8-36A</b>	M4	4	9.12	2.17	0.93	0.22	0~0.08	0.072	<b>SSG0.8-38A</b>	M4	4	8.11	2.02	0.83	0.21	0~0.08	0.085 0.082	<b>SSG0.8-40A</b> <b>SSG0.8-40B</b>	M5	4	M4	4	10.7	3.26	1.09	0.33	0~0.08	0.11 0.11	<b>SSG0.8-50A</b> <b>SSG0.8-50B</b>	M5	4	M4	4	13.3	4.83	1.36	0.49	0~0.08	0.15 0.14	<b>SSG0.8-60A</b> <b>SSG0.8-60B</b>	M5	4	M4	4	16.0	6.73	1.63	0.69	0~0.08	0.19 0.19	<b>SSG0.8-70A</b> <b>SSG0.8-70B</b>	M5	4	M4	4	18.7	8.97	1.90	0.91	0~0.08	0.24 0.23	<b>SSG0.8-80A</b> <b>SSG0.8-80B</b>	M5	4																																																																									
M4	3.5	4.55	2.04	0.46	0.21	0~0.08	0.080 0.077	<b>SSG0.5-80A</b> <b>SSG0.5-80B</b>																																																																																																																																																																																																																																																																																																										
M5	3.5								M4	4	3.79	0.53	0.39	0.054	0~0.08	0.018 0.017	<b>SSG0.8-20A</b> <b>SSG0.8-20B</b>	M4	4	M4	4	4.08	0.59	0.42	0.060	0~0.08	0.020	<b>SSG0.8-21A</b>	M4	4	4.36	0.66	0.44	0.067	0~0.08	0.022	<b>SSG0.8-22A</b>	M4	4	4.64	0.73	0.47	0.074	0~0.08	0.024	<b>SSG0.8-23A</b>	M4	4	4.93	0.80	0.50	0.082	0~0.08	0.028 0.027	<b>SSG0.8-24A</b> <b>SSG0.8-24B</b>	M4	4	M4	4	5.22	0.88	0.53	0.090	0~0.08	0.029 0.028	<b>SSG0.8-25A</b> <b>SSG0.8-25B</b>	M4	4	5.51	0.96	0.56	0.098	0~0.08	0.033	<b>SSG0.8-26A</b>	M4	4	5.81	1.04	0.59	0.11	0~0.08	0.035	<b>SSG0.8-27A</b>	M4	4	6.10	1.12	0.62	0.11	0~0.08	0.037	<b>SSG0.8-28A</b>	M4	4	6.40	1.21	0.65	0.12	0~0.08	0.042	<b>SSG0.8-29A</b>	M4	4	6.70	1.30	0.68	0.13	0~0.08	0.045 0.044 0.041	<b>SSG0.8-30A</b> <b>SSG0.8-30B</b> <b>SSG0.8-30C</b>	M4	4	M5	4								M4	4	7.29	1.50	0.74	0.15	0~0.08	0.052	<b>SSG0.8-32A</b>	M4	4	7.90	1.71	0.81	0.17	0~0.08	0.056	<b>SSG0.8-34A</b>	M4	4	8.20	1.82	0.84	0.19	0~0.08	0.065	<b>SSG0.8-35A</b>	M4	4	8.51	1.93	0.87	0.20	0~0.08	0.067	<b>SSG0.8-36A</b>	M4	4	9.12	2.17	0.93	0.22	0~0.08	0.072	<b>SSG0.8-38A</b>	M4	4	8.11	2.02	0.83	0.21	0~0.08	0.085 0.082	<b>SSG0.8-40A</b> <b>SSG0.8-40B</b>	M5	4	M4	4	10.7	3.26	1.09	0.33	0~0.08	0.11 0.11	<b>SSG0.8-50A</b> <b>SSG0.8-50B</b>	M5	4	M4	4	13.3	4.83	1.36	0.49	0~0.08	0.15 0.14	<b>SSG0.8-60A</b> <b>SSG0.8-60B</b>	M5	4	M4	4	16.0	6.73	1.63	0.69	0~0.08	0.19 0.19	<b>SSG0.8-70A</b> <b>SSG0.8-70B</b>	M5	4	M4	4	18.7	8.97	1.90	0.91	0~0.08	0.24 0.23	<b>SSG0.8-80A</b> <b>SSG0.8-80B</b>	M5	4																																																																																				
M4	4	3.79	0.53	0.39	0.054	0~0.08	0.018 0.017	<b>SSG0.8-20A</b> <b>SSG0.8-20B</b>																																																																																																																																																																																																																																																																																																										
M4	4								M4	4	4.08	0.59	0.42	0.060	0~0.08	0.020	<b>SSG0.8-21A</b>	M4	4	4.36	0.66	0.44	0.067	0~0.08	0.022	<b>SSG0.8-22A</b>	M4	4	4.64	0.73	0.47	0.074	0~0.08	0.024	<b>SSG0.8-23A</b>	M4	4	4.93	0.80	0.50	0.082	0~0.08	0.028 0.027	<b>SSG0.8-24A</b> <b>SSG0.8-24B</b>	M4	4	M4	4	5.22	0.88	0.53	0.090	0~0.08	0.029 0.028	<b>SSG0.8-25A</b> <b>SSG0.8-25B</b>	M4	4	5.51	0.96	0.56	0.098	0~0.08	0.033	<b>SSG0.8-26A</b>	M4	4	5.81	1.04	0.59	0.11	0~0.08	0.035	<b>SSG0.8-27A</b>	M4	4	6.10	1.12	0.62	0.11	0~0.08	0.037	<b>SSG0.8-28A</b>	M4	4	6.40	1.21	0.65	0.12	0~0.08	0.042	<b>SSG0.8-29A</b>	M4	4	6.70	1.30	0.68	0.13	0~0.08	0.045 0.044 0.041	<b>SSG0.8-30A</b> <b>SSG0.8-30B</b> <b>SSG0.8-30C</b>	M4	4	M5	4								M4	4	7.29	1.50	0.74	0.15	0~0.08	0.052	<b>SSG0.8-32A</b>	M4	4	7.90	1.71	0.81	0.17	0~0.08	0.056	<b>SSG0.8-34A</b>	M4	4	8.20	1.82	0.84	0.19	0~0.08	0.065	<b>SSG0.8-35A</b>	M4	4	8.51	1.93	0.87	0.20	0~0.08	0.067	<b>SSG0.8-36A</b>	M4	4	9.12	2.17	0.93	0.22	0~0.08	0.072	<b>SSG0.8-38A</b>	M4	4	8.11	2.02	0.83	0.21	0~0.08	0.085 0.082	<b>SSG0.8-40A</b> <b>SSG0.8-40B</b>	M5	4	M4	4	10.7	3.26	1.09	0.33	0~0.08	0.11 0.11	<b>SSG0.8-50A</b> <b>SSG0.8-50B</b>	M5	4	M4	4	13.3	4.83	1.36	0.49	0~0.08	0.15 0.14	<b>SSG0.8-60A</b> <b>SSG0.8-60B</b>	M5	4	M4	4	16.0	6.73	1.63	0.69	0~0.08	0.19 0.19	<b>SSG0.8-70A</b> <b>SSG0.8-70B</b>	M5	4	M4	4	18.7	8.97	1.90	0.91	0~0.08	0.24 0.23	<b>SSG0.8-80A</b> <b>SSG0.8-80B</b>	M5	4																																																																																															
M4	4	4.08	0.59	0.42	0.060	0~0.08	0.020	<b>SSG0.8-21A</b>																																																																																																																																																																																																																																																																																																										
M4	4	4.36	0.66	0.44	0.067	0~0.08	0.022	<b>SSG0.8-22A</b>																																																																																																																																																																																																																																																																																																										
M4	4	4.64	0.73	0.47	0.074	0~0.08	0.024	<b>SSG0.8-23A</b>																																																																																																																																																																																																																																																																																																										
M4	4	4.93	0.80	0.50	0.082	0~0.08	0.028 0.027	<b>SSG0.8-24A</b> <b>SSG0.8-24B</b>																																																																																																																																																																																																																																																																																																										
M4	4								M4	4	5.22	0.88	0.53	0.090	0~0.08	0.029 0.028	<b>SSG0.8-25A</b> <b>SSG0.8-25B</b>	M4	4	5.51	0.96	0.56	0.098	0~0.08	0.033	<b>SSG0.8-26A</b>	M4	4	5.81	1.04	0.59	0.11	0~0.08	0.035	<b>SSG0.8-27A</b>	M4	4	6.10	1.12	0.62	0.11	0~0.08	0.037	<b>SSG0.8-28A</b>	M4	4	6.40	1.21	0.65	0.12	0~0.08	0.042	<b>SSG0.8-29A</b>	M4	4	6.70	1.30	0.68	0.13	0~0.08	0.045 0.044 0.041	<b>SSG0.8-30A</b> <b>SSG0.8-30B</b> <b>SSG0.8-30C</b>	M4	4	M5	4	M4	4	7.29	1.50	0.74	0.15	0~0.08	0.052	<b>SSG0.8-32A</b>	M4	4	7.90	1.71	0.81	0.17	0~0.08	0.056	<b>SSG0.8-34A</b>	M4	4	8.20	1.82	0.84	0.19	0~0.08	0.065	<b>SSG0.8-35A</b>	M4	4	8.51	1.93	0.87	0.20	0~0.08	0.067	<b>SSG0.8-36A</b>	M4	4	9.12	2.17	0.93	0.22	0~0.08	0.072	<b>SSG0.8-38A</b>	M4	4	8.11	2.02	0.83	0.21	0~0.08	0.085 0.082	<b>SSG0.8-40A</b> <b>SSG0.8-40B</b>	M5	4	M4	4	10.7	3.26	1.09	0.33	0~0.08	0.11 0.11	<b>SSG0.8-50A</b> <b>SSG0.8-50B</b>	M5	4	M4	4	13.3	4.83	1.36	0.49	0~0.08	0.15 0.14	<b>SSG0.8-60A</b> <b>SSG0.8-60B</b>	M5	4	M4	4	16.0	6.73	1.63	0.69	0~0.08	0.19 0.19	<b>SSG0.8-70A</b> <b>SSG0.8-70B</b>	M5	4	M4	4	18.7	8.97	1.90	0.91	0~0.08	0.24 0.23	<b>SSG0.8-80A</b> <b>SSG0.8-80B</b>	M5	4																																																																																																																																												
M4	4	5.22	0.88	0.53	0.090	0~0.08	0.029 0.028	<b>SSG0.8-25A</b> <b>SSG0.8-25B</b>																																																																																																																																																																																																																																																																																																										
M4	4	5.51	0.96	0.56	0.098	0~0.08	0.033	<b>SSG0.8-26A</b>																																																																																																																																																																																																																																																																																																										
M4	4	5.81	1.04	0.59	0.11	0~0.08	0.035	<b>SSG0.8-27A</b>																																																																																																																																																																																																																																																																																																										
M4	4	6.10	1.12	0.62	0.11	0~0.08	0.037	<b>SSG0.8-28A</b>																																																																																																																																																																																																																																																																																																										
M4	4	6.40	1.21	0.65	0.12	0~0.08	0.042	<b>SSG0.8-29A</b>																																																																																																																																																																																																																																																																																																										
M4	4	6.70	1.30	0.68	0.13	0~0.08	0.045 0.044 0.041	<b>SSG0.8-30A</b> <b>SSG0.8-30B</b> <b>SSG0.8-30C</b>																																																																																																																																																																																																																																																																																																										
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M4	4	7.90	1.71	0.81	0.17	0~0.08	0.056	<b>SSG0.8-34A</b>																																																																																																																																																																																																																																																																																																										
M4	4	8.20	1.82	0.84	0.19	0~0.08	0.065	<b>SSG0.8-35A</b>																																																																																																																																																																																																																																																																																																										
M4	4	8.51	1.93	0.87	0.20	0~0.08	0.067	<b>SSG0.8-36A</b>																																																																																																																																																																																																																																																																																																										
M4	4	9.12	2.17	0.93	0.22	0~0.08	0.072	<b>SSG0.8-38A</b>																																																																																																																																																																																																																																																																																																										
M4	4	8.11	2.02	0.83	0.21	0~0.08	0.085 0.082	<b>SSG0.8-40A</b> <b>SSG0.8-40B</b>																																																																																																																																																																																																																																																																																																										
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M4	4	10.7	3.26	1.09	0.33	0~0.08	0.11 0.11	<b>SSG0.8-50A</b> <b>SSG0.8-50B</b>																																																																																																																																																																																																																																																																																																										
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M4	4	13.3	4.83	1.36	0.49	0~0.08	0.15 0.14	<b>SSG0.8-60A</b> <b>SSG0.8-60B</b>																																																																																																																																																																																																																																																																																																										
M5	4																																																																																																																																																																																																																																																																																																																	
M4	4	16.0	6.73	1.63	0.69	0~0.08	0.19 0.19	<b>SSG0.8-70A</b> <b>SSG0.8-70B</b>																																																																																																																																																																																																																																																																																																										
M5	4																																																																																																																																																																																																																																																																																																																	
M4	4	18.7	8.97	1.90	0.91	0~0.08	0.24 0.23	<b>SSG0.8-80A</b> <b>SSG0.8-80B</b>																																																																																																																																																																																																																																																																																																										
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[Caution on Secondary Operations] ① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.



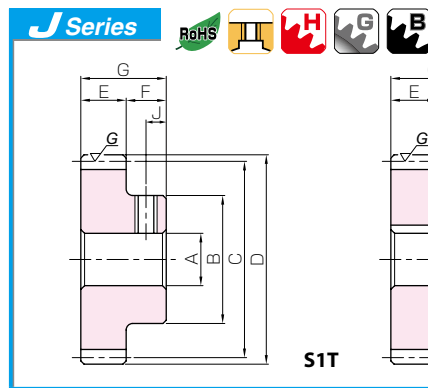
Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A <sub>H7</sub>	B	C	D	E	F	G	Width×Depth
<b>SSG1-15</b> ● <b>SSG1-15 J6</b>	<b>m1</b>	15	S1	6	12	15	17	8	10	18	—
S1T			6	—							
<b>SSG1-16</b> ● <b>SSG1-16 J6</b>		16	S1	6	13	16	18	8	10	18	—
S1T			6	—							
<b>SSG1-17</b> ● <b>SSG1-17 J6</b> ● <b>SSG1-17 J8</b>		17	S1	6	14	17	19	8	10	18	—
S1T			6	—							
S1T			8	—							
<b>SSG1-18</b> ● <b>SSG1-18 J6</b> ● <b>SSG1-18 J8</b>		18	S1	6	15	18	20	8	10	18	—
S1T			6	—							
S1T			8	—							
<b>SSG1-19</b> ● <b>SSG1-19 J6</b> ● <b>SSG1-19 J8</b>		19	S1	6	16	19	21	8	10	18	—
S1T			6	—							
S1T			8	—							
<b>SSG1-20</b> ● <b>SSG1-20 J6</b> ● <b>SSG1-20 J8</b> ● <b>SSG1-20 J10**</b>		20	S1	6	17	20	22	8	10	18	—
S1T			6	—							
S1T			8	—							
S1K			10	4 x 1.8							
<b>SSG1-21</b> ● <b>SSG1-21 J8</b> ● <b>SSG1-21 J10</b>		21	S1	8	18	21	23	8	10	18	—
S1T			8	—							
S1K			10	4 x 1.8							
<b>SSG1-22</b> ● <b>SSG1-22 J8</b> ● <b>SSG1-22 J10</b>		22	S1	8	18	22	24	8	10	18	—
S1T			8	—							
S1K			10	4 x 1.8							
<b>SSG1-23</b> ● <b>SSG1-23 J8</b> ● <b>SSG1-23 J10</b> ● <b>SSG1-23 J12</b>		23	S1	8	20	23	25	8	10	18	—
S1T			8	—							
S1K			10	4 x 1.8							
S1K			12	4 x 1.8							
<b>SSG1-24</b> ● <b>SSG1-24 J8</b> ● <b>SSG1-24 J10</b> ● <b>SSG1-24 J12</b>		24	S1	8	20	24	26	8	10	18	—
S1T			8	—							
S1K	10		4 x 1.8								
S1K	12		4 x 1.8								
<b>SSG1-25</b> ● <b>SSG1-25 J8</b> ● <b>SSG1-25 J10</b> ● <b>SSG1-25 J12</b>	25	S1	8	20	25	27	8	10	18	—	
S1T		8	—								
S1K		10	4 x 1.8								
S1K		12	4 x 1.8								
<b>SSG1-26</b> ● <b>SSG1-26 J8</b> ● <b>SSG1-26 J10</b> ● <b>SSG1-26 J12</b>	26	S1	8	20	26	28	8	10	18	—	
S1T		8	—								
S1K		10	4 x 1.8								
S1K		12	4 x 1.8								
<b>SSG1-27</b> ● <b>SSG1-27 J8</b> ● <b>SSG1-27 J10</b> ● <b>SSG1-27 J12</b>	27	S1	8	20	27	29	8	10	18	—	
S1T		8	—								
S1K		10	4 x 1.8								
S1K		12	4 x 1.8								
<b>SSG1-28</b> ● <b>SSG1-28 J8</b> ● <b>SSG1-28 J10</b> ● <b>SSG1-28 J12</b>	28	S1	8	20	28	30	8	10	18	—	
S1T		8	—								
S1K		10	4 x 1.8								
S1K		12	4 x 1.8								
<b>SSG1-29</b> ● <b>SSG1-29 J8</b> ● <b>SSG1-29 J10</b> ● <b>SSG1-29 J12</b> ● <b>SSG1-29 J14</b> ● <b>SSG1-29 J15</b>	29	S1	8	25	29	31	8	10	18	—	
S1T		8	—								
S1K		10	4 x 1.8								
S1K		12	4 x 1.8								
S1K		14	5 x 2.3								
S1K		15	5 x 2.3								

[Caution on Product Characteristics]

- ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
- ② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

[Caution on Secondary Operations]

- ① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.
- ② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).



## Ground Spur Gears



Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—	2.96	1.03	0.30	0.11	0.08~0.16	0.016	<b>SSG1-15</b>
M4	5						0.015	● <b>SSG1-15 J6</b>
—	—	3.28	1.19	0.33	0.12	0.08~0.16	0.019	<b>SSG1-16</b>
M4	5						0.018	● <b>SSG1-16 J6</b>
—	—	3.60	1.36	0.37	0.14	0.08~0.16	0.022	<b>SSG1-17</b>
M4	5						0.022	● <b>SSG1-17 J6</b>
M5	5						0.018	● <b>SSG1-17 J8</b>
—	—	3.93	1.54	0.40	0.16	0.08~0.16	0.026	<b>SSG1-18</b>
M4	5						0.025	● <b>SSG1-18 J6</b>
M5	5						0.022	● <b>SSG1-18 J8</b>
—	—	4.26	1.73	0.43	0.18	0.08~0.16	0.030	<b>SSG1-19</b>
M4	5						0.029	● <b>SSG1-19 J6</b>
M5	5						0.025	● <b>SSG1-19 J8</b>
—	—	4.60	1.94	0.47	0.20	0.08~0.16	0.034	<b>SSG1-20</b>
M4	5						0.033	● <b>SSG1-20 J6</b>
M5	5						0.029	● <b>SSG1-20 J8</b>
M4	5						0.025	● <b>SSG1-20 J10**</b>
—	—	4.94	2.14	0.50	0.22	0.08~0.16	0.035	<b>SSG1-21</b>
M5	5						0.033	● <b>SSG1-21 J8</b>
M4	5						0.029	● <b>SSG1-21 J10</b>
—	—	5.28	2.36	0.54	0.24	0.08~0.16	0.037	<b>SSG1-22</b>
M5	5						0.035	● <b>SSG1-22 J8</b>
M4	5						0.031	● <b>SSG1-22 J10</b>
—	—	5.63	2.59	0.57	0.26	0.08~0.16	0.044	<b>SSG1-23</b>
M5	5						0.042	● <b>SSG1-23 J8</b>
M4	5						0.038	● <b>SSG1-23 J10</b>
M4	5						0.033	● <b>SSG1-23 J12</b>
—	—	5.98	2.83	0.61	0.29	0.08~0.16	0.046	<b>SSG1-24</b>
M5	5						0.044	● <b>SSG1-24 J8</b>
M4	5						0.040	● <b>SSG1-24 J10</b>
M4	5						0.036	● <b>SSG1-24 J12</b>
—	—	6.33	3.07	0.65	0.31	0.08~0.16	0.048	<b>SSG1-25</b>
M5	5						0.047	● <b>SSG1-25 J8</b>
M4	5						0.043	● <b>SSG1-25 J10</b>
M4	5						0.038	● <b>SSG1-25 J12</b>
—	—	6.68	3.33	0.68	0.34	0.08~0.16	0.051	<b>SSG1-26</b>
M5	5						0.049	● <b>SSG1-26 J8</b>
M4	5						0.045	● <b>SSG1-26 J10</b>
M4	5						0.041	● <b>SSG1-26 J12</b>
—	—	7.04	3.60	0.72	0.37	0.08~0.16	0.054	<b>SSG1-27</b>
M5	5						0.052	● <b>SSG1-27 J8</b>
M4	5						0.048	● <b>SSG1-27 J10</b>
M4	5						0.043	● <b>SSG1-27 J12</b>
—	—	7.39	3.89	0.75	0.40	0.08~0.16	0.056	<b>SSG1-28</b>
M5	5						0.055	● <b>SSG1-28 J8</b>
M4	5						0.051	● <b>SSG1-28 J10</b>
M4	5						0.046	● <b>SSG1-28 J12</b>
—	—	7.75	4.18	0.79	0.43	0.08~0.16	0.073	<b>SSG1-29</b>
M5	5						0.071	● <b>SSG1-29 J8</b>
M4	5						0.067	● <b>SSG1-29 J10</b>
M4	5						0.062	● <b>SSG1-29 J12</b>
M4	5						0.056	● <b>SSG1-29 J14</b>
M4	5						0.053	● <b>SSG1-29 J15</b>

## [Caution on J series]

① As available-on-request products, requires a lead-time for shipping within 3 working-days (excludes the day ordered), after placing an order.

Please allow additional shipping time to get to your local distributor.

② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.

③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.

④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "\*" are tap size).

⑤ Areas of products which have been re-worked will not be black oxide coated.

⑥ For products having a tapped hole, a set screw is included.

⑦ Products marked with "\*\*" in their catalog numbers, have a thin gap between the keyway and the gear root surface. So, thickness must be considered when using.

For details, please see our web site.

Spur Gears

Helical Gears

Internal Gears

Racks

CP Racks &amp; Pinions

Miter Gears

Bevel Gears

Screw Gears

Worm Gear Pair

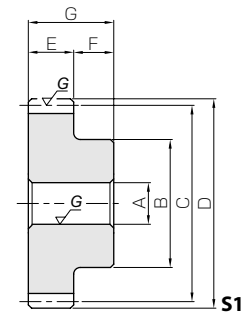
Bevel Gearboxes

Other Products



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.



