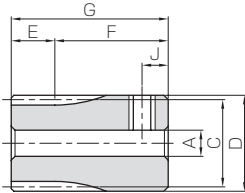


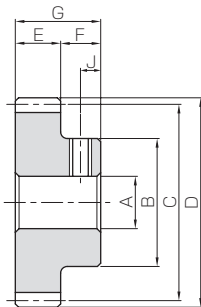


Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)*
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat Treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating

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



S3T



S1T

Catalog Number	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
SS0.5-15A	m0.5	15	S3T	3	8.5	7.5	8.5	5	11	16	—
SS0.5-16A		16		3	9	8	9				
SS0.5-18A		18		4	10	9	10				
SS0.5-20A		20		3	11	10	11				
SS0.5-20B				4							
SS0.5-21A		21		4	11.5	10.5	11.5				
SS0.5-22A		22		4	12	11	12				
SS0.5-24A		24		4	13	12	13				
SS0.5-24B				5							
SS0.5-25B		25		5	13.5	12.5	13.5				
SS0.5-27A		27		4	14.5	13.5	14.5				
SS0.5-28A		28	S1T	4	12	14	15	7	12		
SS0.5-30A		30		4	13	15	16				
SS0.5-30B				5							
SS0.5-30C				6							
SS0.5-32A		32		5	14	16	17				
SS0.5-35A		35		5	15	17.5	18.5				
SS0.5-36A		36		5	16	18	19				
SS0.5-40A		40		5	18	20	21				
SS0.5-40B				6							
SS0.5-45A		45		5	20	22.5	23.5				
SS0.5-50A		50		5	22	25	26				
SS0.5-50B				6							
SS0.5-54A		54		5	25	27	28				
SS0.5-60A		60		6	28	30	31				
SS0.5-60B				8							
SS0.5-70A		70		6	28	35	36				
SS0.5-70B				8							
SS0.5-80A		80		6	28	40	41				
SS0.5-80B				8							
SS0.5-90A		90		8	28	45	46				
SS0.5-96A		96		8	28	48	49				
SS0.5-100A		100		8	28	50	51				
SS0.5-120A		120		8	28	60	61				

- [Caution on Product Characteristics]
- ① The key groove used is a JIS B 1301 normal type (Js9) and a set screw is included for products with a tapped hole.
 - ② The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 24 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 diameter is less than $\varphi 4$, the bore tolerance class is H8. If the bore diameter is $\varphi 5$ or $\varphi 6$, and the hole length (total length) exceeds 3 times the diameter, then the class is also H8.
 - ⑤ When using S3T and S1T set screws for fastening gears to a shaft, only use this method for applications with light load usage. For secure fastening, please use dowel pins in combination.

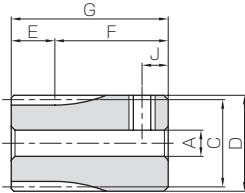
Socket head screw		Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)	Catalog Number
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
M3	2.5	0.46	0.022	0.047	0.0022	0~0.10	0.0056	SS0.5-15A
M3		0.51	0.025	0.052	0.0025		0.0064	SS0.5-16A
M3		0.61	0.032	0.063	0.0033		0.0076	SS0.5-18A
M3 M3		0.72	0.040	0.073	0.0041		0.010 0.0095	SS0.5-20A SS0.5-20B
M3		0.77	0.044	0.079	0.0045		0.011	SS0.5-21A
M3		0.83	0.049	0.084	0.0050		0.012	SS0.5-22A
M3 M4	2.5 3	0.93	0.059	0.095	0.0060		0.014 0.013	SS0.5-24A SS0.5-24B
M4	3	0.99	0.064	0.10	0.0065		0.014	SS0.5-25B
M3	2.5	1.10	0.075	0.11	0.0076		0.018	SS0.5-27A
M3	3.5	1.16	0.081	0.12	0.0082		0.011	SS0.5-28A
M3 M4 M4		1.27	0.093	0.13	0.0095		0.013 0.012 0.011	SS0.5-30A SS0.5-30B SS0.5-30C
M4		1.38	0.11	0.14	0.011		0.014	SS0.5-32A
M4		1.55	0.13	0.16	0.013		0.017	SS0.5-35A
M4		1.61	0.14	0.16	0.014		0.019	SS0.5-36A
M4 M4		1.84	0.17	0.19	0.017		0.024 0.023	SS0.5-40A SS0.5-40B
M4		2.14	0.21	0.22	0.022		0.030	SS0.5-45A
M4 M4		2.43	0.27	0.25	0.027		0.038 0.037	SS0.5-50A SS0.5-50B
M4		2.67	0.32	0.27	0.032		0.047	SS0.5-54A
M4		3.03	0.39	0.31	0.040		0.058 0.055	SS0.5-60A SS0.5-60B
M4 M5		3.63	0.55	0.37	0.056		0.068 0.065	SS0.5-70A SS0.5-70B
M4 M5		4.24	0.72	0.43	0.074		0.079 0.077	SS0.5-80A SS0.5-80B
M5		4.85	0.93	0.49	0.095		0.090	SS0.5-90A
M5		5.21	1.06	0.53	0.11		0.099	SS0.5-96A
M5		5.46	1.16	0.56	0.12		0.10	SS0.5-100A
M5		6.68	1.70	0.68	0.17		0.14	SS0.5-120A

- [Caution on Secondary Operations]
- ① Please read "Cautions on Performing Secondary Operations" (Page 26) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK 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.

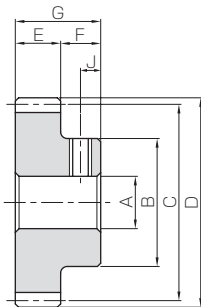


Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)*
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat Treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating

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



S3T



S1T

Catalog Number	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 x Depth						
SS0.8-15A	m0.8	15	S3T	5	13.6	12	13.6	8	14	22	—						
SS0.8-16A		16		5	14.4	12.8	14.4										
SS0.8-20A		20	S1T	5	13	16	17.6		8	16							
SS0.8-20B				6													
SS0.8-21A		21		6	14	16.8	18.4										
SS0.8-24A		24		5	16	19.2	20.8										
SS0.8-25A		25		5	16	20	21.6										
SS0.8-25B				6													
SS0.8-26A		26		6	18	20.8	22.4										
SS0.8-28A		28		6	18	22.4	24										
SS0.8-30A		30		5	20	24	25.6										
SS0.8-30B				6													
SS0.8-30C				8													
SS0.8-32A		32		6	22	25.6	27.2										
SS0.8-40A		40		6	28	32	33.6										
SS0.8-45A		45		6	28	36	37.6										
SS0.8-48A		48		6	28	38.4	40										
SS0.8-50A		50		6	28	40	41.6										
SS0.8-60A		60		6	28	48	49.6										
SS0.8-60B				8													
SS0.8-70A		70		6	28	56	57.6										
SS0.8-80A		80		6	28	64	65.6										
SS0.8-90A		90		8	28	72	73.6										
SS0.8-96A		96		8	28	76.8	78.4										
SS0.8-100A		100		8	28	80	81.6										
SS0.8-120A		120		8	28	96	97.6										

[Caution on Product Characteristics]

- ① The key groove used is a JIS B 1301 normal type (Js9) and a set screw is included for products with a tapped hole.
- ② The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 24 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 diameter is less than $\varphi 4$, the bore tolerance class is H8. If the bore diameter is $\varphi 5$ or $\varphi 6$, and the hole length (total length) exceeds 3 times the diameter, then the class is also H8.
- ⑤ When using S3T and S1T set screws for fastening gears to a shaft, only use this method for applications with light load usage. For secure fastening, please use dowel pins in combination.

