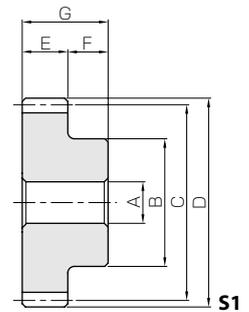
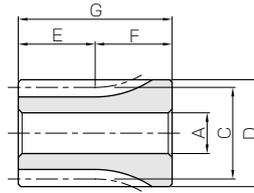




Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998) JIS grade 4 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	less than 194HB



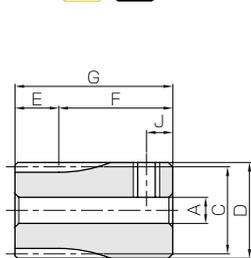
S3

S1

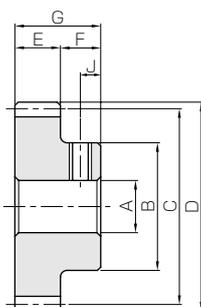
Catalog No.	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A _{H7}	B	C	D	E	F	G	Width×Depth
SS1-15 SS1-15A SS1-15B	m1	15	S3	8	17	15	17	10	20	30	—
S3T			5	—							
S3T			6	—							
SS1-16 SS1-16A SS1-16B		16	S3	8	18	16	18	10	20	30	—
S3T			5	—							
S3T			6	—							
SS1-17 SS1-17A		17	S3	8	19	17	19	10	20	30	—
S3T			8	—							
SS1-18 SS1-18A SS1-18B		18	S3	8	20	18	20	10	20	30	—
S3T			6	—							
S3T			8	—							
SS1-19 SS1-19A		19	S3	8	21	19	21	10	20	30	—
S3T			8	—							
SS1-20 SS1-20A SS1-20B SS1-20C		20	S1	8	16	20	22	10	10	20	—
S1T			5	—							
S1T			6	—							
S1T			8	—							
SS1-21 SS1-21A		21	S1	8	17	21	23	10	10	20	—
S1T			8	—							
SS1-22 SS1-22A		22	S1	8	18	22	24	10	10	20	—
S1T			8	—							
SS1-23 SS1-23A		23	S1	8	18	23	25	10	10	20	—
S1T			8	—							
SS1-24 SS1-24A SS1-24B SS1-24C		24	S1	8	20	24	26	10	10	20	—
S1T			6	—							
S1T			8	—							
S1K			10	4 x 1.8							
SS1-25 SS1-25A SS1-25B SS1-25C		25	S1	8	20	25	27	10	10	20	—
S1T			6	—							
S1T			8	—							
S1K			10	4 x 1.8							
SS1-26 SS1-26A SS1-26B		26	S1	8	22	26	28	10	10	20	—
S1T	8		—								
S1K	10		4 x 1.8								
SS1-27 SS1-27A	27	S1	8	22	27	29	10	10	20	—	
S1T		8	—								
SS1-28 SS1-28A SS1-28B	28	S1	8	22	28	30	10	10	20	—	
S1T		8	—								
S1K		10	4 x 1.8								
SS1-29 SS1-29A	29	S1	8	24	29	31	10	10	20	—	
S1T		8	—								
SS1-30 SS1-30A SS1-30B SS1-30C SS1-30D	30	S1	10	25	30	32	10	10	20	—	
S1T		6	—								
S1T		8	—								
S1K		10	4 x 1.8								
S1K		12	4 x 1.8								
SS1-32 SS1-32A SS1-32B SS1-32C	32	S1	10	26	32	34	10	10	20	—	
S1T		8	—								
S1K		10	4 x 1.8								
S1K		12	4 x 1.8								

[Caution on Product Characteristics]

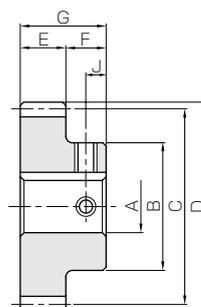
- ① For products with a tapped hole, a set screw is included.
- ② The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
- ③ The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.
- ④ If the bore size is less than $\phi 4$, the tolerance is H8. If the bore size is $\phi 5$ or $\phi 6$, and the hole length exceeds 3 times of the bore size, the tolerance is also H8.