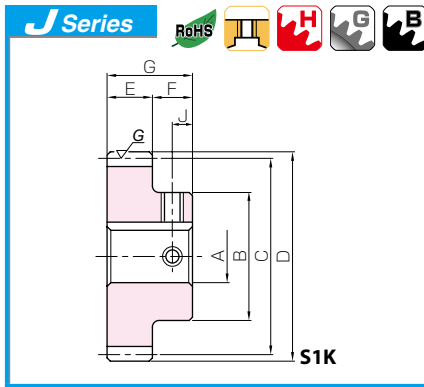
Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A <sub>H7</sub>	B	C	D	E	F	G	Width×Depth
SSG1-30 ●SSG1-30 J10 ●SSG1-30 J12 ●SSG1-30 J14 ●SSG1-30 J15	m1	30	S1	10	25	30	32	8	10	18	—
			S1K	10							4 x 1.8
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
SSG1-32 ●SSG1-32 J10 ●SSG1-32 J12 ●SSG1-32 J14 ●SSG1-32 J15		32	S1	10	25	32	34	8	10	18	—
			S1K	10							4 x 1.8
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
SSG1-34 ●SSG1-34 J10 ●SSG1-34 J12 ●SSG1-34 J14 ●SSG1-34 J15		34	S1	10	25	34	36	8	10	18	—
			S1K	10							4 x 1.8
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
SSG1-35 ●SSG1-35 J10 ●SSG1-35 J12 ●SSG1-35 J14 ●SSG1-35 J15		35	S1	10	25	35	37	8	10	18	—
			S1K	10							4 x 1.8
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
SSG1-36 ●SSG1-36 J10 ●SSG1-36 J12 ●SSG1-36 J14 ●SSG1-36 J15		36	S1	10	25	36	38	8	10	18	—
			S1K	10							4 x 1.8
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
SSG1-38 ●SSG1-38 J10 ●SSG1-38 J12 ●SSG1-38 J14 ●SSG1-38 J15 ●SSG1-38 J16 ●SSG1-38 J18		38	S1	10	30	38	40	8	10	18	—
			S1K	10							4 x 1.8
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
SSG1-40 ●SSG1-40 J10 ●SSG1-40 J12 ●SSG1-40 J14 ●SSG1-40 J15 ●SSG1-40 J16 ●SSG1-40 J18		40	S1	10	30	40	42	8	10	18	—
			S1K	10							4 x 1.8
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
SSG1-42 ●SSG1-42 J10 ●SSG1-42 J12 ●SSG1-42 J14 ●SSG1-42 J15 ●SSG1-42 J16 ●SSG1-42 J18		42	S1	10	30	42	44	8	10	18	—
			S1K	10							4 x 1.8
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
SSG1-44 ●SSG1-44 J10 ●SSG1-44 J12 ●SSG1-44 J14 ●SSG1-44 J15 ●SSG1-44 J16 ●SSG1-44 J18		44	S1	10	30	44	46	8	10	18	—
			S1K	10							4 x 1.8
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3

[Caution on Product Characteristics]

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- ② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

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## Ground Spur Gears



Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—	—	—	—	—	—	—	<b>SSG1-30</b>
M4	5	8.11	4.48	0.83	0.46	0.08~0.16	0.072	● <b>SSG1-30 J10</b>
M4	5							● <b>SSG1-30 J12</b>
M4	5							● <b>SSG1-30 J14</b>
M4	5							● <b>SSG1-30 J15</b>
—	—	—	—	—	—	—	—	<b>SSG1-32</b>
M4	5	7.37	4.27	0.75	0.43	0.08~0.16	0.078	● <b>SSG1-32 J10</b>
M4	5							● <b>SSG1-32 J12</b>
M4	5							● <b>SSG1-32 J14</b>
M4	5							● <b>SSG1-32 J15</b>
—	—	—	—	—	—	—	—	<b>SSG1-34</b>
M4	5	7.98	4.84	0.81	0.49	0.08~0.16	0.084	● <b>SSG1-34 J10</b>
M4	5							● <b>SSG1-34 J12</b>
M4	5							● <b>SSG1-34 J14</b>
M4	5							● <b>SSG1-34 J15</b>
—	—	—	—	—	—	—	—	<b>SSG1-35</b>
M4	5	8.28	5.14	0.84	0.52	0.08~0.16	0.088	● <b>SSG1-35 J10</b>
M4	5							● <b>SSG1-35 J12</b>
M4	5							● <b>SSG1-35 J14</b>
M4	5							● <b>SSG1-35 J15</b>
—	—	—	—	—	—	—	—	<b>SSG1-36</b>
M4	5	8.59	5.45	0.88	0.56	0.08~0.16	0.091	● <b>SSG1-36 J10</b>
M4	5							● <b>SSG1-36 J12</b>
M4	5							● <b>SSG1-36 J14</b>
M4	5							● <b>SSG1-36 J15</b>
—	—	—	—	—	—	—	—	<b>SSG1-38</b>
M4	5	9.21	6.10	0.94	0.62	0.08~0.16	0.12	● <b>SSG1-38 J10</b>
M4	5							● <b>SSG1-38 J12</b>
M4	5							● <b>SSG1-38 J14</b>
M4	5							● <b>SSG1-38 J15</b>
M4	5							● <b>SSG1-38 J16</b>
M5	5							● <b>SSG1-38 J18</b>
—	—	—	—	—	—	—	—	<b>SSG1-40</b>
M4	5	9.83	6.79	1.00	0.69	0.08~0.16	0.12	● <b>SSG1-40 J10</b>
M4	5							● <b>SSG1-40 J12</b>
M4	5							● <b>SSG1-40 J14</b>
M4	5							● <b>SSG1-40 J15</b>
M4	5							● <b>SSG1-40 J16</b>
M5	5							● <b>SSG1-40 J18</b>
—	—	—	—	—	—	—	—	<b>SSG1-42</b>
M4	5	10.5	7.51	1.07	0.77	0.08~0.16	0.13	● <b>SSG1-42 J10</b>
M4	5							● <b>SSG1-42 J12</b>
M4	5							● <b>SSG1-42 J14</b>
M4	5							● <b>SSG1-42 J15</b>
M4	5							● <b>SSG1-42 J16</b>
M5	5							● <b>SSG1-42 J18</b>
—	—	—	—	—	—	—	—	<b>SSG1-44</b>
M4	5	11.1	8.28	1.13	0.84	0.08~0.16	0.14	● <b>SSG1-44 J10</b>
M4	5							● <b>SSG1-44 J12</b>
M4	5							● <b>SSG1-44 J14</b>
M4	5							● <b>SSG1-44 J15</b>
M4	5							● <b>SSG1-44 J16</b>
M5	5							● <b>SSG1-44 J18</b>

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④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "\*" are tap size).

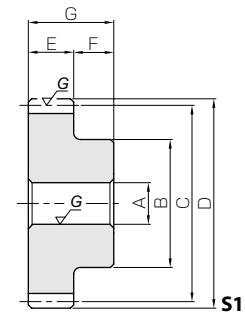
⑤ Areas of products which have been re-worked will not be black oxide coated.

⑥ For products having a tapped hole, a set screw is included.



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.



- Spur Gears
- Helical Gears
- Internal Gears
- Racks
- CP Racks & Pinions
- Miter Gears
- Bevel Gears
- Screw Gears
- Worm Gear Pair
- Bevel Gearboxes
- Other Products

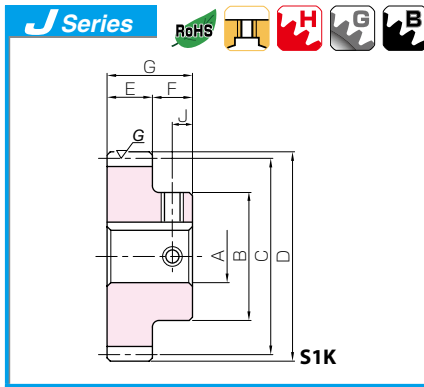
Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A <sub>H7</sub>	B	C	D	E	F	G	Width×Depth
<b>SSG1-45</b> ● SSG1-45 J10 ● SSG1-45 J12 ● SSG1-45 J14 ● SSG1-45 J15 ● SSG1-45 J16 ● SSG1-45 J18	<i>m1</i>	45	S1	10	30	45	47	8	10	18	—
			S1K	10							4 x 1.8
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
<b>SSG1-48</b> ● SSG1-48 J10 ● SSG1-48 J12 ● SSG1-48 J14 ● SSG1-48 J15 ● SSG1-48 J16 ● SSG1-48 J18	<i>m1</i>	48	S1	10	30	48	50	8	10	18	—
			S1K	10							4 x 1.8
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
<b>SSG1-50</b> ● SSG1-50 J12 ● SSG1-50 J14 ● SSG1-50 J15 ● SSG1-50 J16 ● SSG1-50 J18 ● SSG1-50 J19 ● SSG1-50 J20	<i>m1</i>	50	S1	12	35	50	52	8	10	18	—
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
S1K	20	6 x 2.8									
<b>SSG1-55</b> ● SSG1-55 J12 ● SSG1-55 J14 ● SSG1-55 J15 ● SSG1-55 J16 ● SSG1-55 J18 ● SSG1-55 J19 ● SSG1-55 J20	<i>m1</i>	55	S1	12	35	55	57	8	10	18	—
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
S1K	20	6 x 2.8									
<b>SSG1-56</b> ● SSG1-56 J12 ● SSG1-56 J14 ● SSG1-56 J15 ● SSG1-56 J16 ● SSG1-56 J18 ● SSG1-56 J19 ● SSG1-56 J20	<i>m1</i>	56	S1	12	35	56	58	8	10	18	—
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
S1K	20	6 x 2.8									
<b>SSG1-60</b> ● SSG1-60 J12 ● SSG1-60 J14 ● SSG1-60 J15 ● SSG1-60 J16 ● SSG1-60 J18 ● SSG1-60 J19 ● SSG1-60 J20 ● SSG1-60 J22	<i>m1</i>	60	S1	12	40	60	62	8	10	18	—
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
S1K	20	6 x 2.8									
S1K	22	6 x 2.8									

[Caution on Product Characteristics]

- ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
- ② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

[Caution on Secondary Operations]

- ① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.
- ② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).



## Ground Spur Gears



Set Screw		Allowable torque(N-m)		Allowable torque(kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—						0.14	<b>SSG1-45</b>
M4	5	11.4	8.67	1.16	0.88	0.08~0.16	0.14	● <b>SSG1-45 J10</b>
M4	5						0.14	● <b>SSG1-45 J12</b>
M4	5						0.13	● <b>SSG1-45 J14</b>
M4	5						0.13	● <b>SSG1-45 J15</b>
M4	5						0.12	● <b>SSG1-45 J16</b>
M5	5						0.12	● <b>SSG1-45 J18</b>
—	—						0.16	<b>SSG1-48</b>
M4	5	12.3	9.92	1.26	1.01	0.08~0.16	0.16	● <b>SSG1-48 J10</b>
M4	5						0.15	● <b>SSG1-48 J12</b>
M4	5						0.14	● <b>SSG1-48 J14</b>
M4	5						0.14	● <b>SSG1-48 J15</b>
M4	5						0.14	● <b>SSG1-48 J16</b>
M5	5						0.13	● <b>SSG1-48 J18</b>
—	—						0.18	<b>SSG1-50</b>
M4	5	13.0	10.8	1.32	1.10	0.08~0.16	0.18	● <b>SSG1-50 J12</b>
M4	5						0.17	● <b>SSG1-50 J14</b>
M4	5						0.17	● <b>SSG1-50 J15</b>
M4	5						0.17	● <b>SSG1-50 J16</b>
M5	5						0.16	● <b>SSG1-50 J18</b>
M5	5						0.15	● <b>SSG1-50 J19</b>
M5	5	0.15	● <b>SSG1-50 J20</b>					
—	—						0.21	<b>SSG1-55</b>
M4	5	14.6	13.2	1.48	1.34	0.10~0.18	0.21	● <b>SSG1-55 J12</b>
M4	5						0.21	● <b>SSG1-55 J14</b>
M4	5						0.20	● <b>SSG1-55 J15</b>
M4	5						0.19	● <b>SSG1-55 J16</b>
M5	5						0.18	● <b>SSG1-55 J18</b>
M5	5						0.18	● <b>SSG1-55 J19</b>
M5	5	0.18	● <b>SSG1-55 J20</b>					
—	—						0.21	<b>SSG1-56</b>
M4	5	14.9	13.7	1.52	1.40	0.10~0.18	0.21	● <b>SSG1-56 J12</b>
M4	5						0.21	● <b>SSG1-56 J14</b>
M4	5						0.20	● <b>SSG1-56 J15</b>
M4	5						0.20	● <b>SSG1-56 J16</b>
M5	5						0.19	● <b>SSG1-56 J18</b>
M5	5						0.19	● <b>SSG1-56 J19</b>
M5	5	0.18	● <b>SSG1-56 J20</b>					
—	—						0.26	<b>SSG1-60</b>
M4	5	16.2	15.8	1.65	1.61	0.10~0.18	0.26	● <b>SSG1-60 J12</b>
M4	5						0.25	● <b>SSG1-60 J14</b>
M4	5						0.25	● <b>SSG1-60 J15</b>
M4	5						0.24	● <b>SSG1-60 J16</b>
M5	5						0.24	● <b>SSG1-60 J18</b>
M5	5						0.23	● <b>SSG1-60 J19</b>
M5	5	0.23	● <b>SSG1-60 J20</b>					
M5	5	0.22	● <b>SSG1-60 J22</b>					

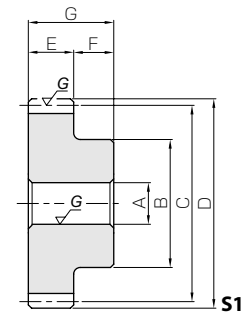
**[Caution on J series]**

- ① As available-on-request products, requires a lead-time for shipping within 3 working-days (excludes the day ordered), after placing an order.  
Please allow additional shipping time to get to your local distributor.
- ② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
- ③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.
- ④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "\*" are tap size).
- ⑤ Areas of products which have been re-worked will not be black oxide coated.
- ⑥ For products having a tapped hole, a set screw is included.



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.



- Spur Gears
- Helical Gears
- Internal Gears
- Racks
- CP Racks & Pinions
- Miter Gears
- Bevel Gears
- Screw Gears
- Worm Gear Pair
- Bevel Gearboxes
- Other Products

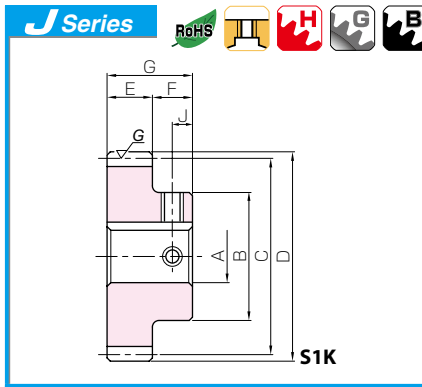
Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A <sub>H7</sub>	B	C	D	E	F	G	Width×Depth
SSG1-64 ●SSG1-64 J12 ●SSG1-64 J14 ●SSG1-64 J15 ●SSG1-64 J16 ●SSG1-64 J18 ●SSG1-64 J19 ●SSG1-64 J20 ●SSG1-64 J22	m1	64	S1	12	40	64	66	8	10	18	—
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
S1K	22	6 x 2.8									
SSG1-70 ●SSG1-70 J12 ●SSG1-70 J14 ●SSG1-70 J15 ●SSG1-70 J16 ●SSG1-70 J18 ●SSG1-70 J19 ●SSG1-70 J20 ●SSG1-70 J22	m1	70	S1	12	40	70	72	8	10	18	—
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
S1K	22	6 x 2.8									
SSG1-75 ●SSG1-75 J12 ●SSG1-75 J14 ●SSG1-75 J15 ●SSG1-75 J16 ●SSG1-75 J18 ●SSG1-75 J19 ●SSG1-75 J20 ●SSG1-75 J22	m1	75	S1	12	40	75	77	8	10	18	—
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
S1K	22	6 x 2.8									
SSG1-80 ●SSG1-80 J15 ●SSG1-80 J16 ●SSG1-80 J18 ●SSG1-80 J19 ●SSG1-80 J20 ●SSG1-80 J22 ●SSG1-80 J25 ●SSG1-80 J28 ●SSG1-80 J30	m1	80	S1	15	50	80	82	8	10	18	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
S1K	28	8 x 3.3									
S1K	30	8 x 3.3									
SSG1-90 ●SSG1-90 J15 ●SSG1-90 J16 ●SSG1-90 J18 ●SSG1-90 J19 ●SSG1-90 J20 ●SSG1-90 J22 ●SSG1-90 J25 ●SSG1-90 J28 ●SSG1-90 J30	m1	90	S1	15	50	90	92	8	10	18	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
S1K	28	8 x 3.3									
S1K	30	8 x 3.3									

[Caution on Product Characteristics]

- ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
- ② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

[Caution on Secondary Operations]

- ① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.
- ② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).



## Ground Spur Gears



Set Screw		Allowable torque(N-m)		Allowable torque(kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—						0.28	<b>SSG1-64</b>
M4	5						0.28	● <b>SSG1-64 J12</b>
M4	5						0.28	● <b>SSG1-64 J14</b>
M4	5						0.27	● <b>SSG1-64 J15</b>
M4	5	17.4	18.1	1.78	1.84	0.10~0.18	0.27	● <b>SSG1-64 J16</b>
M5	5						0.26	● <b>SSG1-64 J18</b>
M5	5						0.26	● <b>SSG1-64 J19</b>
M5	5						0.25	● <b>SSG1-64 J20</b>
M5	5						0.24	● <b>SSG1-64 J22</b>
—	—						0.32	<b>SSG1-70</b>
M4	5						0.32	● <b>SSG1-70 J12</b>
M4	5						0.32	● <b>SSG1-70 J14</b>
M4	5	19.4	21.8	1.97	2.22	0.10~0.18	0.31	● <b>SSG1-70 J15</b>
M4	5						0.31	● <b>SSG1-70 J16</b>
M5	5						0.30	● <b>SSG1-70 J18</b>
M5	5						0.30	● <b>SSG1-70 J19</b>
M5	5						0.29	● <b>SSG1-70 J20</b>
M5	5						0.28	● <b>SSG1-70 J22</b>
—	—						0.36	<b>SSG1-75</b>
M4	5						0.36	● <b>SSG1-75 J12</b>
M4	5						0.35	● <b>SSG1-75 J14</b>
M4	5	21.0	25.2	2.14	2.57	0.10~0.18	0.35	● <b>SSG1-75 J15</b>
M4	5						0.34	● <b>SSG1-75 J16</b>
M5	5						0.34	● <b>SSG1-75 J18</b>
M5	5						0.33	● <b>SSG1-75 J19</b>
M5	5						0.33	● <b>SSG1-75 J20</b>
M5	5						0.32	● <b>SSG1-75 J22</b>
—	—						0.44	<b>SSG1-80</b>
M4*	5						0.44	● <b>SSG1-80 J15</b>
M4*	5						0.43	● <b>SSG1-80 J16</b>
M5	5						0.43	● <b>SSG1-80 J18</b>
M5	5	22.6	28.8	2.30	2.94	0.10~0.18	0.42	● <b>SSG1-80 J19</b>
M5	5						0.42	● <b>SSG1-80 J20</b>
M5	5						0.41	● <b>SSG1-80 J22</b>
M6	5						0.39	● <b>SSG1-80 J25</b>
M6	5						0.38	● <b>SSG1-80 J28</b>
M6	5						0.36	● <b>SSG1-80 J30</b>
—	—						0.53	<b>SSG1-90</b>
M4*	5						0.52	● <b>SSG1-90 J15</b>
M4*	5						0.52	● <b>SSG1-90 J16</b>
M5	5						0.51	● <b>SSG1-90 J18</b>
M5	5	25.8	36.9	2.64	3.77	0.10~0.18	0.51	● <b>SSG1-90 J19</b>
M5	5						0.50	● <b>SSG1-90 J20</b>
M5	5						0.49	● <b>SSG1-90 J22</b>
M6	5						0.48	● <b>SSG1-90 J25</b>
M6	5						0.46	● <b>SSG1-90 J28</b>
M6	5						0.45	● <b>SSG1-90 J30</b>

[Caution on J series] ① As available-on-request products, requires a lead-time for shipping within 3 working-days (excludes the day ordered), after placing an order.

Please allow additional shipping time to get to your local distributor.

② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.

③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.

④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "\*" are tap size).

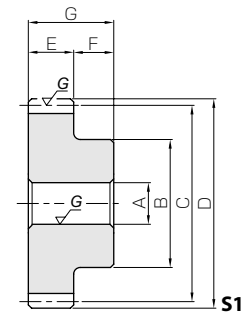
⑤ Areas of products which have been re-worked will not be black oxide coated.

⑥ For products having a tapped hole, a set screw is included.



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.



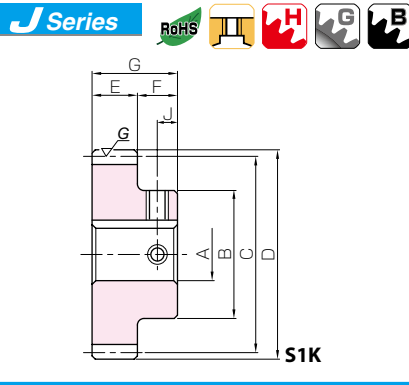
Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A <sub>H7</sub>	B	C	D	E	F	G	Width×Depth
<b>SSG1-100</b>	<b>m1</b>	100	S1	15	50	100	102	8	10	18	—
● SSG1-100 J15			S1K	15							5 x 2.3
● SSG1-100 J16			S1K	16							5 x 2.3
● SSG1-100 J18			S1K	18							6 x 2.8
● SSG1-100 J19			S1K	19							6 x 2.8
● SSG1-100 J20			S1K	20							6 x 2.8
● SSG1-100 J22			S1K	22							6 x 2.8
● SSG1-100 J25			S1K	25							8 x 3.3
● SSG1-100 J28			S1K	28							8 x 3.3
● SSG1-100 J30		S1K	30	8 x 3.3							
<b>SSG1-120</b>		120	S1	15	50	120	122	8	10	18	—
● SSG1-120 J15			S1K	15							5 x 2.3
● SSG1-120 J16			S1K	16							5 x 2.3
● SSG1-120 J18			S1K	18							6 x 2.8
● SSG1-120 J19			S1K	19							6 x 2.8
● SSG1-120 J20	S1K		20	6 x 2.8							
● SSG1-120 J22	S1K		22	6 x 2.8							
● SSG1-120 J25	S1K		25	8 x 3.3							
● SSG1-120 J28	S1K		28	8 x 3.3							
● SSG1-120 J30	S1K	30	8 x 3.3								

[Caution on Product Characteristics]

- ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
- ② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

[Caution on Secondary Operations]

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## Ground Spur Gears



Set Screw		Allowable torque(N-m)		Allowable torque(kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—	26.9	42.5	2.74	4.34	0.10~0.18	0.62	<b>SSG1-100</b>
M4*	5						0.62	● <b>SSG1-100 J15</b>
M4*	5						0.61	● <b>SSG1-100 J16</b>
M5	5						0.61	● <b>SSG1-100 J18</b>
M5	5						0.60	● <b>SSG1-100 J19</b>
M5	5						0.60	● <b>SSG1-100 J20</b>
M5	5						0.59	● <b>SSG1-100 J22</b>
M6	5						0.57	● <b>SSG1-100 J25</b>
M6	5						0.55	● <b>SSG1-100 J28</b>
M6	5						0.54	● <b>SSG1-100 J30</b>
—	—	32.9	62.5	3.36	6.37	0.12~0.20	0.84	<b>SSG1-120</b>
M4*	5						0.83	● <b>SSG1-120 J15</b>
M4*	5						0.83	● <b>SSG1-120 J16</b>
M5	5						0.82	● <b>SSG1-120 J18</b>
M5	5						0.82	● <b>SSG1-120 J19</b>
M5	5						0.81	● <b>SSG1-120 J20</b>
M5	5						0.81	● <b>SSG1-120 J22</b>
M6	5						0.79	● <b>SSG1-120 J25</b>
M6	5						0.77	● <b>SSG1-120 J28</b>
M6	5						0.76	● <b>SSG1-120 J30</b>

**[Caution on J series]**

- ① As available-on-request products, requires a lead-time for shipping within **3 working-days (excludes the day ordered)**, after placing an order.  
Please allow additional shipping time to get to your local distributor.
- ② Number of products we can process for one order is **1 to 20 units**. For quantities of 21 or more pieces, we need to quote price and lead time.
- ③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.
- ④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with " \* " are tap size).
- ⑤ Areas of products which have been re-worked will not be black oxide coated.
- ⑥ For products having a tapped hole, a set screw is included.

Spur  
GearsHelical  
GearsInternal  
Gears

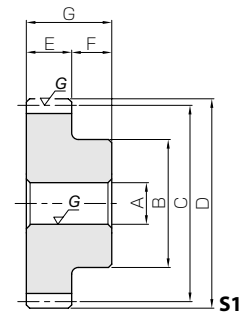
Racks

CP Racks  
& PinionsMiter  
GearsBevel  
GearsScrew  
GearsWorm  
Gear PairBevel  
GearboxesOther  
Products



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

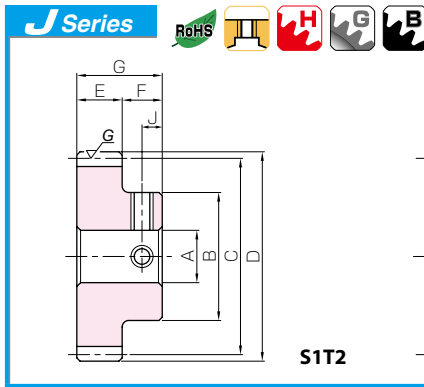
\* The precision grade of J Series products is equivalent to the value shown in the table.



- Spur Gears
- Helical Gears
- Internal Gears
- Racks
- CP Racks & Pinions
- Miter Gears
- Bevel Gears
- Screw Gears
- Worm Gear Pair
- Bevel Gearboxes
- Other Products

Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A <sub>H7</sub>	B	C	D	E	F	G	Width×Depth
<b>SSG1.5-14</b> ● <b>SSG1.5-14 J10</b>	m1.5	14	S1	10	17	21	24	15	14	29	—
S1T2			10	—							
<b>SSG1.5-15</b> ● <b>SSG1.5-15 J10**</b>		15	S1	10	18	22.5	25.5	15	14	29	—
S1K			10	4 x 1.8							
<b>SSG1.5-16</b> ● <b>SSG1.5-16 J10</b> ● <b>SSG1.5-16 J12**</b>		16	S1	10	20	24	27	15	14	29	—
S1K			10	4 x 1.8							
S1K			12	4 x 1.8							
<b>SSG1.5-17</b> ● <b>SSG1.5-17 J10</b> ● <b>SSG1.5-17 J12</b>		17	S1	10	21	25.5	28.5	15	14	29	—
S1K			10	4 x 1.8							
S1K			12	4 x 1.8							
<b>SSG1.5-18</b> ● <b>SSG1.5-18 J10</b> ● <b>SSG1.5-18 J12</b>		18	S1	10	22	27	30	15	14	29	—
S1K			10	4 x 1.8							
S1K			12	4 x 1.8							
<b>SSG1.5-19</b> ● <b>SSG1.5-19 J10</b> ● <b>SSG1.5-19 J12</b>		19	S1	10	23	28.5	31.5	15	14	29	—
S1K			10	4 x 1.8							
S1K			12	4 x 1.8							
<b>SSG1.5-20</b> ● <b>SSG1.5-20 J10</b> ● <b>SSG1.5-20 J12</b> ● <b>SSG1.5-20 J14</b>		20	S1	10	24	30	33	15	14	29	—
S1K			10	4 x 1.8							
S1K			12	4 x 1.8							
S1K			14	5 x 2.3							
<b>SSG1.5-21</b> ● <b>SSG1.5-21 J10</b> ● <b>SSG1.5-21 J12</b> ● <b>SSG1.5-21 J14</b> ● <b>SSG1.5-21 J15</b>		21	S1	10	25	31.5	34.5	15	14	29	—
S1K			10	4 x 1.8							
S1K			12	4 x 1.8							
S1K			14	5 x 2.3							
S1K			15	5 x 2.3							
<b>SSG1.5-22</b> ● <b>SSG1.5-22 J12</b> ● <b>SSG1.5-22 J14</b> ● <b>SSG1.5-22 J15</b>		22	S1	12	26	33	36	15	14	29	—
S1K	12		4 x 1.8								
S1K	14		5 x 2.3								
S1K	15		5 x 2.3								
<b>SSG1.5-23</b> ● <b>SSG1.5-23 J12</b> ● <b>SSG1.5-23 J14</b> ● <b>SSG1.5-23 J15</b> ● <b>SSG1.5-23 J16</b>	23	S1	12	27	34.5	37.5	15	14	29	—	
S1K		12	4 x 1.8								
S1K		14	5 x 2.3								
S1K		15	5 x 2.3								
S1K		16	5 x 2.3								
<b>SSG1.5-24</b> ● <b>SSG1.5-24 J12</b> ● <b>SSG1.5-24 J14</b> ● <b>SSG1.5-24 J15</b> ● <b>SSG1.5-24 J16</b>	24	S1	12	28	36	39	15	14	29	—	
S1K		12	4 x 1.8								
S1K		14	5 x 2.3								
S1K		15	5 x 2.3								
S1K		16	5 x 2.3								
<b>SSG1.5-25</b> ● <b>SSG1.5-25 J12</b> ● <b>SSG1.5-25 J14</b> ● <b>SSG1.5-25 J15</b> ● <b>SSG1.5-25 J16</b> ● <b>SSG1.5-25 J18</b>	25	S1	12	30	37.5	40.5	15	14	29	—	
S1K		12	4 x 1.8								
S1K		14	5 x 2.3								
S1K		15	5 x 2.3								
S1K		16	5 x 2.3								
S1K		18	6 x 2.8								
<b>SSG1.5-26</b> ● <b>SSG1.5-26 J12</b> ● <b>SSG1.5-26 J14</b> ● <b>SSG1.5-26 J15</b> ● <b>SSG1.5-26 J16</b> ● <b>SSG1.5-26 J18</b>	26	S1	12	32	39	42	15	14	29	—	
S1K		12	4 x 1.8								
S1K		14	5 x 2.3								
S1K		15	5 x 2.3								
S1K		16	5 x 2.3								
S1K		18	6 x 2.8								

- [Caution on Product Characteristics]
- The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
  - The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.
- [Caution on Secondary Operations]
- Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.
  - Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).