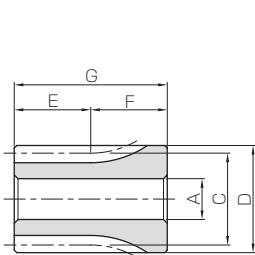
Socket head screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog Number
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
M4	3.5	1.89	0.088	0.19	0.0090	0~0.10	0.019	SS0.8-15A
M4		2.10	0.10	0.21	0.010		0.022	SS0.8-16A
M4 M4	4	2.94	0.17	0.30	0.017		0.018 0.017	SS0.8-20A SS0.8-20B
M4		3.16	0.18	0.32	0.019		0.020	SS0.8-21A
M4		3.82	0.25	0.39	0.025		0.028	SS0.8-24A
M4 M4		4.05	0.27	0.41	0.027		0.029 0.028	SS0.8-25A SS0.8-25B
M4		4.28	0.29	0.44	0.030		0.033	SS0.8-26A
M4		4.73	0.34	0.48	0.035		0.037	SS0.8-28A
M4 M4 M5		5.19	0.39	0.53	0.040		0.045 0.044 0.041	SS0.8-30A SS0.8-30B SS0.8-30C
M4		5.66	0.45	0.58	0.046		0.052	SS0.8-32A
M4		7.55	0.72	0.77	0.074		0.085	SS0.8-40A
M4		8.75	0.93	0.89	0.095		0.098	SS0.8-45A
M4		9.47	1.06	0.97	0.11		0.11	SS0.8-48A
M4		9.96	1.16	1.02	0.12		0.11	SS0.8-50A
M4 M5		12.4	1.70	1.26	0.17		0.15 0.14	SS0.8-60A SS0.8-60B
M4		14.9	2.35	1.52	0.24		0.19	SS0.8-70A
M4		17.4	3.11	1.77	0.32		0.24	SS0.8-80A
M5		19.9	3.99	2.02	0.41		0.29	SS0.8-90A
M5		21.4	4.57	2.18	0.47		0.32	SS0.8-96A
M5		22.4	4.98	2.28	0.51		0.35	SS0.8-100A
M5		27.4	7.32	2.79	0.75		0.49	SS0.8-120A

[Caution on Secondary Operations]

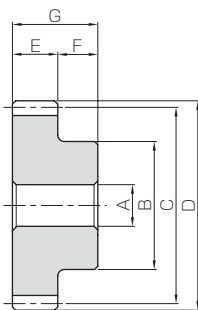
- ① Please read "Cautions on Performing Secondary Operations" (Page 26) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK system for quick modification of KHK stock gears, is also available.
- ② Avoid performing secondary operations that narrow the tooth width, as it affects precision and strength.



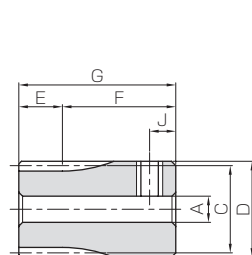
Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat Treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating



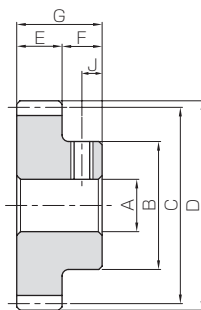
S3



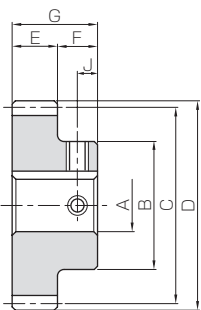
S1



S3T



S1T



S1K

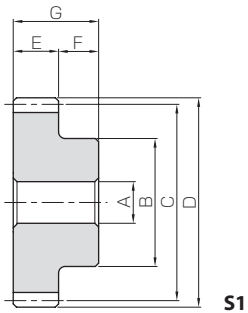
To order Hardened Plus, please specify Catalog No. + H.

Catalog Number		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 x Depth		
SS1-15 SS1-15A SS1-15B		m1	15	S3 S3T S3T	8 5 6	17	15	17	10	20	30	—		
SS1-16 SS1-16A SS1-16B			16	S3 S3T S3T	8 5 6	18	16	18						
SS1-17			17	S3	8	19	17	19						
SS1-18 SS1-18B			18	S3 S3T	8 8	20	18	20						
SS1-19			19	S3	8	21	19	21						
SS1-20 SS1-20A SS1-20B SS1-20C			20	S1 S1T S1T S1T	8 5 6 8	16	20	22						
SS1-21			21	S1	8	17	21	23						
SS1-22 SS1-22A			22	S1 S1T	8	18	22	24						
SS1-23			23	S1	8	18	23	25						
SS1-24 SS1-24A SS1-24B SS1-24C			24	S1 S1T S1T S1K	8 6 8 10	20	24	26		10	10		20	— — — 4 x 1.8
SS1-25 SS1-25A SS1-25B SS1-25C			25	S1 S1T S1T S1K	8 6 8 10	20	25	27						— — — 4 x 1.8
SS1-26			26	S1	8	22	26	28						—
SS1-27			27	S1	8	22	27	29	—					
SS1-28 SS1-28B			28	S1 S1K	8 10	22	28	30	— 4 x 1.8					
SS1-29			29	S1	8	24	29	31	—					
SS1-30 SS1-30A SS1-30B SS1-30C SS1-30D			30	S1 S1T S1T S1K S1K	10 6 8 10 12	25	30	32	— — — 4 x 1.8 4 x 1.8					
SS1-32 SS1-32A			32	S1 S1T	10 8	26	32	34	— —					
SS1-34			34	S1	10	26	34	36	—					
SS1-35			35	S1	10	26	35	37	—					
SS1-36			36	S1	10	28	36	38	—					
SS1-38			38	S1	10	32	38	40	—					
SS1-40 SS1-40A SS1-40B SS1-40C			40	S1 S1T S1K S1K	10 8 10 12	35	40	42	— — 4 x 1.8 4 x 1.8					
SS1-42			42	S1	10	35	42	44	—					
SS1-44			44	S1	10	35	44	46	—					
SS1-45 SS1-45A SS1-45B SS1-45C		45	S1 S1T S1K S1K	10 8 10 12	35	45	47	— — 4 x 1.8 4 x 1.8						
SS1-46		46	S1	10	35	46	48	—						
SS1-48		48	S1	10	35	48	50	—						

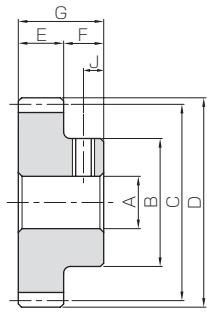
Socket head screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog Number
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
— M4 M4	— 4 4	3.69	0.17	0.38	0.018	0.08~0.18	0.038 0.044 0.042	SS1-15 SS1-15A SS1-15B
M4 M4	4 4	4.09	0.2	0.42	0.021		0.044 0.051 0.049	SS1-16 SS1-16A SS1-16B
—	—	4.5	0.23	0.46	0.023		0.050	SS1-17
— M5	— 4	4.91	0.26	0.5	0.027		0.057 0.057	SS1-18 SS1-18B
—	—	5.33	0.29	0.54	0.030		0.065	SS1-19
— M4 M4 M5	— 5 5 5	5.75	0.33	0.59	0.033		0.033 0.037 0.036 0.032	SS1-20 SS1-20A SS1-20B SS1-20C
—	—	6.17	0.36	0.63	0.037		0.037	SS1-21
— M5	— 5	6.6	0.4	0.67	0.041		0.042 0.041	SS1-22 SS1-22A
—	—	7.03	0.45	0.72	0.045		0.045	SS1-23
M4 M5 M4	5 5 5	7.47	0.49	0.76	0.050		0.052 0.055 0.051 0.046	SS1-24 SS1-24A SS1-24B SS1-24C
M4 M5 M4	5 5 5	7.91	0.54	0.81	0.055		0.055 0.058 0.054 0.049	SS1-25 SS1-25A SS1-25B SS1-25C
—	—	8.35	0.58	0.85	0.059		0.064	SS1-26
—	—	8.79	0.63	0.9	0.064		0.067	SS1-27
— M4	— 5	9.24	0.68	0.94	0.070		0.070 0.064	SS1-28 SS1-28B
—	—	9.69	0.73	0.99	0.075		0.079	SS1-29
M4 M5 M4 M4	5 5 5 5	10.1	0.79	1.03	0.081		0.082 0.089 0.085 0.080 0.075	SS1-30 SS1-30A SS1-30B SS1-30C SS1-30D
M5	5	11.1	0.90	1.13	0.092		0.092 0.096	SS1-32 SS1-32A
—	—	12.0	1.03	1.22	0.10		0.10	SS1-34
—	—	12.4	1.09	1.27	0.11		0.10	SS1-35
—	—	12.9	1.16	1.31	0.12		0.12	SS1-36
—	—	13.8	1.30	1.41	0.13		0.14	SS1-38
M5 M4 M4	5 5 5	14.7	1.45	1.50	0.15		0.16 0.16 0.16 0.15	SS1-40 SS1-40A SS1-40B SS1-40C
—	—	15.7	1.61	1.60	0.16		0.17	SS1-42
—	—	16.6	1.77	1.69	0.18		0.18	SS1-44
M5 M4 M4	5 5 5	17.1	1.86	1.74	0.19		0.19 0.19 0.19 0.18	SS1-45 SS1-45A SS1-45B SS1-45C
—	—	17.6	1.95	1.79	0.20		0.19	SS1-46
—	—	18.5	2.13	1.89	0.22		0.21	SS1-48



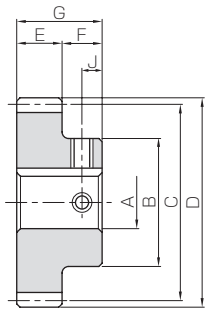
Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat Treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating



S1



S1T



S1K

To order Hardened Plus, please specify Catalog No. + H.

