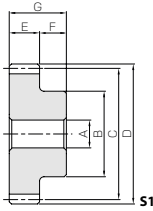




Specifications	
Precision grade	JIS grade N8 (JIS B1702-1:1998) * JIS grade 4 (JIS B1702:1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)

* The precision grade of products with a module of less than 0.8 is equivalent to the value shown in the table.

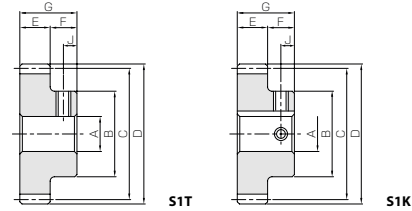


Catalog No.	Module	No. of teeth	Shape	Bore			Outside dia.	Face width	Hub width	Total length	Keyway
				A _{H7}	B	C					
SSY0.8-20 SSY0.8-20A	m0.8	20	S1 S1T	5	13.5	16	17.6	4	8	12	—
SSY0.8-25 SSY0.8-25A		25	S1 S1T	5	17	20	21.6	4	8	12	—
SSY0.8-30 SSY0.8-30A		30	S1 S1T	5	20	24	25.6	4	8	12	—
SSY0.8-40 SSY0.8-40A		40	S1 S1T	5	25	32	33.6	4	8	12	—
SSY0.8-50 SSY0.8-50A		50	S1 S1T	5	25	40	41.6	4	8	12	—
SSY1-12 SSY1-12A	m1	12	S1 S1T	5	9	12	14	6	8	14	—
SSY1-14 SSY1-14A		14	S1 S1T	5	11	14	16	6	8	14	—
SSY1-15 SSY1-15A		15	S1 S1T	6	12	15	17	6	8	14	—
SSY1-16 SSY1-16A		16	S1 S1T	6	13	16	18	6	8	14	—
SSY1-18 SSY1-18A		18	S1 S1T	6	14	18	20	6	8	14	—
SSY1-20 SSY1-20A SSY1-20B		20	S1 S1T S1T	6 6 8	16	20	22	6	8	14	—
SSY1-24 SSY1-24A SSY1-24B		24	S1 S1T S1T	6 6 8	16	24	26	6	8	14	—
SSY1-25 SSY1-25A		25	S1 S1T	6 6	16	25	27	6	8	14	—
SSY1-28 SSY1-28A		28	S1 S1T	6 6	16	28	30	6	8	14	—
SSY1-30 SSY1-30A SSY1-30B		30	S1 S1T S1T	6 6 8	25	30	32	6	8	14	—
SSY1-32 SSY1-32A		32	S1 S1T	6 6	25	32	34	6	8	14	—
SSY1-35 SSY1-35A SSY1-35B		35	S1 S1T S1K	6 8 10	25	35	37	6	8	14	4 x 1.8
SSY1-36 SSY1-36A SSY1-36B		36	S1 S1T S1K	6 8 10	25	36	38	6	8	14	4 x 1.8
SSY1-40 SSY1-40A SSY1-40B		40	S1 S1T S1K	8 8 10	28	40	42	6	8	14	4 x 1.8
SSY1-45 SSY1-45A		45	S1 S1T	8 8	28	45	47	6	8	14	—
SSY1-48 SSY1-48A		48	S1 S1T	8 8	28	48	50	6	8	14	—

① Keyways are made according to JIS B1301 standards and Js9 tolerances. For products with a tapped hole, a set screw is included as an accessory.