## Ground Spur Gears



Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—	11.1	3.73	1.13	0.38	0.08~0.16	0.048	<b>SSG1.5-14</b>
M4	7						0.046	● <b>SSG1.5-14 J10</b>
—	—	12.5	4.35	1.27	0.44	0.08~0.16	0.057	<b>SSG1.5-15</b>
M4	7						0.055	● <b>SSG1.5-15 J10**</b>
—	—	13.8	5.02	1.41	0.51	0.08~0.16	0.070	<b>SSG1.5-16</b>
M4	7						0.068	● <b>SSG1.5-16 J10</b>
M4	7						0.060	● <b>SSG1.5-16 J12**</b>
—	—	15.2	5.74	1.55	0.58	0.08~0.16	0.080	<b>SSG1.5-17</b>
M4	7						0.078	● <b>SSG1.5-17 J10</b>
M4	7						0.070	● <b>SSG1.5-17 J12</b>
—	—	16.6	6.51	1.69	0.66	0.08~0.16	0.091	<b>SSG1.5-18</b>
M4	7						0.089	● <b>SSG1.5-18 J10</b>
M4	7						0.081	● <b>SSG1.5-18 J12</b>
—	—	18.0	7.33	1.83	0.75	0.08~0.16	0.10	<b>SSG1.5-19</b>
M4	7						0.10	● <b>SSG1.5-19 J10</b>
M4	7						0.093	● <b>SSG1.5-19 J12</b>
—	—	19.4	8.20	1.98	0.84	0.08~0.16	0.12	<b>SSG1.5-20</b>
M4	7						0.11	● <b>SSG1.5-20 J10</b>
M4	7						0.10	● <b>SSG1.5-20 J12</b>
M4	7						0.095	● <b>SSG1.5-20 J14</b>
—	—	20.8	9.12	2.12	0.93	0.08~0.16	0.13	<b>SSG1.5-21</b>
M4	7						0.13	● <b>SSG1.5-21 J10</b>
M4	7						0.12	● <b>SSG1.5-21 J12</b>
M4	7						0.11	● <b>SSG1.5-21 J14</b>
M4	7						0.10	● <b>SSG1.5-21 J15</b>
—	—	18.6	8.41	1.89	0.86	0.08~0.16	0.13	<b>SSG1.5-22</b>
M4	7						0.13	● <b>SSG1.5-22 J12</b>
M4	7						0.12	● <b>SSG1.5-22 J14</b>
M4	7						0.12	● <b>SSG1.5-22 J15</b>
—	—	19.8	9.27	2.02	0.95	0.08~0.16	0.15	<b>SSG1.5-23</b>
M4	7						0.14	● <b>SSG1.5-23 J12</b>
M4	7						0.13	● <b>SSG1.5-23 J14</b>
M4	7						0.13	● <b>SSG1.5-23 J15</b>
M4	7						0.12	● <b>SSG1.5-23 J16</b>
—	—	21.0	10.2	2.14	1.04	0.08~0.16	0.16	<b>SSG1.5-24</b>
M4	7						0.16	● <b>SSG1.5-24 J12</b>
M4	7						0.15	● <b>SSG1.5-24 J14</b>
M4	7						0.14	● <b>SSG1.5-24 J15</b>
M4	7						0.14	● <b>SSG1.5-24 J16</b>
—	—	22.2	11.1	2.27	1.13	0.08~0.16	0.18	<b>SSG1.5-25</b>
M4	7						0.18	● <b>SSG1.5-25 J12</b>
M4	7						0.17	● <b>SSG1.5-25 J14</b>
M4	7						0.16	● <b>SSG1.5-25 J15</b>
M4	7						0.16	● <b>SSG1.5-25 J16</b>
M5	7						0.15	● <b>SSG1.5-25 J18</b>
—	—	23.5	12.1	2.39	1.23	0.08~0.16	0.20	<b>SSG1.5-26</b>
M4	7						0.20	● <b>SSG1.5-26 J12</b>
M4	7						0.19	● <b>SSG1.5-26 J14</b>
M4	7						0.19	● <b>SSG1.5-26 J15</b>
M4	7						0.18	● <b>SSG1.5-26 J16</b>
M5	7						0.17	● <b>SSG1.5-26 J18</b>

[Caution on J series]

① As available-on-request products, requires a lead-time for shipping within 3 working-days (excludes the day ordered), after placing an order.

Please allow additional shipping time to get to your local distributor.

② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.

③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.

④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "\*" are tap size).

⑤ Areas of products which have been re-worked will not be black oxide coated.

⑥ For products having a tapped hole, a set screw is included.

⑦ Products marked with "\*\*\*" have a small amount of material between the corner of the keyway and the tooth root. This mode of failure must be considered when selecting these gears. For details, please see our web site.

For updated information, please see KHK Web Catalog.

Spur Gears

Helical Gears

Internal Gears

Racks

CP Racks &amp; Pinions

Miter Gears

Bevel Gears

Screw Gears

Worm Gear Pair

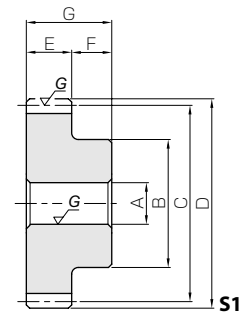
Bevel Gearboxes

Other Products



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

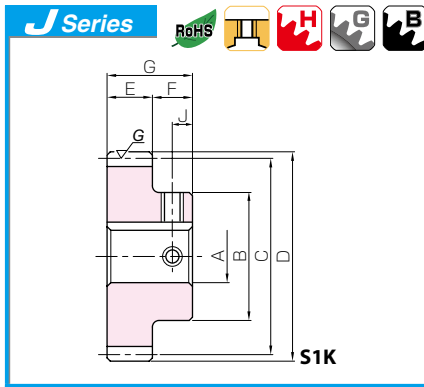
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- Spur Gears
- Helical Gears
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- CP Racks & Pinions
- Miter Gears
- Bevel Gears
- Screw Gears
- Worm Gear Pair
- Bevel Gearboxes
- Other Products

Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A <sub>H7</sub>	B	C	D	E	F	G	Width×Depth
SSG1.5-27 ● SSG1.5-27 J15 ● SSG1.5-27 J16 ● SSG1.5-27 J18 ● SSG1.5-27 J19 ● SSG1.5-27 J20	m1.5	27	S1	15	34	40.5	43.5	15	14	29	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
SSG1.5-28 ● SSG1.5-28 J15 ● SSG1.5-28 J16 ● SSG1.5-28 J18 ● SSG1.5-28 J19 ● SSG1.5-28 J20	m1.5	28	S1	15	36	42	45	15	14	29	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
SSG1.5-29 ● SSG1.5-29 J15 ● SSG1.5-29 J16 ● SSG1.5-29 J18 ● SSG1.5-29 J19 ● SSG1.5-29 J20 ● SSG1.5-29 J22	m1.5	29	S1	15	37	43.5	46.5	15	14	29	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	22							6 x 2.8
SSG1.5-30 ● SSG1.5-30 J15 ● SSG1.5-30 J16 ● SSG1.5-30 J18 ● SSG1.5-30 J19 ● SSG1.5-30 J20 ● SSG1.5-30 J22	m1.5	30	S1	15	38	45	48	15	14	29	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	22							6 x 2.8
SSG1.5-32 ● SSG1.5-32 J15 ● SSG1.5-32 J16 ● SSG1.5-32 J18 ● SSG1.5-32 J19 ● SSG1.5-32 J20 ● SSG1.5-32 J22	m1.5	32	S1	15	40	48	51	15	14	29	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	22							6 x 2.8
SSG1.5-34 ● SSG1.5-34 J15 ● SSG1.5-34 J16 ● SSG1.5-34 J18 ● SSG1.5-34 J19 ● SSG1.5-34 J20 ● SSG1.5-34 J22 ● SSG1.5-34 J25	m1.5	34	S1	15	42	51	54	15	14	29	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	25							8 x 3.3
SSG1.5-35 ● SSG1.5-35 J15 ● SSG1.5-35 J16 ● SSG1.5-35 J18 ● SSG1.5-35 J19 ● SSG1.5-35 J20 ● SSG1.5-35 J22 ● SSG1.5-35 J25	m1.5	35	S1	15	42	52.5	55.5	15	14	29	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	25							8 x 3.3

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## Ground Spur Gears



Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—						0.21	<b>SSG1.5-27</b>
M4	7	24.7	13.1	2.52	1.33	0.08~0.16	0.21	● <b>SSG1.5-27 J15</b>
M4	7						0.20	● <b>SSG1.5-27 J16</b>
M5	7						0.19	● <b>SSG1.5-27 J18</b>
M5	7						0.18	● <b>SSG1.5-27 J19</b>
M5	7						0.18	● <b>SSG1.5-27 J20</b>
—	—						0.23	<b>SSG1.5-28</b>
M4	7	26.0	14.1	2.65	1.44	0.08~0.16	0.23	● <b>SSG1.5-28 J15</b>
M4	7						0.23	● <b>SSG1.5-28 J16</b>
M5	7						0.21	● <b>SSG1.5-28 J18</b>
M5	7						0.21	● <b>SSG1.5-28 J19</b>
M5	7						0.20	● <b>SSG1.5-28 J20</b>
—	—						0.25	<b>SSG1.5-29</b>
M4	7	27.3	15.2	2.78	1.55	0.08~0.16	0.25	● <b>SSG1.5-29 J15</b>
M4	7						0.24	● <b>SSG1.5-29 J16</b>
M5	7						0.23	● <b>SSG1.5-29 J18</b>
M5	7						0.22	● <b>SSG1.5-29 J19</b>
M5	7						0.22	● <b>SSG1.5-29 J20</b>
M5	7						0.20	● <b>SSG1.5-29 J22</b>
—	—						0.27	<b>SSG1.5-30</b>
M4	7	28.5	16.3	2.91	1.66	0.08~0.16	0.27	● <b>SSG1.5-30 J15</b>
M4	7						0.26	● <b>SSG1.5-30 J16</b>
M5	7						0.25	● <b>SSG1.5-30 J18</b>
M5	7						0.24	● <b>SSG1.5-30 J19</b>
M5	7						0.24	● <b>SSG1.5-30 J20</b>
M5	7						0.22	● <b>SSG1.5-30 J22</b>
—	—						0.31	<b>SSG1.5-32</b>
M4	7	31.1	18.6	3.17	1.90	0.08~0.16	0.31	● <b>SSG1.5-32 J15</b>
M4	7						0.30	● <b>SSG1.5-32 J16</b>
M5	7						0.29	● <b>SSG1.5-32 J18</b>
M5	7						0.28	● <b>SSG1.5-32 J19</b>
M5	7						0.27	● <b>SSG1.5-32 J20</b>
M5	7						0.26	● <b>SSG1.5-32 J22</b>
—	—						0.35	<b>SSG1.5-34</b>
M4	7	33.6	21.1	3.43	2.15	0.10~0.18	0.35	● <b>SSG1.5-34 J15</b>
M4	7						0.34	● <b>SSG1.5-34 J16</b>
M5	7						0.33	● <b>SSG1.5-34 J18</b>
M5	7						0.32	● <b>SSG1.5-34 J19</b>
M5	7						0.32	● <b>SSG1.5-34 J20</b>
M5	7						0.30	● <b>SSG1.5-34 J22</b>
M6	7						0.27	● <b>SSG1.5-34 J25</b>
—	—						0.37	<b>SSG1.5-35</b>
M4	7	34.9	22.4	3.56	2.29	0.10~0.18	0.36	● <b>SSG1.5-35 J15</b>
M4	7						0.36	● <b>SSG1.5-35 J16</b>
M5	7						0.34	● <b>SSG1.5-35 J18</b>
M5	7						0.34	● <b>SSG1.5-35 J19</b>
M5	7						0.33	● <b>SSG1.5-35 J20</b>
M5	7						0.31	● <b>SSG1.5-35 J22</b>
M6	7						0.29	● <b>SSG1.5-35 J25</b>

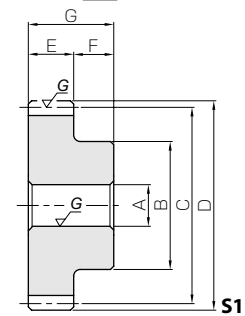
**[Caution on J series]**

- ① As available-on-request products, requires a lead-time for shipping within 3 working-days (excludes the day ordered), after placing an order.  
Please allow additional shipping time to get to your local distributor.
- ② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
- ③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.
- ④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "\*" are tap size).
- ⑤ Areas of products which have been re-worked will not be black oxide coated.
- ⑥ For products having a tapped hole, a set screw is included.



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.



- Spur Gears
- Helical Gears
- Internal Gears
- Racks
- CP Racks & Pinions
- Miter Gears
- Bevel Gears
- Screw Gears
- Worm Gear Pair
- Bevel Gearboxes
- Other Products

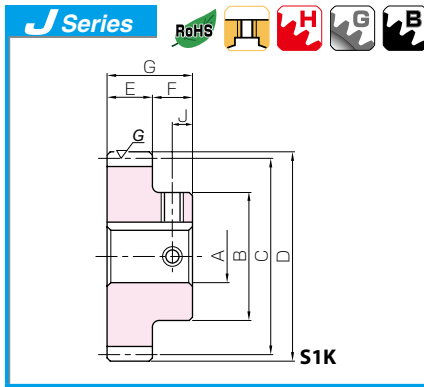
Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A <sub>H7</sub>	B	C	D	E	F	G	Width×Depth
SSG1.5-36 ●SSG1.5-36 J15 ●SSG1.5-36 J16 ●SSG1.5-36 J18 ●SSG1.5-36 J19 ●SSG1.5-36 J20 ●SSG1.5-36 J22 ●SSG1.5-36 J25	m1.5	36	S1	15	45	54	57	15	14	29	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
S1K	25	8 x 3.3									
SSG1.5-38 ●SSG1.5-38 J15 ●SSG1.5-38 J16 ●SSG1.5-38 J18 ●SSG1.5-38 J19 ●SSG1.5-38 J20 ●SSG1.5-38 J22 ●SSG1.5-38 J25	m1.5	38	S1	15	45	57	60	15	14	29	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
S1K	25	8 x 3.3									
SSG1.5-40 ●SSG1.5-40 J15 ●SSG1.5-40 J16 ●SSG1.5-40 J18 ●SSG1.5-40 J19 ●SSG1.5-40 J20 ●SSG1.5-40 J22 ●SSG1.5-40 J25 ●SSG1.5-40 J28 ●SSG1.5-40 J30	m1.5	40	S1	15	50	60	63	15	14	29	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
S1K	25	8 x 3.3									
S1K	28	8 x 3.3									
S1K	30	8 x 3.3									
SSG1.5-42 ●SSG1.5-42 J15 ●SSG1.5-42 J16 ●SSG1.5-42 J18 ●SSG1.5-42 J19 ●SSG1.5-42 J20 ●SSG1.5-42 J22 ●SSG1.5-42 J25 ●SSG1.5-42 J28 ●SSG1.5-42 J30	m1.5	42	S1	15	50	63	66	15	14	29	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
S1K	25	8 x 3.3									
S1K	28	8 x 3.3									
S1K	30	8 x 3.3									
SSG1.5-44 ●SSG1.5-44 J15 ●SSG1.5-44 J16 ●SSG1.5-44 J18 ●SSG1.5-44 J19 ●SSG1.5-44 J20 ●SSG1.5-44 J22 ●SSG1.5-44 J25 ●SSG1.5-44 J28 ●SSG1.5-44 J30	m1.5	44	S1	15	50	66	69	15	14	29	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
S1K	25	8 x 3.3									
S1K	28	8 x 3.3									
S1K	30	8 x 3.3									
SSG1.5-45 ●SSG1.5-45 J18 ●SSG1.5-45 J19 ●SSG1.5-45 J20 ●SSG1.5-45 J22 ●SSG1.5-45 J25 ●SSG1.5-45 J28 ●SSG1.5-45 J30	m1.5	45	S1	18	50	67.5	70.5	15	14	29	—
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
S1K	30	8 x 3.3									

[Caution on Product Characteristics]

- ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
- ② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

[Caution on Secondary Operations]

- ① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.
- ② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).



## Ground Spur Gears



Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—	36.2	23.8	3.70	2.43	0.10~0.18	0.40	SSG1.5-36
M4*	7							●SSG1.5-36 J15
M4*	7							●SSG1.5-36 J16
M5	7							●SSG1.5-36 J18
M5	7							●SSG1.5-36 J19
M5	7							●SSG1.5-36 J20
M6	7							●SSG1.5-36 J22
M6	7	●SSG1.5-36 J25						
—	—	38.8	26.6	3.96	2.71	0.10~0.18	0.44	SSG1.5-38
M4*	7							●SSG1.5-38 J15
M4*	7							●SSG1.5-38 J16
M5	7							●SSG1.5-38 J18
M5	7							●SSG1.5-38 J19
M5	7							●SSG1.5-38 J20
M6	7							●SSG1.5-38 J22
M6	7	●SSG1.5-38 J25						
—	—	41.5	29.6	4.23	3.02	0.10~0.18	0.51	SSG1.5-40
M4*	7							●SSG1.5-40 J15
M4*	7							●SSG1.5-40 J16
M5	7							●SSG1.5-40 J18
M5	7							●SSG1.5-40 J19
M5	7							●SSG1.5-40 J20
M6	7							●SSG1.5-40 J22
M6	7	●SSG1.5-40 J25						
M6	7	●SSG1.5-40 J28						
M6	7	●SSG1.5-40 J30						
—	—	44.1	32.8	4.50	3.35	0.10~0.18	0.54	SSG1.5-42
M4*	7							●SSG1.5-42 J15
M4*	7							●SSG1.5-42 J16
M5	7							●SSG1.5-42 J18
M5	7							●SSG1.5-42 J19
M5	7							●SSG1.5-42 J20
M6	7							●SSG1.5-42 J22
M6	7	●SSG1.5-42 J25						
M6	7	●SSG1.5-42 J28						
M6	7	●SSG1.5-42 J30						
—	—	46.7	36.2	4.77	3.69	0.10~0.18	0.58	SSG1.5-44
M4*	7							●SSG1.5-44 J15
M4*	7							●SSG1.5-44 J16
M5	7							●SSG1.5-44 J18
M5	7							●SSG1.5-44 J19
M5	7							●SSG1.5-44 J20
M6	7							●SSG1.5-44 J22
M6	7	●SSG1.5-44 J25						
M6	7	●SSG1.5-44 J28						
M6	7	●SSG1.5-44 J30						
—	—	48.1	37.9	4.90	3.86	0.10~0.18	0.58	SSG1.5-45
M5	7							●SSG1.5-45 J18
M5	7							●SSG1.5-45 J19
M5	7							●SSG1.5-45 J20
M6	7							●SSG1.5-45 J22
M6	7							●SSG1.5-45 J25
M6	7							●SSG1.5-45 J28
M6	7	●SSG1.5-45 J30						

## [Caution on J series]

① As available-on-request products, requires a lead-time for shipping within 3 working-days (excludes the day ordered), after placing an order.

Please allow additional shipping time to get to your local distributor.

② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.

③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.

④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "\*" are tap size).

⑤ Areas of products which have been re-worked will not be black oxide coated.

⑥ For products having a tapped hole, a set screw is included.

For updated information, please see KHK Web Catalog.

Spur Gears

Helical Gears

Internal Gears

Racks

CP Racks &amp; Pinions

Miter Gears

Bevel Gears

Screw Gears

Worm Gear Pair

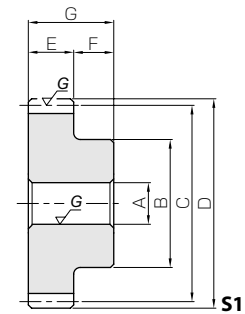
Bevel Gearboxes

Other Products



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.

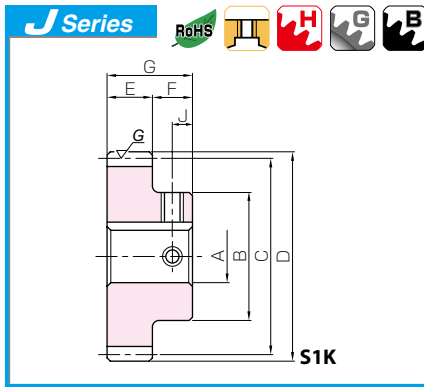


- Spur Gears
- Helical Gears
- Internal Gears
- Racks
- CP Racks & Pinions
- Miter Gears
- Bevel Gears
- Screw Gears
- Worm Gear Pair
- Bevel Gearboxes
- Other Products

Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A <sub>H7</sub>	B	C	D	E	F	G	Width×Depth
SSG1.5-48 ●SSG1.5-48 J18 ●SSG1.5-48 J19 ●SSG1.5-48 J20 ●SSG1.5-48 J22 ●SSG1.5-48 J25 ●SSG1.5-48 J28 ●SSG1.5-48 J30	m1.5	48	S1	18	50	72	75	15	14	29	—
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
S1K	30	8 x 3.3									
SSG1.5-50 ●SSG1.5-50 J18 ●SSG1.5-50 J19 ●SSG1.5-50 J20 ●SSG1.5-50 J22 ●SSG1.5-50 J25 ●SSG1.5-50 J28 ●SSG1.5-50 J30 ●SSG1.5-50 J32 ●SSG1.5-50 J35	m1.5	50	S1	18	60	75	78	15	14	29	—
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
S1K	30	8 x 3.3									
S1K	32	10 x 3.3									
S1K	35	10 x 3.3									
SSG1.5-55 ●SSG1.5-55 J18 ●SSG1.5-55 J19 ●SSG1.5-55 J20 ●SSG1.5-55 J22 ●SSG1.5-55 J25 ●SSG1.5-55 J28 ●SSG1.5-55 J30 ●SSG1.5-55 J32 ●SSG1.5-55 J35	m1.5	55	S1	18	60	82.5	85.5	15	14	29	—
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
S1K	30	8 x 3.3									
S1K	32	10 x 3.3									
S1K	35	10 x 3.3									
SSG1.5-56 ●SSG1.5-56 J18 ●SSG1.5-56 J19 ●SSG1.5-56 J20 ●SSG1.5-56 J22 ●SSG1.5-56 J25 ●SSG1.5-56 J28 ●SSG1.5-56 J30 ●SSG1.5-56 J32 ●SSG1.5-56 J35	m1.5	56	S1	18	60	84	87	15	14	29	—
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
S1K	30	8 x 3.3									
S1K	32	10 x 3.3									
S1K	35	10 x 3.3									
SSG1.5-60 ●SSG1.5-60 J20 ●SSG1.5-60 J22 ●SSG1.5-60 J25 ●SSG1.5-60 J28 ●SSG1.5-60 J30 ●SSG1.5-60 J32 ●SSG1.5-60 J35	m1.5	60	S1	20	60	90	93	15	14	29	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
S1K	35	10 x 3.3									

- [Caution on Product Characteristics] ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.  
② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

- [Caution on Secondary Operations] ① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.  
② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).