Catalog Number		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 x Depth
SS1-50 SS1-50A SS1-50B	H	m1	50	S1 S1T S1K	10 8 10	35	50	52	10	10	20	— — 4 x 1.8
SS1-52	H		52	S1	10		52	54				—
SS1-54	H		54	S1	10		54	56				—
SS1-55	H		55	S1	10		55	57				—
SS1-56	H		56	S1	10		56	58				—
SS1-58	H		58	S1	10		58	60				—
SS1-60 SS1-60A SS1-60B SS1-60C	H		60	S1 S1K S1K S1K	10 10 12 15		60	62				— 4 x 1.8 4 x 1.8 5 x 2.3
SS1-62	H		62	S1	10	40	62	64				—
SS1-64	H		64	S1	10		64	66				—
SS1-65	H		65	S1	10	40	65	67				—
SS1-66	H		66	S1	10		66	68				—
SS1-68	H		68	S1	10		68	70				—
SS1-70	H		70	S1	10		70	72				—
SS1-72	H		72	S1	10		72	74				—
SS1-75	H		75	S1	10		75	77				—
SS1-76	H		76	S1	10		76	78				—
SS1-80 SS1-80A	H		80	S1 S1K	10 12		80	82				— 4 x 1.8
SS1-84	H		84	S1	10		84	86				—
SS1-85	H		85	S1	10		85	87				—
SS1-88	H		88	S1	10		88	90				—
SS1-90 SS1-90A	H		90	S1 S1K	10 12		90	92				— 4 x 1.8
SS1-95	H		95	S1	10		95	97				—
SS1-96	H		96	S1	10		96	98				—
SS1-100 SS1-100B	H		100	S1 S1K	10 15	100	102	— 5 x 2.3				
SS1-110	H		110	S1	15	50	110	112				—
SS1-120	H		120	S1	15	50	120	122				—
SS1-150	H		150	S1	20	120	150	152				—
SS1-200	H		200	S1	20	160	200	202				—

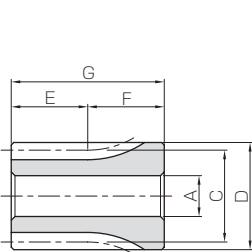
[Caution on Product Characteristics]

- ① The key groove used is a JIS B 1301 normal type (Js9) and a set screw is included for products with a tapped hole.
- ② The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 24 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 When using S3T and S1T set screws for fastening gears to a shaft, only use this method for applications with light load usage. For secure fastening, please use dowel pins in combination.

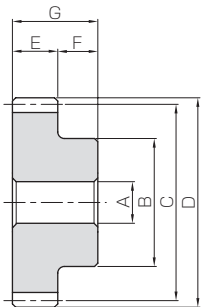
Socket head screw		Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog Number
Size	J	Bending strength	Surface durability	Bending strength	Surface durability			
— M5 M4	— 5 5	19.5	2.32	1.98	0.24	0.08~0.18	0.22 0.22 0.21	SS1-50 SS1-50A SS1-50B
—	—	20.4	2.52	2.08	0.26		0.23	SS1-52
—	—	21.4	2.73	2.18	0.28		0.24	SS1-54
—	—	21.8	2.83	2.23	0.29		0.25	SS1-55
—	—	22.3	2.94	2.28	0.30		0.26	SS1-56
—	—	23.3	3.17	2.37	0.32		0.27	SS1-58
M4 M4 M4	— 5 5 5	24.2	3.40	2.47	0.35		0.29 0.28 0.28 0.27	SS1-60 SS1-60A SS1-60B SS1-60C
—	—	25.2	3.64	2.57	0.37		0.32	SS1-62
—	—	26.2	3.89	2.67	0.40		0.34	SS1-64
—	—	26.6	4.02	2.72	0.41		0.35	SS1-65
—	—	27.1	4.15	2.77	0.42		0.35	SS1-66
—	—	28.1	4.42	2.86	0.45		0.37	SS1-68
—	—	29.1	4.70	2.96	0.48		0.39	SS1-70
—	—	30.0	4.98	3.06	0.51		0.41	SS1-72
—	—	31.5	5.43	3.21	0.55		0.43	SS1-75
—	—	32.0	5.59	3.26	0.57		0.44	SS1-76
— M4	— 5	33.9	6.23	3.46	0.63		0.48 0.47	SS1-80 SS1-80A
—	—	35.8	6.90	3.66	0.7		0.52	SS1-84
—	—	36.3	7.08	3.71	0.72		0.53	SS1-85
—	—	37.8	7.62	3.85	0.78		0.56	SS1-88
— M4	— 5	38.8	7.98	3.95	0.81		0.59 0.58	SS1-90 SS1-90A
—	—	41.2	8.95	4.20	0.91		0.64	SS1-95
—	—	41.7	9.15	4.25	0.93		0.65	SS1-96
— M4	— 5	43.7	9.97	4.45	1.02		0.70 0.68	SS1-100 SS1-100B
—	—	48.6	12.2	4.95	1.24		0.87	SS1-110
—	—	53.5	14.7	5.45	1.50		1.01	SS1-120
—	—	68.2	23.6	6.96	2.41		2.23	SS1-150
—	—	71.5	33.6	7.29	3.42		4.00	SS1-200



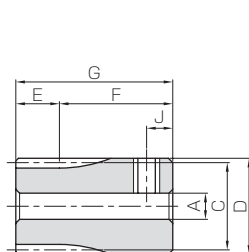
Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat Treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating



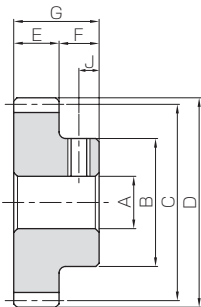
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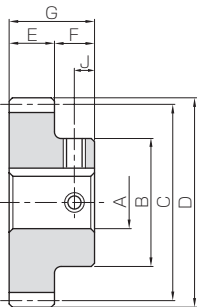
S1



S3T



S1T



S1K

To order Hardened Plus, please specify Catalog No. + H.

Catalog Number		Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total Length	Web thickness	Web O.D.	Keyway		
					A _{H7}	B	C	D	E	F	G	H	I	Width × Depth		
SS1.5-12 SS1.5-12A	H	m1.5	12	S3 S3T	8 6	21	18	21	15	15	30	—	—	— —		
SS1.5-13	H		13	S3	8	22.5	19.5	22.5		—						
SS1.5-14 SS1.5-14B	H		14	S1 S1T	8 8	16	21	24		— —						
SS1.5-15 SS1.5-15A	H		15	S1 S1T	8 6	18	22.5	25.5		— —						
SS1.5-16 SS1.5-16B	H		16	S1 S1T	8 8	20	24	27		— —						
SS1.5-17	H		17	S1	8	21	25.5	28.5		—						
SS1.5-18	H		18	S1	8	22	27	30		—						
SS1.5-19	H		19	S1	8	23	28.5	31.5		—						
SS1.5-20 SS1.5-20A SS1.5-20C	H		20	S1 S1T S1K	8 6 10	24	30	33		— — 4 x 1.8						
SS1.5-21	H		21	S1	8	25	31.5	34.5		—						
SS1.5-22	H		22	S1	8	26	33	36		—						
SS1.5-23	H		23	S1	8	27	34.5	37.5		—						
SS1.5-24 SS1.5-24C	H		24	S1 S1K	8 12	28	36	39		10	25			—	—	— 4 x 1.8
SS1.5-25	H		25	S1	8	30	37.5	40.5								—
SS1.5-26 SS1.5-26A	H		26	S1 S1K	10 12	32	39	42								— 4 x 1.8
SS1.5-27	H		27	S1	10	34	40.5	43.5								—
SS1.5-28 SS1.5-28A	H		28	S1 S1K	10 12	36	42	45								— 4 x 1.8
SS1.5-29	H		29	S1	10	37	43.5	46.5								—
SS1.5-30 SS1.5-30B SS1.5-30C	H		30	S1 S1K S1K	10 12 15	38	45	48								— 4 x 1.8 5 x 2.3
SS1.5-32 SS1.5-32B	H		32	S1 S1K	10 12	40 38	48	51								— 4 x 1.8
SS1.5-34	H		34	S1	10	40	51	54								—
SS1.5-35	H		35	S1	10	42	52.5	55.5								—
SS1.5-36 SS1.5-36A	H		36	S1 S1K	10 12	45 40	54	57								— 4 x 1.8
SS1.5-38	H		38	S1	12	45	57	60								—
SS1.5-40 SS1.5-40A SS1.5-40B	H		40	S1 S1K S1K	12 12 15	45 40 40	60	63								— 4 x 1.8 5 x 2.3

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 - 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 When using S3T and S1T set screws for fastening gears to a shaft, only use this method for applications with light load usage. For secure fastening, please use dowel pins in combination.

