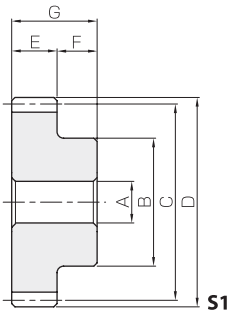
SS
Steel Spur Gears

Module 2



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 J Series products is equivalent to the value shown in the table.

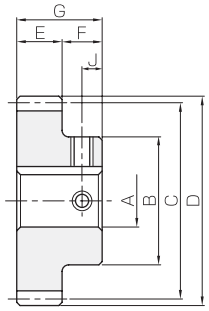


Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Keyway
				A_{H7}	B	C	D	E	F	G	H	I	Width×Depth
SS2-12	*m*2	12	S1	10	18	24	28	20	10	30	—	—	—
●**SS2-12 J10**			S1T2	10									—
SS2-13		13	S1	10	20	26	30	20	10	30	—	—	—
●**SS2-13 J10****			S1K	10									4 x 1.8
●**SS2-13 J12**			S1T2	12									—
SS2-14		14	S1	10	20	28	32	20	10	30	—	—	—
●**SS2-14 J10**			S1K	10									4 x 1.8
●**SS2-14 J12****			S1K	12									4 x 1.8
SS2-15		15	S1	12	24	30	34	20	10	30	—	—	—
●**SS2-15 J12**			S1K	12									4 x 1.8
●**SS2-15 J14****			S1K	14									5 x 2.3
SS2-16		16	S1	12	26	32	36	20	10	30	—	—	—
●**SS2-16 J12**			S1K	12									4 x 1.8
●**SS2-16 J14**			S1K	14									5 x 2.3
●**SS2-16 J15****			S1K	15									5 x 2.3
SS2-17		17	S1	12	28	34	38	20	10	30	—	—	—
●**SS2-17 J12**			S1K	12									4 x 1.8
●**SS2-17 J14**			S1K	14									5 x 2.3
●**SS2-17 J15**			S1K	15									5 x 2.3
●**SS2-17 J16**			S1K	16									5 x 2.3
SS2-18		18	S1	12	30	36	40	20	10	30	—	—	—
●**SS2-18 J12**			S1K	12									4 x 1.8
●**SS2-18 J14**			S1K	14									5 x 2.3
●**SS2-18 J15**			S1K	15									5 x 2.3
●**SS2-18 J16**			S1K	16									5 x 2.3
●**SS2-18 J18****			S1K	18									6 x 2.8
SS2-19		19	S1	12	31	38	42	20	10	30	—	—	—
●**SS2-19 J12**			S1K	12									4 x 1.8
●**SS2-19 J14**			S1K	14									5 x 2.3
●**SS2-19 J15**			S1K	15									5 x 2.3
●**SS2-19 J16**			S1K	16									5 x 2.3
●**SS2-19 J18**			S1K	18									6 x 2.8
SS2-20		20	S1	12	32	40	44	20	10	30	—	—	—
●**SS2-20 J12**			S1K	12									4 x 1.8
●**SS2-20 J14**			S1K	14									5 x 2.3
●**SS2-20 J15**			S1K	15									5 x 2.3
●**SS2-20 J16**			S1K	16									5 x 2.3
●**SS2-20 J18**			S1K	18									6 x 2.8
●**SS2-20 J19**			S1K	19									6 x 2.8
SS2-21		21	S1	12	34	42	46	20	10	30	—	—	—
●**SS2-21 J12**			S1K	12									4 x 1.8
●**SS2-21 J14**			S1K	14									5 x 2.3
●**SS2-21 J15**			S1K	15									5 x 2.3
●**SS2-21 J16**			S1K	16									5 x 2.3
●**SS2-21 J18**			S1K	18									6 x 2.8
●**SS2-21 J19**			S1K	19									6 x 2.8
●**SS2-21 J20**			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 Avoid performing secondary operations that narrow the tooth width as it affects precision and strength.

J Series





Set Screw		Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash	Weight	Catalog No.
Size	J	Bending strength	Surface durability	Bending strength	Surface durability	(mm)	(kg)	● : J Series (Available-on-request)
—	—	16.3	0.88	1.66	0.090	0.12~0.26	0.073	**SS2-12**
M4	5						0.071	●**SS2-12 J10**
—	—	21.0	1.07	2.14	0.11	0.12~0.26	0.090	**SS2-13**
M4	5						0.087	●**SS2-13 J10****
M4	5						0.079	●**SS2-13 J12**
—	—	26.3	1.26	2.69	0.13	0.12~0.26	0.10	**SS2-14**
M4	5						0.10	●**SS2-14 J10**
M4	5						0.093	●**SS2-14 J12****
—	—	29.6	1.48	3.01	0.15	0.12~0.26	0.12	**SS2-15**
M4	5						0.12	●**SS2-15 J12**
M4	5						0.11	●**SS2-15 J14****
—	—	32.7	1.71	3.34	0.17	0.12~0.26	0.14	**SS2-16**
M4	5						0.14	●**SS2-16 J12**
M4	5						0.13	●**SS2-16 J14**
M4	5						0.12	●**SS2-16 J15****
—	—	36.0	1.96	3.67	0.20	0.12~0.26	0.16	**SS2-17**
M4	5						0.16	●**SS2-17 J12**
M4	5						0.15	●**SS2-17 J14**
M4	5						0.15	●**SS2-17 J15**
M4	5						0.14	●**SS2-17 J16**
—	—	39.3	2.23	4.01	0.23	0.12~0.26	0.19	**SS2-18**
M4	5						0.19	●**SS2-18 J12**
M4	5						0.18	●**SS2-18 J14**
M4	5						0.17	●**SS2-18 J15**
M4	5						0.16	●**SS2-18 J16**
M5	5						0.15	●**SS2-18 J18****
—	—	42.6	2.52	4.35	0.26	0.12~0.26	0.21	**SS2-19**
M4	5						0.21	●**SS2-19 J12**
M4	5						0.20	●**SS2-19 J14**
M4	5						0.19	●**SS2-19 J15**
M4	5						0.19	●**SS2-19 J16**
M5	5						0.17	●**SS2-19 J18**
—	—	46.0	2.83	4.69	0.29	0.12~0.26	0.23	**SS2-20**
M4	5						0.23	●**SS2-20 J12**
M4	5						0.22	●**SS2-20 J14**
M4	5						0.22	●**SS2-20 J15**
M4	5						0.21	●**SS2-20 J16**
M5	5						0.20	●**SS2-20 J18**
M5	5						0.19	●**SS2-20 J19**
—	—	49.4	3.15	5.04	0.32	0.14~0.30	0.26	**SS2-21**
M4	5						0.26	●**SS2-21 J12**
M4	5						0.25	●**SS2-21 J14**
M4	5						0.24	●**SS2-21 J15**
M4	5						0.24	●**SS2-21 J16**
M5	5						0.22	●**SS2-21 J18**
M5	5						0.22	●**SS2-21 J19**
M5	5						0.21	●**SS2-21 J20**

[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.

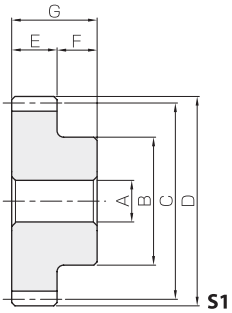
SS
Steel Spur Gears

Module 2



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 J Series products is equivalent to the value shown in the table.