S3T



S1T



S1K

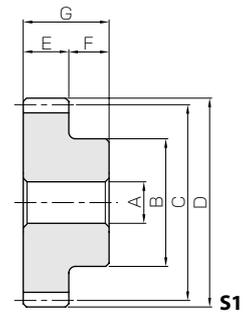
Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No.
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—	—	—	—	—	—	—	—
M4	4	3.69	0.17	0.38	0.018	0.08~0.18	0.038	SS1-15
M4	4	—	—	—	—	—	0.044	SS1-15A
M4	4	—	—	—	—	—	0.042	SS1-15B
M4	4	4.09	0.2	0.42	0.021	0.08~0.18	0.044	SS1-16
M4	4	—	—	—	—	—	0.051	SS1-16A
M4	4	—	—	—	—	—	0.049	SS1-16B
M5	4	4.5	0.23	0.46	0.023	0.08~0.18	0.050	SS1-17
M5	4	—	—	—	—	—	0.050	SS1-17A
M4	4	4.91	0.26	0.5	0.027	0.08~0.18	0.057	SS1-18
M4	4	—	—	—	—	—	0.062	SS1-18A
M5	4	—	—	—	—	—	0.057	SS1-18B
M5	4	5.33	0.29	0.54	0.030	0.08~0.18	0.065	SS1-19
M5	4	—	—	—	—	—	0.064	SS1-19A
M4	5	5.75	0.33	0.59	0.033	0.08~0.18	0.033	SS1-20
M4	5	—	—	—	—	—	0.037	SS1-20A
M4	5	—	—	—	—	—	0.036	SS1-20B
M5	5	—	—	—	—	—	0.032	SS1-20C
M5	5	6.17	0.36	0.63	0.037	0.08~0.18	0.037	SS1-21
M5	5	—	—	—	—	—	0.036	SS1-21A
M5	5	6.6	0.4	0.67	0.041	0.08~0.18	0.042	SS1-22
M5	5	—	—	—	—	—	0.041	SS1-22A
M5	5	7.03	0.45	0.72	0.045	0.08~0.18	0.045	SS1-23
M5	5	—	—	—	—	—	0.044	SS1-23A
M4	5	7.47	0.49	0.76	0.050	0.08~0.18	0.052	SS1-24
M5	5	—	—	—	—	—	0.055	SS1-24A
M4	5	—	—	—	—	—	0.051	SS1-24B
M4	5	—	—	—	—	—	0.046	SS1-24C
M4	5	7.91	0.54	0.81	0.055	0.08~0.18	0.055	SS1-25
M5	5	—	—	—	—	—	0.058	SS1-25A
M4	5	—	—	—	—	—	0.054	SS1-25B
M4	5	—	—	—	—	—	0.049	SS1-25C
M5	5	8.35	0.58	0.85	0.059	0.08~0.18	0.064	SS1-26
M4	5	—	—	—	—	—	0.063	SS1-26A
M4	5	—	—	—	—	—	0.057	SS1-26B
M5	5	8.79	0.63	0.9	0.064	0.08~0.18	0.067	SS1-27
M5	5	—	—	—	—	—	0.066	SS1-27A
M5	5	9.24	0.68	0.94	0.070	0.08~0.18	0.070	SS1-28
M4	5	—	—	—	—	—	0.069	SS1-28A
M4	5	—	—	—	—	—	0.064	SS1-28B
M5	5	9.69	0.73	0.99	0.075	0.08~0.18	0.079	SS1-29
M5	5	—	—	—	—	—	0.078	SS1-29A
M4	5	10.1	0.79	1.03	0.081	0.08~0.18	0.082	SS1-30
M5	5	—	—	—	—	—	0.089	SS1-30A
M4	5	—	—	—	—	—	0.085	SS1-30B
M4	5	—	—	—	—	—	0.080	SS1-30C
M4	5	—	—	—	—	—	0.075	SS1-30D
M5	5	11.1	0.90	1.13	0.092	0.08~0.18	0.092	SS1-32
M4	5	—	—	—	—	—	0.096	SS1-32A
M4	5	—	—	—	—	—	0.091	SS1-32B
M4	5	—	—	—	—	—	0.085	SS1-32C

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



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

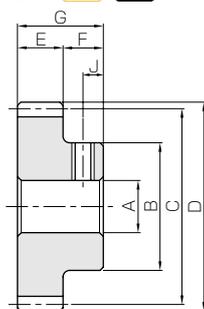


- Spur Gears
- Helical Gears
- Internal Gears
- Racks
- CP Racks & Pinions
- Miter Gears
- Bevel Gears
- Screw Gears
- Worm Gear Pair
- Bevel Gearboxes
- Other Products