Socket head screw		Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)	Catalog Number
		Bending strength	Surface durability	Bending strength	Surface durability			
Size	J							
— M4	— 4	6.86	0.36	0.70	0.037	0.10~0.22	0.059 0.063	SS1.5-12 SS1.5-12A
—	—	8.84	0.44	0.90	0.045		0.070	SS1.5-13
— M5	— 5	11.1	0.52	1.13	0.053		0.047 0.046	SS1.5-14 SS1.5-14B
— M4	— 5	12.5	0.60	1.27	0.062		0.057 0.061	SS1.5-15 SS1.5-15A
— M5	— 5	13.8	0.70	1.41	0.071		0.068 0.067	SS1.5-16 SS1.5-16B
—	—	15.2	0.80	1.55	0.082		0.077	SS1.5-17
—	—	16.6	0.91	1.69	0.093		0.087	SS1.5-18
—	—	18.0	1.03	1.83	0.11		0.098	SS1.5-19
— M4 M4	— 5 5	19.4	1.15	1.98	0.12		0.11 0.11 0.10	SS1.5-20 SS1.5-20A SS1.5-20C
—	—	20.8	1.29	2.12	0.13	0.12~0.26	0.12	SS1.5-21
—	—	22.3	1.43	2.27	0.15		0.13	SS1.5-22
—	—	23.7	1.58	2.42	0.16		0.15	SS1.5-23
— M4	— 5	25.2	1.73	2.57	0.18		0.16 0.14	SS1.5-24 SS1.5-24C
—	—	26.7	1.90	2.72	0.19		0.18	SS1.5-25
— M4	— 5	28.2	2.06	2.87	0.21		0.19 0.18	SS1.5-26 SS1.5-26A
—	—	29.7	2.23	3.03	0.23		0.21	SS1.5-27
— M4	— 5	31.2	2.41	3.18	0.25		0.23 0.22	SS1.5-28 SS1.5-28A
—	—	32.7	2.60	3.34	0.26		0.24	SS1.5-29
— M4 M4	— 5 5	34.2	2.79	3.49	0.28		0.26 0.25 0.24	SS1.5-30 SS1.5-30B SS1.5-30C
— M4	— 5	37.3	3.19	3.80	0.33		0.30 0.28	SS1.5-32 SS1.5-32B
—	—	40.4	3.63	4.12	0.37		0.32	SS1.5-34
—	—	41.9	3.85	4.28	0.39		0.35	SS1.5-35
— M4	— 5	43.5	4.09	4.43	0.42		0.38 0.34	SS1.5-36 SS1.5-36A
—	—	46.6	4.58	4.75	0.47		0.40	SS1.5-38
— M4 M4	— 5 5	49.8	5.10	5.07	0.52		0.44 0.41 0.39	SS1.5-40 SS1.5-40A SS1.5-40B

- [Caution on Secondary Operations]
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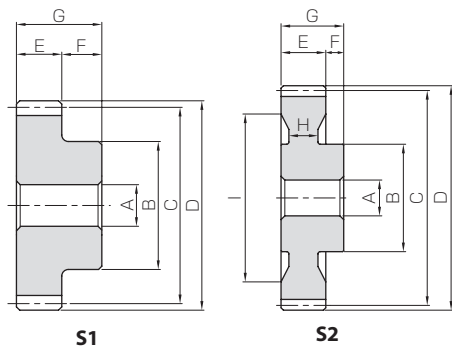


New Product



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

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



To order Hardened Plus, please specify **Catalog No. + H**.

Catalog Number	No. of teeth	Shape	Bore A _{H7}	Hub dia. B	Pitch dia. C	Outside dia. D	Face width E	Hub width F	Total Length G	Web thickness (H)	Web O.D. (I)	Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)
												Bending strength	Surface durability	Bending strength	Surface durability		
SS1.5-42	42	S1	12	45	63	66	15	10	25	—	—	52.9	5.65	5.40	0.58	0.14~0.32	0.47
SS1.5-44	44				66	69						56.1	6.23	5.72	0.64		0.51
SS1.5-45	45				67.5	70.5						57.7	6.53	5.88	0.67		0.52
SS1.5-46	46				69	72						59.3	6.83	6.04	0.70		0.54
SS1.5-48	48				72	75						62.4	7.47	6.37	0.76		0.58
SS1.5-50	50			50	75	78						65.7	8.15	6.69	0.83		0.62
SS1.5-52	52				78	81						68.9	8.85	7.02	0.90		0.68
SS1.5-54	54				81	84						72.1	9.59	7.35	0.98		0.73
SS1.5-55	55				82.5	85.5						73.7	9.96	7.51	1.02		0.75
SS1.5-56	56				84	87						75.3	10.4	7.68	1.06		0.77
SS1.5-58	58			15	87	90						78.5	11.2	8.01	1.14	0.18~0.38	0.82
SS1.5-60	60				90	93						81.8	12.0	8.34	1.22		0.87
SS1.5-62	62				93	96						85.0	12.8	8.67	1.31		0.95
SS1.5-64	64				96	99						88.3	13.7	9.00	1.40		1.00
SS1.5-65	65				97.5	100.5						89.9	14.2	9.17	1.45		1.03
SS1.5-66	66			55	99	102						91.5	14.6	9.33	1.49		1.06
SS1.5-68	68				102	105						94.8	15.6	9.66	1.59		1.11
SS1.5-70	70				105	108						98.0	16.6	10.0	1.69		1.17
SS1.5-72	72				108	111						101	17.6	10.3	1.79		1.23
SS1.5-75	75				112.5	115.5						106	19.2	10.8	1.95		1.36
SS1.5-76	76			60	114	117						108	19.7	11.0	2.01	0.22~0.46	1.39
SS1.5-80	80				120	123						114	22.0	11.7	2.24		1.52
SS1.5-84	84				126	129						121	24.4	12.3	2.49		1.66
SS1.5-85	85				127.5	130.5						123	25.1	12.5	2.56		1.69
SS1.5-88	88				132	135						128	27.0	13.0	2.75		1.80
SS1.5-90	90	S2	20	70	135	138	180	183	225	228	230	131	28.3	13.3	2.89		1.87
SS1.5-95	95				142.5	145.5						139	31.8	14.2	3.24		2.07
SS1.5-100	100				150	153						147	35.5	15.0	3.62		1.88
SS1.5-120	120	S1	25	240	180	183	225	228	230	230	230	180	52.3	18.4	5.33		2.74
SS1.5-150	150				225	228						192	70.3	19.6	7.17		6.62
SS1.5-200	200				300	303						261	131	26.7	13.3		11.8

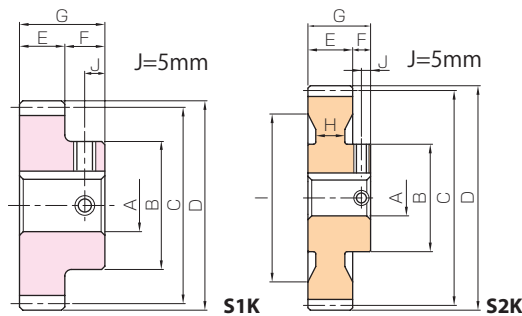
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J Series



Steel Spur Gears

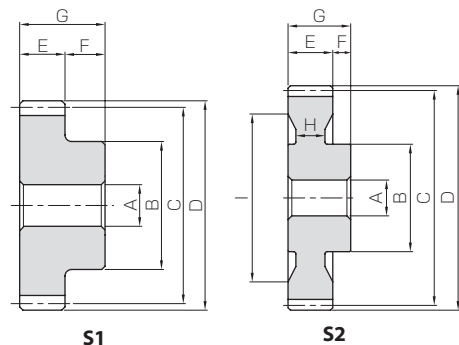
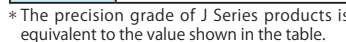


To order J Series products, please specify: **Catalog No. + J + BORE**.