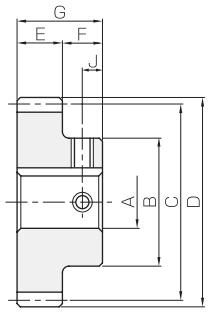


Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Keyway
				A_{H7}	B	C	D	E	F	G	H	I	Width×Depth
SS2-22	m2	22	S1	12	36	44	48	20	10	30	—	—	—
●SS2-22 J12			S1K	12									4 x 1.8
●SS2-22 J14			S1K	14									5 x 2.3
●SS2-22 J15			S1K	15									5 x 2.3
●SS2-22 J16			S1K	16									5 x 2.3
●SS2-22 J18			S1K	18									6 x 2.8
●SS2-22 J19			S1K	19									6 x 2.8
●SS2-22 J20			S1K	20									6 x 2.8
SS2-23		23	S1	12	37	46	50	20	10	30	—	—	—
●SS2-23 J12			S1K	12									4 x 1.8
●SS2-23 J14			S1K	14									5 x 2.3
●SS2-23 J15			S1K	15									5 x 2.3
●SS2-23 J16			S1K	16									5 x 2.3
●SS2-23 J18			S1K	18									6 x 2.8
●SS2-23 J19			S1K	19									6 x 2.8
●SS2-23 J20			S1K	20									6 x 2.8
●SS2-23 J22			S1K	22									6 x 2.8
SS2-24		24	S1	12	38	48	52	20	10	30	—	—	—
●SS2-24 J12			S1K	12									4 x 1.8
●SS2-24 J14			S1K	14									5 x 2.3
●SS2-24 J15			S1K	15									5 x 2.3
●SS2-24 J16			S1K	16									5 x 2.3
●SS2-24 J18			S1K	18									6 x 2.8
●SS2-24 J19			S1K	19									6 x 2.8
●SS2-24 J20			S1K	20									6 x 2.8
●SS2-24 J22			S1K	22									6 x 2.8
SS2-25		25	S1	12	40	50	54	20	10	30	—	—	—
●SS2-25 J12			S1K	12									4 x 1.8
●SS2-25 J14			S1K	14									5 x 2.3
●SS2-25 J15			S1K	15									5 x 2.3
●SS2-25 J16			S1K	16									5 x 2.3
●SS2-25 J18			S1K	18									6 x 2.8
●SS2-25 J19			S1K	19									6 x 2.8
●SS2-25 J20			S1K	20									6 x 2.8
●SS2-25 J22			S1K	22									6 x 2.8
SS2-26		26	S1	12	42	52	56	20	10	30	—	—	—
●SS2-26 J12			S1K	12									4 x 1.8
●SS2-26 J14			S1K	14									5 x 2.3
●SS2-26 J15			S1K	15									5 x 2.3
●SS2-26 J16			S1K	16									5 x 2.3
●SS2-26 J18			S1K	18									6 x 2.8
●SS2-26 J19			S1K	19									6 x 2.8
●SS2-26 J20			S1K	20									6 x 2.8
●SS2-26 J22			S1K	22									6 x 2.8
●SS2-26 J25			S1K	25									8 x 3.3
SS2-27		27	S1	12	45	54	58	20	10	30	—	—	—
●SS2-27 J12			S1K	12									4 x 1.8
●SS2-27 J14			S1K	14									5 x 2.3
●SS2-27 J15			S1K	15									5 x 2.3
●SS2-27 J16			S1K	16									5 x 2.3
●SS2-27 J18			S1K	18									6 x 2.8
●SS2-27 J19			S1K	19									6 x 2.8
●SS2-27 J20			S1K	20									6 x 2.8
●SS2-27 J22			S1K	22									6 x 2.8
●SS2-27 J25			S1K	25									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 Avoid performing secondary operations that narrow the tooth width as it affects precision and strength.

J Series





Set Screw		Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash	Weight	Catalog No.
Size	J	Bending strength	Surface durability	Bending strength	Surface durability	(mm)	(kg)	● : J Series (Available-on-request)
—	—						0.29	**SS2-22**
M4	5						0.29	●**SS2-22 J12**
M4	5						0.28	●**SS2-22 J14**
M4	5						0.27	●**SS2-22 J15**
M4	5	52.8	3.50	5.39	0.36	0.14~0.30	0.27	●**SS2-22 J16**
M5	5						0.25	●**SS2-22 J18**
M5	5						0.25	●**SS2-22 J19**
M5	5						0.24	●**SS2-22 J20**
—	—						0.32	**SS2-23**
M4	5						0.32	●**SS2-23 J12**
M4	5						0.31	●**SS2-23 J14**
M4	5						0.30	●**SS2-23 J15**
M4	5	56.3	3.86	5.74	0.39	0.14~0.30	0.29	●**SS2-23 J16**
M5	5						0.28	●**SS2-23 J18**
M5	5						0.27	●**SS2-23 J19**
M5	5						0.27	●**SS2-23 J20**
M5	5						0.25	●**SS2-23 J22**
—	—						0.35	**SS2-24**
M4	5						0.34	●**SS2-24 J12**
M4	5						0.33	●**SS2-24 J14**
M4	5						0.33	●**SS2-24 J15**
M4	5	59.8	4.24	6.09	0.43	0.14~0.30	0.32	●**SS2-24 J16**
M5	5						0.31	●**SS2-24 J18**
M5	5						0.30	●**SS2-24 J19**
M5	5						0.29	●**SS2-24 J20**
M5	5						0.28	●**SS2-24 J22**
—	—						0.38	**SS2-25**
M4	5						0.38	●**SS2-25 J12**
M4	5						0.37	●**SS2-25 J14**
M4	5						0.36	●**SS2-25 J15**
M4	5	63.3	4.64	6.45	0.47	0.14~0.30	0.36	●**SS2-25 J16**
M5	5						0.34	●**SS2-25 J18**
M5	5						0.33	●**SS2-25 J19**
M5	5						0.33	●**SS2-25 J20**
M5	5						0.31	●**SS2-25 J22**
—	—						0.42	**SS2-26**
M4*	5						0.41	●**SS2-26 J12**
M4	5						0.40	●**SS2-26 J14**
M4	5						0.40	●**SS2-26 J15**
M4	5	66.8	5.04	6.81	0.51	0.14~0.30	0.39	●**SS2-26 J16**
M5	5						0.38	●**SS2-26 J18**
M5	5						0.37	●**SS2-26 J19**
M5	5						0.36	●**SS2-26 J20**
M5	5						0.35	●**SS2-26 J22**
M6	5						0.32	●**SS2-26 J25**
—	—						0.46	**SS2-27**
M4*	5						0.45	●**SS2-27 J12**
M4*	5						0.44	●**SS2-27 J14**
M4*	5						0.44	●**SS2-27 J15**
M4*	5	70.4	5.45	7.17	0.56	0.14~0.30	0.43	●**SS2-27 J16**
M5	5						0.42	●**SS2-27 J18**
M5	5						0.41	●**SS2-27 J19**
M5	5						0.40	●**SS2-27 J20**
M5	5						0.39	●**SS2-27 J22**
M6	5						0.36	●**SS2-27 J25**

[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.

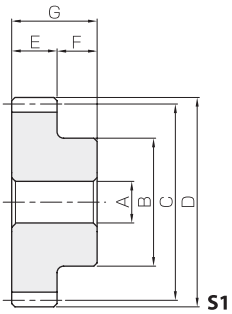
SS
Steel Spur Gears

Module 2



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 J Series products is equivalent to the value shown in the table.

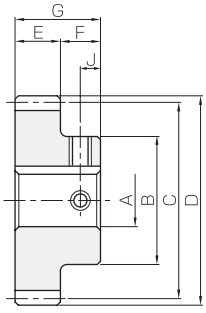


Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Keyway
				A_{H7}	B	C	D	E	F	G	H	I	Width×Depth
SS2-28	*m*2	28	S1	12	45	56	60	20	10	30	—	—	—
●**SS2-28 J12**			S1K	12									4 x 1.8
●**SS2-28 J14**			S1K	14									5 x 2.3
●**SS2-28 J15**			S1K	15									5 x 2.3
●**SS2-28 J16**			S1K	16									5 x 2.3
●**SS2-28 J18**			S1K	18									6 x 2.8
●**SS2-28 J19**			S1K	19									6 x 2.8
●**SS2-28 J20**			S1K	20									6 x 2.8
●**SS2-28 J22**			S1K	22									6 x 2.8
●**SS2-28 J25**			S1K	25									8 x 3.3
SS2-29		29	S1	12	47	58	62	20	10	30	—	—	—
●**SS2-29 J12**			S1K	12									4 x 1.8
●**SS2-29 J14**			S1K	14									5 x 2.3
●**SS2-29 J15**			S1K	15									5 x 2.3
●**SS2-29 J16**			S1K	16									5 x 2.3
●**SS2-29 J18**			S1K	18									6 x 2.8
●**SS2-29 J19**			S1K	19									6 x 2.8
●**SS2-29 J20**			S1K	20									6 x 2.8
●**SS2-29 J22**			S1K	22									6 x 2.8
●**SS2-29 J25**			S1K	25									8 x 3.3
●**SS2-29 J28**			S1K	28									8 x 3.3
SS2-30		30	S1	12	50	60	64	20	10	30	—	—	—
●**SS2-30 J12**			S1K	12									4 x 1.8
●**SS2-30 J14**			S1K	14									5 x 2.3
●**SS2-30 J15**			S1K	15									5 x 2.3
●**SS2-30 J16**			S1K	16									5 x 2.3
●**SS2-30 J18**			S1K	18									6 x 2.8
●**SS2-30 J19**			S1K	19									6 x 2.8
●**SS2-30 J20**			S1K	20									6 x 2.8
●**SS2-30 J22**			S1K	22									6 x 2.8
●**SS2-30 J25**			S1K	25									8 x 3.3
●**SS2-30 J28**			S1K	28									8 x 3.3
●**SS2-30 J30**			S1K	30									8 x 3.3
SS2-32		32	S1	12	50	64	68	20	10	30	—	—	—
●**SS2-32 J12**			S1K	12									4 x 1.8
●**SS2-32 J14**			S1K	14									5 x 2.3
●**SS2-32 J15**			S1K	15									5 x 2.3
●**SS2-32 J16**			S1K	16									5 x 2.3
●**SS2-32 J18**			S1K	18									6 x 2.8
●**SS2-32 J19**			S1K	19									6 x 2.8
●**SS2-32 J20**			S1K	20									6 x 2.8
●**SS2-32 J22**			S1K	22									6 x 2.8
●**SS2-32 J25**			S1K	25									8 x 3.3
●**SS2-32 J28**			S1K	28									8 x 3.3
●**SS2-32 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]
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.