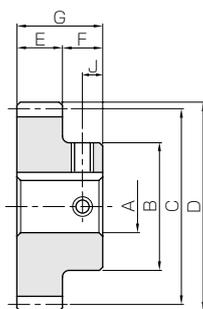
Catalog No.	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				AH7	B	C	D	E	F	G	Width×Depth
SS1-34 SS1-34A	m1	34	S1	10	26	34	36	10	10	20	—
S1K			10	4 x 1.8							
SS1-35 SS1-35A SS1-35B		35	S1	10	26	35	37	10	10	20	—
S1K			10	4 x 1.8							
S1K			12	4 x 1.8							
SS1-36 SS1-36A SS1-36B		36	S1	10	28	36	38	10	10	20	—
S1K			10	4 x 1.8							
S1K			12	4 x 1.8							
SS1-38 SS1-38A		38	S1	10	32	38	40	10	10	20	—
S1K			10	4 x 1.8							
SS1-40 SS1-40A SS1-40B SS1-40C		40	S1	10	35	40	42	10	10	20	—
S1T			8	—							
S1K			10	4 x 1.8							
S1K			12	4 x 1.8							
SS1-42 SS1-42A		42	S1	10	35	42	44	10	10	20	—
S1K			10	4 x 1.8							
SS1-44 SS1-44A		44	S1	10	35	44	46	10	10	20	—
S1K			10	4 x 1.8							
SS1-45 SS1-45A SS1-45B SS1-45C		45	S1	10	35	45	47	10	10	20	—
S1T			8	—							
S1K	10		4 x 1.8								
S1K	12		4 x 1.8								
SS1-46 SS1-46A	46	S1	10	35	46	48	10	10	20	—	
S1K		10	4 x 1.8								
SS1-48 SS1-48A SS1-48B	48	S1	10	35	48	50	10	10	20	—	
S1K		10	4 x 1.8								
S1K		12	4 x 1.8								
SS1-50 SS1-50A SS1-50B SS1-50C	50	S1	10	35	50	52	10	10	20	—	
S1T		8	—								
S1K		10	4 x 1.8								
S1K		12	4 x 1.8								
SS1-52 SS1-52A	52	S1	10	35	52	54	10	10	20	—	
S1K		10	4 x 1.8								
SS1-54 SS1-54A	54	S1	10	35	54	56	10	10	20	—	
S1K		10	4 x 1.8								
SS1-55 SS1-55A	55	S1	10	35	55	57	10	10	20	—	
S1K		10	4 x 1.8								
SS1-56 SS1-56A SS1-56B	56	S1	10	35	56	58	10	10	20	—	
S1K		10	4 x 1.8								
S1K		12	4 x 1.8								
SS1-58 SS1-58A	58	S1	10	35	58	60	10	10	20	—	
S1K		10	4 x 1.8								
SS1-60 SS1-60A SS1-60B SS1-60C	60	S1	10	35	60	62	10	10	20	—	
S1K		10	4 x 1.8								
S1K		12	4 x 1.8								
S1K		15	5 x 2.3								
SS1-62 SS1-62A	62	S1	10	40	62	64	10	10	20	—	
S1K		12	4 x 1.8								
SS1-64 SS1-64A	64	S1	10	40	64	66	10	10	20	—	
S1K		12	4 x 1.8								

[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.