## Ground Spur Gears



Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—	52.0	43.4	5.31	4.42	0.10~0.18	0.64 0.63 0.62 0.62 0.60 0.57 0.55 0.53	SSG1.5-48
M5	7							●SSG1.5-48 J18
M5	7							●SSG1.5-48 J19
M5	7							●SSG1.5-48 J20
M5	7							●SSG1.5-48 J22
M6	7							●SSG1.5-48 J25
M6	7							●SSG1.5-48 J28
M6	7	●SSG1.5-48 J30						
—	—	54.7	47.2	5.58	4.82	0.10~0.18	0.77 0.76 0.76 0.75 0.73 0.71 0.68 0.66 0.63 0.60	SSG1.5-50
M5*	7							●SSG1.5-50 J18
M5*	7							●SSG1.5-50 J19
M5*	7							●SSG1.5-50 J20
M5*	7							●SSG1.5-50 J22
M6	7							●SSG1.5-50 J25
M6	7							●SSG1.5-50 J28
M6	7							●SSG1.5-50 J30
M8	7							●SSG1.5-50 J32
M8	7	●SSG1.5-50 J35						
—	—	61.4	57.7	6.26	5.88	0.10~0.18	0.88 0.87 0.86 0.86 0.84 0.82 0.79 0.77 0.74 0.71	SSG1.5-55
M5*	7							●SSG1.5-55 J18
M5*	7							●SSG1.5-55 J19
M5*	7							●SSG1.5-55 J20
M5*	7							●SSG1.5-55 J22
M6	7							●SSG1.5-55 J25
M6	7							●SSG1.5-55 J28
M6	7							●SSG1.5-55 J30
M8	7							●SSG1.5-55 J32
M8	7	●SSG1.5-55 J35						
—	—	62.8	59.9	6.40	6.11	0.10~0.18	0.91 0.89 0.89 0.88 0.87 0.84 0.81 0.79 0.77 0.73	SSG1.5-56
M5*	7							●SSG1.5-56 J18
M5*	7							●SSG1.5-56 J19
M5*	7							●SSG1.5-56 J20
M5*	7							●SSG1.5-56 J22
M6	7							●SSG1.5-56 J25
M6	7							●SSG1.5-56 J28
M6	7							●SSG1.5-56 J30
M8	7							●SSG1.5-56 J32
M8	7	●SSG1.5-56 J35						
—	—	68.1	69.2	6.95	7.06	0.10~0.18	0.99 0.98 0.96 0.94 0.91 0.89 0.86 0.83	SSG1.5-60
M5*	7							●SSG1.5-60 J20
M5*	7							●SSG1.5-60 J22
M6	7							●SSG1.5-60 J25
M6	7							●SSG1.5-60 J28
M6	7							●SSG1.5-60 J30
M8	7							●SSG1.5-60 J32
M8	7							●SSG1.5-60 J35

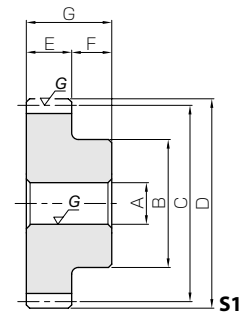
**[Caution on J series]**

- ① As available-on-request products, requires a lead-time for shipping within 3 working-days (excludes the day ordered), after placing an order. Please allow additional shipping time to get to your local distributor.
- ② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
- ③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.
- ④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "\*" are tap size).
- ⑤ Areas of products which have been re-worked will not be black oxide coated.
- ⑥ For products having a tapped hole, a set screw is included.



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.



- Spur Gears
- Helical Gears
- Internal Gears
- Racks
- CP Racks & Pinions
- Miter Gears
- Bevel Gears
- Screw Gears
- Worm Gear Pair
- Bevel Gearboxes
- Other Products

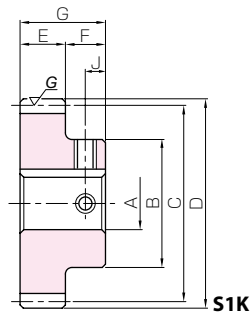
Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A <sub>H7</sub>	B	C	D	E	F	G	Width×Depth
SSG1.5-64 ●SSG1.5-64 J20 ●SSG1.5-64 J22 ●SSG1.5-64 J25 ●SSG1.5-64 J28 ●SSG1.5-64 J30 ●SSG1.5-64 J32 ●SSG1.5-64 J35	m1.5	64	S1	20	60	96	99	15	14	29	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
S1K	35	10 x 3.3									
SSG1.5-70 ●SSG1.5-70 J20 ●SSG1.5-70 J22 ●SSG1.5-70 J25 ●SSG1.5-70 J28 ●SSG1.5-70 J30 ●SSG1.5-70 J32 ●SSG1.5-70 J35	m1.5	70	S1	20	60	105	108	15	14	29	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
S1K	35	10 x 3.3									
SSG1.5-75 ●SSG1.5-75 J20 ●SSG1.5-75 J22 ●SSG1.5-75 J25 ●SSG1.5-75 J28 ●SSG1.5-75 J30 ●SSG1.5-75 J32 ●SSG1.5-75 J35	m1.5	75	S1	20	60	112.5	115.5	15	14	29	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
S1K	35	10 x 3.3									
SSG1.5-80 ●SSG1.5-80 J20 ●SSG1.5-80 J22 ●SSG1.5-80 J25 ●SSG1.5-80 J28 ●SSG1.5-80 J30 ●SSG1.5-80 J32 ●SSG1.5-80 J35 ●SSG1.5-80 J40	m1.5	80	S1	20	70	120	123	15	14	29	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
S1K	35	10 x 3.3									
S1K	40	12 x 3.3									
SSG1.5-90 ●SSG1.5-90 J20 ●SSG1.5-90 J22 ●SSG1.5-90 J25 ●SSG1.5-90 J28 ●SSG1.5-90 J30 ●SSG1.5-90 J32 ●SSG1.5-90 J35 ●SSG1.5-90 J40	m1.5	90	S1	20	70	135	138	15	14	29	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
S1K	35	10 x 3.3									
S1K	40	12 x 3.3									
SSG1.5-100 ●SSG1.5-100 J20 ●SSG1.5-100 J22 ●SSG1.5-100 J25 ●SSG1.5-100 J28 ●SSG1.5-100 J30 ●SSG1.5-100 J32 ●SSG1.5-100 J35 ●SSG1.5-100 J40	m1.5	100	S1	20	70	150	153	15	14	29	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
S1K	35	10 x 3.3									
S1K	40	12 x 3.3									

- [Caution on Product Characteristics]
- The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
  - The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.
- [Caution on Secondary Operations]
- Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.
  - Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).

J series



## Ground Spur Gears



Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—						1.09	<b>SSG1.5-64</b>
M5*	7						1.08	● <b>SSG1.5-64 J20</b>
M5*	7						1.07	● <b>SSG1.5-64 J22</b>
M6	7	67.9	73.2	6.92	7.46	0.10~0.18	1.04	● <b>SSG1.5-64 J25</b>
M6	7						1.01	● <b>SSG1.5-64 J28</b>
M6	7						0.99	● <b>SSG1.5-64 J30</b>
M8	7						0.97	● <b>SSG1.5-64 J32</b>
M8	7						0.93	● <b>SSG1.5-64 J35</b>
—	—						1.26	<b>SSG1.5-70</b>
M5*	7						1.25	● <b>SSG1.5-70 J20</b>
M5*	7						1.23	● <b>SSG1.5-70 J22</b>
M6	7	75.4	88.4	7.69	9.01	0.12~0.20	1.21	● <b>SSG1.5-70 J25</b>
M6	7						1.18	● <b>SSG1.5-70 J28</b>
M6	7						1.16	● <b>SSG1.5-70 J30</b>
M8	7						1.13	● <b>SSG1.5-70 J32</b>
M8	7						1.10	● <b>SSG1.5-70 J35</b>
—	—						1.41	<b>SSG1.5-75</b>
M5*	7						1.40	● <b>SSG1.5-75 J20</b>
M5*	7						1.38	● <b>SSG1.5-75 J22</b>
M6	7	81.7	102	8.33	10.4	0.12~0.20	1.36	● <b>SSG1.5-75 J25</b>
M6	7						1.33	● <b>SSG1.5-75 J28</b>
M6	7						1.31	● <b>SSG1.5-75 J30</b>
M8	7						1.28	● <b>SSG1.5-75 J32</b>
M8	7						1.25	● <b>SSG1.5-75 J35</b>
—	—						1.68	<b>SSG1.5-80</b>
M5*	7						1.67	● <b>SSG1.5-80 J20</b>
M5*	7						1.65	● <b>SSG1.5-80 J22</b>
M6*	7	88.0	117	8.97	12.0	0.12~0.20	1.63	● <b>SSG1.5-80 J25</b>
M6*	7						1.60	● <b>SSG1.5-80 J28</b>
M6	7						1.58	● <b>SSG1.5-80 J30</b>
M8	7						1.55	● <b>SSG1.5-80 J32</b>
M8	7						1.52	● <b>SSG1.5-80 J35</b>
M8	7						1.45	● <b>SSG1.5-80 J40</b>
—	—						2.04	<b>SSG1.5-90</b>
M5*	7						2.02	● <b>SSG1.5-90 J20</b>
M5*	7						2.01	● <b>SSG1.5-90 J22</b>
M6*	7	101	150	10.3	15.3	0.12~0.20	1.98	● <b>SSG1.5-90 J25</b>
M6*	7						1.95	● <b>SSG1.5-90 J28</b>
M6	7						1.94	● <b>SSG1.5-90 J30</b>
M8	7						1.91	● <b>SSG1.5-90 J32</b>
M8	7						1.87	● <b>SSG1.5-90 J35</b>
M8	7						1.81	● <b>SSG1.5-90 J40</b>
—	—						2.43	<b>SSG1.5-100</b>
M5*	7						2.42	● <b>SSG1.5-100 J20</b>
M5*	7						2.40	● <b>SSG1.5-100 J22</b>
M6*	7	113	187	11.6	19.1	0.12~0.20	2.38	● <b>SSG1.5-100 J25</b>
M6*	7						2.35	● <b>SSG1.5-100 J28</b>
M6	7						2.33	● <b>SSG1.5-100 J30</b>
M8	7						2.30	● <b>SSG1.5-100 J32</b>
M8	7						2.27	● <b>SSG1.5-100 J35</b>
M8	7						2.20	● <b>SSG1.5-100 J40</b>

**[Caution on J series]** ① As available-on-request products, requires a lead-time for shipping within 3 working-days (excludes the day ordered), after placing an order.

Please allow additional shipping time to get to your local distributor.

② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.

③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.

④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "\*" are tap size).

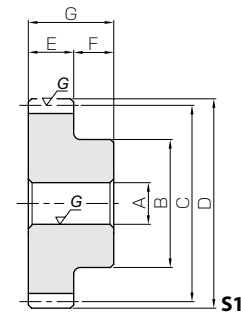
⑤ Areas of products which have been re-worked will not be black oxide coated.

⑥ For products having a tapped hole, a set screw is included.



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.



- Spur Gears
- Helical Gears
- Internal Gears
- Racks
- CP Racks & Pinions
- Miter Gears
- Bevel Gears
- Screw Gears
- Worm Gear Pair
- Bevel Gearboxes
- Other Products

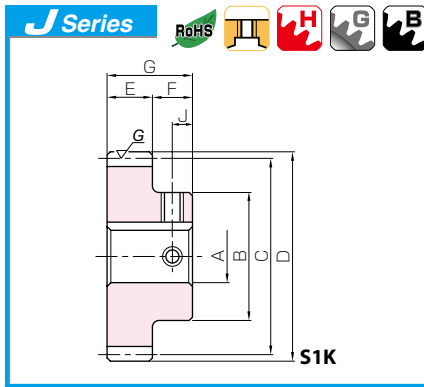
Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				AH7	B	C	D	E	F	G	Width×Depth
SSG2-14 ● SSG2-14 J12**	m2	14	S1	12	22	28	32	20	16	36	—
			S1K	12							4 x 1.8
SSG2-15 ● SSG2-15 J12 ● SSG2-15 J14**		15	S1	12	24	30	34	20	16	36	—
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
SSG2-16 ● SSG2-16 J12 ● SSG2-16 J14 ● SSG2-16 J15**		16	S1	12	26	32	36	20	16	36	—
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
SSG2-17 ● SSG2-17 J12 ● SSG2-17 J14 ● SSG2-17 J15 ● SSG2-17 J16		17	S1	12	28	34	38	20	16	36	—
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
			S1K	15							5 x 2.3
SSG2-18 ● SSG2-18 J12 ● SSG2-18 J14 ● SSG2-18 J15 ● SSG2-18 J16 ● SSG2-18 J18**		18	S1	12	30	36	40	20	16	36	—
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
			S1K	15							5 x 2.3
SSG2-19 ● SSG2-19 J12 ● SSG2-19 J14 ● SSG2-19 J15 ● SSG2-19 J16 ● SSG2-19 J18		19	S1	12	31	38	42	20	16	36	—
			S1K	12							4 x 1.8
			S1K	14							5 x 2.3
			S1K	15							5 x 2.3
SSG2-20 ● SSG2-20 J15 ● SSG2-20 J16 ● SSG2-20 J18		20	S1	15	32	40	44	20	16	36	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
SSG2-21 ● SSG2-21 J15 ● SSG2-21 J16 ● SSG2-21 J18 ● SSG2-21 J19 ● SSG2-21 J20	21	S1	15	34	42	46	20	16	36	—	
		S1K	15							5 x 2.3	
		S1K	16							5 x 2.3	
		S1K	18							6 x 2.8	
		S1K	19							6 x 2.8	
		S1K	20							6 x 2.8	
SSG2-22 ● SSG2-22 J15 ● SSG2-22 J16 ● SSG2-22 J18 ● SSG2-22 J19 ● SSG2-22 J20	22	S1	15	36	44	48	20	16	36	—	
		S1K	15							5 x 2.3	
		S1K	16							5 x 2.3	
		S1K	18							6 x 2.8	
		S1K	19							6 x 2.8	
		S1K	20							6 x 2.8	
SSG2-23 ● SSG2-23 J15 ● SSG2-23 J16 ● SSG2-23 J18 ● SSG2-23 J19 ● SSG2-23 J20 ● SSG2-23 J22	23	S1	15	37	46	50	20	16	36	—	
		S1K	15							5 x 2.3	
		S1K	16							5 x 2.3	
		S1K	18							6 x 2.8	
		S1K	19							6 x 2.8	
		S1K	20							6 x 2.8	

[Caution on Product Characteristics]

- ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
- ② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

[Caution on Secondary Operations]

- ① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.
- ② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).



## Ground Spur Gears



Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—	26.3	9.01	2.69	0.92	0.10~0.20	0.11	<b>SSG2-14</b>
M4	8							● <b>SSG2-14 J12**</b>
—	—	29.6	10.5	3.01	1.07	0.10~0.20	0.14	<b>SSG2-15</b>
M4	8							● <b>SSG2-15 J12</b>
M4	8							● <b>SSG2-15 J14**</b>
—	—	27.3	10.1	2.78	1.03	0.10~0.20	0.16	<b>SSG2-16</b>
M4	8							● <b>SSG2-16 J12</b>
M4	8							● <b>SSG2-16 J14</b>
M4	8							● <b>SSG2-16 J15**</b>
—	—	30.0	11.6	3.06	1.18	0.10~0.20	0.19	<b>SSG2-17</b>
M4	8							● <b>SSG2-17 J12</b>
M4	8							● <b>SSG2-17 J14</b>
M4	8							● <b>SSG2-17 J15</b>
M4	8							● <b>SSG2-17 J16</b>
—	—	32.7	13.1	3.34	1.34	0.10~0.20	0.22	<b>SSG2-18</b>
M4	8							● <b>SSG2-18 J12</b>
M4	8							● <b>SSG2-18 J14</b>
M4	8							● <b>SSG2-18 J15</b>
M4	8							● <b>SSG2-18 J16</b>
M5	8							● <b>SSG2-18 J18**</b>
—	—	35.5	14.8	3.62	1.51	0.10~0.20	0.24	<b>SSG2-19</b>
M4	8							● <b>SSG2-19 J12</b>
M4	8							● <b>SSG2-19 J14</b>
M4	8							● <b>SSG2-19 J15</b>
M4	8							● <b>SSG2-19 J16</b>
M5	8							● <b>SSG2-19 J18</b>
—	—	38.3	16.6	3.91	1.69	0.10~0.20	0.25	<b>SSG2-20</b>
M4	8							● <b>SSG2-20 J15</b>
M4	8							● <b>SSG2-20 J16</b>
M5	8							● <b>SSG2-20 J18</b>
—	—	41.1	18.4	4.20	1.88	0.10~0.20	0.28	<b>SSG2-21</b>
M4	8							● <b>SSG2-21 J15</b>
M4	8							● <b>SSG2-21 J16</b>
M5	8							● <b>SSG2-21 J18</b>
M5	8							● <b>SSG2-21 J19</b>
M5	8							● <b>SSG2-21 J20</b>
—	—	44.0	20.4	4.49	2.08	0.10~0.20	0.32	<b>SSG2-22</b>
M4	8							● <b>SSG2-22 J15</b>
M4	8							● <b>SSG2-22 J16</b>
M5	8							● <b>SSG2-22 J18</b>
M5	8							● <b>SSG2-22 J19</b>
M5	8							● <b>SSG2-22 J20</b>
—	—	46.9	22.5	4.78	2.30	0.10~0.20	0.35	<b>SSG2-23</b>
M4	8							● <b>SSG2-23 J15</b>
M4	8							● <b>SSG2-23 J16</b>
M5	8							● <b>SSG2-23 J18</b>
M5	8							● <b>SSG2-23 J19</b>
M5	8							● <b>SSG2-23 J20</b>
M5	8							● <b>SSG2-23 J22</b>

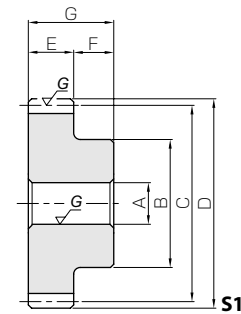
**[Caution on J series]**

- ① As available-on-request products, requires a lead-time for shipping within 3 working-days (excludes the day ordered), after placing an order.  
Please allow additional shipping time to get to your local distributor.
- ② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
- ③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.
- ④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "\*" are tap size).
- ⑤ Areas of products which have been re-worked will not be black oxide coated.
- ⑥ For products having a tapped hole, a set screw is included.
- ⑦ Products marked with "\*\*\*" have a small amount of material between the corner of the keyway and the tooth root. This mode of failure must be considered when selecting these gears. For details, please see our web site.



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.

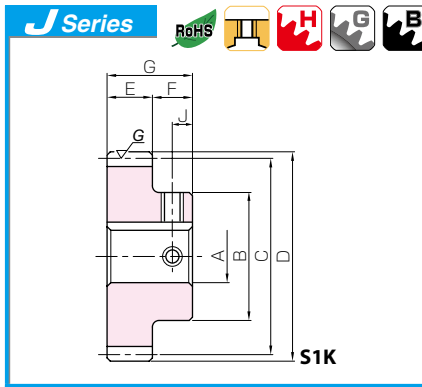


- Spur Gears
- Helical Gears
- Internal Gears
- Racks
- CP Racks & Pinions
- Miter Gears
- Bevel Gears
- Screw Gears
- Worm Gear Pair
- Bevel Gearboxes
- Other Products

Catalog No. ●: J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				AH7	B	C	D	E	F	G	Width×Depth
<b>SSG2-24</b> ●SSG2-24 J15 ●SSG2-24 J16 ●SSG2-24 J18 ●SSG2-24 J19 ●SSG2-24 J20 ●SSG2-24 J22	m2	24	S1	15	38	48	52	20	16	36	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
S1K	22	6 x 2.8									
<b>SSG2-25</b> ●SSG2-25 J15 ●SSG2-25 J16 ●SSG2-25 J18 ●SSG2-25 J19 ●SSG2-25 J20 ●SSG2-25 J22	m2	25	S1	15	40	50	54	20	16	36	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
S1K	22	6 x 2.8									
<b>SSG2-26</b> ●SSG2-26 J15 ●SSG2-26 J16 ●SSG2-26 J18 ●SSG2-26 J19 ●SSG2-26 J20 ●SSG2-26 J22 ●SSG2-26 J25	m2	26	S1	15	42	52	56	20	16	36	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
S1K	22	6 x 2.8									
S1K	25	8 x 3.3									
<b>SSG2-27</b> ●SSG2-27 J15 ●SSG2-27 J16 ●SSG2-27 J18 ●SSG2-27 J19 ●SSG2-27 J20 ●SSG2-27 J22 ●SSG2-27 J25	m2	27	S1	15	44	54	58	20	16	36	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
S1K	22	6 x 2.8									
S1K	25	8 x 3.3									
<b>SSG2-28</b> ●SSG2-28 J15 ●SSG2-28 J16 ●SSG2-28 J18 ●SSG2-28 J19 ●SSG2-28 J20 ●SSG2-28 J22 ●SSG2-28 J25	m2	28	S1	15	45	56	60	20	16	36	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
S1K	22	6 x 2.8									
S1K	25	8 x 3.3									
<b>SSG2-29</b> ●SSG2-29 J15 ●SSG2-29 J16 ●SSG2-29 J18 ●SSG2-29 J19 ●SSG2-29 J20 ●SSG2-29 J22 ●SSG2-29 J25 ●SSG2-29 J28	m2	29	S1	15	48	58	62	20	16	36	—
			S1K	15							5 x 2.3
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
S1K	22	6 x 2.8									
S1K	25	8 x 3.3									
S1K	28	8 x 3.3									
<b>SSG2-30</b> ●SSG2-30 J18 ●SSG2-30 J19 ●SSG2-30 J20 ●SSG2-30 J22 ●SSG2-30 J25 ●SSG2-30 J28 ●SSG2-30 J30	m2	30	S1	18	50	60	64	20	16	36	—
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
S1K	28	8 x 3.3									
S1K	30	8 x 3.3									

[Caution on Product Characteristics] ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.  
② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

[Caution on Secondary Operations] ① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.  
② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).



## Ground Spur Gears



Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—						0.38	<b>SSG2-24</b>
M4	8						0.37	● <b>SSG2-24 J15</b>
M4	8						0.37	● <b>SSG2-24 J16</b>
M5	8	49.8	24.7	5.08	2.52	0.10~0.20	0.35	● <b>SSG2-24 J18</b>
M5	8						0.34	● <b>SSG2-24 J19</b>
M5	8						0.33	● <b>SSG2-24 J20</b>
M5	8						0.31	● <b>SSG2-24 J22</b>
—	—						0.42	<b>SSG2-25</b>
M4	8						0.41	● <b>SSG2-25 J15</b>
M4	8						0.40	● <b>SSG2-25 J16</b>
M5	8	52.7	27.0	5.38	2.75	0.10~0.20	0.39	● <b>SSG2-25 J18</b>
M5	8						0.38	● <b>SSG2-25 J19</b>
M5	8						0.37	● <b>SSG2-25 J20</b>
M5	8						0.35	● <b>SSG2-25 J22</b>
—	—						0.46	<b>SSG2-26</b>
M4	8						0.45	● <b>SSG2-26 J15</b>
M4	8						0.45	● <b>SSG2-26 J16</b>
M5	8	55.7	29.3	5.68	2.99	0.12~0.22	0.43	● <b>SSG2-26 J18</b>
M5	8						0.42	● <b>SSG2-26 J19</b>
M5	8						0.41	● <b>SSG2-26 J20</b>
M5	8						0.39	● <b>SSG2-26 J22</b>
M6	8						0.36	● <b>SSG2-26 J25</b>
—	—						0.50	<b>SSG2-27</b>
M4*	8						0.49	● <b>SSG2-27 J15</b>
M4	8						0.49	● <b>SSG2-27 J16</b>
M5	8	58.6	31.7	5.98	3.23	0.12~0.22	0.47	● <b>SSG2-27 J18</b>
M5	8						0.46	● <b>SSG2-27 J19</b>
M5	8						0.45	● <b>SSG2-27 J20</b>
M5	8						0.44	● <b>SSG2-27 J22</b>
M6	8						0.40	● <b>SSG2-27 J25</b>
—	—						0.54	<b>SSG2-28</b>
M4*	8						0.53	● <b>SSG2-28 J15</b>
M4*	8						0.52	● <b>SSG2-28 J16</b>
M5	8	61.6	34.2	6.28	3.49	0.12~0.22	0.51	● <b>SSG2-28 J18</b>
M5	8						0.50	● <b>SSG2-28 J19</b>
M5	8						0.49	● <b>SSG2-28 J20</b>
M5	8						0.47	● <b>SSG2-28 J22</b>
M6	8						0.44	● <b>SSG2-28 J25</b>
—	—						0.59	<b>SSG2-29</b>
M4*	8						0.58	● <b>SSG2-29 J15</b>
M4*	8						0.58	● <b>SSG2-29 J16</b>
M5	8	64.6	36.8	6.59	3.75	0.12~0.22	0.56	● <b>SSG2-29 J18</b>
M5	8						0.55	● <b>SSG2-29 J19</b>
M5	8						0.55	● <b>SSG2-29 J20</b>
M5	8						0.53	● <b>SSG2-29 J22</b>
M6	8						0.49	● <b>SSG2-29 J25</b>
M6	8						0.46	● <b>SSG2-29 J28</b>
—	—						0.62	<b>SSG2-30</b>
M5	8						0.61	● <b>SSG2-30 J18</b>
M5	8						0.60	● <b>SSG2-30 J19</b>
M5	8	67.6	39.5	6.89	4.03	0.12~0.22	0.59	● <b>SSG2-30 J20</b>
M5	8						0.58	● <b>SSG2-30 J22</b>
M6	8						0.54	● <b>SSG2-30 J25</b>
M6	8						0.51	● <b>SSG2-30 J28</b>
M6	8						0.48	● <b>SSG2-30 J30</b>

**[Caution on J series]**

① As available-on-request products, requires a lead-time for shipping within 3 working-days (excludes the day ordered), after placing an order.

Please allow additional shipping time to get to your local distributor.

② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.

③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.

④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with \* \* \* are tap size).

⑤ Areas of products which have been re-worked will not be black oxide coated.

⑥ For products having a tapped hole, a set screw is included.

For updated information, please see KHK Web Catalog.

Spur Gears

Helical Gears

Internal Gears

Racks

CP Racks &amp; Pinions

Miter Gears

Bevel Gears

Screw Gears

Worm Gear Pair

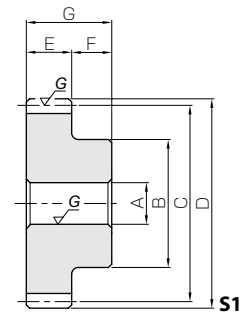
Bevel Gearboxes

Other Products



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.