J Series





Set Screw		Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash	Weight	Catalog No.
Size	J	Bending strength	Surface durability	Bending strength	Surface durability	(mm)	(kg)	● : J Series (Available-on-request)
—	—	73.9	5.89	7.54	0.60	0.14~0.30	0.48	**SS2-28**
M4*	5						0.48	●**SS2-28 J12**
M4*	5						0.47	●**SS2-28 J14**
M4*	5						0.46	●**SS2-28 J15**
M4*	5						0.46	●**SS2-28 J16**
M5	5						0.44	●**SS2-28 J18**
M5	5						0.44	●**SS2-28 J19**
M5	5						0.43	●**SS2-28 J20**
M5	5						0.42	●**SS2-28 J22**
M6	5						0.39	●**SS2-28 J25**
—	—	77.5	6.33	7.91	0.65	0.14~0.30	0.52	**SS2-29**
M4*	5						0.52	●**SS2-29 J12**
M4*	5						0.51	●**SS2-29 J14**
M4*	5						0.50	●**SS2-29 J15**
M4*	5						0.50	●**SS2-29 J16**
M5	5						0.48	●**SS2-29 J18**
M5	5						0.48	●**SS2-29 J19**
M5	5						0.47	●**SS2-29 J20**
M5	5						0.46	●**SS2-29 J22**
M6	5						0.43	●**SS2-29 J25**
M6	5						0.40	●**SS2-29 J28**
—	—	81.1	6.80	8.27	0.69	0.14~0.30	0.57	**SS2-30**
M4*	5						0.56	●**SS2-30 J12**
M4*	5						0.55	●**SS2-30 J14**
M4*	5						0.55	●**SS2-30 J15**
M4*	5						0.54	●**SS2-30 J16**
M5	5						0.53	●**SS2-30 J18**
M5	5						0.52	●**SS2-30 J19**
M5	5						0.52	●**SS2-30 J20**
M5	5						0.50	●**SS2-30 J22**
M6	5						0.47	●**SS2-30 J25**
M6	5						0.44	●**SS2-30 J28**
M6	5						0.42	●**SS2-30 J30**
—	—	88.4	7.78	9.01	0.79	0.14~0.30	0.63	**SS2-32**
M4*	5						0.62	●**SS2-32 J12**
M4*	5						0.61	●**SS2-32 J14**
M4*	5						0.61	●**SS2-32 J15**
M4*	5						0.60	●**SS2-32 J16**
M5	5						0.59	●**SS2-32 J18**
M5	5						0.59	●**SS2-32 J19**
M5	5						0.58	●**SS2-32 J20**
M5	5						0.56	●**SS2-32 J22**
M6	5						0.53	●**SS2-32 J25**
M6	5						0.51	●**SS2-32 J28**
M6	5						0.48	●**SS2-32 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.

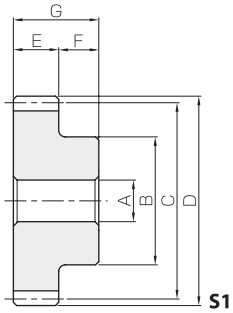
SS
Steel Spur Gears

Module 2



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 J Series products is equivalent to the value shown in the table.

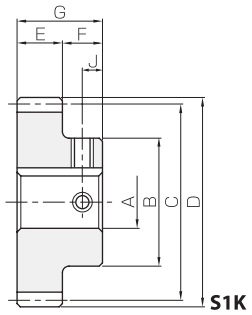


Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Keyway
				A_{H7}	B	C	D	E	F	G	H	I	Width×Depth
SS2-34			S1	12									—
●**SS2-34 J12**			S1K	12									4 x 1.8
●**SS2-34 J14**			S1K	14									5 x 2.3
●**SS2-34 J15**			S1K	15									5 x 2.3
●**SS2-34 J16**			S1K	16									5 x 2.3
●**SS2-34 J18**			S1K	18									6 x 2.8
●**SS2-34 J19**		34	S1K	19	50	68	72	20	10	30	—	—	6 x 2.8
●**SS2-34 J20**			S1K	20									6 x 2.8
●**SS2-34 J22**			S1K	22									6 x 2.8
●**SS2-34 J25**			S1K	25									8 x 3.3
●**SS2-34 J28**			S1K	28									8 x 3.3
●**SS2-34 J30**			S1K	30									8 x 3.3
SS2-35			S1	12									—
●**SS2-35 J12**			S1K	12									4 x 1.8
●**SS2-35 J14**			S1K	14									5 x 2.3
●**SS2-35 J15**			S1K	15									5 x 2.3
●**SS2-35 J16**			S1K	16									5 x 2.3
●**SS2-35 J18**			S1K	18									6 x 2.8
●**SS2-35 J19**		35	S1K	19	52	70	74	20	10	30	—	—	6 x 2.8
●**SS2-35 J20**			S1K	20									6 x 2.8
●**SS2-35 J22**			S1K	22									6 x 2.8
●**SS2-35 J25**			S1K	25									8 x 3.3
●**SS2-35 J28**			S1K	28									8 x 3.3
●**SS2-35 J30**			S1K	30									8 x 3.3
SS2-36	***m2***		S1	12									—
●**SS2-36 J12**			S1K	12									4 x 1.8
●**SS2-36 J14**			S1K	14									5 x 2.3
●**SS2-36 J15**			S1K	15									5 x 2.3
●**SS2-36 J16**			S1K	16									5 x 2.3
●**SS2-36 J18**			S1K	18									6 x 2.8
●**SS2-36 J19**		36	S1K	19	55	72	76	20	10	30	—	—	6 x 2.8
●**SS2-36 J20**			S1K	20									6 x 2.8
●**SS2-36 J22**			S1K	22									6 x 2.8
●**SS2-36 J25**			S1K	25									8 x 3.3
●**SS2-36 J28**			S1K	28									8 x 3.3
●**SS2-36 J30**			S1K	30									8 x 3.3
●**SS2-36 J32**			S1K	32									10 x 3.3
SS2-38			S1	12									—
●**SS2-38 J12**			S1K	12									4 x 1.8
●**SS2-38 J14**			S1K	14									5 x 2.3
●**SS2-38 J15**			S1K	15									5 x 2.3
●**SS2-38 J16**			S1K	16									5 x 2.3
●**SS2-38 J18**			S1K	18									6 x 2.8
●**SS2-38 J19**		38	S1K	19	55	76	80	20	10	30	—	—	6 x 2.8
●**SS2-38 J20**			S1K	20									6 x 2.8
●**SS2-38 J22**			S1K	22									6 x 2.8
●**SS2-38 J25**			S1K	25									8 x 3.3
●**SS2-38 J28**			S1K	28									8 x 3.3
●**SS2-38 J30**			S1K	30									8 x 3.3
●**SS2-38 J32**			S1K	32									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 Avoid performing secondary operations that narrow the tooth width as it affects precision and strength.

J Series





Set Screw		Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash	Weight	Catalog No.
Size	J	Bending strength	Surface durability	Bending strength	Surface durability	(mm)	(kg)	● : J Series (Available-on-request)
—	—	95.7	8.84	9.76	0.90	0.14~0.30	0.70	**SS2-34**
M4*	5						0.69	**●SS2-34 J12**
M4*	5						0.68	**●SS2-34 J14**
M4*	5						0.67	**●SS2-34 J15**
M4*	5						0.67	**●SS2-34 J16**
M5	5						0.66	**●SS2-34 J18**
M5	5						0.65	**●SS2-34 J19**
M5	5						0.64	**●SS2-34 J20**
M5	5						0.63	**●SS2-34 J22**
M6	5						0.60	**●SS2-34 J25**
M6	5						0.57	**●SS2-34 J28**
M6	5						0.55	**●SS2-34 J30**
—	—	99.3	9.39	10.1	0.96	0.14~0.30	0.74	**SS2-35**
M4*	5						0.74	**●SS2-35 J12**
M4*	5						0.73	**●SS2-35 J14**
M4*	5						0.72	**●SS2-35 J15**
M4*	5						0.72	**●SS2-35 J16**
M5	5						0.70	**●SS2-35 J18**
M5	5						0.70	**●SS2-35 J19**
M5	5						0.69	**●SS2-35 J20**
M5	5						0.67	**●SS2-35 J22**
M6	5						0.65	**●SS2-35 J25**
M6	5						0.62	**●SS2-35 J28**
M6	5						0.60	**●SS2-35 J30**
—	—	103	9.96	10.5	1.02	0.14~0.30	0.80	**SS2-36**
M4*	5						0.79	**●SS2-36 J12**
M4*	5						0.78	**●SS2-36 J14**
M4*	5						0.77	**●SS2-36 J15**
M4*	5						0.77	**●SS2-36 J16**
M5*	5						0.76	**●SS2-36 J18**
M5*	5						0.75	**●SS2-36 J19**
M5*	5						0.74	**●SS2-36 J20**
M5	5						0.73	**●SS2-36 J22**
M6	5						0.70	**●SS2-36 J25**
M6	5						0.67	**●SS2-36 J28**
M6	5						0.65	**●SS2-36 J30**
M8	5						0.62	**●SS2-36 J32**
—	—	111	11.2	11.3	1.14	0.14~0.30	0.87	**SS2-38**
M4*	5						0.86	**●SS2-38 J12**
M4*	5						0.85	**●SS2-38 J14**
M4*	5						0.85	**●SS2-38 J15**
M4*	5						0.84	**●SS2-38 J16**
M5*	5						0.83	**●SS2-38 J18**
M5*	5						0.82	**●SS2-38 J19**
M5*	5						0.82	**●SS2-38 J20**
M5	5						0.80	**●SS2-38 J22**
M6	5						0.77	**●SS2-38 J25**
M6	5						0.74	**●SS2-38 J28**
M6	5						0.72	**●SS2-38 J30**
M8	5						0.70	**●SS2-38 J32**

[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.