S1T



S1K

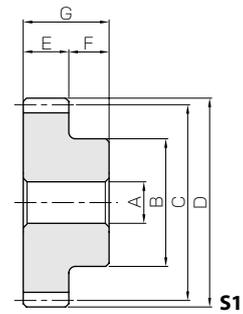
Set Screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No.
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
—	—	12.0	1.03	1.22	0.10	0.08~0.18	0.10	SS1-34 SS1-34A
M4	5						0.099	
—	—	12.4	1.09	1.27	0.11	0.08~0.18	0.10	SS1-35 SS1-35A SS1-35B
M4	5						0.10	
M4	5						0.098	
—	—	12.9	1.16	1.31	0.12	0.08~0.18	0.12	SS1-36 SS1-36A SS1-36B
M4	5						0.11	
M4	5						0.11	
—	—	13.8	1.30	1.41	0.13	0.08~0.18	0.14	SS1-38 SS1-38A
M4	5						0.14	
—	—	14.7	1.45	1.50	0.15	0.08~0.18	0.16	SS1-40 SS1-40A SS1-40B SS1-40C
M5	5						0.16	
M4	5						0.16	
M4	5						0.15	
—	—	15.7	1.61	1.60	0.16	0.08~0.18	0.17	SS1-42 SS1-42A
M4	5						0.17	
—	—	16.6	1.77	1.69	0.18	0.08~0.18	0.18	SS1-44 SS1-44A
M4	5						0.18	
—	—	17.1	1.86	1.74	0.19	0.08~0.18	0.19	SS1-45 SS1-45A SS1-45B SS1-45C
M5	5						0.19	
M4	5						0.19	
M4	5						0.18	
—	—	17.6	1.95	1.79	0.20	0.08~0.18	0.19	SS1-46 SS1-46A
M4	5						0.19	
—	—	18.5	2.13	1.89	0.22	0.08~0.18	0.21	SS1-48 SS1-48A SS1-48B
M4	5						0.20	
M4	5						0.20	
—	—	19.5	2.32	1.98	0.24	0.08~0.18	0.22	SS1-50 SS1-50A SS1-50B SS1-50C
M5	5						0.22	
M4	5						0.21	
M4	5						0.21	
—	—	20.4	2.52	2.08	0.26	0.08~0.18	0.23	SS1-52 SS1-52A
M4	5						0.23	
—	—	21.4	2.73	2.18	0.28	0.08~0.18	0.24	SS1-54 SS1-54A
M4	5						0.24	
—	—	21.8	2.83	2.23	0.29	0.08~0.18	0.25	SS1-55 SS1-55A
M4	5						0.25	
—	—	22.3	2.94	2.28	0.30	0.08~0.18	0.26	SS1-56 SS1-56A SS1-56B
M4	5						0.25	
M4	5						0.25	
—	—	23.3	3.17	2.37	0.32	0.08~0.18	0.27	SS1-58 SS1-58A
M4	5						0.27	
—	—	24.2	3.40	2.47	0.35	0.08~0.18	0.29	SS1-60 SS1-60A SS1-60B SS1-60C
M4	5						0.28	
M4	5						0.28	
M4	5						0.27	
—	—	25.2	3.64	2.57	0.37	0.08~0.18	0.32	SS1-62 SS1-62A
M4	5						0.32	
—	—	26.2	3.89	2.67	0.40	0.08~0.18	0.34	SS1-64 SS1-64A
M4	5						0.33	

[Caution on Secondary Operations]

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- ② Avoid performing secondary operations that narrow the tooth width as it affects precision and strength.



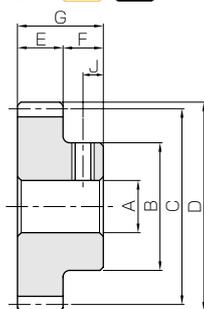
Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998) JIS grade 4 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	less than 194HB



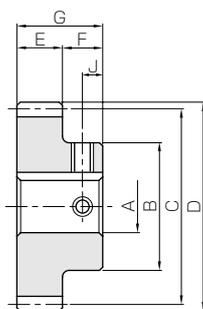
Catalog No.	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Keyway
				A _{H7}	B	C	D	E	F	G	Width×Depth
SS1-65 SS1-65A	m1	65	S1	10	40	65	67	10	10	20	—
S1K			12	4 x 1.8							
SS1-66 SS1-66A		66	S1	10	40	66	68	10	10	20	—
S1K			12	4 x 1.8							
SS1-68 SS1-68A		68	S1	10	40	68	70	10	10	20	—
S1K			12	4 x 1.8							
SS1-70 SS1-70A SS1-70B SS1-70C		70	S1	10	40	70	72	10	10	20	—
S1K			12	4 x 1.8							
S1K			15	5 x 2.3							
S1K			18	6 x 2.8							
SS1-72 SS1-72A SS1-72B SS1-72C		72	S1	10	40	72	74	10	10	20	—
S1K			12	4 x 1.8							
S1K			15	5 x 2.3							
S1K			18	6 x 2.8							
SS1-75 SS1-75A		75	S1	10	40	75	77	10	10	20	—
S1K			12	4 x 1.8							
SS1-76 SS1-76A		76	S1	10	40	76	78	10	10	20	—
S1K			12	4 x 1.8							
SS1-80 SS1-80A SS1-80B SS1-80C		80	S1	10	40	80	82	10	10	20	—
S1K			12	4 x 1.8							
S1K	15		5 x 2.3								
S1K	18		6 x 2.8								
SS1-84 SS1-84A	84	S1	10	40	84	86	10	10	20	—	
S1K		12	4 x 1.8								
SS1-85 SS1-85A	85	S1	10	40	85	87	10	10	20	—	
S1K		12	4 x 1.8								
SS1-88 SS1-88A	88	S1	10	40	88	90	10	10	20	—	
S1K		12	4 x 1.8								
SS1-90 SS1-90A SS1-90B SS1-90C	90	S1	10	40	90	92	10	10	20	—	
S1K		12	4 x 1.8								
S1K		15	5 x 2.3								
S1K		18	6 x 2.8								
SS1-95 SS1-95A	95	S1	10	40	95	97	10	10	20	—	
S1K		12	4 x 1.8								
SS1-96 SS1-96A	96	S1	10	40	96	98	10	10	20	—	
S1K		12	4 x 1.8								
SS1-100 SS1-100A SS1-100B SS1-100C	100	S1	10	40	100	102	10	10	20	—	
S1K		12	4 x 1.8								
S1K		15	5 x 2.3								
S1K		18	6 x 2.8								
SS1-110 SS1-110A	110	S1	15	50	110	112	10	10	20	—	
S1K		15	40	5 x 2.3							
SS1-120 SS1-120A SS1-120B	120	S1	15	50	120	122	10	10	20	—	
S1K		15	40	5 x 2.3							
S1K		18	6 x 2.8								
SS1-150	150	S1	20	120	150	152	10	10	20	—	
SS1-200	200	S1	20	160	200	202	10	10	20	—	