Bore H7		* The product shapes of J Series items are identified by background color.														
Keyway Js9	10	12	14	15	16	17	18	19	20	22	25	28	30	32	35	
Screw size	4x1.8		5x2.3				6x2.8				8x3.3			10x3.3		
Catalog Number	M4						M5				M6			M8		
SS1.5-42 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
SS1.5-44 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
SS1.5-45 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
SS1.5-46 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
SS1.5-48 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
SS1.5-50 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
SS1.5-52 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			
SS1.5-54 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			
SS1.5-55 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			
SS1.5-56 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			
SS1.5-58 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			
SS1.5-60 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			
SS1.5-62 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS1.5-64 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS1.5-65 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS1.5-66 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS1.5-68 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS1.5-70 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS1.5-72 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS1.5-75 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-76 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-80 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-84 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-85 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-88 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-90 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-95 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS1.5-100 J BORE				S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	
SS1.5-120 J BORE				S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	
SS1.5-150																
SS1.5-200																

[Caution on J series]

- ① As available-on-request products, these require a lead-time for shipping within 2 working days (excludes the day or-dered), after placing an order.
- 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, Js9 tolerance.
- ④ Certain products which would otherwise have a very long tapped hole are counterbored to reduce the length of the tap. For details, please see the KHK Web Catalog.
- 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.

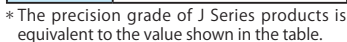


[Caution on Product Characteristics]	① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 24 for more details. ② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.
[Caution on Secondary Operations]	① Please read "Cautions on Performing Secondary Operations" (Page 26) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK 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.



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- ④ Certain products which would otherwise have a very long tapped hole are counterbored to reduce the length of the tap. For details, please see the KHK Web Catalog.
- 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 When using S17 set screws for fastening gears to a shaft, only use this method for applications with light load usage. For secure fastening, please use dowel pins in combination.



To order J Series products, please specify: **Catalog No. + J + BORE.**

 To order Hardened Plus, please specify **Catalog No. + H.**

[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.

[Caution on Secondary Operations]

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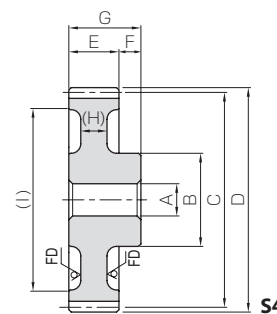
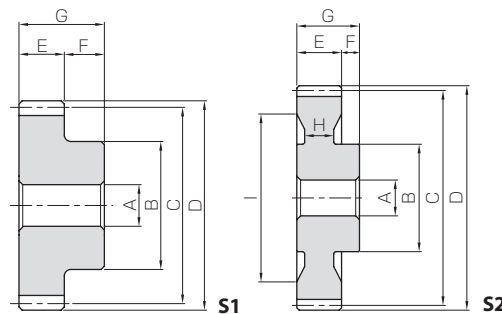
[Caution on J series]

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For details, please see the KHK Web Catalog.
- 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 When using S1T2 set screws for fastening gears to a shaft, only use this method for applications with light load usage.
For secure fastening, please use dowel pins in combination.

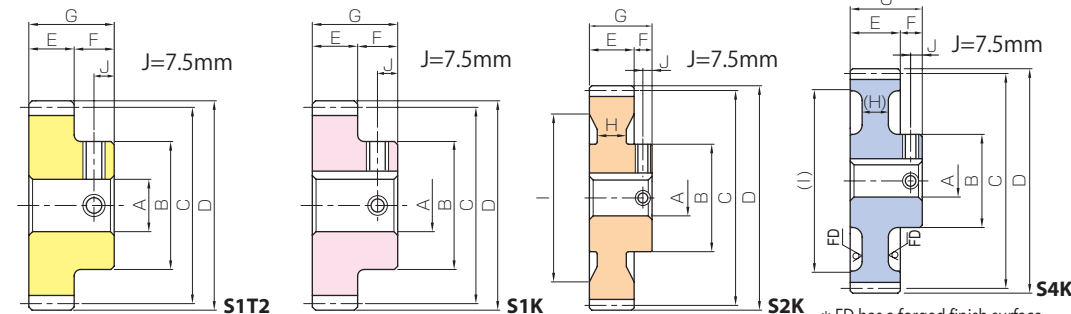


Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)*
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat Treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating

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



* FD has a forged finish surface.



* FD has a forged finish surface.

To order J Series products, please specify: **Catalog No. + J + BORE.**

To order Hardened Plus, please specify **Catalog No. + H.**

Catalog Number	No. of teeth	Shape	Bore A _{H7}	Hub dia. B	Pitch dia. C	Outside dia. D	Face width E	Hub width F	Total Length G	Web thickness H	Web O.D. (I)	Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)
												Bending strength	Surface durability	Bending strength	Surface durability		
SS3-12	H	12	S1	28	36	42	30	15	45	—	—	54.9	3.12	5.59	0.32	0.14~0.32	0.25
SS3-13	H	13		30	39	45						70.7	3.77	7.21	0.38		0.30
SS3-14	H	14		32	42	48						88.9	4.47	9.07	0.46		0.36
SS3-15	H	15		36	45	51						99.7	5.23	10.2	0.53		0.43
SS3-16	H	16		38	48	54						111	6.05	11.3	0.62		0.50
SS3-17	H	17		39	51	57						122	6.93	12.4	0.71		0.56
SS3-18	H	18		40	54	60						133	7.87	13.5	0.80		0.62
SS3-19	H	19		45	57	63						144	8.88	14.7	0.91		0.73
SS3-20	H	20		50	60	66						155	9.95	15.8	1.02		0.83
SS3-21	H	21		52	63	69						167	11.1	17.0	1.13		0.92
SS3-22	H	22		54	66	72						178	12.3	18.2	1.25	0.18~0.38	1.01
SS3-23	H	23		56	69	75						190	13.6	19.4	1.38		1.11
SS3-24	H	24		58	72	78						202	14.9	20.6	1.52		1.21
SS3-25	H	25		60	75	81						214	16.3	21.8	1.66		1.26
SS3-26	H	26		65	78	84						226	17.7	23.0	1.81		1.41
SS3-27	H	27		65	81	87						237	19.2	24.2	1.96		1.49
SS3-28	H	28		70	84	90						250	20.7	25.4	2.11		1.65
SS3-29	H	29		70	87	93						262	22.3	26.7	2.27		1.74
SS3-30	H	30		75	90	96						274	24.0	27.9	2.44		1.91
SS3-32	H	32		75	96	102						298	27.4	30.4	2.80		2.11
SS3-34	H	34	S2	80	102	108						323	31.2	32.9	3.18	0.20~0.44	2.41
SS3-35	H	35			105	111						335	33.1	34.2	3.38		2.52
SS3-36	H	36			108	114						348	35.2	35.5	3.59		2.64
SS3-38	H	38			114	120						373	39.4	38.0	4.02		2.82
SS3-40	H	40			120	126						398	44.0	40.6	4.49		3.08
SS3-42	H	42			126	132						423	48.9	43.2	4.98		3.35
SS3-44	H	44			132	138						449	54.0	45.7	5.50		3.64
SS3-45	H	45			135	141						461	56.6	47.0	5.78		3.79
SS3-46	H	46			138	144						474	59.4	48.3	6.05		3.94
SS3-48	H	48			144	150						500	65.0	50.9	6.63		4.25
SS3-50	H	50	S4	80	150	156						(10)	(123)	525	70.9	53.6	7.23
SS3-52	H	52			156	162						126	551	77.1	56.2	7.86	4.38
SS3-54	H	54			162	168						132	577	83.6	58.8	8.52	4.61
SS3-55	H	55			165	171						131	590	86.9	60.1	8.86	4.81
SS3-56	H	56			168	174						134	602	90.3	61.4	9.21	4.94
SS3-58	H	58			174	180						144	628	97.3	64.1	9.92	5.10
SS3-60	H	60			180	186						(10)	(153)	654	105	66.7	10.7
SS3-62	H	62			186	192						150	680	112	69.4	11.4	5.76
SS3-64	H	64			192	198						158	588	99.9	60.0	10.2	5.99
SS3-65	H	65			195	201						161	599	103	61.1	10.5	6.13
SS3-66	H	66	S2	90	198	204						160	610	107	62.2	10.9	6.67
SS3-68	H	68			204	210						170	632	114	64.4	11.6	6.86
SS3-70	H	70			210	216						176	654	121	66.6	12.4	7.15
SS3-72	H	72			216	222						182	675	129	68.9	13.1	7.46
SS3-75	H	75			225	231						190	708	141	72.2	14.3	7.95
SS3-76	H	76			90	228	234					190	719	145	73.3	14.8	8.20
SS3-80	H	80			90	240	246					(10)	(213)	763	162	77.8	16.5
SS3-90	H	90			100	270	276					16	240	872	208	89.0	21.2
SS3-100	H	100			100	300	306					(273)	983	261	100	26.6	10.8
SS3-120	H	120			130	360	366					(10)	(333)	1200	386	123	39.4

