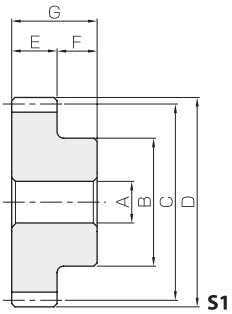
SS
Steel Spur Gears

Module 2.5



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.

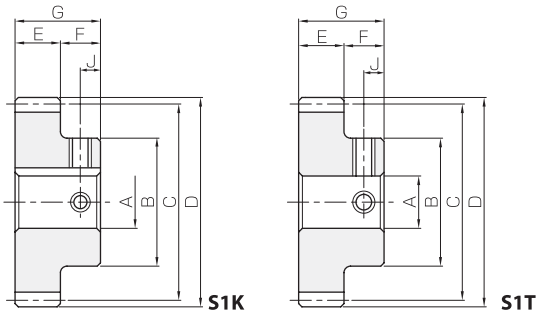


Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Keyway
				A_{H7}	B	C	D	E	F	G	H	I	Width×Depth
SS2.5-12	*m*2.5	12	S1	12	23	30	35	25	12	37	—	—	—
●**SS2.5-12 J12****			S1K	12									4 x 1.8
SS2.5-13		13	S1	12	25	32.5	37.5	25	12	37	—	—	—
●**SS2.5-13 J12**			S1K	12									4 x 1.8
●**SS2.5-13 J14**			S1T2	14									—
●**SS2.5-13 J15**			S1T2	15									—
SS2.5-14		14	S1	12	25	35	40	25	12	37	—	—	—
●**SS2.5-14 J12**			S1K	12									4 x 1.8
●**SS2.5-14 J14**			S1K	14									5 x 2.3
●**SS2.5-14 J15****			S1K	15									5 x 2.3
SS2.5-15		15	S1	15	30	37.5	42.5	25	12	37	—	—	—
●**SS2.5-15 J15**			S1K	15									5 x 2.3
●**SS2.5-15 J16**			S1K	16									5 x 2.3
●**SS2.5-15 J18**			S1T2	18									—
SS2.5-16		16	S1	15	32	40	45	25	12	37	—	—	—
●**SS2.5-16 J15**			S1K	15									5 x 2.3
●**SS2.5-16 J16**			S1K	16									5 x 2.3
●**SS2.5-16 J18**			S1K	18									6 x 2.8
●**SS2.5-16 J19****			S1K	19									6 x 2.8
SS2.5-17		17	S1	15	35	42.5	47.5	25	12	37	—	—	—
●**SS2.5-17 J15**			S1K	15									5 x 2.3
●**SS2.5-17 J16**			S1K	16									5 x 2.3
●**SS2.5-17 J18**			S1K	18									6 x 2.8
●**SS2.5-17 J19**			S1K	19									6 x 2.8
●**SS2.5-17 J20**			S1K	20									6 x 2.8
SS2.5-18		18	S1	15	38	45	50	25	12	37	—	—	—
●**SS2.5-18 J15**			S1K	15									5 x 2.3
●**SS2.5-18 J16**			S1K	16									5 x 2.3
●**SS2.5-18 J18**			S1K	18									6 x 2.8
●**SS2.5-18 J19**			S1K	19									6 x 2.8
●**SS2.5-18 J20**			S1K	20									6 x 2.8
●**SS2.5-18 J22**			S1K	22									6 x 2.8
SS2.5-19		19	S1	15	39	47.5	52.5	25	12	37	—	—	—
●**SS2.5-19 J15**			S1K	15									5 x 2.3
●**SS2.5-19 J16**			S1K	16									5 x 2.3
●**SS2.5-19 J18**			S1K	18									6 x 2.8
●**SS2.5-19 J19**			S1K	19									6 x 2.8
●**SS2.5-19 J20**			S1K	20									6 x 2.8
●**SS2.5-19 J22**			S1K	22									6 x 2.8
SS2.5-20		20	S1	15	40	50	55	25	12	37	—	—	—
●**SS2.5-20 J15**			S1K	15									5 x 2.3
●**SS2.5-20 J16**			S1K	16									5 x 2.3
●**SS2.5-20 J18**			S1K	18									6 x 2.8
●**SS2.5-20 J19**			S1K	19									6 x 2.8
●**SS2.5-20 J20**			S1K	20									6 x 2.8
●**SS2.5-20 J22**			S1K	22									6 x 2.8