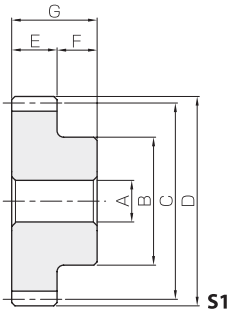
SS
Steel Spur Gears

Module 2



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 J Series products is equivalent to the value shown in the table.

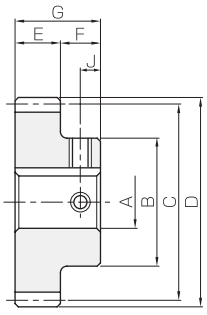


Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Keyway
				A_{H7}	B	C	D	E	F	G	H	I	Width×Depth
SS2-40			S1	15									—
●**SS2-40 J15**			S1K	15									5 x 2.3
●**SS2-40 J16**			S1K	16									5 x 2.3
●**SS2-40 J18**			S1K	18									6 x 2.8
●**SS2-40 J19**			S1K	19									6 x 2.8
●**SS2-40 J20**		40	S1K	20	55	80	84	20	10	30	—	—	6 x 2.8
●**SS2-40 J22**			S1K	22									6 x 2.8
●**SS2-40 J25**			S1K	25									8 x 3.3
●**SS2-40 J28**			S1K	28									8 x 3.3
●**SS2-40 J30**			S1K	30									8 x 3.3
●**SS2-40 J32**			S1K	32									10 x 3.3
SS2-42			S1	15									—
●**SS2-42 J15**			S1K	15									5 x 2.3
●**SS2-42 J16**			S1K	16									5 x 2.3
●**SS2-42 J18**			S1K	18									6 x 2.8
●**SS2-42 J19**			S1K	19									6 x 2.8
●**SS2-42 J20**		42	S1K	20	55	84	88	20	10	30	—	—	6 x 2.8
●**SS2-42 J22**			S1K	22									6 x 2.8
●**SS2-42 J25**			S1K	25									8 x 3.3
●**SS2-42 J28**			S1K	28									8 x 3.3
●**SS2-42 J30**			S1K	30									8 x 3.3
●**SS2-42 J32**			S1K	32									10 x 3.3
SS2-44			S1	15									—
●**SS2-44 J15**			S1K	15									5 x 2.3
●**SS2-44 J16**			S1K	16									5 x 2.3
●**SS2-44 J18**			S1K	18									6 x 2.8
●**SS2-44 J19**			S1K	19									6 x 2.8
●**SS2-44 J20**	***m*2**	44	S1K	20	55	88	92	20	10	30	—	—	6 x 2.8
●**SS2-44 J22**			S1K	22									6 x 2.8
●**SS2-44 J25**			S1K	25									8 x 3.3
●**SS2-44 J28**			S1K	28									8 x 3.3
●**SS2-44 J30**			S1K	30									8 x 3.3
●**SS2-44 J32**			S1K	32									10 x 3.3
SS2-45			S1	15									—
●**SS2-45 J15**			S1K	15									5 x 2.3
●**SS2-45 J16**			S1K	16									5 x 2.3
●**SS2-45 J18**			S1K	18									6 x 2.8
●**SS2-45 J19**			S1K	19									6 x 2.8
●**SS2-45 J20**		45	S1K	20	55	90	94	20	10	30	—	—	6 x 2.8
●**SS2-45 J22**			S1K	22									6 x 2.8
●**SS2-45 J25**			S1K	25									8 x 3.3
●**SS2-45 J28**			S1K	28									8 x 3.3
●**SS2-45 J30**			S1K	30									8 x 3.3
●**SS2-45 J32**			S1K	32									10 x 3.3
SS2-46			S1	15									—
●**SS2-46 J15**			S1K	15									5 x 2.3
●**SS2-46 J16**			S1K	16									5 x 2.3
●**SS2-46 J18**			S1K	18									6 x 2.8
●**SS2-46 J19**			S1K	19									6 x 2.8
●**SS2-46 J20**		46	S1K	20	55	92	96	20	10	30	—	—	6 x 2.8
●**SS2-46 J22**			S1K	22									6 x 2.8
●**SS2-46 J25**			S1K	25									8 x 3.3
●**SS2-46 J28**			S1K	28									8 x 3.3
●**SS2-46 J30**			S1K	30									8 x 3.3
●**SS2-46 J32**			S1K	32									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 Avoid performing secondary operations that narrow the tooth width as it affects precision and strength.

J Series





Set Screw		Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash	Weight	Catalog No.
Size	J	Bending strength	Surface durability	Bending strength	Surface durability	(mm)	(kg)	● : J Series (Available-on-request)
—	—						0.93	**SS2-40**
M4*	5						0.92	●**SS2-40 J15**
M4*	5						0.92	●**SS2-40 J16**
M5*	5						0.91	●**SS2-40 J18**
M5*	5						0.90	●**SS2-40 J19**
M5*	5	118	12.5	12.0	1.27	0.14~0.30	0.89	●**SS2-40 J20**
M5	5						0.88	●**SS2-40 J22**
M6	5						0.85	●**SS2-40 J25**
M6	5						0.82	●**SS2-40 J28**
M6	5						0.80	●**SS2-40 J30**
M8	5						0.77	●**SS2-40 J32**
—	—						1.01	**SS2-42**
M4*	5						1.01	●**SS2-42 J15**
M4*	5						1.00	●**SS2-42 J16**
M5*	5						0.99	●**SS2-42 J18**
M5*	5						0.98	●**SS2-42 J19**
M5*	5	125	13.8	12.8	1.41	0.18~0.36	0.97	●**SS2-42 J20**
M5	5						0.96	●**SS2-42 J22**
M6	5						0.93	●**SS2-42 J25**
M6	5						0.90	●**SS2-42 J28**
M6	5						0.88	●**SS2-42 J30**
M8	5						0.85	●**SS2-42 J32**
—	—						1.10	**SS2-44**
M4*	5						1.09	●**SS2-44 J15**
M4*	5						1.08	●**SS2-44 J16**
M5*	5						1.07	●**SS2-44 J18**
M5*	5						1.07	●**SS2-44 J19**
M5*	5	133	15.2	13.6	1.55	0.18~0.36	1.06	●**SS2-44 J20**
M5	5						1.04	●**SS2-44 J22**
M6	5						1.02	●**SS2-44 J25**
M6	5						0.99	●**SS2-44 J28**
M6	5						0.97	●**SS2-44 J30**
M8	5						0.94	●**SS2-44 J32**
—	—						1.14	**SS2-45**
M4*	5						1.13	●**SS2-45 J15**
M4*	5						1.13	●**SS2-45 J16**
M5*	5						1.12	●**SS2-45 J18**
M5*	5						1.11	●**SS2-45 J19**
M5*	5	137	16.0	13.9	1.63	0.18~0.36	1.10	●**SS2-45 J20**
M5	5						1.09	●**SS2-45 J22**
M6	5						1.06	●**SS2-45 J25**
M6	5						1.03	●**SS2-45 J28**
M6	5						1.01	●**SS2-45 J30**
M8	5						0.98	●**SS2-45 J32**
—	—						1.19	**SS2-46**
M4*	5						1.18	●**SS2-46 J15**
M4*	5						1.17	●**SS2-46 J16**
M5*	5						1.16	●**SS2-46 J18**
M5*	5						1.15	●**SS2-46 J19**
M5*	5	140	16.7	14.3	1.71	0.18~0.36	1.15	●**SS2-46 J20**
M5	5						1.13	●**SS2-46 J22**
M6	5						1.10	●**SS2-46 J25**
M6	5						1.08	●**SS2-46 J28**
M6	5						1.05	●**SS2-46 J30**
M8	5						1.03	●**SS2-46 J32**

[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.

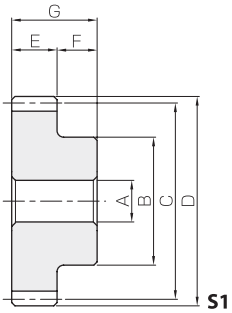
SS
Steel Spur Gears

Module 2



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 J Series products is equivalent to the value shown in the table.