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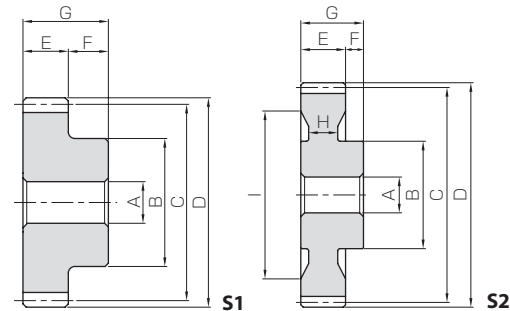
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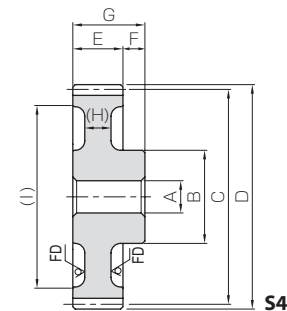


Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998)*
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat Treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating

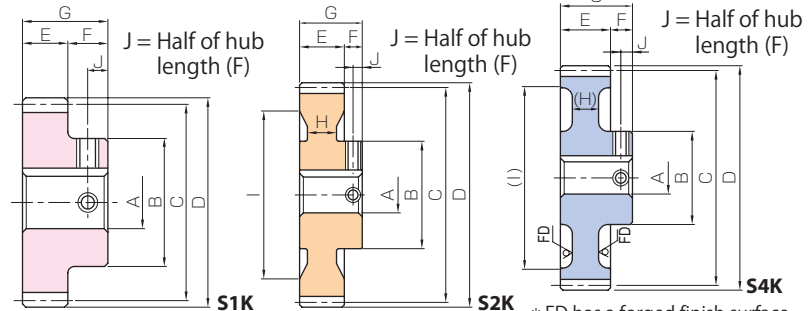
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New Product



* FD has a forged finish surface.



* FD has a forged finish surface.

Steel Spur Gears

Additional Products

 To order Hardened Plus, please specify **Catalog No. + H.**

Catalog Number		No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total Length	Web thickness	Web O.D.	Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash	Weight
				A _{H7}	B	C	D	E	F	G	(H)	(I)	Bending strength	Surface durability	Bending strength	Surface durability	(mm)	(kg)
SS4-12		12	S1	20	35	48	56	40	20	60	—	—	130	7.62	13.3	0.78	0.18~0.38	0.57
SS4-13		13			38	52	60						168	9.22	17.1	0.94		0.70
SS4-14		14			40	56	64						211	10.9	21.5	1.11		0.82
SS4-15		15			45	60	68						236	12.8	24.1	1.30		0.99
SS4-16		16			50	64	72						262	14.7	26.7	1.50		1.17
SS4-17		17			53	68	76						288	16.9	29.4	1.72		1.34
SS4-18		18			55	72	80						314	19.2	32.0	1.96		1.50
SS4-19		19			60	76	84						341	21.7	34.8	2.21		1.72
SS4-20		20			65	80	88						368	24.3	37.5	2.48		1.95
SS4-21		21			69	84	92						395	27.1	40.3	2.76		2.18
SS4-22		22		73	88	96	423	30.1	43.1	3.06	0.20~0.44	2.42						
SS4-23		23		77	92	100	450	33.2	45.9	3.38		2.67						
SS4-24		24		80	96	104	478	36.4	48.8	3.72		2.91						
SS4-25		25		84	100	108	506	39.9	51.6	4.07		3.19						
SS4-26		26		87	104	112	534	43.3	54.5	4.42		3.45						
SS4-27		27		90	108	116	563	46.9	57.4	4.78		3.73						
SS4-28		28		95	112	120	591	50.6	60.3	5.16		4.06						
SS4-29		29		95	116	124	620	54.5	63.2	5.56		4.28						
SS4-30		30		100	120	128	649	58.7	66.2	5.98		4.64						
SS4-32		32		100	128	136	707	67.4	72.1	6.87		4.86						
SS4-34		34		22	100	136	144	766	76.7	78.1	7.82	5.38						
SS4-35		35				140	148	795	81.6	81.1	8.32	5.65						
SS4-36		36				144	152	825	86.7	84.1	8.84	5.93						
SS4-38		38				152	160	884	97.3	90.1	9.92	6.52						
SS4-40		40				160	168	943	109	96.2	11.1	7.08						
SS4-42		42				25	100	168	176	1000	120	102	12.3	0.24~0.52	7.73			
SS4-44		44	176	184	1060			133	108	13.6	8.41							
SS4-45		45	180	188	1090			139	112	14.2	8.76							
SS4-46		46	184	192	1120			146	115	14.9	9.12							
SS4-48		48	192	200	1120			146	115	14.9	9.12							
SS4-50		50	S2	30	110			200	208	150	987	101	13.6		0.24~0.52	9.12		
SS4-52		52				208	216	165	1090	158	111	16.1	10.2					
SS4-54		54				216	224	175	1140	172	116	17.5	10.8					
SS4-55		55				220	228	178	1160	179	119	18.2	11.1					
SS4-56		56				224	232	182	1190	186	121	18.9	11.5					
SS4-58		58				120	30	110	232	240	190	1240	200	127		20.4	12.5	
SS4-60		60			240				248	198	1290	215	132	22	13.2			
SS4-62		62			248				256	20	210	1340	231	137	23.6	13.1		
SS4-64		64			256				264	16	214	1390	248	142	25.2	13.4		
SS4-65		65			260			268	218		1420	256	145	26.1	13.7			
SS4-66		66	120	30	(12)			220	1450		265	148	27	14.7				
SS4-68		68						272	280		225	1500	282	153	28.8	15.5		
SS4-70		70						280	288	(248)	1550	300	158	30.6	13.6			
SS4-80		80				320	328	(288)	1810	400	184	40.8	16.3					

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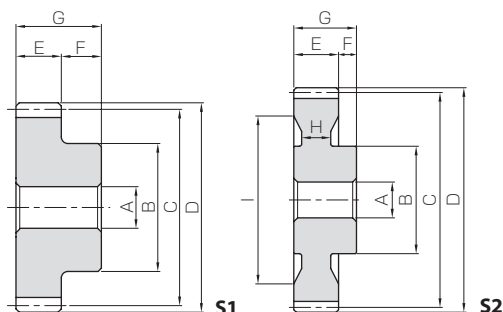
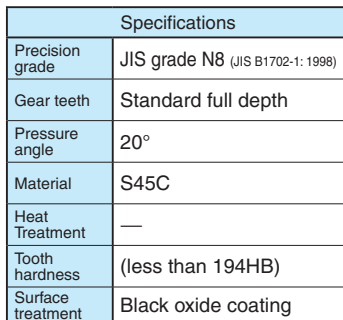
To order J Series products, please specify: **Catalog No. + J + BORE.**