② The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 31 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	Size	J	Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)	Catalog No.
			Bending strength	Surface durability	Bending strength	Surface durability			
—	—	—	1.47	0.085	0.15	0.0087	0 ~0.10	0.013	SSY0.8-20 SSY0.8-20A
M4	4	4	2.03	0.134	0.21	0.014	0 ~0.10	0.022 0.022	SSY0.8-25 SSY0.8-25A
—	—	—	2.60	0.197	0.27	0.020	0 ~0.10	0.032 0.031	SSY0.8-30 SSY0.8-30A
M4	4	4	3.77	0.362	0.39	0.037	0 ~0.10	0.054 0.053	SSY0.8-40 SSY0.8-40A
—	—	—	4.98	0.580	0.51	0.059	0 ~0.10	0.068 0.067	SSY0.8-50 SSY0.8-50A
M4	4	4	1.22	0.069	0.12	0.0070	0.08~0.18	0.0072 0.0070	SSY1-12 SSY1-12A
—	—	—	1.98	0.096	0.20	0.010	0.08~0.18	0.011 0.011	SSY1-14 SSY1-14A
M4	4	4	2.22	0.11	0.23	0.011	0.08~0.18	0.012 0.012	SSY1-15 SSY1-15A
—	—	—	2.46	0.13	0.25	0.013	0.08~0.18	0.015 0.014	SSY1-16 SSY1-16A
M4	4	4	2.95	0.16	0.30	0.017	0.08~0.18	0.019 0.018	SSY1-18 SSY1-18A
—	—	—	3.45	0.20	0.35	0.021	0.08~0.18	0.024 0.024 0.021	SSY1-20 SSY1-20A SSY1-20B
M4 M5	4 4	4 4	4.48	0.30	0.46	0.030	0.08~0.18	0.031 0.030 0.028	SSY1-24 SSY1-24A SSY1-24B
—	—	—	4.74	0.32	0.48	0.033	0.08~0.18	0.033 0.032	SSY1-25 SSY1-25A
M4	4	4	5.55	0.41	0.57	0.042	0.08~0.18	0.039 0.038	SSY1-28 SSY1-28A
—	—	—	6.08	0.47	0.62	0.048	0.08~0.18	0.061 0.060 0.057	SSY1-30 SSY1-30A SSY1-30B
M4	4	4	6.63	0.54	0.68	0.055	0.08~0.18	0.066 0.065	SSY1-32 SSY1-32A
—	—	—	7.45	0.66	0.76	0.067	0.08~0.18	0.073 0.069 0.066	SSY1-35 SSY1-35A SSY1-35B
—	—	—	7.73	0.70	0.79	0.071	0.08~0.18	0.076 0.072 0.069	SSY1-36 SSY1-36A SSY1-36B
M5 M4	4 4	4 4	8.84	0.87	0.90	0.089	0.08~0.18	0.092 0.091 0.088	SSY1-40 SSY1-40A SSY1-40B
—	—	—	10.3	1.12	1.05	0.11	0.08~0.18	0.11 0.11	SSY1-45 SSY1-45A
M5	4	4	11.1	1.28	1.13	0.13	0.08~0.18	0.12 0.12	SSY1-48 SSY1-48A

① Please read "Caution on Secondary Operations" (Page 32) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.

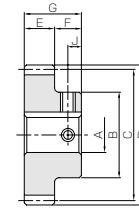
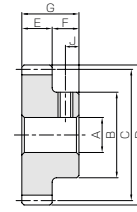
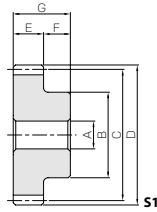
② When performing secondary operations, be aware of deflection and distortion as the tooth is thin in width; deflection might occur if heat treated.

③ Avoid performing secondary operations that narrow the tooth width as it affects precision and strength.

Drawing can be outputted from the Web Catalog as DXF files.



Specifications	
Precision grade	JIS grade N8 (JIS B1702-1:1996) JIS grade 4 (JIS B1702:1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)