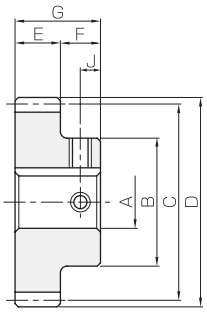


Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Keyway
				A_{H7}	B	C	D	E	F	G	H	I	Width×Depth
SS2-48			S1	15									—
●**SS2-48 J15**			S1K	15									5 x 2.3
●**SS2-48 J16**			S1K	16									5 x 2.3
●**SS2-48 J18**			S1K	18									6 x 2.8
●**SS2-48 J19**			S1K	19									6 x 2.8
●**SS2-48 J20**		48	S1K	20	55	96	100	20	10	30	—	—	6 x 2.8
●**SS2-48 J22**			S1K	22									6 x 2.8
●**SS2-48 J25**			S1K	25									8 x 3.3
●**SS2-48 J28**			S1K	28									8 x 3.3
●**SS2-48 J30**			S1K	30									8 x 3.3
●**SS2-48 J32**			S1K	32									10 x 3.3
SS2-50			S1	15									—
●**SS2-50 J15**			S1K	15									5 x 2.3
●**SS2-50 J16**			S1K	16									5 x 2.3
●**SS2-50 J18**			S1K	18									6 x 2.8
●**SS2-50 J19**			S1K	19									6 x 2.8
●**SS2-50 J20**		50	S1K	20	55	100	104	20	10	30	—	—	6 x 2.8
●**SS2-50 J22**			S1K	22									6 x 2.8
●**SS2-50 J25**			S1K	25									8 x 3.3
●**SS2-50 J28**			S1K	28									8 x 3.3
●**SS2-50 J30**			S1K	30									8 x 3.3
●**SS2-50 J32**			S1K	32									10 x 3.3
SS2-52			S1	15									—
●**SS2-52 J15**			S1K	15									5 x 2.3
●**SS2-52 J16**			S1K	16									5 x 2.3
●**SS2-52 J18**			S1K	18									6 x 2.8
●**SS2-52 J19**			S1K	19									6 x 2.8
●**SS2-52 J20**	***m*2**	52	S1K	20	55	104	108	20	10	30	—	—	6 x 2.8
●**SS2-52 J22**			S1K	22									6 x 2.8
●**SS2-52 J25**			S1K	25									8 x 3.3
●**SS2-52 J28**			S1K	28									8 x 3.3
●**SS2-52 J30**			S1K	30									8 x 3.3
●**SS2-52 J32**			S1K	32									10 x 3.3
SS2-54			S1	15									—
●**SS2-54 J15**			S1K	15									5 x 2.3
●**SS2-54 J16**			S1K	16									5 x 2.3
●**SS2-54 J18**			S1K	18									6 x 2.8
●**SS2-54 J19**			S1K	19									6 x 2.8
●**SS2-54 J20**		54	S1K	20	55	108	112	20	10	30	—	—	6 x 2.8
●**SS2-54 J22**			S1K	22									6 x 2.8
●**SS2-54 J25**			S1K	25									8 x 3.3
●**SS2-54 J28**			S1K	28									8 x 3.3
●**SS2-54 J30**			S1K	30									8 x 3.3
●**SS2-54 J32**			S1K	32									10 x 3.3
SS2-55			S1	15									—
●**SS2-55 J15**			S1K	15									5 x 2.3
●**SS2-55 J16**			S1K	16									5 x 2.3
●**SS2-55 J18**			S1K	18									6 x 2.8
●**SS2-55 J19**			S1K	19									6 x 2.8
●**SS2-55 J20**		55	S1K	20	55	110	114	20	10	30	—	—	6 x 2.8
●**SS2-55 J22**			S1K	22									6 x 2.8
●**SS2-55 J25**			S1K	25									8 x 3.3
●**SS2-55 J28**			S1K	28									8 x 3.3
●**SS2-55 J30**			S1K	30									8 x 3.3
●**SS2-55 J32**			S1K	32									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 Avoid performing secondary operations that narrow the tooth width as it affects precision and strength.

J Series





Set Screw		Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash	Weight	Catalog No.
Size	J	Bending strength	Surface durability	Bending strength	Surface durability	(mm)	(kg)	● : J Series (Available-on-request)
—	—						1.28	**SS2-48**
M4*	5						1.27	●**SS2-48 J15**
M4*	5						1.27	●**SS2-48 J16**
M5*	5						1.25	●**SS2-48 J18**
M5*	5						1.25	●**SS2-48 J19**
M5*	5	148	18.3	15.1	1.87	0.18~0.36	1.24	●**SS2-48 J20**
M5	5						1.23	●**SS2-48 J22**
M6	5						1.20	●**SS2-48 J25**
M6	5						1.17	●**SS2-48 J28**
M6	5						1.15	●**SS2-48 J30**
M8	5						1.12	●**SS2-48 J32**
—	—						1.38	**SS2-50**
M4*	5						1.37	●**SS2-50 J15**
M4*	5						1.36	●**SS2-50 J16**
M5*	5						1.35	●**SS2-50 J18**
M5*	5						1.34	●**SS2-50 J19**
M5*	5	156	19.9	15.9	2.03	0.18~0.36	1.34	●**SS2-50 J20**
M5	5						1.32	●**SS2-50 J22**
M6	5						1.29	●**SS2-50 J25**
M6	5						1.26	●**SS2-50 J28**
M6	5						1.24	●**SS2-50 J30**
M8	5						1.22	●**SS2-50 J32**
—	—						1.48	**SS2-52**
M4*	5						1.47	●**SS2-52 J15**
M4*	5						1.46	●**SS2-52 J16**
M5*	5						1.45	●**SS2-52 J18**
M5*	5						1.44	●**SS2-52 J19**
M5*	5	163	21.7	16.6	2.21	0.18~0.36	1.44	●**SS2-52 J20**
M5	5						1.42	●**SS2-52 J22**
M6	5						1.39	●**SS2-52 J25**
M6	5						1.37	●**SS2-52 J28**
M6	5						1.34	●**SS2-52 J30**
M8	5						1.32	●**SS2-52 J32**
—	—						1.58	**SS2-54**
M4*	5						1.57	●**SS2-54 J15**
M4*	5						1.57	●**SS2-54 J16**
M5*	5						1.56	●**SS2-54 J18**
M5*	5						1.55	●**SS2-54 J19**
M5*	5	171	23.4	17.4	2.39	0.18~0.36	1.54	●**SS2-54 J20**
M5	5						1.53	●**SS2-54 J22**
M6	5						1.50	●**SS2-54 J25**
M6	5						1.47	●**SS2-54 J28**
M6	5						1.45	●**SS2-54 J30**
M8	5						1.42	●**SS2-54 J32**
—	—						1.64	**SS2-55**
M4*	5						1.63	●**SS2-55 J15**
M4*	5						1.62	●**SS2-55 J16**
M5*	5						1.61	●**SS2-55 J18**
M5*	5						1.60	●**SS2-55 J19**
M5*	5	175	24.4	17.8	2.48	0.18~0.36	1.60	●**SS2-55 J20**
M5	5						1.58	●**SS2-55 J22**
M6	5						1.55	●**SS2-55 J25**
M6	5						1.52	●**SS2-55 J28**
M6	5						1.50	●**SS2-55 J30**
M8	5						1.48	●**SS2-55 J32**

[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.

SS

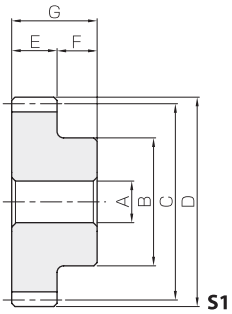
Steel Spur Gears

Module 2



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 J Series products is equivalent to the value shown in the table.

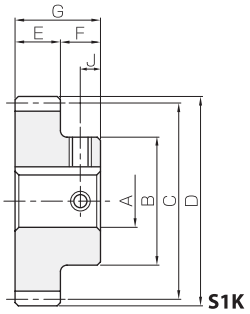


Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Keyway
				A_{H7}	B	C	D	E	F	G	H	I	Width×Depth
SS2-56			S1	15									—
●**SS2-56 J15**			S1K	15									5 x 2.3
●**SS2-56 J16**			S1K	16									5 x 2.3
●**SS2-56 J18**			S1K	18									6 x 2.8
●**SS2-56 J19**			S1K	19									6 x 2.8
●**SS2-56 J20**		56	S1K	20	55	112	116	20	10	30	—	—	6 x 2.8
●**SS2-56 J22**			S1K	22									6 x 2.8
●**SS2-56 J25**			S1K	25									8 x 3.3
●**SS2-56 J28**			S1K	28									8 x 3.3
●**SS2-56 J30**			S1K	30									8 x 3.3
●**SS2-56 J32**			S1K	32									10 x 3.3
SS2-58			S1	15									—
●**SS2-58 J15**			S1K	15									5 x 2.3
●**SS2-58 J16**			S1K	16									5 x 2.3
●**SS2-58 J18**			S1K	18									6 x 2.8
●**SS2-58 J19**			S1K	19									6 x 2.8
●**SS2-58 J20**			S1K	20									6 x 2.8
●**SS2-58 J22**		58	S1K	22	60	116	120	20	10	30	—	—	6 x 2.8
●**SS2-58 J25**			S1K	25									8 x 3.3
●**SS2-58 J28**			S1K	28									8 x 3.3
●**SS2-58 J30**			S1K	30									8 x 3.3
●**SS2-58 J32**			S1K	32									10 x 3.3
●**SS2-58 J35**			S1K	35									10 x 3.3
SS2-60	***m*2**		S1	15									—
●**SS2-60 J15**			S1K	15									5 x 2.3
●**SS2-60 J16**			S1K	16									5 x 2.3
●**SS2-60 J18**			S1K	18									6 x 2.8
●**SS2-60 J19**			S1K	19									6 x 2.8
●**SS2-60 J20**			S1K	20									6 x 2.8
●**SS2-60 J22**		60	S1K	22	60	120	124	20	10	30	—	—	6 x 2.8
●**SS2-60 J25**			S1K	25									8 x 3.3
●**SS2-60 J28**			S1K	28									8 x 3.3
●**SS2-60 J30**			S1K	30									8 x 3.3
●**SS2-60 J32**			S1K	32									10 x 3.3
●**SS2-60 J35**			S1K	35									10 x 3.3
SS2-62			S1	15									—
●**SS2-62 J15**			S1K	15									5 x 2.3
●**SS2-62 J16**			S1K	16									5 x 2.3
●**SS2-62 J18**			S1K	18									6 x 2.8
●**SS2-62 J19**			S1K	19									6 x 2.8
●**SS2-62 J20**			S1K	20									6 x 2.8
●**SS2-62 J22**		62	S1K	22	60	124	128	20	10	30	—	—	6 x 2.8
●**SS2-62 J25**			S1K	25									8 x 3.3
●**SS2-62 J28**			S1K	28									8 x 3.3
●**SS2-62 J30**			S1K	30									8 x 3.3
●**SS2-62 J32**			S1K	32									10 x 3.3
●**SS2-62 J35**			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 Avoid performing secondary operations that narrow the tooth width as it affects precision and strength.