Bore H7		* The product shapes of J Series items are identified by background color.											
Keyway Js9	20	22	25	28	30	32	35	40	45	50	55	60	65
Screw size	6x2.8		8x3.3			10x3.3		12x3.3	14x3.8		16x4.3	18x4.4	
Catalog Number	M5		M6			M8			M10		M12		
SS4-12													
SS4-13													
SS4-14 J BORE	S1K	S1K											
SS4-15 J BORE	S1K	S1K	S1K										
SS4-16 J BORE	S1K	S1K	S1K	S1K	S1K								
SS4-17 J BORE	S1K	S1K	S1K	S1K	S1K								
SS4-18 J BORE	S1K	S1K	S1K	S1K	S1K	S1K							
SS4-19 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K						
SS4-20 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
SS4-21 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS4-22 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			
SS4-23 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			
SS4-24 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS4-25 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS4-26 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS4-27 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS4-28 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-29 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-30 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-32 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-34 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-35 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-36 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-38 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-40 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-42 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-44 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-45 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-46 J BORE			S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS4-48 J BORE			S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS4-50 J BORE						S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS4-52 J BORE						S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS4-54 J BORE						S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS4-55 J BORE						S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS4-56 J BORE						S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS4-58 J BORE						S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS4-60 J BORE						S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS4-62 J BORE						S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS4-64 J BORE						S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS4-65 J BORE						S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS4-66 J BORE						S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS4-68 J BORE						S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS4-70 J BORE						S4K	S4K	S4K	S4K	S4K	S4K	S4K	S4K
SS4-80 J BORE						S4K	S4K	S4K	S4K	S4K	S4K	S4K	S4K

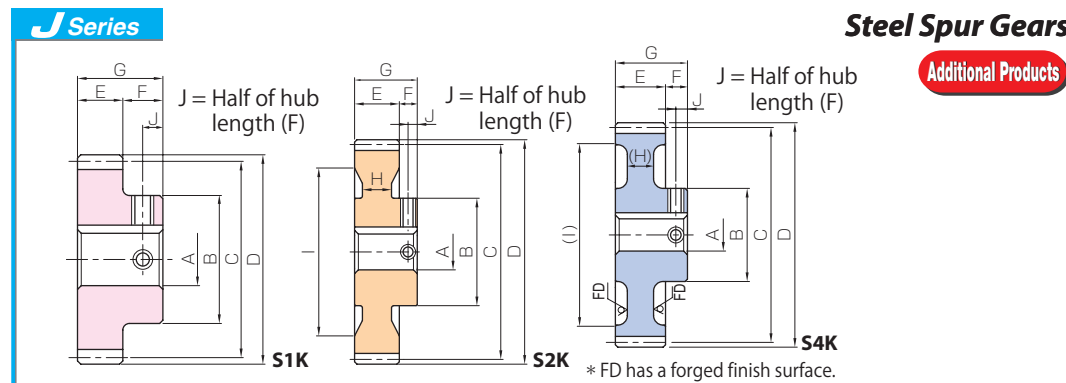
[Caution on J series] ① Production is completed in 2 working days excluding the day ordered for products with module 3 or under, and 7 days

- ② Number of products is 1 to 20 units for products with module 3 or under, and up to 5 units for products with module 4 or higher.
- ③ Keyways are made according to JIS B1301 standards, Js9 tolerance.
- ④ Certain products which would otherwise have a very long tapped hole are counterbored to reduce the length of the tap. For details, please see the KHK Web Catalog.
- 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 When using S1T2 set screws for fastening gears to a shaft, only use this method for applications with light load usage. For secure fastening, please use dowel pins in combination.

Please make use of GCSW for Web (gear calculation software).



Technical drawing of a shaft-hub assembly. The drawing shows a shaft (grey) inserted into a hub (white). Dimensions are indicated as follows: G is the total width of the assembly; E and F are the widths of the shaft and hub respectively; (H) is the height of the shaft; A, B, and C are the heights of the shaft, hub, and total assembly respectively; D is the total height of the assembly; (L) is the length of the shaft; and FD is the distance from the center of the shaft to the outer edge of the hub.



* FD has a forged finish surface

* FD has a forged finish surface.

To order J Series products, please specify: **Catalog No. + J + BORE.**

To order Hardened Plus, please specify Catalog No. + H.

Catalog Number		No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total Length	Web thickness	Web O.D.	Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)					
				AH7	B	C	D	E	F	G	(H)	(I)	Bending strength	Surface durability	Bending strength	Surface durability							
SS5-12	H	12	S1	22	46	60	70	50	25	75	—	—	254	15.2	25.9	1.55	0.20~0.44	1.21					
SS5-13	H	13			50	65	75						327	18.4	33.4	1.88		1.46					
SS5-14	H	14			52	70	80						412	21.8	42.0	2.22		1.70					
SS5-15	H	15			60	75	85						462	25.5	47.1	2.60		2.07					
SS5-16	H	16			65	80	90						512	29.5	52.2	3.01		2.40					
SS5-17	H	17			68	85	95						562	33.8	57.3	3.45	0.24~0.50	2.72					
SS5-18	H	18			70	90	100						614	38.4	62.6	3.92		3.03					
SS5-19	H	19			76	95	105						666	43.4	67.9	4.42		3.45					
SS5-20	H	20			82	100	110						718	48.6	73.3	4.96		3.90					
SS5-21	H	21			90	105	115						772	54.2	78.7	5.53		4.36					
SS5-22	H	22	S1	25	95	110	120	50	25	75	—	—	825	60.1	84.1	6.13	0.24~0.50	4.83					
SS5-23	H	23			100	115	125						879	66.3	89.7	6.77		5.33					
SS5-24	H	24			100	120	130						934	73.0	95.2	7.45		5.69					
SS5-25	H	25			105	125	135						989	80.0	101	8.16		6.23					
SS5-26	H	26			110	130	140						1040	87.1	106	8.88		6.79					
SS5-27	H	27			110	135	145						1100	94.4	112	9.62		7.19					
SS5-28	H	28			110	140	150						1160	102	118	10.4		7.62					
SS5-29	H	29			115	145	155						1210	110	124	11.2		8.23					
SS5-30	H	30			120	150	160						1270	118	129	12.1		8.87					
SS5-32	H	32			120	160	170						1380	136	141	13.8		9.36					
SS5-34	H	34	S2	30	120	170	180	50	21	71	36	160	1500	154	153	15.7	0.28~0.58	10.4					
SS5-35	H	35			120	175	185						1550	164	158	16.7		10.9					
SS5-36	H	36			120	180	190						1610	174	164	17.8		11.5					
SS5-38	H	38			120	190	200						1730	195	176	19.9		12.6					
SS5-40	H	40			120	200	210						1730	195	176	19.9		13.2					
SS5-42	H	42			120	210	220						36	170	1630	202		167	20.6	0.28~0.58	14.2		
SS5-44	H	44			120	220	230						36	175	1730	223		177	22.8		15.4		
SS5-45	H	45			120	225	235						36	185	1780	234		182	23.9		15.8		
SS5-46	H	46			120	230	240						30	185	1830	246		187	25.1		16.2		
SS5-48	H	48			120	240	250						30	200	1930	269		197	27.5		17.0		
SS5-50	H	50	S4	S2	120	250	260	50	21	71	(16)	(212)	2030	294	207	30.0	0.28~0.58	15.0					
SS5-52	H	52	130		260	270	30				220	2130	320	217	32.6	19.8							
SS5-54	H	54	130		270	280	30				230	2220	347	227	35.4	20.9							
SS5-55	H	55	130		275	285	30				235	2270	361	232	36.8	21.5							
SS5-56	H	56	130		280	290	30				240	2320	375	237	38.3	22.0							
SS5-58	H	58	130		290	300	30				240	2420	405	247	41.3	23.8							
SS5-60	H	60	130		300	310	30				250	2520	435	257	44.4	25.1							
SS5-62	S	62	S1		30	160	310				320	50	21	71	—	—		2423	423	247	43.1	0.20~0.44	32.6
SS5-64	S	64				160	320				330							2516	453	257	46.2		34.5
SS5-65	S	65				160	325				335							2562	468	261	47.7		35.5
SS5-66	S	66		170		330	340	2609	484	266	49.3						36.9						
SS5-68	S	68		170		340	350	2701	516	275	52.6						39.0						
SS5-70	S	70		180		350	360	2794	549	285	56.0						41.6						
SS5-80	S	80		200		400	410	3261	732	333	74.7						54.1						

[Caution on Product Characteristics]

- ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 24 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.
- ③ Products marked with  are semi-custom standard products. The delivery will take about 15 business days after the order is received.
- ④ For semi-custom standard products weighing 15 kg or more, eyebolt mounting screws (2-M12 depth 25 mm) are machined around the periphery of the boss side surface.

[Caution on Secondary Operations]

- ① Please read "Cautions on Performing Secondary Operations" (Page 26) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK 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.