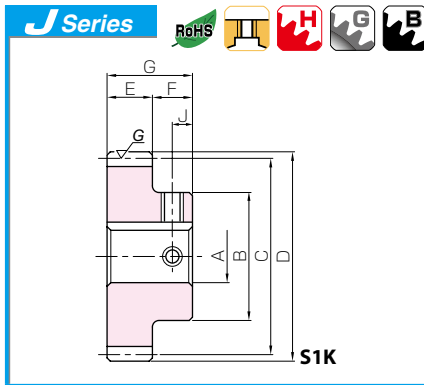
Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A <sub>H7</sub>	B	C	D	E	F	G	Width×Depth
SSG2-32 ●SSG2-32 J18 ●SSG2-32 J19 ●SSG2-32 J20 ●SSG2-32 J22 ●SSG2-32 J25 ●SSG2-32 J28 ●SSG2-32 J30	m2	32	S1	18	50	64	68	20	16	36	—
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
S1K	30	8 x 3.3									
SSG2-34 ●SSG2-34 J18 ●SSG2-34 J19 ●SSG2-34 J20 ●SSG2-34 J22 ●SSG2-34 J25 ●SSG2-34 J28 ●SSG2-34 J30	m2	34	S1	18	50	68	72	20	16	36	—
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
S1K	30	8 x 3.3									
SSG2-35 ●SSG2-35 J18 ●SSG2-35 J19 ●SSG2-35 J20 ●SSG2-35 J22 ●SSG2-35 J25 ●SSG2-35 J28 ●SSG2-35 J30	m2	35	S1	18	50	70	74	20	16	36	—
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
S1K	30	8 x 3.3									
SSG2-36 ●SSG2-36 J18 ●SSG2-36 J19 ●SSG2-36 J20 ●SSG2-36 J22 ●SSG2-36 J25 ●SSG2-36 J28 ●SSG2-36 J30	m2	36	S1	18	50	72	76	20	16	36	—
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
S1K	30	8 x 3.3									
SSG2-38 ●SSG2-38 J18 ●SSG2-38 J19 ●SSG2-38 J20 ●SSG2-38 J22 ●SSG2-38 J25 ●SSG2-38 J28 ●SSG2-38 J30	m2	38	S1	18	50	76	80	20	16	36	—
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
S1K	30	8 x 3.3									
SSG2-40 ●SSG2-40 J20 ●SSG2-40 J22 ●SSG2-40 J25 ●SSG2-40 J28 ●SSG2-40 J30 ●SSG2-40 J32 ●SSG2-40 J35	m2	40	S1	20	60	80	84	20	16	36	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
S1K	35	10 x 3.3									

[Caution on Product Characteristics]

- ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
- ② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

[Caution on Secondary Operations]

- ① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.
- ② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).



## Ground Spur Gears



Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—						0.68	<b>SSG2-32</b>
M5	8	73.7	45.2	7.51	4.61	0.12~0.22	0.67	● <b>SSG2-32 J18</b>
M5	8						0.66	● <b>SSG2-32 J19</b>
M5	8						0.66	● <b>SSG2-32 J20</b>
M5	8						0.64	● <b>SSG2-32 J22</b>
M6	8						0.60	● <b>SSG2-32 J25</b>
M6	8						0.57	● <b>SSG2-32 J28</b>
M6	8						0.54	● <b>SSG2-32 J30</b>
—	—						0.74	<b>SSG2-34</b>
M5	8	79.8	51.3	8.13	5.23	0.12~0.22	0.74	● <b>SSG2-34 J18</b>
M5	8						0.73	● <b>SSG2-34 J19</b>
M5	8						0.72	● <b>SSG2-34 J20</b>
M5	8						0.70	● <b>SSG2-34 J22</b>
M6	8						0.67	● <b>SSG2-34 J25</b>
M6	8						0.63	● <b>SSG2-34 J28</b>
M6	8						0.61	● <b>SSG2-34 J30</b>
—	—						0.78	<b>SSG2-35</b>
M5	8	82.8	54.5	8.45	5.56	0.12~0.22	0.77	● <b>SSG2-35 J18</b>
M5	8						0.76	● <b>SSG2-35 J19</b>
M5	8						0.75	● <b>SSG2-35 J20</b>
M5	8						0.74	● <b>SSG2-35 J22</b>
M6	8						0.70	● <b>SSG2-35 J25</b>
M6	8						0.67	● <b>SSG2-35 J28</b>
M6	8						0.64	● <b>SSG2-35 J30</b>
—	—						0.81	<b>SSG2-36</b>
M5	8	85.9	57.8	8.76	5.90	0.12~0.22	0.81	● <b>SSG2-36 J18</b>
M5	8						0.80	● <b>SSG2-36 J19</b>
M5	8						0.79	● <b>SSG2-36 J20</b>
M5	8						0.77	● <b>SSG2-36 J22</b>
M6	8						0.74	● <b>SSG2-36 J25</b>
M6	8						0.70	● <b>SSG2-36 J28</b>
M6	8						0.68	● <b>SSG2-36 J30</b>
—	—						0.89	<b>SSG2-38</b>
M5	8	92.1	64.8	9.39	6.60	0.12~0.22	0.88	● <b>SSG2-38 J18</b>
M5	8						0.87	● <b>SSG2-38 J19</b>
M5	8						0.86	● <b>SSG2-38 J20</b>
M5	8						0.84	● <b>SSG2-38 J22</b>
M6	8						0.81	● <b>SSG2-38 J25</b>
M6	8						0.77	● <b>SSG2-38 J28</b>
M6	8						0.75	● <b>SSG2-38 J30</b>
—	—						1.06	<b>SSG2-40</b>
M5*	8	98.3	72.1	10.0	7.35	0.12~0.22	1.04	● <b>SSG2-40 J20</b>
M5*	8						1.03	● <b>SSG2-40 J22</b>
M6	8						0.99	● <b>SSG2-40 J25</b>
M6	8						0.96	● <b>SSG2-40 J28</b>
M6	8						0.93	● <b>SSG2-40 J30</b>
M8	8						0.90	● <b>SSG2-40 J32</b>
M8	8						0.86	● <b>SSG2-40 J35</b>

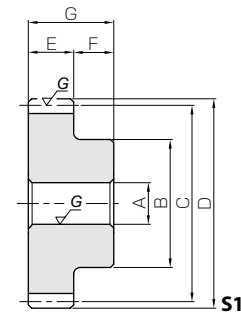
## [Caution on J series]

- ① As available-on-request products, requires a lead-time for shipping within 3 working-days (excludes the day ordered), after placing an order.  
Please allow additional shipping time to get to your local distributor.
- ② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
- ③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.
- ④ Certain products which would otherwise have a very long tapped hole are conerbored to reduce the length of the tap. (Products marked with "\*" are tap size).
- ⑤ Areas of products which have been re-worked will not be black oxide coated.
- ⑥ For products having a tapped hole, a set screw is included.



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.



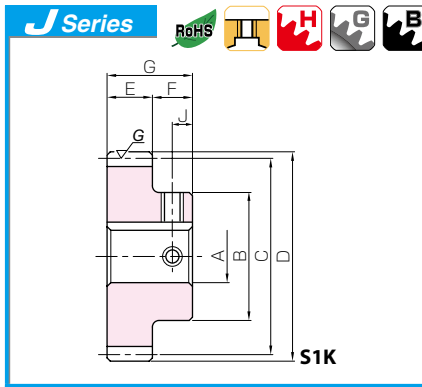
Catalog No. ●: J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A <sub>H7</sub>	B	C	D	E	F	G	Width×Depth
SSG2-42 ●SSG2-42 J20 ●SSG2-42 J22 ●SSG2-42 J25 ●SSG2-42 J28 ●SSG2-42 J30 ●SSG2-42 J32 ●SSG2-42 J35	m2	42	S1	20	60	84	88	20	16	36	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
S1K	35	10 x 3.3									
SSG2-44 ●SSG2-44 J20 ●SSG2-44 J22 ●SSG2-44 J25 ●SSG2-44 J28 ●SSG2-44 J30 ●SSG2-44 J32 ●SSG2-44 J35	44	S1	20	60	88	92	20	16	36	—	
		S1K	20							6 x 2.8	
		S1K	22							6 x 2.8	
		S1K	25							8 x 3.3	
		S1K	28							8 x 3.3	
		S1K	30							8 x 3.3	
		S1K	32							10 x 3.3	
S1K	35	10 x 3.3									
SSG2-45 ●SSG2-45 J20 ●SSG2-45 J22 ●SSG2-45 J25 ●SSG2-45 J28 ●SSG2-45 J30 ●SSG2-45 J32 ●SSG2-45 J35	45	S1	20	60	90	94	20	16	36	—	
		S1K	20							6 x 2.8	
		S1K	22							6 x 2.8	
		S1K	25							8 x 3.3	
		S1K	28							8 x 3.3	
		S1K	30							8 x 3.3	
		S1K	32							10 x 3.3	
S1K	35	10 x 3.3									
SSG2-48 ●SSG2-48 J20 ●SSG2-48 J22 ●SSG2-48 J25 ●SSG2-48 J28 ●SSG2-48 J30 ●SSG2-48 J32 ●SSG2-48 J35	48	S1	20	60	96	100	20	16	36	—	
		S1K	20							6 x 2.8	
		S1K	22							6 x 2.8	
		S1K	25							8 x 3.3	
		S1K	28							8 x 3.3	
		S1K	30							8 x 3.3	
		S1K	32							10 x 3.3	
S1K	35	10 x 3.3									
SSG2-50 ●SSG2-50 J25 ●SSG2-50 J28 ●SSG2-50 J30 ●SSG2-50 J32 ●SSG2-50 J35	50	S1	25	60	100	104	20	16	36	—	
		S1K	25							8 x 3.3	
		S1K	28							8 x 3.3	
		S1K	30							8 x 3.3	
		S1K	32							10 x 3.3	
		S1K	35							10 x 3.3	
		SSG2-55 ●SSG2-55 J25 ●SSG2-55 J28 ●SSG2-55 J30 ●SSG2-55 J32 ●SSG2-55 J35	55							S1	25
S1K	25			8 x 3.3							
S1K	28			8 x 3.3							
S1K	30			8 x 3.3							
S1K	32			10 x 3.3							
S1K	35			10 x 3.3							
SSG2-56 ●SSG2-56 J25 ●SSG2-56 J28 ●SSG2-56 J30 ●SSG2-56 J32 ●SSG2-56 J35	56			S1	25	60	112	116	20	16	36
		S1K	25	8 x 3.3							
		S1K	28	8 x 3.3							
		S1K	30	8 x 3.3							
		S1K	32	10 x 3.3							
		S1K	35	10 x 3.3							

[Caution on Product Characteristics]

- ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
- ② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

[Caution on Secondary Operations]

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- ② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).



## Ground Spur Gears



Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—	105	79.9	10.7	8.15	0.12~0.22	1.14	<b>SSG2-42</b>
M5*	8							● <b>SSG2-42 J20</b>
M5*	8							● <b>SSG2-42 J22</b>
M6	8							● <b>SSG2-42 J25</b>
M6	8							● <b>SSG2-42 J28</b>
M6	8							● <b>SSG2-42 J30</b>
M8	8							● <b>SSG2-42 J32</b>
M8	8							● <b>SSG2-42 J35</b>
—	—	111	88.1	11.3	8.98	0.12~0.22	1.22	<b>SSG2-44</b>
M5*	8							● <b>SSG2-44 J20</b>
M5*	8							● <b>SSG2-44 J22</b>
M6	8							● <b>SSG2-44 J25</b>
M6	8							● <b>SSG2-44 J28</b>
M6	8							● <b>SSG2-44 J30</b>
M8	8							● <b>SSG2-44 J32</b>
M8	8							● <b>SSG2-44 J35</b>
—	—	114	92.3	11.6	9.41	0.12~0.22	1.27	<b>SSG2-45</b>
M5*	8							● <b>SSG2-45 J20</b>
M5*	8							● <b>SSG2-45 J22</b>
M6	8							● <b>SSG2-45 J25</b>
M6	8							● <b>SSG2-45 J28</b>
M6	8							● <b>SSG2-45 J30</b>
M8	8							● <b>SSG2-45 J32</b>
M8	8							● <b>SSG2-45 J35</b>
—	—	114	97.6	11.6	9.95	0.12~0.22	1.40	<b>SSG2-48</b>
M5*	8							● <b>SSG2-48 J20</b>
M5*	8							● <b>SSG2-48 J22</b>
M6	8							● <b>SSG2-48 J25</b>
M6	8							● <b>SSG2-48 J28</b>
M6	8							● <b>SSG2-48 J30</b>
M8	8							● <b>SSG2-48 J32</b>
M8	8							● <b>SSG2-48 J35</b>
—	—	120	106	12.2	10.8	0.12~0.22	1.45	<b>SSG2-50</b>
M6	8							● <b>SSG2-50 J25</b>
M6	8							● <b>SSG2-50 J28</b>
M6	8							● <b>SSG2-50 J30</b>
M8	8							● <b>SSG2-50 J32</b>
M8	8							● <b>SSG2-50 J35</b>
—	—	134	130	13.7	13.3	0.14~0.24	1.71	<b>SSG2-55</b>
M6	8							● <b>SSG2-55 J25</b>
M6	8							● <b>SSG2-55 J28</b>
M6	8							● <b>SSG2-55 J30</b>
M8	8							● <b>SSG2-55 J32</b>
M8	8							● <b>SSG2-55 J35</b>
—	—	137	135	14.0	13.8	0.14~0.24	1.76	<b>SSG2-56</b>
M6	8							● <b>SSG2-56 J25</b>
M6	8							● <b>SSG2-56 J28</b>
M6	8							● <b>SSG2-56 J30</b>
M8	8							● <b>SSG2-56 J32</b>
M8	8							● <b>SSG2-56 J35</b>

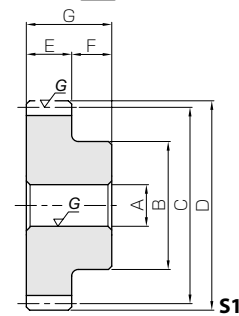
**[Caution on J series]**

- ① As available-on-request products, requires a lead-time for shipping within 3 working-days (excludes the day ordered), after placing an order.  
Please allow additional shipping time to get to your local distributor.
- ② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
- ③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.
- ④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "\*" are tap size).
- ⑤ Areas of products which have been re-worked will not be black oxide coated.
- ⑥ For products having a tapped hole, a set screw is included.



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.



- Spur Gears
- Helical Gears
- Internal Gears
- Racks
- CP Racks & Pinions
- Miter Gears
- Bevel Gears
- Screw Gears
- Worm Gear Pair
- Bevel Gearboxes
- Other Products

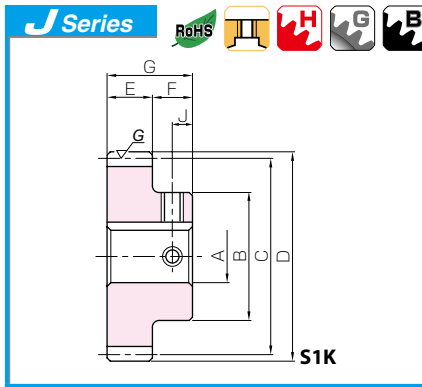
Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A <sub>H7</sub>	B	C	D	E	F	G	Width×Depth
<b>SSG2-60</b> ● SSG2-60 J25 ● SSG2-60 J28 ● SSG2-60 J30 ● SSG2-60 J32 ● SSG2-60 J35	m2	60	S1	25	65	120	124	20	16	36	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
<b>SSG2-64</b> ● SSG2-64 J25 ● SSG2-64 J28 ● SSG2-64 J30 ● SSG2-64 J32 ● SSG2-64 J35	m2	64	S1	25	65	128	132	20	16	36	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
<b>SSG2-70</b> ● SSG2-70 J25 ● SSG2-70 J28 ● SSG2-70 J30 ● SSG2-70 J32 ● SSG2-70 J35 ● SSG2-70 J40	m2	70	S1	25	70	140	144	20	16	36	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
<b>SSG2-75</b> ● SSG2-75 J25 ● SSG2-75 J28 ● SSG2-75 J30 ● SSG2-75 J32 ● SSG2-75 J35 ● SSG2-75 J40	m2	75	S1	25	70	150	154	20	16	36	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
<b>SSG2-80</b> ● SSG2-80 J25 ● SSG2-80 J28 ● SSG2-80 J30 ● SSG2-80 J32 ● SSG2-80 J35 ● SSG2-80 J40 ● SSG2-80 J45	m2	80	S1	25	80	160	164	20	16	36	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
<b>SSG2-90</b> ● SSG2-90 J25 ● SSG2-90 J28 ● SSG2-90 J30 ● SSG2-90 J32 ● SSG2-90 J35 ● SSG2-90 J40 ● SSG2-90 J45	m2	90	S1	25	80	180	184	20	16	36	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
<b>SSG2-100</b> ● SSG2-100 J25 ● SSG2-100 J28 ● SSG2-100 J30 ● SSG2-100 J32 ● SSG2-100 J35 ● SSG2-100 J40 ● SSG2-100 J45	m2	100	S1	25	80	200	204	20	16	36	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
S1K	40	12 x 3.3									
S1K	45	14 x 3.8									

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## Ground Spur Gears



Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—						2.05	<b>SSG2-60</b>
M6	8	149	156	15.2	15.9	0.14~0.24	2.04	● <b>SSG2-60 J25</b>
M6	8						2.01	● <b>SSG2-60 J28</b>
M6	8						1.98	● <b>SSG2-60 J30</b>
M8	8						1.95	● <b>SSG2-60 J32</b>
M8	8						1.90	● <b>SSG2-60 J35</b>
—	—						2.30	<b>SSG2-64</b>
M6	8	161	179	16.4	18.3	0.14~0.24	2.29	● <b>SSG2-64 J25</b>
M6	8						2.25	● <b>SSG2-64 J28</b>
M6	8						2.22	● <b>SSG2-64 J30</b>
M8	8						2.19	● <b>SSG2-64 J32</b>
M8	8						2.15	● <b>SSG2-64 J35</b>
—	—						2.76	<b>SSG2-70</b>
M6*	8	179	216	18.2	22.0	0.14~0.24	2.74	● <b>SSG2-70 J25</b>
M6*	8						2.71	● <b>SSG2-70 J28</b>
M6	8						2.69	● <b>SSG2-70 J30</b>
M8	8						2.65	● <b>SSG2-70 J32</b>
M8	8						2.61	● <b>SSG2-70 J35</b>
M8	8						2.53	● <b>SSG2-70 J40</b>
—	—						3.12	<b>SSG2-75</b>
M6*	8	194	249	19.7	25.4	0.14~0.24	3.10	● <b>SSG2-75 J25</b>
M6*	8						3.07	● <b>SSG2-75 J28</b>
M6	8						3.04	● <b>SSG2-75 J30</b>
M8	8						3.01	● <b>SSG2-75 J32</b>
M8	8						2.97	● <b>SSG2-75 J35</b>
M8	8						2.88	● <b>SSG2-75 J40</b>
—	—						3.65	<b>SSG2-80</b>
M6*	8	194	265	19.8	27.0	0.14~0.24	3.63	● <b>SSG2-80 J25</b>
M6*	8						3.59	● <b>SSG2-80 J28</b>
M6*	8						3.57	● <b>SSG2-80 J30</b>
M8	8						3.54	● <b>SSG2-80 J32</b>
M8	8						3.49	● <b>SSG2-80 J35</b>
M8	8						3.41	● <b>SSG2-80 J40</b>
M10	8						3.31	● <b>SSG2-80 J45</b>
—	—						4.49	<b>SSG2-90</b>
M6*	8	222	338	22.6	34.5	0.14~0.24	4.47	● <b>SSG2-90 J25</b>
M6*	8						4.43	● <b>SSG2-90 J28</b>
M6*	8						4.41	● <b>SSG2-90 J30</b>
M8	8						4.38	● <b>SSG2-90 J32</b>
M8	8						4.33	● <b>SSG2-90 J35</b>
M8	8						4.25	● <b>SSG2-90 J40</b>
M10	8						4.15	● <b>SSG2-90 J45</b>
—	—						5.42	<b>SSG2-100</b>
M6*	8	250	421	25.4	43.0	0.14~0.24	5.40	● <b>SSG2-100 J25</b>
M6*	8						5.37	● <b>SSG2-100 J28</b>
M6*	8						5.34	● <b>SSG2-100 J30</b>
M8	8						5.31	● <b>SSG2-100 J32</b>
M8	8						5.27	● <b>SSG2-100 J35</b>
M8	8						5.19	● <b>SSG2-100 J40</b>
M10	8						5.09	● <b>SSG2-100 J45</b>

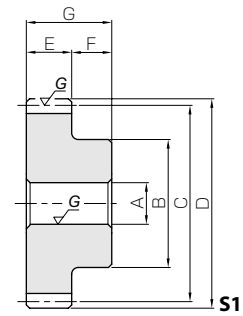
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Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

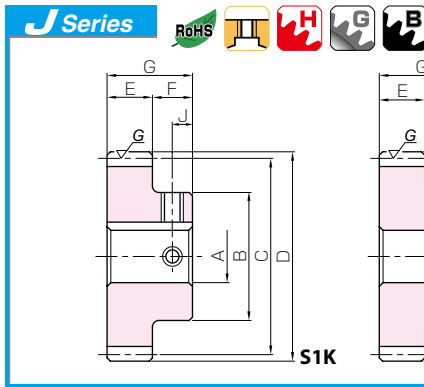
\* The precision grade of J Series products is equivalent to the value shown in the table.



- Spur Gears
- Helical Gears
- Internal Gears
- Racks
- CP Racks & Pinions
- Miter Gears
- Bevel Gears
- Screw Gears
- Worm Gear Pair
- Bevel Gearboxes
- Other Products

Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				AH7	B	C	D	E	F	G	Width×Depth
<b>SSG2.5-14</b>	m2.5	14	S1	15	28	35	40	25	18	43	—
● <b>SSG2.5-14 J15**</b>			S1K	15							5 x 2.3
● <b>SSG2.5-14 J16**</b>			S1K	16							5 x 2.3
<b>SSG2.5-15</b>		15	S1	15	30	37.5	42.5	25	18	43	—
● <b>SSG2.5-15 J15</b>			S1K	15							5 x 2.3
● <b>SSG2.5-15 J16</b>			S1K	16							5 x 2.3
● <b>SSG2.5-15 J18</b>		S1T2	18	—							
<b>SSG2.5-16</b>		16	S1	15	32	40	45	25	18	43	—
● <b>SSG2.5-16 J15</b>			S1K	15							5 x 2.3
● <b>SSG2.5-16 J16</b>			S1K	16							5 x 2.3
● <b>SSG2.5-16 J18</b>		S1K	18	6 x 2.8							
<b>SSG2.5-17</b>		17	S1	15	35	42.5	47.5	25	18	43	—
● <b>SSG2.5-17 J15</b>			S1K	15							5 x 2.3
● <b>SSG2.5-17 J16</b>			S1K	16							5 x 2.3
● <b>SSG2.5-17 J18</b>			S1K	18							6 x 2.8
● <b>SSG2.5-17 J19</b>			S1K	19							6 x 2.8
● <b>SSG2.5-17 J20</b>			S1K	20							6 x 2.8
<b>SSG2.5-18</b>		18	S1	15	38	45	50	25	18	43	—
● <b>SSG2.5-18 J15</b>			S1K	15							5 x 2.3
● <b>SSG2.5-18 J16</b>			S1K	16							5 x 2.3
● <b>SSG2.5-18 J18</b>			S1K	18							6 x 2.8
● <b>SSG2.5-18 J19</b>			S1K	19							6 x 2.8
● <b>SSG2.5-18 J20</b>	S1K		20	6 x 2.8							
● <b>SSG2.5-18 J22</b>	S1K	22	6 x 2.8								
<b>SSG2.5-19</b>	19	S1	15	39	47.5	52.5	25	18	43	—	
● <b>SSG2.5-19 J15</b>		S1K	15							5 x 2.3	
● <b>SSG2.5-19 J16</b>		S1K	16							5 x 2.3	
● <b>SSG2.5-19 J18</b>		S1K	18							6 x 2.8	
● <b>SSG2.5-19 J19</b>		S1K	19							6 x 2.8	
● <b>SSG2.5-19 J20</b>		S1K	20							6 x 2.8	
● <b>SSG2.5-19 J22</b>	S1K	22	6 x 2.8								
<b>SSG2.5-20</b>	20	S1	18	40	50	55	25	18	43	—	
● <b>SSG2.5-20 J18</b>		S1K	18							6 x 2.8	
● <b>SSG2.5-20 J19</b>		S1K	19							6 x 2.8	
● <b>SSG2.5-20 J20</b>		S1K	20							6 x 2.8	
● <b>SSG2.5-20 J22</b>		S1K	22							6 x 2.8	
<b>SSG2.5-21</b>	21	S1	18	42	52.5	57.5	25	18	43	—	
● <b>SSG2.5-21 J18</b>		S1K	18							6 x 2.8	
● <b>SSG2.5-21 J19</b>		S1K	19							6 x 2.8	
● <b>SSG2.5-21 J20</b>		S1K	20							6 x 2.8	
● <b>SSG2.5-21 J22</b>		S1K	22							6 x 2.8	
● <b>SSG2.5-21 J25</b>		S1K	25							8 x 3.3	
<b>SSG2.5-22</b>	22	S1	18	44	55	60	25	18	43	—	
● <b>SSG2.5-22 J18</b>		S1K	18							6 x 2.8	
● <b>SSG2.5-22 J19</b>		S1K	19							6 x 2.8	
● <b>SSG2.5-22 J20</b>		S1K	20							6 x 2.8	
● <b>SSG2.5-22 J22</b>		S1K	22							6 x 2.8	
● <b>SSG2.5-22 J25</b>		S1K	25							8 x 3.3	