J Series





Set Screw		Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash	Weight	Catalog No.
Size	J	Bending strength	Surface durability	Bending strength	Surface durability	(mm)	(kg)	● : J Series (Available-on-request)
—	—						1.69	**SS2-56**
M4*	5						1.68	●**SS2-56 J15**
M4*	5						1.68	●**SS2-56 J16**
M5*	5						1.66	●**SS2-56 J18**
M5*	5						1.66	●**SS2-56 J19**
M5*	5	179	25.3	18.2	2.58	0.18~0.36	1.65	●**SS2-56 J20**
M5	5						1.64	●**SS2-56 J22**
M6	5						1.61	●**SS2-56 J25**
M6	5						1.58	●**SS2-56 J28**
M6	5						1.56	●**SS2-56 J30**
M8	5						1.53	●**SS2-56 J32**
—	—						1.84	**SS2-58**
M4*	5						1.83	●**SS2-58 J15**
M4*	5						1.82	●**SS2-58 J16**
M5*	5						1.81	●**SS2-58 J18**
M5*	5						1.80	●**SS2-58 J19**
M5*	5						1.80	●**SS2-58 J20**
M5*	5	186	27.3	19.0	2.78	0.18~0.36	1.78	●**SS2-58 J22**
M6	5						1.75	●**SS2-58 J25**
M6	5						1.73	●**SS2-58 J28**
M6	5						1.70	●**SS2-58 J30**
M8	5						1.68	●**SS2-58 J32**
M8	5						1.64	●**SS2-58 J35**
—	—						1.96	**SS2-60**
M4*	5						1.94	●**SS2-60 J15**
M4*	5						1.94	●**SS2-60 J16**
M5*	5						1.93	●**SS2-60 J18**
M5*	5						1.92	●**SS2-60 J19**
M5*	5						1.91	●**SS2-60 J20**
M5*	5	194	29.3	19.8	2.99	0.18~0.36	1.90	●**SS2-60 J22**
M6	5						1.87	●**SS2-60 J25**
M6	5						1.84	●**SS2-60 J28**
M6	5						1.82	●**SS2-60 J30**
M8	5						1.79	●**SS2-60 J32**
M8	5						1.76	●**SS2-60 J35**
—	—						2.08	**SS2-62**
M4*	5						2.06	●**SS2-62 J15**
M4*	5						2.06	●**SS2-62 J16**
M5*	5						2.05	●**SS2-62 J18**
M5*	5						2.04	●**SS2-62 J19**
M5*	5						2.03	●**SS2-62 J20**
M5*	5	202	31.5	20.6	3.21	0.18~0.36	2.02	●**SS2-62 J22**
M6	5						1.99	●**SS2-62 J25**
M6	5						1.96	●**SS2-62 J28**
M6	5						1.94	●**SS2-62 J30**
M8	5						1.91	●**SS2-62 J32**
M8	5						1.88	●**SS2-62 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.

SS

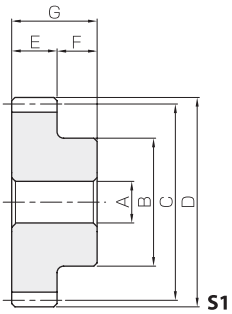
Steel Spur Gears

Module 2



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 J Series products is equivalent to the value shown in the table.

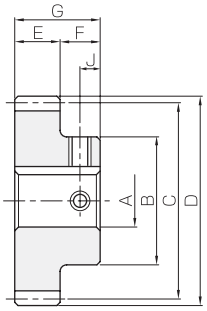


Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Keyway
				A_{H7}	B	C	D	E	F	G	H	I	Width×Depth
SS2-64			S1	15									—
●SS2-64 J15			S1K	15									5 x 2.3
●SS2-64 J16			S1K	16									5 x 2.3
●SS2-64 J18			S1K	18									6 x 2.8
●SS2-64 J19			S1K	19									6 x 2.8
●SS2-64 J20			S1K	20									6 x 2.8
●SS2-64 J22		64	S1K	22	60	128	132	20	10	30	—	—	6 x 2.8
●SS2-64 J25			S1K	25									8 x 3.3
●SS2-64 J28			S1K	28									8 x 3.3
●SS2-64 J30			S1K	30									8 x 3.3
●SS2-64 J32			S1K	32									10 x 3.3
●SS2-64 J35			S1K	35									10 x 3.3
SS2-65			S1	15									—
●SS2-65 J15			S1K	15									5 x 2.3
●SS2-65 J16			S1K	16									5 x 2.3
●SS2-65 J18			S1K	18									6 x 2.8
●SS2-65 J19			S1K	19									6 x 2.8
●SS2-65 J20			S1K	20									6 x 2.8
●SS2-65 J22		65	S1K	22	60	130	134	20	10	30	—	—	6 x 2.8
●SS2-65 J25			S1K	25									8 x 3.3
●SS2-65 J28			S1K	28									8 x 3.3
●SS2-65 J30			S1K	30									8 x 3.3
●SS2-65 J32			S1K	32									10 x 3.3
●SS2-65 J35	*m*2		S1K	35									10 x 3.3
SS2-66			S1	15									—
●SS2-66 J15			S1K	15									5 x 2.3
●SS2-66 J16			S1K	16									5 x 2.3
●SS2-66 J18			S1K	18									6 x 2.8
●SS2-66 J19			S1K	19									6 x 2.8
●SS2-66 J20			S1K	20									6 x 2.8
●SS2-66 J22		66	S1K	22	60	132	136	20	10	30	—	—	6 x 2.8
●SS2-66 J25			S1K	25									8 x 3.3
●SS2-66 J28			S1K	28									8 x 3.3
●SS2-66 J30			S1K	30									8 x 3.3
●SS2-66 J32			S1K	32									10 x 3.3
●SS2-66 J35			S1K	35									10 x 3.3
SS2-68			S1	15									—
●SS2-68 J15			S1K	15									5 x 2.3
●SS2-68 J16			S1K	16									5 x 2.3
●SS2-68 J18			S1K	18									6 x 2.8
●SS2-68 J19			S1K	19									6 x 2.8
●SS2-68 J20			S1K	20									6 x 2.8
●SS2-68 J22		68	S1K	22	60	136	140	20	10	30	—	—	6 x 2.8
●SS2-68 J25			S1K	25									8 x 3.3
●SS2-68 J28			S1K	28									8 x 3.3
●SS2-68 J30			S1K	30									8 x 3.3
●SS2-68 J32			S1K	32									10 x 3.3
●SS2-68 J35			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 Avoid performing secondary operations that narrow the tooth width as it affects precision and strength.