Bore H7		* The product shapes of J Series items are identified by background color.													
Keyway J99	22	25	28	30	32	35	40	45	50	55	60	65	70	75	80
Screw size	6x2.8	8x3.3			10x3.3		12x3.3	14x3.8		16x4.3	18x4.4		20x4.9		22x5.4
Catalog Number	M5	M6			M8			M10		M12			M16		
SS5-12															
SS5-13 J BORE	S1K														
SS5-14 J BORE	S1K	S1K	S1K	S1K											
SS5-15 J BORE	S1K	S1K	S1K	S1K	S1K										
SS5-16 J BORE	S1K	S1K	S1K	S1K	S1K	S1K									
SS5-17 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K								
SS5-18 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K							
SS5-19 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K						
SS5-20 J BORE	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K					
SS5-21 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K				
SS5-22 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K			
SS5-23 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS5-24 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS5-25 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS5-26 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS5-27 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS5-28 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K		
SS5-29 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	
SS5-30 J BORE		S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS5-32 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS5-34 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS5-35 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS5-36 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS5-38 J BORE				S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K	S1K
SS5-40 J BORE				S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS5-42 J BORE				S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS5-44 J BORE				S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS5-45 J BORE				S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS5-46 J BORE				S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS5-48 J BORE				S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS5-50 J BORE				S4K	S4K	S4K	S4K	S4K	S4K	S4K	S4K	S4K	S4K	S4K	
SS5-52 J BORE				S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS5-54 J BORE				S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS5-55 J BORE				S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS5-56 J BORE				S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS5-58 J BORE				S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K
SS5-60 J BORE				S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K	S2K



[Caution on J series]

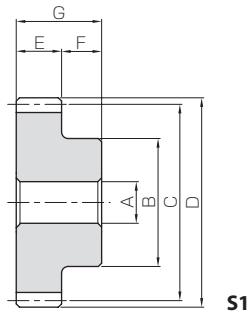
- ① Production is completed in 2 working days excluding the day ordered for products with module 3 or under, and 7 days for products with module 4 or higher.
- ② Number of products is 1 to 20 units for products with module 3 or under, and up to 5 units for products with module 4 or higher.
- ③ Keyways are made according to JIS B1301 standards, Js9 tolerance.
- ④ Certain products which would otherwise have a very long tapped hole are counterbored to reduce the length of the tap.
For details, please see the KHK Web Catalog.
- 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 When using S1T2 set screws for fastening gears to a shaft, only use this method for applications with light load usage.
For secure fastening, please use dowel pins in combination.

■ **S** Semi-custom standard products

- No effort spent on design
Simply select the gears you need from the catalog, eliminating design costs.
- Fast delivery available
Products are delivered with a consistent production system and within the lead time listed in the catalog (for orders of 5 units or less).
- Reliable quality
The mark of trust "KHK" guarantees the quality of products listed in the catalog.



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



S1

Catalog Number		Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total Length	Web thickness	Web O.D.
					A _{H7}	B	C	D	E	F	G	H	I
SS8-12 SS8-13 SS8-14 SS8-15 SS8-16 SS8-17 SS8-18 SS8-19 SS8-20 SS8-21 SS8-22 SS8-23 SS8-24 SS8-25 SS8-26 SS8-27 SS8-28 SS8-30		m8	S1	28	12	75	96	112	75	35	110	—	—
					13	80	104	120					
					14	85	112	128					
					15	90	120	136					
					16	100	128	144					
					17	105	136	152					
					18	110	144	160					
					19	120	152	168					
					20	130	160	176					
				21	140	168	184						
				22	150	176	192	75	35	110	—	—	
				23	155	184	200						
				24	160	192	208						
				25	170	200	216						
				26	170	208	224						
				27	170	216	232						
				28	180	224	240						
30	180	240	256										
SS8-32 SS8-34 SS8-35 SS8-36 SS8-38 SS8-40 SS8-42 SS8-44 SS8-45 SS8-46 SS8-48 SS8-50 SS8-52 SS8-54 SS8-55 SS8-56 SS8-58 SS8-59 SS8-60		m8	S1	30	32	200	256						272
					34	210	272	288					
					35	210	280	296					
					36	210	288	304					
					38	220	304	320					
					40	220	320	336					
					42	230	336	352					
					44	230	352	368					
					45	230	360	376					
					46	240	368	384					
					48	240	384	400					
					50	240	400	416					
					52	240	416	432					
					54	240	432	448					
					55	240	440	456					
					56	240	448	464					
					58	240	464	480					
59	240	472	488										
60	240	480	496										
SS10-15 SS10-20 SS10-25		m10	S1	30	115	150	170	90	40	130	—	—	
				30	165	200	220						
				40	200	250	270						
SS10-26 SS10-27 SS10-28 SS10-29 SS10-30 SS10-32 SS10-34 SS10-35 SS10-36 SS10-38 SS10-40 SS10-42 SS10-44 SS10-45 SS10-46 SS10-48 SS10-50		m10	S1	40	26	200	260	280	90	40	130	—	—
					27	220	270	290					
					28	220	280	300					
					29	230	290	310					
					30	240	300	320					
					32	250	320	340					
					34	260	340	360					
					35	260	350	370					
					36	270	360	380					
					38	270	380	400					
					40	280	400	420					
					42	290	420	440					
					44	290	440	460					
					45	290	450	470					
					46	290	460	480					
					48	300	480	500					
					50	300	500	520					

S Semi-custom standard products

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Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)	Catalog Number
Bending strength	Surface durability	Bending strength	Surface durability			
975	62.6	99.5	6.39	0.28~0.58	4.94	SS8-12
1260	75.2	128	7.66		5.85	SS8-13
1580	88.9	161	9.06		6.83	SS8-14
1770	104	181	10.6		7.87	SS8-15
1970	121	200	12.3		9.20	SS8-16
2160	139	220	14.1		10.4	SS8-17
2360	158	240	16.1	0.32~0.66	11.7	SS8-18
2560	178	261	18.2		13.3	SS8-19
2760	200	281	20.4		15.0	SS8-20
2960	223	302	22.8		16.7	SS8-21
3170	248	323	25.3		18.6	SS8-22
3380	273	344	27.9		20.2	SS8-23
2990	250	305	25.5	0.28~0.58	22.0	SS8-24
3160	273	323	27.8		24.1	SS8-25
3340	297	341	30.3		25.6	SS8-26
3520	322	359	32.8		27.2	SS8-27
3700	348	377	35.5		29.6	SS8-28
4060	404	414	41.2		33.0	SS8-30
4084	421	416	42.9	0.28~0.58	38.3	SS8-32
4421	479	451	48.9		43.1	SS8-34
4591	510	468	52.0		45.2	SS8-35
4761	542	486	55.3		47.3	SS8-36
5103	608	520	62.0		52.6	SS8-38
5447	679	555	69.3		57.2	SS8-40
5793	754	591	76.9	0.28~0.58	63.0	SS8-42
6139	834	626	85.0		68.1	SS8-44
6313	875	644	89.2		70.7	SS8-45
6487	917	662	93.6		74.4	SS8-46
6836	1006	697	103		80.0	SS8-48
7187	1098	733	112		85.8	SS8-50
7538	1195	769	122	0.34~0.68	91.8	SS8-52
7890	1297	805	132		98.1	SS8-54
8066	1349	823	138		101	SS8-55
8243	1403	841	143		105	SS8-56
8596	1513	877	154		111	SS8-58
8773	1571	895	160		115	SS8-59
8951	1629	913	166	0.34~0.68	118	SS8-60
3330	203	339	20.7		15.0	SS10-15
4310	323	440	33.0		28.2	SS10-20
5930	529	605	54.0		43.3	SS10-25
5788	522	590	53.3	0.34~0.68	47.1	SS10-26
6096	566	622	57.7		51.1	SS10-27
6405	612	653	62.4		54.2	SS10-28
6716	660	685	67.3		58.4	SS10-29
7028	710	717	72.4		62.9	SS10-30
7657	815	781	83.1		71.0	SS10-32
8290	929	845	94.7	0.34~0.68	79.5	SS10-34
8608	988	878	101		83.4	SS10-35
8928	1050	910	107		88.6	SS10-36
9569	1180	976	120		96.8	SS10-38
10213	1318	1041	134		107	SS10-40
10861	1464	1108	149		117	SS10-42
11511	1619	1174	165	0.34~0.68	127	SS10-44
11837	1700	1207	173		132	SS10-45
12164	1782	1240	182		137	SS10-46
12818	1955	1307	199		149	SS10-48
13475	2136	1374	218		160	SS10-50

[Caution on Product Characteristics]

- ① The allowable torques shown in the