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## Ground Spur Gears



Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—							<b>SSG2.5-14</b>
M4	9	42.9	14.9	4.37	1.52	0.10~0.20	0.22	● <b>SSG2.5-14 J15**</b>
M4	9						0.21	● <b>SSG2.5-14 J16**</b>
M4	9						0.20	
M4	9	48.1	17.4	4.91	1.77	0.10~0.20	0.26	<b>SSG2.5-15</b>
M4	9						0.25	● <b>SSG2.5-15 J15</b>
M4	9						0.24	● <b>SSG2.5-15 J16</b>
M5	9						0.22	● <b>SSG2.5-15 J18</b>
M4	9	53.3	20.1	5.44	2.05	0.10~0.20	0.30	<b>SSG2.5-16</b>
M4	9						0.30	● <b>SSG2.5-16 J15</b>
M4	9						0.29	● <b>SSG2.5-16 J16</b>
M5	9						0.27	● <b>SSG2.5-16 J18</b>
M4	9	58.6	23.0	5.97	2.34	0.10~0.20	0.35	<b>SSG2.5-17</b>
M4	9						0.35	● <b>SSG2.5-17 J15</b>
M4	9						0.34	● <b>SSG2.5-17 J16</b>
M5	9						0.32	● <b>SSG2.5-17 J18</b>
M5	9						0.31	● <b>SSG2.5-17 J19</b>
M5	9						0.30	● <b>SSG2.5-17 J20</b>
M4	9	63.9	26.1	6.52	2.66	0.10~0.20	0.41	<b>SSG2.5-18</b>
M4	9						0.41	● <b>SSG2.5-18 J15</b>
M4	9						0.40	● <b>SSG2.5-18 J16</b>
M5	9						0.38	● <b>SSG2.5-18 J18</b>
M5	9						0.37	● <b>SSG2.5-18 J19</b>
M5	9						0.36	● <b>SSG2.5-18 J20</b>
M5	9						0.34	● <b>SSG2.5-18 J22</b>
M4	9	69.4	29.4	7.07	3.00	0.10~0.20	0.46	<b>SSG2.5-19</b>
M4	9						0.45	● <b>SSG2.5-19 J15</b>
M4	9						0.44	● <b>SSG2.5-19 J16</b>
M5	9						0.42	● <b>SSG2.5-19 J18</b>
M5	9						0.41	● <b>SSG2.5-19 J19</b>
M5	9						0.40	● <b>SSG2.5-19 J20</b>
M5	9						0.38	● <b>SSG2.5-19 J22</b>
M5	9	74.8	32.9	7.63	3.36	0.10~0.20	0.48	<b>SSG2.5-20</b>
M5	9						0.47	● <b>SSG2.5-20 J18</b>
M5	9						0.46	● <b>SSG2.5-20 J19</b>
M5	9						0.45	● <b>SSG2.5-20 J20</b>
M5	9						0.43	● <b>SSG2.5-20 J22</b>
M5	9	80.4	36.7	8.20	3.74	0.12~0.22	0.53	<b>SSG2.5-21</b>
M5	9						0.53	● <b>SSG2.5-21 J18</b>
M5	9						0.52	● <b>SSG2.5-21 J19</b>
M5	9						0.51	● <b>SSG2.5-21 J20</b>
M5	9						0.48	● <b>SSG2.5-21 J22</b>
M6	9						0.44	● <b>SSG2.5-21 J25</b>
M5	9	86.0	40.6	8.77	4.14	0.12~0.22	0.60	<b>SSG2.5-22</b>
M5	9						0.59	● <b>SSG2.5-22 J18</b>
M5	9						0.58	● <b>SSG2.5-22 J19</b>
M5	9						0.57	● <b>SSG2.5-22 J20</b>
M5	9						0.55	● <b>SSG2.5-22 J22</b>
M6	9						0.50	● <b>SSG2.5-22 J25</b>

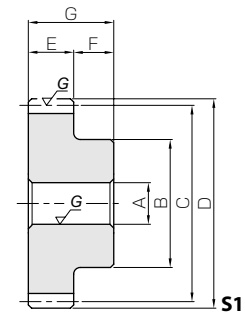
**[Caution on J series]**

- As available-on-request products, requires a lead-time for shipping within 3 working-days (excludes the day ordered), after placing an order. Please allow additional shipping time to get to your local distributor.
- Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
- Keyways are made according to JIS B1301 standards, Js 9 tolerance.
- Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "\*" are tap size).
- Areas of products which have been re-worked will not be black oxide coated.
- For products having a tapped hole, a set screw is included.
- Products marked with "\*\*\*" have a small amount of material between the corner of the keyway and the tooth root. This mode of failure must be considered when selecting these gears. For details, please see our web site.



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.

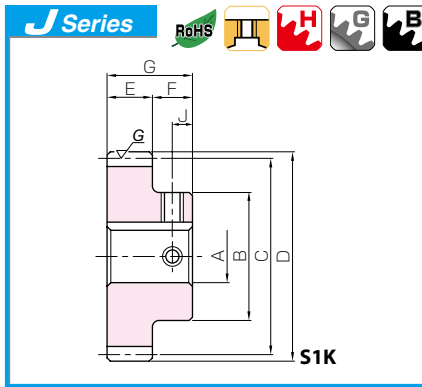


- Spur Gears
- Helical Gears
- Internal Gears
- Racks
- CP Racks & Pinions
- Miter Gears
- Bevel Gears
- Screw Gears
- Worm Gear Pair
- Bevel Gearboxes
- Other Products

Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A <sub>H7</sub>	B	C	D	E	F	G	Width×Depth
SSG2.5-23 ● SSG2.5-23 J18 ● SSG2.5-23 J19 ● SSG2.5-23 J20 ● SSG2.5-23 J22 ● SSG2.5-23 J25	m2.5	23	S1	18	46	57.5	62.5	25	18	43	—
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
SSG2.5-24 ● SSG2.5-24 J18 ● SSG2.5-24 J19 ● SSG2.5-24 J20 ● SSG2.5-24 J22 ● SSG2.5-24 J25 ● SSG2.5-24 J28	m2.5	24	S1	18	48	60	65	25	18	43	—
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
SSG2.5-25 ● SSG2.5-25 J20 ● SSG2.5-25 J22 ● SSG2.5-25 J25 ● SSG2.5-25 J28 ● SSG2.5-25 J30	m2.5	25	S1	20	50	62.5	67.5	25	18	43	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
SSG2.5-26 ● SSG2.5-26 J20 ● SSG2.5-26 J22 ● SSG2.5-26 J25 ● SSG2.5-26 J28 ● SSG2.5-26 J30 ● SSG2.5-26 J32	m2.5	26	S1	20	54	65	70	25	18	43	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
SSG2.5-27 ● SSG2.5-27 J20 ● SSG2.5-27 J22 ● SSG2.5-27 J25 ● SSG2.5-27 J28 ● SSG2.5-27 J30 ● SSG2.5-27 J32	m2.5	27	S1	20	56	67.5	72.5	25	18	43	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
SSG2.5-28 ● SSG2.5-28 J20 ● SSG2.5-28 J22 ● SSG2.5-28 J25 ● SSG2.5-28 J28 ● SSG2.5-28 J30 ● SSG2.5-28 J32 ● SSG2.5-28 J35	m2.5	28	S1	20	60	70	75	25	18	43	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
SSG2.5-29 ● SSG2.5-29 J20 ● SSG2.5-29 J22 ● SSG2.5-29 J25 ● SSG2.5-29 J28 ● SSG2.5-29 J30 ● SSG2.5-29 J32 ● SSG2.5-29 J35	m2.5	29	S1	20	60	72.5	77.5	25	18	43	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
S1K	32	10 x 3.3									
S1K	35	10 x 3.3									

[Caution on Product Characteristics] ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.  
② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

[Caution on Secondary Operations] ① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.  
② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).



## Ground Spur Gears



Set Screw		Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)					
Size	J	Bending strength	Surface durability	Bending strength	Surface durability								
—	—						0.66	<b>SSG2.5-23</b>					
M5	9	91.6	44.8	9.34	4.57	0.12~0.22	0.65	● <b>SSG2.5-23 J18</b>					
M5	9						0.64	● <b>SSG2.5-23 J19</b>					
M5	9						0.63	● <b>SSG2.5-23 J20</b>					
M5	9						0.61	● <b>SSG2.5-23 J22</b>					
M6	9						0.57	● <b>SSG2.5-23 J25</b>					
—	—						0.72	<b>SSG2.5-24</b>					
M5	9	97.3	49.2	9.92	5.02	0.12~0.22	0.72	● <b>SSG2.5-24 J18</b>					
M5	9						0.71	● <b>SSG2.5-24 J19</b>					
M5	9						0.70	● <b>SSG2.5-24 J20</b>					
M5	9						0.67	● <b>SSG2.5-24 J22</b>					
M6	9						0.63	● <b>SSG2.5-24 J25</b>					
M6	9						0.59	● <b>SSG2.5-24 J28</b>					
—	—						0.77	<b>SSG2.5-25</b>					
M5	9	103	53.8	10.5	5.48	0.12~0.22	0.76	● <b>SSG2.5-25 J20</b>					
M5	9						0.74	● <b>SSG2.5-25 J22</b>					
M6	9						0.70	● <b>SSG2.5-25 J25</b>					
M6	9						0.66	● <b>SSG2.5-25 J28</b>					
M6	9						0.63	● <b>SSG2.5-25 J30</b>					
—	—											0.87	<b>SSG2.5-26</b>
M5	9	109	58.4	11.1	5.95	0.12~0.22	0.86	● <b>SSG2.5-26 J20</b>					
M5	9						0.84	● <b>SSG2.5-26 J22</b>					
M6	9						0.80	● <b>SSG2.5-26 J25</b>					
M6	9						0.75	● <b>SSG2.5-26 J28</b>					
M6	9						0.72	● <b>SSG2.5-26 J30</b>					
M6	9						0.69	● <b>SSG2.5-26 J32</b>					
M8	9						0.69	● <b>SSG2.5-26 J32</b>					
—	—						0.94	<b>SSG2.5-27</b>					
M5*	9	115	63.2	11.7	6.44	0.12~0.22	0.93	● <b>SSG2.5-27 J20</b>					
M5	9						0.91	● <b>SSG2.5-27 J22</b>					
M6	9						0.87	● <b>SSG2.5-27 J25</b>					
M6	9						0.83	● <b>SSG2.5-27 J28</b>					
M6	9						0.80	● <b>SSG2.5-27 J30</b>					
M6	9						0.76	● <b>SSG2.5-27 J32</b>					
M8	9						0.76	● <b>SSG2.5-27 J32</b>					
—	—						1.05	<b>SSG2.5-28</b>					
M5*	9	120	68.2	12.3	6.95	0.12~0.22	1.04	● <b>SSG2.5-28 J20</b>					
M5*	9						1.01	● <b>SSG2.5-28 J22</b>					
M6	9						0.98	● <b>SSG2.5-28 J25</b>					
M6	9						0.93	● <b>SSG2.5-28 J28</b>					
M6	9						0.90	● <b>SSG2.5-28 J30</b>					
M8	9						0.87	● <b>SSG2.5-28 J32</b>					
M8	9						0.81	● <b>SSG2.5-28 J35</b>					
—	—											1.10	<b>SSG2.5-29</b>
M5*	9						126	73.3	12.9	7.48	0.12~0.22	1.09	● <b>SSG2.5-29 J20</b>
M5*	9	1.07	● <b>SSG2.5-29 J22</b>										
M6	9	1.03	● <b>SSG2.5-29 J25</b>										
M6	9	0.99	● <b>SSG2.5-29 J28</b>										
M6	9	0.96	● <b>SSG2.5-29 J30</b>										
M8	9	0.92	● <b>SSG2.5-29 J32</b>										
M8	9	0.87	● <b>SSG2.5-29 J35</b>										
M8	9	0.87	● <b>SSG2.5-29 J35</b>										

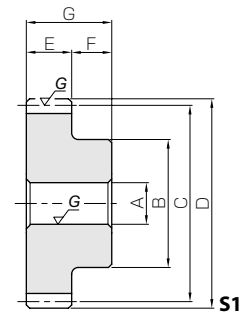
**[Caution on J series]**

- ① As available-on-request products, requires a lead-time for shipping within 3 working-days (excludes the day ordered), after placing an order.  
Please allow additional shipping time to get to your local distributor.
- ② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
- ③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.
- ④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "\*" are tap size).
- ⑤ Areas of products which have been re-worked will not be black oxide coated.
- ⑥ For products having a tapped hole, a set screw is included.



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.



- Spur Gears
- Helical Gears
- Internal Gears
- Racks
- CP Racks & Pinions
- Miter Gears
- Bevel Gears
- Screw Gears
- Worm Gear Pair
- Bevel Gearboxes
- Other Products

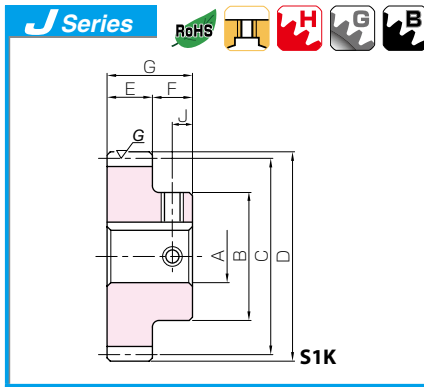
Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				AH7	B	C	D	E	F	G	Width×Depth
SSG2.5-30 ●SSG2.5-30 J20 ●SSG2.5-30 J22 ●SSG2.5-30 J25 ●SSG2.5-30 J28 ●SSG2.5-30 J30 ●SSG2.5-30 J32 ●SSG2.5-30 J35	m2.5	30	S1	20	65	75	80	25	18	43	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
S1K	35	10 x 3.3									
SSG2.5-32 ●SSG2.5-32 J20 ●SSG2.5-32 J22 ●SSG2.5-32 J25 ●SSG2.5-32 J28 ●SSG2.5-32 J30 ●SSG2.5-32 J32 ●SSG2.5-32 J35 ●SSG2.5-32 J40	m2.5	32	S1	20	70	80	85	25	18	43	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
S1K	35	10 x 3.3									
S1K	40	12 x 3.3									
SSG2.5-34 ●SSG2.5-34 J20 ●SSG2.5-34 J22 ●SSG2.5-34 J25 ●SSG2.5-34 J28 ●SSG2.5-34 J30 ●SSG2.5-34 J32 ●SSG2.5-34 J35 ●SSG2.5-34 J40	m2.5	34	S1	20	70	85	90	25	18	43	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
S1K	35	10 x 3.3									
S1K	40	12 x 3.3									
SSG2.5-35 ●SSG2.5-35 J20 ●SSG2.5-35 J22 ●SSG2.5-35 J25 ●SSG2.5-35 J28 ●SSG2.5-35 J30 ●SSG2.5-35 J32 ●SSG2.5-35 J35 ●SSG2.5-35 J40	m2.5	35	S1	20	70	87.5	92.5	25	18	43	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
S1K	35	10 x 3.3									
S1K	40	12 x 3.3									
SSG2.5-36 ●SSG2.5-36 J20 ●SSG2.5-36 J22 ●SSG2.5-36 J25 ●SSG2.5-36 J28 ●SSG2.5-36 J30 ●SSG2.5-36 J32 ●SSG2.5-36 J35 ●SSG2.5-36 J40	m2.5	36	S1	20	70	90	95	25	18	43	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
S1K	35	10 x 3.3									
S1K	40	12 x 3.3									
SSG2.5-38 ●SSG2.5-38 J20 ●SSG2.5-38 J22 ●SSG2.5-38 J25 ●SSG2.5-38 J28 ●SSG2.5-38 J30 ●SSG2.5-38 J32 ●SSG2.5-38 J35 ●SSG2.5-38 J40	m2.5	38	S1	20	70	95	100	25	18	43	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
S1K	35	10 x 3.3									
S1K	40	12 x 3.3									

[Caution on Product Characteristics]

- ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
- ② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

[Caution on Secondary Operations]

- ① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.
- ② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).



## Ground Spur Gears



Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—	132	78.7	13.5	8.03	0.12~0.22	1.23	SSG2.5-30
M5*	9							●SSG2.5-30 J20
M5*	9							●SSG2.5-30 J22
M6	9							●SSG2.5-30 J25
M6	9							●SSG2.5-30 J28
M6	9							●SSG2.5-30 J30
M8	9							●SSG2.5-30 J32
M8	9							●SSG2.5-30 J35
—	—	144	90.1	14.7	9.19	0.12~0.22	1.42	SSG2.5-32
M5*	9							●SSG2.5-32 J20
M5*	9							●SSG2.5-32 J22
M6*	9							●SSG2.5-32 J25
M6*	9							●SSG2.5-32 J28
M6	9							●SSG2.5-32 J30
M8	9							●SSG2.5-32 J32
M8	9							●SSG2.5-32 J35
—	—	156	102	15.9	10.4	0.12~0.22	1.55	SSG2.5-34
M5*	9							●SSG2.5-34 J20
M5*	9							●SSG2.5-34 J22
M6*	9							●SSG2.5-34 J25
M6*	9							●SSG2.5-34 J28
M6	9							●SSG2.5-34 J30
M8	9							●SSG2.5-34 J32
M8	9							●SSG2.5-34 J35
—	—	162	109	16.5	11.1	0.12~0.22	1.62	SSG2.5-35
M5*	9							●SSG2.5-35 J20
M5*	9							●SSG2.5-35 J22
M6*	9							●SSG2.5-35 J25
M6*	9							●SSG2.5-35 J28
M6	9							●SSG2.5-35 J30
M8	9							●SSG2.5-35 J32
M8	9							●SSG2.5-35 J35
—	—	168	115	17.1	11.8	0.12~0.22	1.69	SSG2.5-36
M5*	9							●SSG2.5-36 J20
M5*	9							●SSG2.5-36 J22
M6*	9							●SSG2.5-36 J25
M6*	9							●SSG2.5-36 J28
M6	9							●SSG2.5-36 J30
M8	9							●SSG2.5-36 J32
M8	9							●SSG2.5-36 J35
—	—	180	129	18.3	13.2	0.12~0.22	1.83	SSG2.5-38
M5*	9							●SSG2.5-38 J20
M5*	9							●SSG2.5-38 J22
M6*	9							●SSG2.5-38 J25
M6*	9							●SSG2.5-38 J28
M6	9							●SSG2.5-38 J30
M8	9							●SSG2.5-38 J32
M8	9							●SSG2.5-38 J35
M8	9	●SSG2.5-38 J40						

**[Caution on J series]**

① As available-on-request products, requires a lead-time for shipping within 3 working-days (excludes the day ordered), after placing an order.

Please allow additional shipping time to get to your local distributor.

② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.

③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.

④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "\*" are tap size).

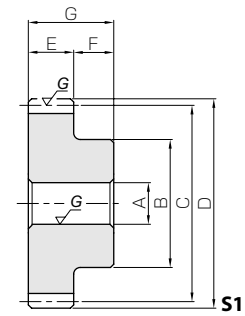
⑤ Areas of products which have been re-worked will not be black oxide coated.

⑥ For products having a tapped hole, a set screw is included.



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.



- Spur Gears
- Helical Gears
- Internal Gears
- Racks
- CP Racks & Pinions
- Miter Gears
- Bevel Gears
- Screw Gears
- Worm Gear Pair
- Bevel Gearboxes
- Other Products

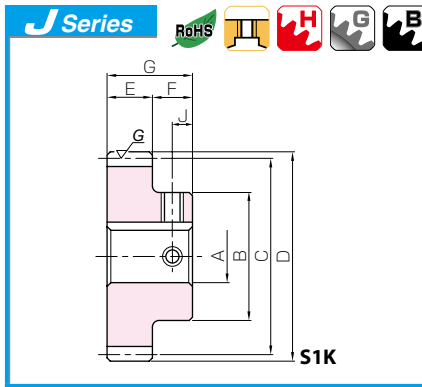
Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				AH7	B	C	D	E	F	G	Width×Depth
SSG2.5-40 ● SSG2.5-40 J25 ● SSG2.5-40 J28 ● SSG2.5-40 J30 ● SSG2.5-40 J32 ● SSG2.5-40 J35 ● SSG2.5-40 J40	m2.5	40	S1	25	70	100	105	25	18	43	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
SSG2.5-42 ● SSG2.5-42 J25 ● SSG2.5-42 J28 ● SSG2.5-42 J30 ● SSG2.5-42 J32 ● SSG2.5-42 J35 ● SSG2.5-42 J40 ● SSG2.5-42 J45	42	75	S1	25	105	110	25	18	43	—	
			S1K	25						8 x 3.3	
			S1K	28						8 x 3.3	
			S1K	30						8 x 3.3	
			S1K	32						10 x 3.3	
			S1K	35						10 x 3.3	
			S1K	40						12 x 3.3	
SSG2.5-44 ● SSG2.5-44 J25 ● SSG2.5-44 J28 ● SSG2.5-44 J30 ● SSG2.5-44 J32 ● SSG2.5-44 J35 ● SSG2.5-44 J40 ● SSG2.5-44 J45	44	75	S1	25	110	115	25	18	43	—	
			S1K	25						8 x 3.3	
			S1K	28						8 x 3.3	
			S1K	30						8 x 3.3	
			S1K	32						10 x 3.3	
			S1K	35						10 x 3.3	
			S1K	40						12 x 3.3	
SSG2.5-45 ● SSG2.5-45 J25 ● SSG2.5-45 J28 ● SSG2.5-45 J30 ● SSG2.5-45 J32 ● SSG2.5-45 J35 ● SSG2.5-45 J40 ● SSG2.5-45 J45	45	75	S1	25	112.5	117.5	25	18	43	—	
			S1K	25						8 x 3.3	
			S1K	28						8 x 3.3	
			S1K	30						8 x 3.3	
			S1K	32						10 x 3.3	
			S1K	35						10 x 3.3	
			S1K	40						12 x 3.3	
SSG2.5-48 ● SSG2.5-48 J25 ● SSG2.5-48 J28 ● SSG2.5-48 J30 ● SSG2.5-48 J32 ● SSG2.5-48 J35 ● SSG2.5-48 J40 ● SSG2.5-48 J45	48	75	S1	25	120	125	25	18	43	—	
			S1K	25						8 x 3.3	
			S1K	28						8 x 3.3	
			S1K	30						8 x 3.3	
			S1K	32						10 x 3.3	
			S1K	35						10 x 3.3	
			S1K	40						12 x 3.3	
SSG2.5-50 ● SSG2.5-50 J25 ● SSG2.5-50 J28 ● SSG2.5-50 J30 ● SSG2.5-50 J32 ● SSG2.5-50 J35 ● SSG2.5-50 J40 ● SSG2.5-50 J45	50	80	S1	25	125	130	25	18	43	—	
			S1K	25						8 x 3.3	
			S1K	28						8 x 3.3	
			S1K	30						8 x 3.3	
			S1K	32						10 x 3.3	
			S1K	35						10 x 3.3	
			S1K	40						12 x 3.3	
S1K	45	14 x 3.8									

[Caution on Product Characteristics]

- ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
- ② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

[Caution on Secondary Operations]

- ① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.
- ② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).



## Ground Spur Gears



Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—						1.92	<b>SSG2.5-40</b>
M6*	9						1.90	● <b>SSG2.5-40 J25</b>
M6*	9						1.86	● <b>SSG2.5-40 J28</b>
M6	9	177	133	18.1	13.6	0.12~0.22	1.83	● <b>SSG2.5-40 J30</b>
M8	9						1.79	● <b>SSG2.5-40 J32</b>
M8	9						1.74	● <b>SSG2.5-40 J35</b>
M8	9						1.64	● <b>SSG2.5-40 J40</b>
—	—						2.16	<b>SSG2.5-42</b>
M6*	9						2.14	● <b>SSG2.5-42 J25</b>
M6*	9						2.10	● <b>SSG2.5-42 J28</b>
M6*	9	188	147	19.2	15.0	0.14~0.24	2.07	● <b>SSG2.5-42 J30</b>
M8	9						2.03	● <b>SSG2.5-42 J32</b>
M8	9						1.98	● <b>SSG2.5-42 J35</b>
M8	9						1.88	● <b>SSG2.5-42 J40</b>
M10	9						1.76	● <b>SSG2.5-42 J45</b>
—	—						2.32	<b>SSG2.5-44</b>
M6*	9						2.30	● <b>SSG2.5-44 J25</b>
M6*	9						2.26	● <b>SSG2.5-44 J28</b>
M6*	9	200	163	20.4	16.6	0.14~0.24	2.23	● <b>SSG2.5-44 J30</b>
M8	9						2.20	● <b>SSG2.5-44 J32</b>
M8	9						2.14	● <b>SSG2.5-44 J35</b>
M8	9						2.04	● <b>SSG2.5-44 J40</b>
M10	9						1.92	● <b>SSG2.5-44 J45</b>
—	—						2.41	<b>SSG2.5-45</b>
M6*	9						2.39	● <b>SSG2.5-45 J25</b>
M6*	9						2.35	● <b>SSG2.5-45 J28</b>
M6*	9	205	170	20.9	17.4	0.14~0.24	2.32	● <b>SSG2.5-45 J30</b>
M8	9						2.28	● <b>SSG2.5-45 J32</b>
M8	9						2.23	● <b>SSG2.5-45 J35</b>
M8	9						2.13	● <b>SSG2.5-45 J40</b>
M10	9						2.01	● <b>SSG2.5-45 J45</b>
—	—						2.68	<b>SSG2.5-48</b>
M6*	9						2.66	● <b>SSG2.5-48 J25</b>
M6*	9						2.62	● <b>SSG2.5-48 J28</b>
M6*	9	222	195	22.7	19.9	0.14~0.24	2.59	● <b>SSG2.5-48 J30</b>
M8	9						2.55	● <b>SSG2.5-48 J32</b>
M8	9						2.50	● <b>SSG2.5-48 J35</b>
M8	9						2.40	● <b>SSG2.5-48 J40</b>
M10	9						2.28	● <b>SSG2.5-48 J45</b>
—	—						2.95	<b>SSG2.5-50</b>
M6*	9						2.93	● <b>SSG2.5-50 J25</b>
M6*	9						2.89	● <b>SSG2.5-50 J28</b>
M6*	9	234	213	23.8	21.7	0.14~0.24	2.86	● <b>SSG2.5-50 J30</b>
M8	9						2.82	● <b>SSG2.5-50 J32</b>
M8	9						2.77	● <b>SSG2.5-50 J35</b>
M8	9						2.67	● <b>SSG2.5-50 J40</b>
M10	9						2.55	● <b>SSG2.5-50 J45</b>

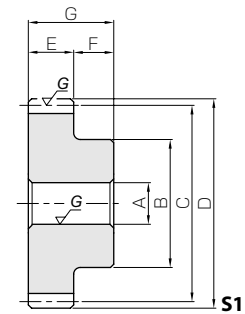
**[Caution on J series]**

- ① As available-on-request products, requires a lead-time for shipping within **3 working-days (excludes the day ordered)**, after placing an order. Please allow additional shipping time to get to your local distributor.
- ② Number of products we can process for one order is **1 to 20 units**. For quantities of 21 or more pieces, we need to quote price and lead time.
- ③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.
- ④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "\*" are tap size).
- ⑤ Areas of products which have been re-worked will not be black oxide coated.
- ⑥ For products having a tapped hole, a set screw is included.