J Series





Set Screw		Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash	Weight	Catalog No.
Size	J	Bending strength	Surface durability	Bending strength	Surface durability	(mm)	(kg)	● : J Series (Available-on-request)
—	—	209	33.7	21.3	3.44	0.18~0.36	2.20	**SS2-64**
M4*	5						2.19	● **SS2-64 J15**
M4*	5						2.18	● **SS2-64 J16**
M5*	5						2.17	● **SS2-64 J18**
M5*	5						2.16	● **SS2-64 J19**
M5*	5						2.16	● **SS2-64 J20**
M5*	5						2.14	● **SS2-64 J22**
M6	5						2.12	● **SS2-64 J25**
M6	5						2.09	● **SS2-64 J28**
M6	5						2.07	● **SS2-64 J30**
M8	5						2.04	● **SS2-64 J32**
M8	5						2.00	● **SS2-64 J35**
—	—	213	34.8	21.7	3.55	0.18~0.36	2.26	**SS2-65**
M4*	5						2.25	● **SS2-65 J15**
M4*	5						2.25	● **SS2-65 J16**
M5*	5						2.23	● **SS2-65 J18**
M5*	5						2.23	● **SS2-65 J19**
M5*	5						2.22	● **SS2-65 J20**
M5*	5						2.21	● **SS2-65 J22**
M6	5						2.18	● **SS2-65 J25**
M6	5						2.15	● **SS2-65 J28**
M6	5						2.13	● **SS2-65 J30**
M8	5						2.10	● **SS2-65 J32**
M8	5						2.07	● **SS2-65 J35**
—	—	217	36.0	22.1	3.67	0.18~0.36	2.33	**SS2-66**
M4*	5						2.32	● **SS2-66 J15**
M4*	5						2.31	● **SS2-66 J16**
M5*	5						2.30	● **SS2-66 J18**
M5*	5						2.29	● **SS2-66 J19**
M5*	5						2.29	● **SS2-66 J20**
M5*	5						2.27	● **SS2-66 J22**
M6	5						2.24	● **SS2-66 J25**
M6	5						2.21	● **SS2-66 J28**
M6	5						2.19	● **SS2-66 J30**
M8	5						2.17	● **SS2-66 J32**
M8	5						2.13	● **SS2-66 J35**
—	—	225	38.4	22.9	3.91	0.18~0.36	2.46	**SS2-68**
M4*	5						2.45	● **SS2-68 J15**
M4*	5						2.44	● **SS2-68 J16**
M5*	5						2.43	● **SS2-68 J18**
M5*	5						2.42	● **SS2-68 J19**
M5*	5						2.42	● **SS2-68 J20**
M5*	5						2.40	● **SS2-68 J22**
M6	5						2.38	● **SS2-68 J25**
M6	5						2.35	● **SS2-68 J28**
M6	5						2.33	● **SS2-68 J30**
M8	5						2.30	● **SS2-68 J32**
M8	5						2.26	● **SS2-68 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.

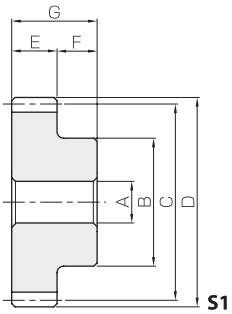
SS
Steel Spur Gears

Module 2



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 J Series products is equivalent to the value shown in the table.

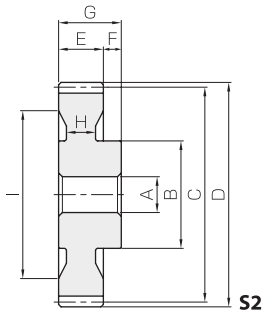


Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Keyway
				A_{H7}	B	C	D	E	F	G	H	I	Width×Depth
SS2-70	m2	70	S1	15	60	140	144	20	10	30	—	—	—
●SS2-70 J15			S1K	15									5 x 2.3
●SS2-70 J16			S1K	16									5 x 2.3
●SS2-70 J18			S1K	18									6 x 2.8
●SS2-70 J19			S1K	19									6 x 2.8
●SS2-70 J20			S1K	20									6 x 2.8
●SS2-70 J22			S1K	22									6 x 2.8
●SS2-70 J25			S1K	25									8 x 3.3
●SS2-70 J28			S1K	28									8 x 3.3
●SS2-70 J30			S1K	30									8 x 3.3
●SS2-70 J32			S1K	32									10 x 3.3
●SS2-70 J35			S1K	35									10 x 3.3
SS2-72		72	S1	15	60	144	148	20	10	30	—	—	—
●SS2-72 J15			S1K	15									5 x 2.3
●SS2-72 J16			S1K	16									5 x 2.3
●SS2-72 J18			S1K	18									6 x 2.8
●SS2-72 J19			S1K	19									6 x 2.8
●SS2-72 J20			S1K	20									6 x 2.8
●SS2-72 J22			S1K	22									6 x 2.8
●SS2-72 J25			S1K	25									8 x 3.3
●SS2-72 J28			S1K	28									8 x 3.3
●SS2-72 J30			S1K	30									8 x 3.3
●SS2-72 J32			S1K	32									10 x 3.3
●SS2-72 J35			S1K	35									10 x 3.3
SS2-75		75	S1	20	60	150	154	20	10	30	—	—	—
●SS2-75 J20			S1K	20									6 x 2.8
●SS2-75 J22			S1K	22									6 x 2.8
●SS2-75 J25			S1K	25									8 x 3.3
●SS2-75 J28			S1K	28									8 x 3.3
●SS2-75 J30			S1K	30									8 x 3.3
●SS2-75 J32			S1K	32									10 x 3.3
●SS2-75 J35			S1K	35									10 x 3.3
SS2-76		76	S1	20	60	152	156	20	10	30	—	—	—
●SS2-76 J20			S1K	20									6 x 2.8
●SS2-76 J22			S1K	22									6 x 2.8
●SS2-76 J25			S1K	25									8 x 3.3
●SS2-76 J28			S1K	28									8 x 3.3
●SS2-76 J30			S1K	30									8 x 3.3
●SS2-76 J32			S1K	32									10 x 3.3
●SS2-76 J35			S1K	35									10 x 3.3
SS2-80		80	S2	20	60	160	164	20	10	30	12	136	—
●SS2-80 J20			S2K	20									6 x 2.8
●SS2-80 J22			S2K	22									6 x 2.8
●SS2-80 J25			S2K	25									8 x 3.3
●SS2-80 J28			S2K	28									8 x 3.3
●SS2-80 J30			S2K	30									8 x 3.3
●SS2-80 J32			S2K	32									10 x 3.3
●SS2-80 J35			S2K	35									10 x 3.3

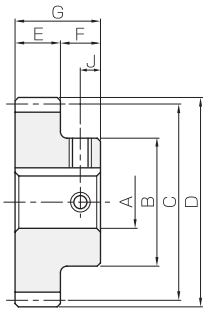
[Caution on Product Characteristics]
① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair 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 Avoid performing secondary operations that narrow the tooth width as it affects precision and strength.

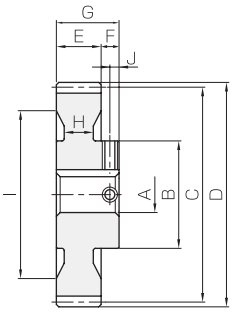
J Series



S2



S1K



S2K



Set Screw		Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash	Weight	Catalog No.
Size	J	Bending strength	Surface durability	Bending strength	Surface durability	(mm)	(kg)	● : J Series (Available-on-request)
—	—	232	40.8	23.7	4.16	0.18~0.36	2.60	**SS2-70**
M4*	5						2.59	●**SS2-70 J15**
M4*	5						2.58	●**SS2-70 J16**
M5*	5						2.57	●**SS2-70 J18**
M5*	5						2.56	●**SS2-70 J19**
M5*	5						2.55	●**SS2-70 J20**
M5*	5						2.54	●**SS2-70 J22**
M6	5						2.51	●**SS2-70 J25**
M6	5						2.48	●**SS2-70 J28**
M6	5						2.46	●**SS2-70 J30**
M8	5						2.43	●**SS2-70 J32**
M8	5						2.40	●**SS2-70 J35**
—	—	240	43.3	24.5	4.42	0.18~0.36	2.74	**SS2-72**
M4*	5						2.73	●**SS2-72 J15**
M4*	5						2.72	●**SS2-72 J16**
M5*	5						2.71	●**SS2-72 J18**
M5*	5						2.70	●**SS2-72 J19**
M5*	5						2.69	●**SS2-72 J20**
M5*	5						2.68	●**SS2-72 J22**
M6	5						2.65	●**SS2-72 J25**
M6	5						2.62	●**SS2-72 J28**
M6	5						2.60	●**SS2-72 J30**
M8	5						2.57	●**SS2-72 J32**
M8	5						2.54	●**SS2-72 J35**
—	—	252	47.3	25.7	4.82	0.18~0.36	2.92	**SS2-75**
M5*	5						2.91	●**SS2-75 J20**
M5*	5						2.90	●**SS2-75 J22**
M6	5						2.87	●**SS2-75 J25**
M6	5						2.84	●**SS2-75 J28**
M6	5						2.82	●**SS2-75 J30**
M8	5						2.79	●**SS2-75 J32**
M8	5						2.76	●**SS2-75 J35**
—	—	256	48.6	26.1	4.96	0.18~0.36	3.00	**SS2-76**
M5*	5						2.99	●**SS2-76 J20**
M5*	5						2.97	●**SS2-76 J22**
M6	5						2.94	●**SS2-76 J25**
M6	5						2.92	●**SS2-76 J28**
M6	5						2.89	●**SS2-76 J30**
M8	5						2.87	●**SS2-76 J32**
M8	5						2.83	●**SS2-76 J35**
—	—	271	54.3	27.7	5.53	0.18~0.36	2.67	**SS2-80**
M5*	5						2.66	●**SS2-80 J20**
M5*	5						2.65	●**SS2-80 J22**
M6	5						2.62	●**SS2-80 J25**
M6	5						2.59	●**SS2-80 J28**
M6	5						2.57	●**SS2-80 J30**
M8	5						2.54	●**SS2-80 J32**
M8	5						2.50	●**SS2-80 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.

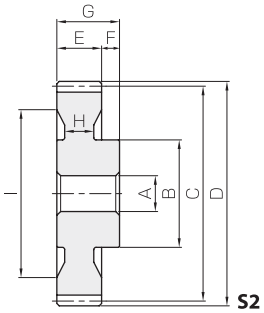
SS
Steel Spur Gears

Module 2



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

* J Series products corresponds to an 'equivalent.