[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.



S1T



S1K

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			
—	—	26.6	4.02	2.72	0.41	0.08~0.18	0.35	SS1-65
M4	5	26.6	4.02	2.72	0.41	0.08~0.18	0.34	SS1-65A
—	—	27.1	4.15	2.77	0.42	0.08~0.18	0.35	SS1-66
M4	5	27.1	4.15	2.77	0.42	0.08~0.18	0.35	SS1-66A
—	—	28.1	4.42	2.86	0.45	0.08~0.18	0.37	SS1-68
M4	5	28.1	4.42	2.86	0.45	0.08~0.18	0.36	SS1-68A
—	—	29.1	4.70	2.96	0.48	0.08~0.18	0.39	SS1-70
M4	5						0.38	SS1-70A
M4	5						0.37	SS1-70B
M5	5						0.36	SS1-70C
—	—	30.0	4.98	3.06	0.51	0.08~0.18	0.41	SS1-72
M4	5						0.40	SS1-72A
M4	5						0.39	SS1-72B
M5	5						0.37	SS1-72C
—	—	31.5	5.43	3.21	0.55	0.08~0.18	0.43	SS1-75
M4	5						0.42	SS1-75A
—	—	32.0	5.59	3.26	0.57	0.08~0.18	0.44	SS1-76
M4	5						0.43	SS1-76A
—	—	33.9	6.23	3.46	0.63	0.08~0.18	0.48	SS1-80
M4	5						0.47	SS1-80A
M4	5						0.46	SS1-80B
M5	5						0.45	SS1-80C
—	—	35.8	6.90	3.66	0.7	0.08~0.18	0.52	SS1-84
M4	5						0.51	SS1-84A
—	—	36.3	7.08	3.71	0.72	0.08~0.18	0.53	SS1-85
M4	5						0.52	SS1-85A
—	—	37.8	7.62	3.85	0.78	0.08~0.18	0.56	SS1-88
M4	5						0.56	SS1-88A
—	—	38.8	7.98	3.95	0.81	0.08~0.18	0.59	SS1-90
M4	5						0.58	SS1-90A
M4	5						0.57	SS1-90B
M5	5						0.55	SS1-90C
—	—	41.2	8.95	4.20	0.91	0.08~0.18	0.64	SS1-95
M4	5						0.63	SS1-95A
—	—	41.7	9.15	4.25	0.93	0.08~0.18	0.65	SS1-96
M4	5						0.65	SS1-96A
—	—	43.7	9.97	4.45	1.02	0.08~0.18	0.70	SS1-100
M4	5						0.69	SS1-100A
M4	5						0.68	SS1-100B
M5	5						0.67	SS1-100C
—	—	48.6	12.2	4.95	1.24	0.08~0.18	0.87	SS1-110
M4	5						0.81	SS1-110A
—	—	53.5	14.7	5.45	1.50	0.08~0.18	1.01	SS1-120
M4	5						0.95	SS1-120A
M5	5						0.94	SS1-120B
—	—	68.2	23.6	6.96	2.41	0.08~0.18	2.23	SS1-150
—	—	71.5	33.6	7.29	3.42	0.08~0.18	4.00	SS1-200

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