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.



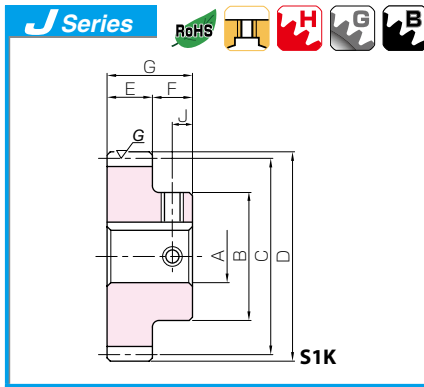
Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A <sub>H7</sub>	B	C	D	E	F	G	Width×Depth
SSG2.5-55 ● SSG2.5-55 J25 ● SSG2.5-55 J28 ● SSG2.5-55 J30 ● SSG2.5-55 J32 ● SSG2.5-55 J35 ● SSG2.5-55 J40 ● SSG2.5-55 J45	m2.5	55	S1	25	80	137.5	142.5	25	18	43	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
S1K	45	14 x 3.8									
SSG2.5-56 ● SSG2.5-56 J25 ● SSG2.5-56 J28 ● SSG2.5-56 J30 ● SSG2.5-56 J32 ● SSG2.5-56 J35 ● SSG2.5-56 J40 ● SSG2.5-56 J45	m2.5	56	S1	25	80	140	145	25	18	43	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
S1K	45	14 x 3.8									
SSG2.5-60 ● SSG2.5-60 J25 ● SSG2.5-60 J28 ● SSG2.5-60 J30 ● SSG2.5-60 J32 ● SSG2.5-60 J35 ● SSG2.5-60 J40 ● SSG2.5-60 J45	m2.5	60	S1	25	80	150	155	25	18	43	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
S1K	45	14 x 3.8									
SSG2.5-70 ● SSG2.5-70 J25 ● SSG2.5-70 J28 ● SSG2.5-70 J30 ● SSG2.5-70 J32 ● SSG2.5-70 J35 ● SSG2.5-70 J40 ● SSG2.5-70 J45	m2.5	70	S1	25	80	175	180	25	18	43	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
S1K	45	14 x 3.8									
SSG2.5-75 ● SSG2.5-75 J25 ● SSG2.5-75 J28 ● SSG2.5-75 J30 ● SSG2.5-75 J32 ● SSG2.5-75 J35 ● SSG2.5-75 J40 ● SSG2.5-75 J45 ● SSG2.5-75 J50	m2.5	75	S1	25	90	187.5	192.5	25	18	43	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
S1K	45	14 x 3.8									
S1K	50	14 x 3.8									
SSG2.5-80 ● SSG2.5-80 J25 ● SSG2.5-80 J28 ● SSG2.5-80 J30 ● SSG2.5-80 J32 ● SSG2.5-80 J35 ● SSG2.5-80 J40 ● SSG2.5-80 J45 ● SSG2.5-80 J50	m2.5	80	S1	25	90	200	205	25	18	43	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
S1K	45	14 x 3.8									
S1K	50	14 x 3.8									

[Caution on Product Characteristics]

- ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
- ② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

[Caution on Secondary Operations]

- ① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.
- ② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).



## Ground Spur Gears



Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—						3.46	<b>SSG2.5-55</b>
M6*	9	262	260	26.8	26.5	0.14~0.24	3.44	● <b>SSG2.5-55 J25</b>
M6*	9						3.40	● <b>SSG2.5-55 J28</b>
M6*	9						3.37	● <b>SSG2.5-55 J30</b>
M8	9						3.33	● <b>SSG2.5-55 J32</b>
M8	9						3.28	● <b>SSG2.5-55 J35</b>
M8	9						3.18	● <b>SSG2.5-55 J40</b>
M10	9						3.06	● <b>SSG2.5-55 J45</b>
—	—						3.57	<b>SSG2.5-56</b>
M6*	9	268	270	27.3	27.5	0.14~0.24	3.54	● <b>SSG2.5-56 J25</b>
M6*	9						3.50	● <b>SSG2.5-56 J28</b>
M6*	9						3.47	● <b>SSG2.5-56 J30</b>
M8	9						3.44	● <b>SSG2.5-56 J32</b>
M8	9						3.38	● <b>SSG2.5-56 J35</b>
M8	9						3.28	● <b>SSG2.5-56 J40</b>
M10	9						3.16	● <b>SSG2.5-56 J45</b>
—	—						4.01	<b>SSG2.5-60</b>
M6*	9	291	311	29.7	31.8	0.14~0.24	3.99	● <b>SSG2.5-60 J25</b>
M6*	9						3.95	● <b>SSG2.5-60 J28</b>
M6*	9						3.92	● <b>SSG2.5-60 J30</b>
M8	9						3.88	● <b>SSG2.5-60 J32</b>
M8	9						3.83	● <b>SSG2.5-60 J35</b>
M8	9						3.73	● <b>SSG2.5-60 J40</b>
M10	9						3.61	● <b>SSG2.5-60 J45</b>
—	—						5.26	<b>SSG2.5-70</b>
M6*	9	324	399	33.1	40.7	0.14~0.24	5.24	● <b>SSG2.5-70 J25</b>
M6*	9						5.20	● <b>SSG2.5-70 J28</b>
M6*	9						5.17	● <b>SSG2.5-70 J30</b>
M8	9						5.13	● <b>SSG2.5-70 J32</b>
M8	9						5.08	● <b>SSG2.5-70 J35</b>
M8	9						4.98	● <b>SSG2.5-70 J40</b>
M10	9						4.86	● <b>SSG2.5-70 J45</b>
—	—						6.15	<b>SSG2.5-75</b>
M6*	9	351	461	35.8	47.0	0.14~0.24	6.13	● <b>SSG2.5-75 J25</b>
M6*	9						6.08	● <b>SSG2.5-75 J28</b>
M6*	9						6.05	● <b>SSG2.5-75 J30</b>
M8*	9						6.01	● <b>SSG2.5-75 J32</b>
M8*	9						5.96	● <b>SSG2.5-75 J35</b>
M8	9						5.87	● <b>SSG2.5-75 J40</b>
M10	9						5.74	● <b>SSG2.5-75 J45</b>
M10	9	5.62	● <b>SSG2.5-75 J50</b>					
—	—						6.90	<b>SSG2.5-80</b>
M6*	9	378	527	38.6	53.7	0.14~0.24	6.87	● <b>SSG2.5-80 J25</b>
M6*	9						6.83	● <b>SSG2.5-80 J28</b>
M6*	9						6.80	● <b>SSG2.5-80 J30</b>
M8*	9						6.76	● <b>SSG2.5-80 J32</b>
M8*	9						6.71	● <b>SSG2.5-80 J35</b>
M8	9						6.61	● <b>SSG2.5-80 J40</b>
M10	9						6.49	● <b>SSG2.5-80 J45</b>
M10	9	6.37	● <b>SSG2.5-80 J50</b>					

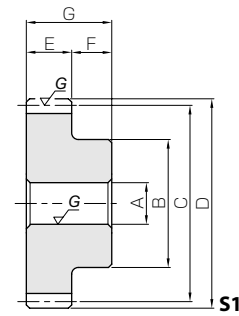
**[Caution on J series]**

- ① As available-on-request products, requires a lead-time for shipping within 3 working-days (excludes the day ordered), after placing an order.  
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- ② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
- ③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.
- ④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "\*" are tap size).
- ⑤ Areas of products which have been re-worked will not be black oxide coated.
- ⑥ For products having a tapped hole, a set screw is included.



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.



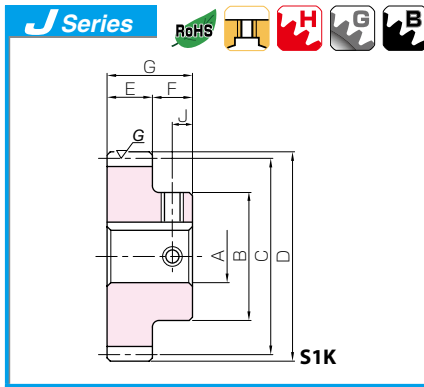
Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A <sub>H7</sub>	B	C	D	E	F	G	Width×Depth
<b>SSG3-14</b> ● <b>SSG3-14 J16</b> ● <b>SSG3-14 J18**</b> ● <b>SSG3-14 J19</b> ● <b>SSG3-14 J20</b>	<b>m3</b>	14	S1	16	34	42	48	30	20	50	—
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1T2	19							—
			S1T2	20							—
<b>SSG3-15</b> ● <b>SSG3-15 J16</b> ● <b>SSG3-15 J18</b> ● <b>SSG3-15 J19</b> ● <b>SSG3-15 J20**</b>	15	15	S1	16	36	45	51	30	20	50	—
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
<b>SSG3-16</b> ● <b>SSG3-16 J16</b> ● <b>SSG3-16 J18</b> ● <b>SSG3-16 J19</b> ● <b>SSG3-16 J20</b> ● <b>SSG3-16 J22</b>	16	16	S1	16	38	48	54	30	20	50	—
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
<b>SSG3-17</b> ● <b>SSG3-17 J16</b> ● <b>SSG3-17 J18</b> ● <b>SSG3-17 J19</b> ● <b>SSG3-17 J20</b> ● <b>SSG3-17 J22</b>	17	17	S1	16	37	51	57	30	20	50	—
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
<b>SSG3-18</b> ● <b>SSG3-18 J16</b> ● <b>SSG3-18 J18</b> ● <b>SSG3-18 J19</b> ● <b>SSG3-18 J20</b> ● <b>SSG3-18 J22</b>	18	18	S1	16	40	54	60	30	20	50	—
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
<b>SSG3-19</b> ● <b>SSG3-19 J16</b> ● <b>SSG3-19 J18</b> ● <b>SSG3-19 J19</b> ● <b>SSG3-19 J20</b> ● <b>SSG3-19 J22</b> ● <b>SSG3-19 J25</b>	19	19	S1	16	45	57	63	30	20	50	—
			S1K	16							5 x 2.3
			S1K	18							6 x 2.8
			S1K	19							6 x 2.8
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
<b>SSG3-20</b> ● <b>SSG3-20 J20</b> ● <b>SSG3-20 J22</b> ● <b>SSG3-20 J25</b> ● <b>SSG3-20 J28</b> ● <b>SSG3-20 J30</b>	20	20	S1	20	50	60	66	30	20	50	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
<b>SSG3-21</b> ● <b>SSG3-21 J20</b> ● <b>SSG3-21 J22</b> ● <b>SSG3-21 J25</b> ● <b>SSG3-21 J28</b> ● <b>SSG3-21 J30</b>	21	21	S1	20	52	63	69	30	20	50	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3

[Caution on Product Characteristics]

- ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
- ② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

[Caution on Secondary Operations]

- ① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.
- ② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).



## Ground Spur Gears



Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—							<b>SSG3-14</b>
M4	10						0.39	● <b>SSG3-14 J16</b>
M5	10	74.1	26.1	7.55	2.66	0.10~0.20	0.38	● <b>SSG3-14 J18**</b>
M5	10						0.36	● <b>SSG3-14 J19</b>
M5	10						0.35	● <b>SSG3-14 J20</b>
M5	10						0.34	
—	—							<b>SSG3-15</b>
M4	10						0.46	● <b>SSG3-15 J16</b>
M5	10	83.1	30.5	8.48	3.11	0.10~0.20	0.45	● <b>SSG3-15 J18</b>
M5	10						0.43	● <b>SSG3-15 J19</b>
M5	10						0.42	● <b>SSG3-15 J20**</b>
M5	10						0.40	
—	—							<b>SSG3-16</b>
M4	10						0.53	● <b>SSG3-16 J16</b>
M5	10	92.1	35.2	9.39	3.59	0.10~0.20	0.52	● <b>SSG3-16 J18</b>
M5	10						0.50	● <b>SSG3-16 J19</b>
M5	10						0.48	● <b>SSG3-16 J20</b>
M5	10						0.47	● <b>SSG3-16 J22</b>
M5	10						0.45	
—	—							<b>SSG3-17</b>
M4	10						0.57	● <b>SSG3-17 J16</b>
M5	10	101	40.3	10.3	4.11	0.12~0.22	0.57	● <b>SSG3-17 J18</b>
M5	10						0.54	● <b>SSG3-17 J19</b>
M5	10						0.53	● <b>SSG3-17 J20</b>
M5	10						0.52	● <b>SSG3-17 J22</b>
M5	10						0.49	
—	—							<b>SSG3-18</b>
M4	10						0.66	● <b>SSG3-18 J16</b>
M5	10	110	45.8	11.3	4.67	0.12~0.22	0.65	● <b>SSG3-18 J18</b>
M5	10						0.63	● <b>SSG3-18 J19</b>
M5	10						0.62	● <b>SSG3-18 J20</b>
M5	10						0.61	● <b>SSG3-18 J22</b>
M5	10						0.58	
—	—							<b>SSG3-19</b>
M4*	10						0.77	● <b>SSG3-19 J16</b>
M5	10	120	51.6	12.2	5.26	0.12~0.22	0.76	● <b>SSG3-19 J18</b>
M5	10						0.74	● <b>SSG3-19 J19</b>
M5	10						0.73	● <b>SSG3-19 J20</b>
M5	10						0.72	● <b>SSG3-19 J22</b>
M5	10						0.69	● <b>SSG3-19 J25</b>
M6	10						0.65	
—	—							<b>SSG3-20</b>
M5	10						0.85	● <b>SSG3-20 J20</b>
M5	10	129	57.8	13.2	5.90	0.12~0.22	0.84	● <b>SSG3-20 J22</b>
M6	10						0.82	● <b>SSG3-20 J25</b>
M6	10						0.77	● <b>SSG3-20 J28</b>
M6	10						0.72	● <b>SSG3-20 J30</b>
M6	10						0.68	
—	—							<b>SSG3-21</b>
M5	10						0.94	● <b>SSG3-21 J20</b>
M5	10	139	64.4	14.2	6.57	0.12~0.22	0.93	● <b>SSG3-21 J22</b>
M6	10						0.91	● <b>SSG3-21 J25</b>
M6	10						0.86	● <b>SSG3-21 J28</b>
M6	10						0.81	● <b>SSG3-21 J30</b>
M6	10						0.78	

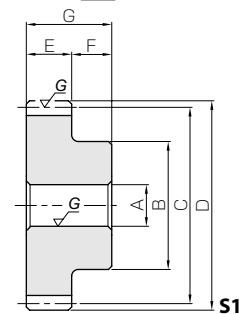
**[Caution on J series]**

- ① As available-on-request products, requires a lead-time for shipping within 3 working-days (excludes the day ordered), after placing an order. Please allow additional shipping time to get to your local distributor.
- ② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
- ③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.
- ④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "\*" are tap size).
- ⑤ Areas of products which have been re-worked will not be black oxide coated.
- ⑥ For products having a tapped hole, a set screw is included.
- ⑦ Products marked with "\*\*\*" have a small amount of material between the corner of the keyway and the tooth root. This mode of failure must be considered when selecting these gears. For details, please see our web site.



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.



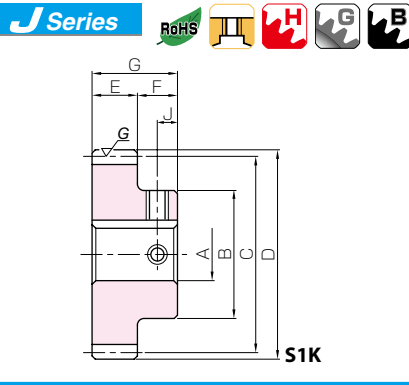
Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A <sub>H7</sub>	B	C	D	E	F	G	Width×Depth
<b>SSG3-22</b> ● <b>SSG3-22 J20</b> ● <b>SSG3-22 J22</b> ● <b>SSG3-22 J25</b> ● <b>SSG3-22 J28</b> ● <b>SSG3-22 J30</b> ● <b>SSG3-22 J32</b>	<b>m3</b>	22	S1	20	54	66	72	30	20	50	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
S1K	32	10 x 3.3									
<b>SSG3-23</b> ● <b>SSG3-23 J20</b> ● <b>SSG3-23 J22</b> ● <b>SSG3-23 J25</b> ● <b>SSG3-23 J28</b> ● <b>SSG3-23 J30</b> ● <b>SSG3-23 J32</b>	<b>m3</b>	23	S1	20	56	69	75	30	20	50	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
S1K	32	10 x 3.3									
<b>SSG3-24</b> ● <b>SSG3-24 J20</b> ● <b>SSG3-24 J22</b> ● <b>SSG3-24 J25</b> ● <b>SSG3-24 J28</b> ● <b>SSG3-24 J30</b> ● <b>SSG3-24 J32</b>	<b>m3</b>	24	S1	20	58	72	78	30	20	50	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
S1K	32	10 x 3.3									
<b>SSG3-25</b> ● <b>SSG3-25 J20</b> ● <b>SSG3-25 J22</b> ● <b>SSG3-25 J25</b> ● <b>SSG3-25 J28</b> ● <b>SSG3-25 J30</b> ● <b>SSG3-25 J32</b> ● <b>SSG3-25 J35</b>	<b>m3</b>	25	S1	20	60	75	81	30	20	50	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
S1K	32	10 x 3.3									
S1K	35	10 x 3.3									
<b>SSG3-26</b> ● <b>SSG3-26 J20</b> ● <b>SSG3-26 J22</b> ● <b>SSG3-26 J25</b> ● <b>SSG3-26 J28</b> ● <b>SSG3-26 J30</b> ● <b>SSG3-26 J32</b> ● <b>SSG3-26 J35</b>	<b>m3</b>	26	S1	20	62	78	84	30	20	50	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
S1K	32	10 x 3.3									
S1K	35	10 x 3.3									
<b>SSG3-27</b> ● <b>SSG3-27 J20</b> ● <b>SSG3-27 J22</b> ● <b>SSG3-27 J25</b> ● <b>SSG3-27 J28</b> ● <b>SSG3-27 J30</b> ● <b>SSG3-27 J32</b> ● <b>SSG3-27 J35</b>	<b>m3</b>	27	S1	20	65	81	87	30	20	50	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
S1K	32	10 x 3.3									
S1K	35	10 x 3.3									
<b>SSG3-28</b> ● <b>SSG3-28 J20</b> ● <b>SSG3-28 J22</b> ● <b>SSG3-28 J25</b> ● <b>SSG3-28 J28</b> ● <b>SSG3-28 J30</b> ● <b>SSG3-28 J32</b> ● <b>SSG3-28 J35</b> ● <b>SSG3-28 J40</b>	<b>m3</b>	28	S1	20	70	84	90	30	20	50	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
S1K	32	10 x 3.3									
S1K	35	10 x 3.3									
S1K	40	12 x 3.3									

[Caution on Product Characteristics]

- ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
- ② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

[Caution on Secondary Operations]

- ① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.
- ② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).



## Ground Spur Gears



Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—						1.04	<b>SSG3-22</b>
M5	10						1.03	● <b>SSG3-22 J20</b>
M5	10						1.01	● <b>SSG3-22 J22</b>
M6	10	149	71.3	15.1	7.28	0.12~0.22	0.96	● <b>SSG3-22 J25</b>
M6	10						0.91	● <b>SSG3-22 J28</b>
M6	10						0.87	● <b>SSG3-22 J30</b>
M8	10						0.83	● <b>SSG3-22 J32</b>
—	—						1.14	<b>SSG3-23</b>
M5*	10						1.13	● <b>SSG3-23 J20</b>
M5	10						1.11	● <b>SSG3-23 J22</b>
M6	10	158	78.7	16.1	8.02	0.12~0.22	1.06	● <b>SSG3-23 J25</b>
M6	10						1.01	● <b>SSG3-23 J28</b>
M6	10						0.98	● <b>SSG3-23 J30</b>
M8	10						0.93	● <b>SSG3-23 J32</b>
—	—						1.25	<b>SSG3-24</b>
M5*	10						1.21	● <b>SSG3-24 J20</b>
M5	10						1.19	● <b>SSG3-24 J22</b>
M6	10	168	86.4	17.1	8.81	0.12~0.22	1.14	● <b>SSG3-24 J25</b>
M6	10						1.09	● <b>SSG3-24 J28</b>
M6	10						1.05	● <b>SSG3-24 J30</b>
M8	10						1.01	● <b>SSG3-24 J32</b>
—	—						1.36	<b>SSG3-25</b>
M5*	10						1.35	● <b>SSG3-25 J20</b>
M5*	10						1.32	● <b>SSG3-25 J22</b>
M6	10	178	94.5	18.1	9.64	0.12~0.22	1.28	● <b>SSG3-25 J25</b>
M6	10						1.23	● <b>SSG3-25 J28</b>
M6	10						1.19	● <b>SSG3-25 J30</b>
M8	10						1.15	● <b>SSG3-25 J32</b>
M8	10						1.09	● <b>SSG3-25 J35</b>
—	—						1.48	<b>SSG3-26</b>
M5*	10						1.46	● <b>SSG3-26 J20</b>
M5*	10						1.44	● <b>SSG3-26 J22</b>
M6	10	188	103	19.2	10.5	0.12~0.22	1.39	● <b>SSG3-26 J25</b>
M6	10						1.34	● <b>SSG3-26 J28</b>
M6	10						1.31	● <b>SSG3-26 J30</b>
M8	10						1.26	● <b>SSG3-26 J32</b>
M8	10						1.20	● <b>SSG3-26 J35</b>
—	—						1.61	<b>SSG3-27</b>
M5*	10						1.60	● <b>SSG3-27 J20</b>
M5*	10						1.57	● <b>SSG3-27 J22</b>
M6	10	198	111	20.2	11.3	0.12~0.22	1.53	● <b>SSG3-27 J25</b>
M6	10						1.48	● <b>SSG3-27 J28</b>
M6	10						1.44	● <b>SSG3-27 J30</b>
M8	10						1.40	● <b>SSG3-27 J32</b>
M8	10						1.34	● <b>SSG3-27 J35</b>
—	—						1.79	<b>SSG3-28</b>
M5*	10						1.77	● <b>SSG3-28 J20</b>
M5*	10						1.74	● <b>SSG3-28 J22</b>
M6*	10	208	120	21.2	12.2	0.12~0.22	1.70	● <b>SSG3-28 J25</b>
M6*	10						1.65	● <b>SSG3-28 J28</b>
M6	10						1.62	● <b>SSG3-28 J30</b>
M8	10						1.57	● <b>SSG3-28 J32</b>
M8	10						1.51	● <b>SSG3-28 J35</b>
M8	10						1.39	● <b>SSG3-28 J40</b>

**[Caution on J series]**

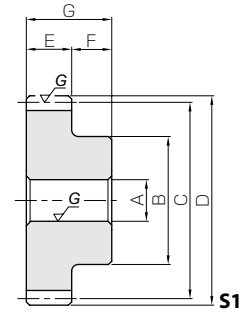
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- ② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
- ③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.
- ④ Certain products which would otherwise have a very long tapped hole are conbored to reduce the length of the tap. (Products marked with "\*" are tap size).
- ⑤ Areas of products which have been re-worked will not be black oxide coated.
- ⑥ For products having a tapped hole, a set screw is included.

For updated information, please see KHK Web Catalog.



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.