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

[Caution on Secondary Operations]
① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.
② 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)
—	—	31.8	1.77	3.24	0.18	0.14~0.28	0.15	**SS2.5-12**
M4	6						0.14	●**SS2.5-12 J12****
—	—	40.9	2.14	4.17	0.22	0.14~0.28	0.18	**SS2.5-13**
M4	6						0.17	●**SS2.5-13 J12**
M4	6						0.16	●**SS2.5-13 J14**
M4	6						0.15	●**SS2.5-13 J15**
—	—	51.5	2.53	5.25	0.26	0.14~0.28	0.20	**SS2.5-14**
M4	6						0.20	●**SS2.5-14 J12**
M4	6						0.19	●**SS2.5-14 J14**
M4	6						0.18	●**SS2.5-14 J15****
—	—	57.7	2.96	5.89	0.30	0.14~0.28	0.23	**SS2.5-15**
M4	6						0.23	●**SS2.5-15 J15**
M4	6						0.22	●**SS2.5-15 J16**
M5	6						0.20	●**SS2.5-15 J18**
—	—	64	3.43	6.52	0.35	0.14~0.28	0.27	**SS2.5-16**
M4	6						0.27	●**SS2.5-16 J15**
M4	6						0.26	●**SS2.5-16 J16**
M5	6						0.24	●**SS2.5-16 J18**
M5	6						0.23	●**SS2.5-16 J19****
—	—	70.3	3.93	7.17	0.40	0.14~0.28	0.32	**SS2.5-17**
M4	6						0.31	●**SS2.5-17 J15**
M4	6						0.31	●**SS2.5-17 J16**
M5	6						0.29	●**SS2.5-17 J18**
M5	6						0.28	●**SS2.5-17 J19**
M5	6						0.27	●**SS2.5-17 J20**
—	—	76.7	4.47	7.82	0.46	0.14~0.28	0.37	**SS2.5-18**
M4	6						0.36	●**SS2.5-18 J15**
M4	6						0.36	●**SS2.5-18 J16**
M5	6						0.34	●**SS2.5-18 J18**
M5	6						0.33	●**SS2.5-18 J19**
M5	6						0.32	●**SS2.5-18 J20**
M5	6						0.30	●**SS2.5-18 J22**
—	—	83.2	5.05	8.49	0.51	0.14~0.28	0.41	**SS2.5-19**
M4	6						0.40	●**SS2.5-19 J15**
M4	6						0.40	●**SS2.5-19 J16**
M5	6						0.38	●**SS2.5-19 J18**
M5	6						0.37	●**SS2.5-19 J19**
M5	6						0.36	●**SS2.5-19 J20**
M5	6						0.34	●**SS2.5-19 J22**
—	—	89.8	5.66	9.16	0.58	0.14~0.28	0.45	**SS2.5-20**
M4	6						0.45	●**SS2.5-20 J15**
M4	6						0.44	●**SS2.5-20 J16**
M5	6						0.42	●**SS2.5-20 J18**
M5	6						0.41	●**SS2.5-20 J19**
M5	6						0.41	●**SS2.5-20 J20**
M5	6						0.39	●**SS2.5-20 J22**

[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.

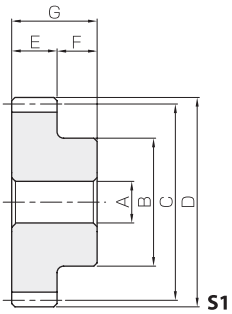
SS
Steel Spur Gears

Module 2.5



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.