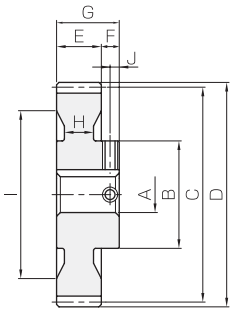


Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Keyway
				A_{H7}	B	C	D	E	F	G	H	I	Width×Depth
SS2-84			S2	20									—
●**SS2-84 J20**			S2K	20									6 x 2.8
●**SS2-84 J22**			S2K	22									6 x 2.8
●**SS2-84 J25**		84	S2K	25	70	168	172	20	10	30	12	140	8 x 3.3
●**SS2-84 J28**			S2K	28									8 x 3.3
●**SS2-84 J30**			S2K	30									8 x 3.3
●**SS2-84 J32**			S2K	32									10 x 3.3
●**SS2-84 J35**			S2K	35									10 x 3.3
SS2-85			S2	20									—
●**SS2-85 J20**			S2K	20									6 x 2.8
●**SS2-85 J22**			S2K	22									6 x 2.8
●**SS2-85 J25**		85	S2K	25	70	170	174	20	10	30	12	146	8 x 3.3
●**SS2-85 J28**			S2K	28									8 x 3.3
●**SS2-85 J30**			S2K	30									8 x 3.3
●**SS2-85 J32**			S2K	32									10 x 3.3
●**SS2-85 J35**			S2K	35									10 x 3.3
SS2-88			S2	20									—
●**SS2-88 J20**			S2K	20									6 x 2.8
●**SS2-88 J22**			S2K	22									6 x 2.8
●**SS2-88 J25**		88	S2K	25	70	176	180	20	10	30	12	150	8 x 3.3
●**SS2-88 J28**			S2K	28									8 x 3.3
●**SS2-88 J30**			S2K	30									8 x 3.3
●**SS2-88 J32**			S2K	32									10 x 3.3
●**SS2-88 J35**			S2K	35									10 x 3.3
SS2-90	*m*2		S2	20									—
●**SS2-90 J20**			S2K	20									6 x 2.8
●**SS2-90 J22**			S2K	22									6 x 2.8
●**SS2-90 J25**		90	S2K	25	70	180	184	20	10	30	12	156	8 x 3.3
●**SS2-90 J28**			S2K	28									8 x 3.3
●**SS2-90 J30**			S2K	30									8 x 3.3
●**SS2-90 J32**			S2K	32									10 x 3.3
●**SS2-90 J35**			S2K	35									10 x 3.3
SS2-95			S2	20									—
●**SS2-95 J20**			S2K	20									6 x 2.8
●**SS2-95 J22**			S2K	22									6 x 2.8
●**SS2-95 J25**		95	S2K	25	70	190	194	20	10	30	12	166	8 x 3.3
●**SS2-95 J28**			S2K	28									8 x 3.3
●**SS2-95 J30**			S2K	30									8 x 3.3
●**SS2-95 J32**			S2K	32									10 x 3.3
●**SS2-95 J35**			S2K	35									10 x 3.3
SS2-100			S2	20									—
●**SS2-100 J20**			S2K	20									6 x 2.8
●**SS2-100 J22**			S2K	22									6 x 2.8
●**SS2-100 J25**		100	S2K	25	70	200	204	20	10	30	12	176	8 x 3.3
●**SS2-100 J28**			S2K	28									8 x 3.3
●**SS2-100 J30**			S2K	30									8 x 3.3
●**SS2-100 J32**			S2K	32									10 x 3.3
●**SS2-100 J35**			S2K	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 Avoid performing secondary operations that narrow the tooth width as it affects precision and strength.

J Series



S2K



Set Screw		Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash	Weight	Catalog No.
Size	J	Bending strength	Surface durability	Bending strength	Surface durability	(mm)	(kg)	● : J Series (Available-on-request)
—	—	287	60.2	29.2	6.14	0.20~0.44	3.09	**SS2-84**
M5*	5						3.07	●**SS2-84 J20**
M5*	5						3.06	●**SS2-84 J22**
M6*	5						3.03	●**SS2-84 J25**
M6*	5						3.00	●**SS2-84 J28**
M6	5						2.98	●**SS2-84 J30**
M8	5						2.95	●**SS2-84 J32**
M8	5						2.92	●**SS2-84 J35**
—	—	291	61.7	29.6	6.30	0.20~0.44	3.09	**SS2-85**
M5*	5						3.08	●**SS2-85 J20**
M5*	5						3.06	●**SS2-85 J22**
M6*	5						3.03	●**SS2-85 J25**
M6*	5						3.01	●**SS2-85 J28**
M6	5						2.99	●**SS2-85 J30**
M8	5						2.96	●**SS2-85 J32**
M8	5						2.92	●**SS2-85 J35**
—	—	302	66.5	30.8	6.78	0.20~0.44	3.29	**SS2-88**
M5*	5						3.28	●**SS2-88 J20**
M5*	5						3.26	●**SS2-88 J22**
M6*	5						3.23	●**SS2-88 J25**
M6*	5						3.21	●**SS2-88 J28**
M6	5						3.19	●**SS2-88 J30**
M8	5						3.16	●**SS2-88 J32**
M8	5						3.12	●**SS2-88 J35**
—	—	310	69.7	31.6	7.11	0.20~0.44	3.38	**SS2-90**
M5*	5						3.37	●**SS2-90 J20**
M5*	5						3.35	●**SS2-90 J22**
M6*	5						3.32	●**SS2-90 J25**
M6*	5						3.30	●**SS2-90 J28**
M6	5						3.28	●**SS2-90 J30**
M8	5						3.25	●**SS2-90 J32**
M8	5						3.21	●**SS2-90 J35**
—	—	330	78.2	33.6	7.97	0.20~0.44	3.69	**SS2-95**
M5*	5						3.67	●**SS2-95 J20**
M5*	5						3.66	●**SS2-95 J22**
M6*	5						3.63	●**SS2-95 J25**
M6*	5						3.60	●**SS2-95 J28**
M6	5						3.58	●**SS2-95 J30**
M8	5						3.55	●**SS2-95 J32**
M8	5						3.52	●**SS2-95 J35**
—	—	291	72.7	29.7	7.42	0.20~0.44	4.01	**SS2-100**
M5*	5						3.99	●**SS2-100 J20**
M5*	5						3.98	●**SS2-100 J22**
M6*	5						3.95	●**SS2-100 J25**
M6*	5						3.92	●**SS2-100 J28**
M6	5						3.90	●**SS2-100 J30**
M8	5						3.87	●**SS2-100 J32**
M8	5						3.84	●**SS2-100 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.

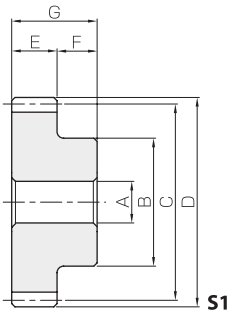
SS
Steel Spur Gears

Module 2



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 J Series products is equivalent to the value shown in the table.

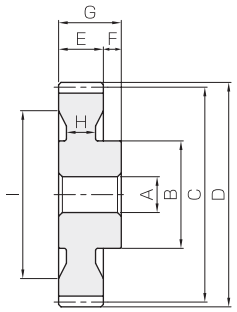


Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Keyway
				A_{H7}	B	C	D	E	F	G	H	I	Width×Depth
SS2-120	***m*2**	120	S2	20	90	240	244	20	10	30	12	210	—
●**SS2-120 J20**			S2K	20									6 x 2.8
●**SS2-120 J22**			S2K	22									6 x 2.8
●**SS2-120 J25**			S2K	25									8 x 3.3
●**SS2-120 J28**			S2K	28									8 x 3.3
●**SS2-120 J30**			S2K	30									8 x 3.3
●**SS2-120 J32**			S2K	32									10 x 3.3
●**SS2-120 J35**			S2K	35									10 x 3.3
SS2-150		150	S1	25	240	300	304	20	10	30	—	—	—

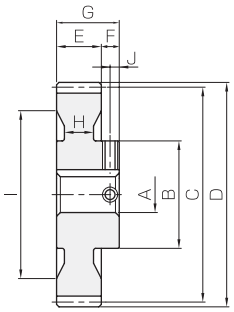
[Caution on Product Characteristics]
① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 35 for more details.
② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair 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 Avoid performing secondary operations that narrow the tooth width as it affects precision and strength.

J Series



S2



S2K



Set Screw		Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash	Weight	Catalog No.
Size	J	Bending strength	Surface durability	Bending strength	Surface durability	(mm)	(kg)	● : J Series (Available-on-request)
—	—	357	108	36.4	11.0	0.20~0.44	5.91	**SS2-120**
M5*	5						5.89	●**SS2-120 J20**
M5*	5						5.87	●**SS2-120 J22**
M6*	5						5.84	●**SS2-120 J25**
M6*	5						5.82	●**SS2-120 J28**
M6*	5						5.80	●**SS2-120 J30**
M8	5						5.76	●**SS2-120 J32**
M8	5						5.73	●**SS2-120 J35**
—	—	455	174	46.4	17.7	0.20~0.44	14.5	**SS2-150**

[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.