Catalog No.	Module	No. of teeth	Shape	Bore			Outside dia.	Face width	Hub width	Total length	Keyway
				A _{H7}	B	C					
SSY1-50 SSY1-50A	m1	50	S1 S1T	8 8	28	50	52	6	8	14	—
SSY1-55 SSY1-55A		55	S1 S1K	8 10	28	55	57	6	8	14	4 x 1.8
SSY1-56 SSY1-56A		56	S1 S1K	8 10	28	56	58	6	8	14	4 x 1.8
SSY1-60 SSY1-60A SSY1-60B		60	S1 S1K S1K	8 10 12	35	60	62	6	8	14	4 x 1.8 4 x 1.8
SSY1-64 SSY1-64A		64	S1 S1K	8 10	35	64	66	6	8	14	4 x 1.8
SSY1-65 SSY1-65A		65	S1 S1K	8 10	35	65	67	6	8	14	4 x 1.8
SSY1-70 SSY1-70A		70	S1 S1K	8 10	35	70	72	6	8	14	4 x 1.8
SSY1-72 SSY1-72A		72	S1 S1K	8 10	35	72	74	6	8	14	4 x 1.8
SSY1-75 SSY1-75A		75	S1 S1K	8 10	35	75	77	6	8	14	4 x 1.8
SSY1-80 SSY1-80A		80	S1 S1K	10 12	40 35	80	82	6	8	14	4 x 1.8
SSY1-85 SSY1-85A		85	S1 S1K	10 12	40 35	85	87	6	8	14	4 x 1.8
SSY1-90 SSY1-90A		90	S1 S1K	10 12	40 35	90	92	6	8	14	4 x 1.8
SSY1-95 SSY1-95A		95	S1 S1K	10 12	40 35	95	97	6	8	14	4 x 1.8
SSY1-96 SSY1-96A		96	S1 S1K	10 12	40 35	96	98	6	8	14	4 x 1.8
SSY1-100 SSY1-100A		100	S1 S1K	10 12	50 35	100	102	6	8	14	4 x 1.8
SSY1-110 SSY1-110A		110	S1 S1K	10 12	50 35	110	112	6	8	14	4 x 1.8
SSY1-120 SSY1-120A		120	S1 S1K	10 12	50 35	120	122	6	8	14	4 x 1.8

- [Caution on Product Characteristics]
- Keyways are made according to JIS B1301 standards and Js9 tolerances. For products with a tapped hole, a set screw is included as an accessory.
 - The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 31 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.

Set Screw	Size	J	Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)	Catalog No.
			Bending strength	Surface durability	Bending strength	Surface durability			
—	M5	4	11.7	1.39	1.19	0.14	0.08~0.18	0.13 0.12	SSY1-50 SSY1-50A
—	M4	4	13.1	1.70	1.34	0.17	0.08~0.18	0.15 0.14	SSY1-55 SSY1-55A
—	M4	4	13.4	1.77	1.37	0.18	0.08~0.18	0.15 0.14	SSY1-56 SSY1-56A
—	M4	4	14.5	2.04	1.48	0.21	0.08~0.18	0.19 0.18 0.18	SSY1-60 SSY1-60A SSY1-60B
—	M4	4	15.7	2.34	1.60	0.24	0.08~0.18	0.21 0.20	SSY1-64 SSY1-64A
—	M4	4	16.0	2.41	1.63	0.25	0.08~0.18	0.21 0.21	SSY1-65 SSY1-65A
—	M4	4	17.4	2.82	1.78	0.29	0.08~0.18	0.24 0.23	SSY1-70 SSY1-70A
—	M4	4	18.0	2.99	1.84	0.30	0.08~0.18	0.25 0.24	SSY1-72 SSY1-72A
—	M4	4	18.9	3.26	1.93	0.33	0.08~0.18	0.26 0.26	SSY1-75 SSY1-75A
—	M4	4	20.3	3.74	2.07	0.38	0.08~0.18	0.31 0.28	SSY1-80 SSY1-80A
—	M4	4	21.8	4.25	2.22	0.43	0.08~0.18	0.34 0.31	SSY1-85 SSY1-85A
—	M4	4	23.3	4.79	2.37	0.49	0.08~0.18	0.37 0.35	SSY1-90 SSY1-90A
—	M4	4	24.7	5.37	2.52	0.55	0.08~0.18	0.40 0.38	SSY1-95 SSY1-95A
—	M4	4	25.0	5.49	2.55	0.56	0.08~0.18	0.41 0.39	SSY1-96 SSY1-96A
—	M4	4	26.2	5.98	2.67	0.61	0.08~0.18	0.48 0.42	SSY1-100 SSY1-100A
—	M4	4	29.1	7.31	2.97	0.75	0.08~0.18	0.56 0.49	SSY1-110 SSY1-110A
—	M4	4	32.1	8.80	3.27	0.90	0.08~0.18	0.65 0.58	SSY1-120 SSY1-120A

- [Caution on Secondary Operations]
- Please read "Caution on Performing Secondary Operations" (Page 32) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.
 - When performing secondary operations, be aware of deflection and distortion as the tooth is thin in width; deflection might occur if heat treated.
 - Avoid performing secondary operations that narrow the tooth width as it affects precision and strength.

* For products not categorized in our KHK Stock Gear series, custom gear production services with **short lead times** is available. For details see Page 8.