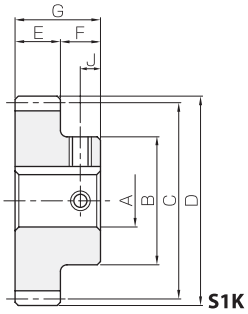


Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Keyway
				A_{H7}	B	C	D	E	F	G	H	I	Width×Depth
SS2.5-21	*m*2.5	21	S1	15	42	52.5	57.5	25	12	37	—	—	—
●SS2.5-21 J15			S1K	15									5 x 2.3
●SS2.5-21 J16			S1K	16									5 x 2.3
●SS2.5-21 J18			S1K	18									6 x 2.8
●SS2.5-21 J19			S1K	19									6 x 2.8
●SS2.5-21 J20			S1K	20									6 x 2.8
●SS2.5-21 J22			S1K	22									6 x 2.8
●SS2.5-21 J25			S1K	25									8 x 3.3
SS2.5-22		22	S1	15	44	55	60	25	12	37	—	—	—
●SS2.5-22 J15			S1K	15									5 x 2.3
●SS2.5-22 J16			S1K	16									5 x 2.3
●SS2.5-22 J18			S1K	18									6 x 2.8
●SS2.5-22 J19			S1K	19									6 x 2.8
●SS2.5-22 J20			S1K	20									6 x 2.8
●SS2.5-22 J22			S1K	22									6 x 2.8
●SS2.5-22 J25			S1K	25									8 x 3.3
SS2.5-23		23	S1	15	46	57.5	62.5	25	12	37	—	—	—
●SS2.5-23 J15			S1K	15									5 x 2.3
●SS2.5-23 J16			S1K	16									5 x 2.3
●SS2.5-23 J18			S1K	18									6 x 2.8
●SS2.5-23 J19			S1K	19									6 x 2.8
●SS2.5-23 J20			S1K	20									6 x 2.8
●SS2.5-23 J22			S1K	22									6 x 2.8
●SS2.5-23 J25			S1K	25									8 x 3.3
SS2.5-24		24	S1	15	48	60	65	25	12	37	—	—	—
●SS2.5-24 J15			S1K	15									5 x 2.3
●SS2.5-24 J16			S1K	16									5 x 2.3
●SS2.5-24 J18			S1K	18									6 x 2.8
●SS2.5-24 J19			S1K	19									6 x 2.8
●SS2.5-24 J20			S1K	20									6 x 2.8
●SS2.5-24 J22			S1K	22									6 x 2.8
●SS2.5-24 J25			S1K	25									8 x 3.3
●SS2.5-24 J28			S1K	28									8 x 3.3
SS2.5-25		25	S1	15	50	62.5	67.5	25	12	37	—	—	—
●SS2.5-25 J15			S1K	15									5 x 2.3
●SS2.5-25 J16			S1K	16									5 x 2.3
●SS2.5-25 J18			S1K	18									6 x 2.8
●SS2.5-25 J19			S1K	19									6 x 2.8
●SS2.5-25 J20			S1K	20									6 x 2.8
●SS2.5-25 J22			S1K	22									6 x 2.8
●SS2.5-25 J25			S1K	25									8 x 3.3
●SS2.5-25 J28			S1K	28									8 x 3.3
●SS2.5-25 J30			S1K	30									8 x 3.3
SS2.5-26		26	S1	15	55	65	70	25	12	37	—	—	—
●SS2.5-26 J15			S1K	15									5 x 2.3
●SS2.5-26 J16			S1K	16									5 x 2.3
●SS2.5-26 J18			S1K	18									6 x 2.8
●SS2.5-26 J19			S1K	19									6 x 2.8
●SS2.5-26 J20			S1K	20									6 x 2.8
●SS2.5-26 J22			S1K	22									6 x 2.8
●SS2.5-26 J25			S1K	25									8 x 3.3
●SS2.5-26 J28			S1K	28									8 x 3.3
●SS2.5-26 J30			S1K	30									8 x 3.3
●SS2.5-26 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]
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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)
—	—						0.50	**SS2.5-21**
M4	6						0.50	●**SS2.5-21 J15**
M4	6						0.49	●**SS2.5-21 J16**
M5	6	96.4	6.30	9.83	0.64	0.16~0.34	0.47	●**SS2.5-21 J18**
M5	6						0.47	●**SS2.5-21 J19**
M5	6						0.46	●**SS2.5-21 J20**
M5	6						0.44	●**SS2.5-21 J22**
M6	6						0.40	●**SS2.5-21 J25**
—	—						0.56	**SS2.5-22**
M4*	6						0.55	●**SS2.5-22 J15**
M4	6						0.55	●**SS2.5-22 J16**
M5	6	103	6.99	10.5	0.71	0.16~0.34	0.53	●**SS2.5-22 J18**
M5	6						0.52	●**SS2.5-22 J19**
M5	6						0.51	●**SS2.5-22 J20**
M5	6						0.49	●**SS2.5-22 J22**
M6	6						0.46	●**SS2.5-22 J25**
—	—						0.61	**SS2.5-23**
M4*	6						0.61	●**SS2.5-23 J15**
M4*	6						0.60	●**SS2.5-23 J16**
M5	6	110	7.71	11.2	0.79	0.16~0.34	0.58	●**SS2.5-23 J18**
M5	6						0.58	●**SS2.5-23 J19**
M5	6						0.57	●**SS2.5-23 J20**
M5	6						0.55	●**SS2.5-23 J22**
M6	6						0.51	●**SS2.5-23 J25**
—	—						0.67	**SS2.5-24**
M4*	6						0.67	●**SS2.5-24 J15**
M4*	6						0.66	●**SS2.5-24 J16**
M5	6						0.64	●**SS2.5-24 J18**
M5	6	117	8.47	11.9	0.86	0.16~0.34	0.64	●**SS2.5-24 J19**
M5	6						0.63	●**SS2.5-24 J20**
M5	6						0.61	●**SS2.5-24 J22**
M6	6						0.57	●**SS2.5-24 J25**
M6	6						0.54	●**SS2.5-24 J28**
—	—						0.74	**SS2.5-25**
M4*	6						0.73	●**SS2.5-25 J15**
M4*	6						0.72	●**SS2.5-25 J16**
M5	6						0.71	●**SS2.5-25 J18**
M5	6	124	9.26	12.6	0.94	0.16~0.34	0.70	●**SS2.5-25 J19**
M5	6						0.69	●**SS2.5-25 J20**
M5	6						0.67	●**SS2.5-25 J22**
M6	6						0.63	●**SS2.5-25 J25**
M6	6						0.60	●**SS2.5-25 J28**
M6	6						0.57	●**SS2.5-25 J30**
—	—						0.82	**SS2.5-26**
M4*	6						0.81	●**SS2.5-26 J15**
M4*	6						0.81	●**SS2.5-26 J16**
M5*	6						0.79	●**SS2.5-26 J18**
M5*	6						0.78	●**SS2.5-26 J19**
M5*	6	130	10.1	13.3	1.03	0.16~0.34	0.77	●**SS2.5-26 J20**
M5	6						0.76	●**SS2.5-26 J22**
M6	6						0.72	●**SS2.5-26 J25**
M6	6						0.68	●**SS2.5-26 J28**
M6	6						0.66	●**SS2.5-26 J30**
M8	6						0.63	●**SS2.5-26 J32**