Spur Gears

Helical Gears

Internal Gears

Racks

CP Racks & Pinions

Miter Gears

Bevel Gears

Screw Gears

Worm Gear Pair

Bevel Gearboxes

Other Products

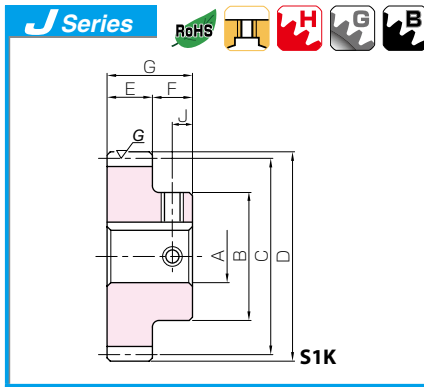
Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A <sub>H7</sub>	B	C	D	E	F	G	Width×Depth
SSG3-29 ● SSG3-29 J20 ● SSG3-29 J22 ● SSG3-29 J25 ● SSG3-29 J28 ● SSG3-29 J30 ● SSG3-29 J32 ● SSG3-29 J35 ● SSG3-29 J40	m3	29	S1	20	70	87	93	30	20	50	—
			S1K	20							6 x 2.8
			S1K	22							6 x 2.8
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
S1K	40	12 x 3.3									
SSG3-30 ● SSG3-30 J25 ● SSG3-30 J28 ● SSG3-30 J30 ● SSG3-30 J32 ● SSG3-30 J35 ● SSG3-30 J40 ● SSG3-30 J45	m3	30	S1	25	75	90	96	30	20	50	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
			S1K	45							14 x 3.8
SSG3-32 ● SSG3-32 J25 ● SSG3-32 J28 ● SSG3-32 J30 ● SSG3-32 J32 ● SSG3-32 J35 ● SSG3-32 J40 ● SSG3-32 J45	m3	32	S1	25	75	96	102	30	20	50	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
			S1K	45							14 x 3.8
SSG3-34 ● SSG3-34 J25 ● SSG3-34 J28 ● SSG3-34 J30 ● SSG3-34 J32 ● SSG3-34 J35 ● SSG3-34 J40 ● SSG3-34 J45	m3	34	S1	25	75	102	108	30	20	50	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
			S1K	45							14 x 3.8
SSG3-35 ● SSG3-35 J25 ● SSG3-35 J28 ● SSG3-35 J30 ● SSG3-35 J32 ● SSG3-35 J35 ● SSG3-35 J40 ● SSG3-35 J45	m3	35	S1	25	80	105	111	30	20	50	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
			S1K	45							14 x 3.8
SSG3-36 ● SSG3-36 J25 ● SSG3-36 J28 ● SSG3-36 J30 ● SSG3-36 J32 ● SSG3-36 J35 ● SSG3-36 J40 ● SSG3-36 J45	m3	36	S1	25	80	108	114	30	20	50	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3v
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
			S1K	45							14 x 3.8

[Caution on Product Characteristics]

- ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
- ② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

[Caution on Secondary Operations]

- ① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.
- ② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).



## Ground Spur Gears



Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—						1.88	<b>SSG3-29</b>
M5*	10						1.86	● <b>SSG3-29 J20</b>
M5*	10						1.84	● <b>SSG3-29 J22</b>
M6*	10						1.79	● <b>SSG3-29 J25</b>
M6*	10	218	129	22.2	13.2	0.12~0.22	1.74	● <b>SSG3-29 J28</b>
M6	10						1.71	● <b>SSG3-29 J30</b>
M8	10						1.67	● <b>SSG3-29 J32</b>
M8	10						1.60	● <b>SSG3-29 J35</b>
M8	10						1.49	● <b>SSG3-29 J40</b>
—	—						2.00	<b>SSG3-30</b>
M6*	10						1.98	● <b>SSG3-30 J25</b>
M6*	10						1.93	● <b>SSG3-30 J28</b>
M6*	10	228	138	23.3	14.1	0.12~0.22	1.90	● <b>SSG3-30 J30</b>
M8	10						1.85	● <b>SSG3-30 J32</b>
M8	10						1.79	● <b>SSG3-30 J35</b>
M8	10						1.68	● <b>SSG3-30 J40</b>
M10	10						1.54	● <b>SSG3-30 J45</b>
—	—						2.21	<b>SSG3-32</b>
M6*	10						2.18	● <b>SSG3-32 J25</b>
M6*	10						2.14	● <b>SSG3-32 J28</b>
M6*	10	229	146	23.4	14.9	0.12~0.22	2.10	● <b>SSG3-32 J30</b>
M8	10						2.06	● <b>SSG3-32 J32</b>
M8	10						2.00	● <b>SSG3-32 J35</b>
M8	10						1.88	● <b>SSG3-32 J40</b>
M10	10						1.74	● <b>SSG3-32 J45</b>
—	—						2.43	<b>SSG3-34</b>
M6*	10						2.40	● <b>SSG3-34 J25</b>
M6*	10						2.36	● <b>SSG3-34 J28</b>
M6*	10	248	166	25.3	17.0	0.14~0.24	2.32	● <b>SSG3-34 J30</b>
M8	10						2.28	● <b>SSG3-34 J32</b>
M8	10						2.22	● <b>SSG3-34 J35</b>
M8	10						2.10	● <b>SSG3-34 J40</b>
M10	10						1.96	● <b>SSG3-34 J45</b>
—	—						2.64	<b>SSG3-35</b>
M6*	10						2.61	● <b>SSG3-35 J25</b>
M6*	10						2.56	● <b>SSG3-35 J28</b>
M6*	10	258	177	26.3	18.0	0.14~0.24	2.53	● <b>SSG3-35 J30</b>
M8	10						2.49	● <b>SSG3-35 J32</b>
M8	10						2.43	● <b>SSG3-35 J35</b>
M8	10						2.31	● <b>SSG3-35 J40</b>
M10	10						2.17	● <b>SSG3-35 J45</b>
—	—						2.75	<b>SSG3-36</b>
M6*	10						2.73	● <b>SSG3-36 J25</b>
M6*	10						2.68	● <b>SSG3-36 J28</b>
M6*	10	268	188	27.3	19.1	0.14~0.24	2.65	● <b>SSG3-36 J30</b>
M8	10						2.61	● <b>SSG3-36 J32</b>
M8	10						2.54	● <b>SSG3-36 J35</b>
M8	10						2.43	● <b>SSG3-36 J40</b>
M10	10						2.29	● <b>SSG3-36 J45</b>

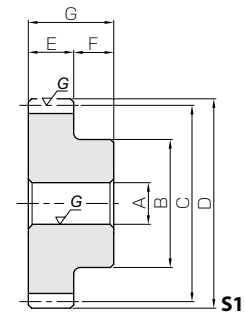
**[Caution on J series]**

- ① As available-on-request products, requires a lead-time for shipping within 3 working-days (excludes the day ordered), after placing an order.  
Please allow additional shipping time to get to your local distributor.
- ② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
- ③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.
- ④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "\*" are tap size).
- ⑤ Areas of products which have been re-worked will not be black oxide coated.
- ⑥ For products having a tapped hole, a set screw is included.



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.



- Spur Gears
- Helical Gears
- Internal Gears
- Racks
- CP Racks & Pinions
- Miter Gears
- Bevel Gears
- Screw Gears
- Worm Gear Pair
- Bevel Gearboxes
- Other Products

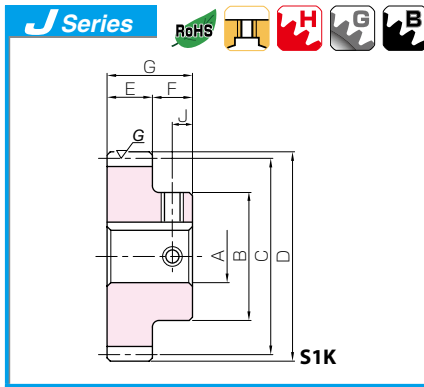
Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A <sub>H7</sub>	B	C	D	E	F	G	Width×Depth
SSG3-38 ● SSG3-38 J25 ● SSG3-38 J28 ● SSG3-38 J30 ● SSG3-38 J32 ● SSG3-38 J35 ● SSG3-38 J40 ● SSG3-38 J45	m3	38	S1	25	80	114	120	30	20	50	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
S1K	45	14 x 3.8									
SSG3-40 ● SSG3-40 J25 ● SSG3-40 J28 ● SSG3-40 J30 ● SSG3-40 J32 ● SSG3-40 J35 ● SSG3-40 J40 ● SSG3-40 J45	m3	40	S1	25	80	120	126	30	20	50	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
S1K	45	14 x 3.8									
SSG3-42 ● SSG3-42 J25 ● SSG3-42 J28 ● SSG3-42 J30 ● SSG3-42 J32 ● SSG3-42 J35 ● SSG3-42 J40 ● SSG3-42 J45	m3	42	S1	25	80	126	132	30	20	50	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
S1K	45	14 x 3.8									
SSG3-44 ● SSG3-44 J25 ● SSG3-44 J28 ● SSG3-44 J30 ● SSG3-44 J32 ● SSG3-44 J35 ● SSG3-44 J40 ● SSG3-44 J45	m3	44	S1	25	80	132	138	30	20	50	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
S1K	45	14 x 3.8									
SSG3-45 ● SSG3-45 J25 ● SSG3-45 J28 ● SSG3-45 J30 ● SSG3-45 J32 ● SSG3-45 J35 ● SSG3-45 J40 ● SSG3-45 J45	m3	45	S1	25	80	135	141	30	20	50	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
S1K	45	14 x 3.8									
SSG3-48 ● SSG3-48 J25 ● SSG3-48 J28 ● SSG3-48 J30 ● SSG3-48 J32 ● SSG3-48 J35 ● SSG3-48 J40 ● SSG3-48 J45 ● SSG3-48 J50	m3	48	S1	25	85	144	150	30	20	50	—
			S1K	25							8 x 3.3
			S1K	28							8 x 3.3
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
S1K	45	14 x 3.8									
S1K	50	14 x 3.8									

[Caution on Product Characteristics]

- ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
- ② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

[Caution on Secondary Operations]

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- ② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).



## Ground Spur Gears



Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—	287	210	29.2	21.4	0.14~0.24	3.00	<b>SSG3-38</b>
M6*	10							● <b>SSG3-38 J25</b>
M6*	10							● <b>SSG3-38 J28</b>
M6*	10							● <b>SSG3-38 J30</b>
M8	10							● <b>SSG3-38 J32</b>
M8	10							● <b>SSG3-38 J35</b>
M8	10							● <b>SSG3-38 J40</b>
M10	10	● <b>SSG3-38 J45</b>						
—	—	306	234	31.2	23.9	0.14~0.24	3.26	<b>SSG3-40</b>
M6*	10							● <b>SSG3-40 J25</b>
M6*	10							● <b>SSG3-40 J28</b>
M6*	10							● <b>SSG3-40 J30</b>
M8	10							● <b>SSG3-40 J32</b>
M8	10							● <b>SSG3-40 J35</b>
M8	10							● <b>SSG3-40 J40</b>
M10	10	● <b>SSG3-40 J45</b>						
—	—	326	260	33.2	26.5	0.14~0.24	3.53	<b>SSG3-42</b>
M6*	10							● <b>SSG3-42 J25</b>
M6*	10							● <b>SSG3-42 J28</b>
M6*	10							● <b>SSG3-42 J30</b>
M8	10							● <b>SSG3-42 J32</b>
M8	10							● <b>SSG3-42 J35</b>
M8	10							● <b>SSG3-42 J40</b>
M10	10	● <b>SSG3-42 J45</b>						
—	—	345	286	35.2	29.2	0.14~0.24	3.82	<b>SSG3-44</b>
M6*	10							● <b>SSG3-44 J25</b>
M6*	10							● <b>SSG3-44 J28</b>
M6*	10							● <b>SSG3-44 J30</b>
M8	10							● <b>SSG3-44 J32</b>
M8	10							● <b>SSG3-44 J35</b>
M8	10							● <b>SSG3-44 J40</b>
M10	10	● <b>SSG3-44 J45</b>						
—	—	355	300	36.2	30.6	0.14~0.24	3.97	<b>SSG3-45</b>
M6*	10							● <b>SSG3-45 J25</b>
M6*	10							● <b>SSG3-45 J28</b>
M6*	10							● <b>SSG3-45 J30</b>
M8	10							● <b>SSG3-45 J32</b>
M8	10							● <b>SSG3-45 J35</b>
M8	10							● <b>SSG3-45 J40</b>
M10	10	● <b>SSG3-45 J45</b>						
—	—	384	343	39.2	35.0	0.14~0.24	4.53	<b>SSG3-48</b>
M6*	10							● <b>SSG3-48 J25</b>
M6*	10							● <b>SSG3-48 J28</b>
M6*	10							● <b>SSG3-48 J30</b>
M8*	10							● <b>SSG3-48 J32</b>
M8	10							● <b>SSG3-48 J35</b>
M8	10							● <b>SSG3-48 J40</b>
M10	10	● <b>SSG3-48 J45</b>						
M10	10	● <b>SSG3-48 J50</b>						

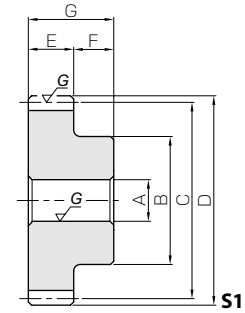
**[Caution on J series]**

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- ② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
- ③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.
- ④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "\*" are tap size).
- ⑤ Areas of products which have been re-worked will not be black oxide coated.
- ⑥ For products having a tapped hole, a set screw is included.



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) * JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC

\* The precision grade of J Series products is equivalent to the value shown in the table.



- Spur Gears
- Helical Gears
- Internal Gears
- Racks
- CP Racks & Pinions
- Miter Gears
- Bevel Gears
- Screw Gears
- Worm Gear Pair
- Bevel Gearboxes
- Other Products

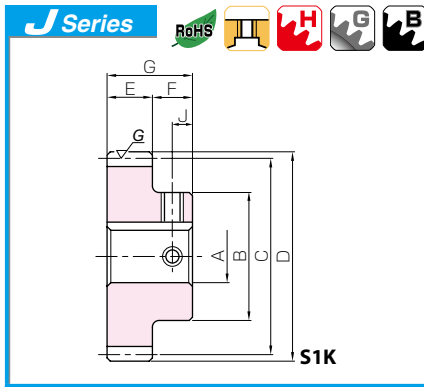
Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A <sub>H7</sub>	B	C	D	E	F	G	Width×Depth
SSG3-50 ● SSG3-50 J30 ● SSG3-50 J32 ● SSG3-50 J35 ● SSG3-50 J40 ● SSG3-50 J45 ● SSG3-50 J50	m3	50	S1	30	85	150	156	30	20	50	—
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
			S1K	45							14 x 3.8
S1K	50	14 x 3.8									
SSG3-55 ● SSG3-55 J30 ● SSG3-55 J32 ● SSG3-55 J35 ● SSG3-55 J40 ● SSG3-55 J45 ● SSG3-55 J50	m3	55	S1	30	90	165	171	30	20	50	—
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
			S1K	45							14 x 3.8
S1K	50	14 x 3.8									
SSG3-56 ● SSG3-56 J30 ● SSG3-56 J32 ● SSG3-56 J35 ● SSG3-56 J40 ● SSG3-56 J45 ● SSG3-56 J50	m3	56	S1	30	90	168	174	30	20	50	—
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
			S1K	45							14 x 3.8
S1K	50	14 x 3.8									
SSG3-60 ● SSG3-60 J30 ● SSG3-60 J32 ● SSG3-60 J35 ● SSG3-60 J40 ● SSG3-60 J45 ● SSG3-60 J50	m3	60	S1	30	100	180	186	30	20	50	—
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
			S1K	45							14 x 3.8
S1K	50	14 x 3.8									
SSG3-70 ● SSG3-70 J30 ● SSG3-70 J32 ● SSG3-70 J35 ● SSG3-70 J40 ● SSG3-70 J45 ● SSG3-70 J50	m3	70	S1	30	100	210	216	30	20	50	—
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
			S1K	45							14 x 3.8
S1K	50	14 x 3.8									
SSG3-75 ● SSG3-75 J30 ● SSG3-75 J32 ● SSG3-75 J35 ● SSG3-75 J40 ● SSG3-75 J45 ● SSG3-75 J50	m3	75	S1	30	100	225	231	30	20	50	—
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
			S1K	45							14 x 3.8
S1K	50	14 x 3.8									
SSG3-80 ● SSG3-80 J30 ● SSG3-80 J32 ● SSG3-80 J35 ● SSG3-80 J40 ● SSG3-80 J45 ● SSG3-80 J50	m3	80	S1	30	100	240	246	30	20	50	—
			S1K	30							8 x 3.3
			S1K	32							10 x 3.3
			S1K	35							10 x 3.3
			S1K	40							12 x 3.3
			S1K	45							14 x 3.8
S1K	50	14 x 3.8									

[Caution on Product Characteristics]

- ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
- ② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

[Caution on Secondary Operations]

- ① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.
- ② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).



## Ground Spur Gears



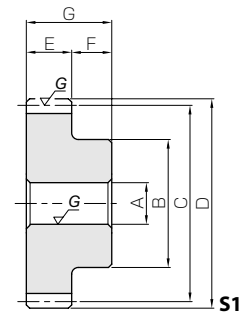
Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No. ● : J Series (Available-on-request)
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—						4.78	<b>SSG3-50</b>
M6*	10						4.75	● <b>SSG3-50 J30</b>
M8*	10						4.71	● <b>SSG3-50 J32</b>
M8	10	404	374	41.2	38.1	0.14~0.24	4.65	● <b>SSG3-50 J35</b>
M8	10						4.53	● <b>SSG3-50 J40</b>
M10	10						4.39	● <b>SSG3-50 J45</b>
M10	10						4.25	● <b>SSG3-50 J50</b>
—	—						5.76	<b>SSG3-55</b>
M6*	10						5.73	● <b>SSG3-55 J30</b>
M8*	10						5.68	● <b>SSG3-55 J32</b>
M8*	10	421	423	42.9	43.2	0.14~0.24	5.62	● <b>SSG3-55 J35</b>
M8	10						5.51	● <b>SSG3-55 J40</b>
M10	10						5.37	● <b>SSG3-55 J45</b>
M10	10						5.23	● <b>SSG3-55 J50</b>
—	—						5.94	<b>SSG3-56</b>
M6*	10						5.92	● <b>SSG3-56 J30</b>
M8*	10						5.87	● <b>SSG3-56 J32</b>
M8*	10	430	439	43.9	44.8	0.14~0.24	5.81	● <b>SSG3-56 J35</b>
M8	10						5.70	● <b>SSG3-56 J40</b>
M10	10						5.56	● <b>SSG3-56 J45</b>
M10	10						5.41	● <b>SSG3-56 J50</b>
—	—						6.95	<b>SSG3-60</b>
M6*	10						6.92	● <b>SSG3-60 J30</b>
M8*	10						6.87	● <b>SSG3-60 J32</b>
M8*	10	467	508	47.6	51.8	0.14~0.24	6.81	● <b>SSG3-60 J35</b>
M8*	10						6.69	● <b>SSG3-60 J40</b>
M10	10						6.56	● <b>SSG3-60 J45</b>
M10	10						6.41	● <b>SSG3-60 J50</b>
—	—						9.11	<b>SSG3-70</b>
M6*	10						9.08	● <b>SSG3-70 J30</b>
M8*	10						9.03	● <b>SSG3-70 J32</b>
M8*	10	560	699	57.1	71.3	0.14~0.24	8.97	● <b>SSG3-70 J35</b>
M8*	10						8.86	● <b>SSG3-70 J40</b>
M10	10						8.72	● <b>SSG3-70 J45</b>
M10	10						8.58	● <b>SSG3-70 J50</b>
—	—						10.3	<b>SSG3-75</b>
M6*	10						10.3	● <b>SSG3-75 J30</b>
M8*	10						10.2	● <b>SSG3-75 J32</b>
M8*	10	607	806	61.9	82.2	0.14~0.24	10.2	● <b>SSG3-75 J35</b>
M8*	10						10.1	● <b>SSG3-75 J40</b>
M10	10						9.93	● <b>SSG3-75 J45</b>
M10	10						9.78	● <b>SSG3-75 J50</b>
—	—						11.6	<b>SSG3-80</b>
M6*	10						11.6	● <b>SSG3-80 J30</b>
M8*	10						11.5	● <b>SSG3-80 J32</b>
M8*	10	654	921	66.7	93.9	0.14~0.24	11.5	● <b>SSG3-80 J35</b>
M8*	10						11.4	● <b>SSG3-80 J40</b>
M10	10						11.2	● <b>SSG3-80 J45</b>
M10	10						11.1	● <b>SSG3-80 J50</b>

**[Caution on J series]**

- ① As available-on-request products, requires a lead-time for shipping within **3 working-days (excludes the day ordered), after placing an order.**  
Please allow additional shipping time to get to your local distributor.
- ② Number of products we can process for one order is **1 to 20 units.** For quantities of 21 or more pieces, we need to quote price and lead time.
- ③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.
- ④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "\*" are tap size).
- ⑤ Areas of products which have been re-worked will not be black oxide coated.
- ⑥ For products having a tapped hole, a set screw is included.



Specifications	
Precision grade	JIS grade N7 (JIS B1702-1: 1998) JIS grade 3 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Tooth surface induction hardened
Tooth hardness	45 ~ 55HRC



Catalog No.	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length
				A <sub>H7</sub>	B	C	D	E	F	G
<b>SSG4-14</b>	<b>m4</b>	14	S1	20	40	56	64	40	25	65
<b>SSG4-15</b>		15	S1	20	45	60	68	40	25	65
<b>SSG4-16</b>		16	S1	20	50	64	72	40	25	65
<b>SSG4-18</b>		18	S1	20	60	72	80	40	25	65
<b>SSG4-20</b>		20	S1	20	65	80	88	40	25	65
<b>SSG4-22</b>		22	S1	20	70	88	96	40	25	65
<b>SSG4-24</b>		24	S1	20	75	96	104	40	25	65
<b>SSG4-25</b>		25	S1	20	80	100	108	40	25	65
<b>SSG4-28</b>		28	S1	20	85	112	120	40	25	65
<b>SSG4-30</b>		30	S1	20	90	120	128	40	25	65
<b>SSG4-32</b>		32	S1	25	90	128	136	40	25	65
<b>SSG4-35</b>		35	S1	25	90	140	148	40	25	65
<b>SSG4-36</b>		36	S1	25	90	144	152	40	25	65
<b>SSG4-40</b>		40	S1	25	90	160	168	40	25	65
<b>SSG4-42</b>		42	S1	25	90	168	176	40	25	65
<b>SSG4-44</b>		44	S1	30	90	176	184	40	25	65
<b>SSG4-45</b>		45	S1	30	90	180	188	40	25	65
<b>SSG4-48</b>		48	S1	30	100	192	200	40	25	65
<b>SSG4-50</b>		50	S1	30	100	200	208	40	25	65
<b>SSG4-55</b>		55	S1	30	100	220	228	40	25	65
<b>SSG4-56</b>	56	S1	30	110	224	232	40	25	65	
<b>SSG4-60</b>	60	S1	30	110	240	248	40	25	65	
<b>SSG5-20</b>	<b>m5</b>	20	S1	25	82	100	110	50	25	75
<b>SSG5-25</b>		25	S1	25	105	125	135	50	25	75
<b>SSG5-30</b>		30	S1	25	120	150	160	50	25	75
<b>SSG6-20</b>	<b>m6</b>	20	S1	25	100	120	132	60	28	88
<b>SSG6-25</b>		25	S1	30	125	150	162	60	28	88
<b>SSG6-30</b>		30	S1	30	150	180	192	60	28	88

[Caution on Product Characteristics]

- ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
- ② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)	Catalog No.
Bending strength	Surface durability	Bending strength	Surface durability			
176	63.4	17.9	6.47	0.14~0.24	0.86	<b>SSG4-14</b>
197	74.1	20.1	7.55	0.14~0.24	1.04	<b>SSG4-15</b>
218	85.6	22.3	8.73	0.14~0.24	1.24	<b>SSG4-16</b>
262	111	26.7	11.4	0.14~0.24	1.67	<b>SSG4-18</b>
307	141	31.3	14.3	0.14~0.24	2.07	<b>SSG4-20</b>
352	174	35.9	17.7	0.14~0.24	2.50	<b>SSG4-22</b>
368	194	37.5	19.8	0.14~0.24	2.98	<b>SSG4-24</b>
389	213	39.7	21.7	0.14~0.24	3.29	<b>SSG4-25</b>
455	270	46.4	27.5	0.16~0.26	4.05	<b>SSG4-28</b>
499	313	50.9	31.9	0.16~0.26	4.64	<b>SSG4-30</b>
544	358	55.5	36.5	0.16~0.26	5.04	<b>SSG4-32</b>
612	432	62.4	44.0	0.16~0.26	5.83	<b>SSG4-35</b>
634	458	64.7	46.7	0.16~0.26	6.11	<b>SSG4-36</b>
674	529	68.7	54.0	0.16~0.26	7.31	<b>SSG4-40</b>
717	586	73.1	59.7	0.16~0.26	7.96	<b>SSG4-42</b>
760	646	77.5	65.8	0.16~0.26	8.53	<b>SSG4-44</b>
781	677	79.6	69.0	0.16~0.26	8.88	<b>SSG4-45</b>
846	774	86.3	79.0	0.16~0.26	10.3	<b>SSG4-48</b>
889	842	90.7	85.9	0.16~0.26	11.0	<b>SSG4-50</b>
998	1030	102	105	0.16~0.26	13.1	<b>SSG4-55</b>
1020	1060	104	109	0.16~0.26	13.9	<b>SSG4-56</b>
1110	1230	113	125	0.16~0.26	15.7	<b>SSG4-60</b>
553	259	56.4	26.5	0.14~0.26	3.83	<b>SSG5-20</b>
760	426	77.5	43.4	0.18~0.30	6.23	<b>SSG5-25</b>
975	623	99.4	63.5	0.18~0.30	8.87	<b>SSG5-30</b>
955	457	97.4	46.6	0.18~0.30	6.71	<b>SSG6-20</b>
1310	747	134	76.2	0.18~0.30	10.5	<b>SSG6-25</b>
1560	1020	160	104	0.18~0.30	15.4	<b>SSG6-30</b>

[Caution on Secondary Operations]

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- ② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 1 to 2 mm).



#### ■ Poor tooth contact occurred on SSG3-30 (Approx. 30% of the proper gear contact)

Gear Oil (Equivalent to JIS gear oil category 2 and No. 3)

The design conditions are load torque at 278 rpm, of 42.5 kg/m (12 kW), 1.5 times the allowable bending strength, and 3 times the allowable surface durability torque. The pitting occurs on the poor tooth contact area after only 60 hours of continuous operation.

Spur Gears

Helical Gears

Internal Gears

Racks

CP Racks &amp; Pinions

Miter Gears

Bevel Gears

Screw Gears

Worm Gear Pair

Bevel Gearboxes

Other Products