[Caution on J series]

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② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.
④ Certain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with " * " are tap size).
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SS

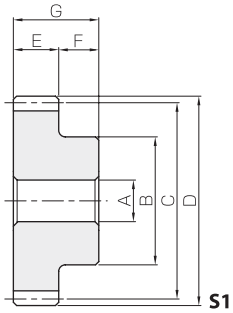
Steel Spur Gears

Module 2.5



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.

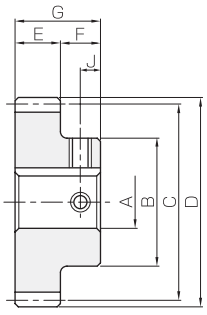


Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Keyway
				A_{H7}	B	C	D	E	F	G	H	I	Width×Depth
SS2.5-27	*m*2.5	27	S1	15	60	67.5	72.5	25	12	37	—	—	—
●**SS2.5-27 J15**			S1K	15									5 x 2.3
●**SS2.5-27 J16**			S1K	16									5 x 2.3
●**SS2.5-27 J18**			S1K	18									6 x 2.8
●**SS2.5-27 J19**			S1K	19									6 x 2.8
●**SS2.5-27 J20**			S1K	20									6 x 2.8
●**SS2.5-27 J22**			S1K	22									6 x 2.8
●**SS2.5-27 J25**			S1K	25									8 x 3.3
●**SS2.5-27 J28**			S1K	28									8 x 3.3
●**SS2.5-27 J30**			S1K	30									8 x 3.3
●**SS2.5-27 J32**			S1K	32									10 x 3.3
●**SS2.5-27 J35**			S1K	35									10 x 3.3
SS2.5-28		28	S1	15	60	70	75	25	12	37	—	—	—
●**SS2.5-28 J15**			S1K	15									5 x 2.3
●**SS2.5-28 J16**			S1K	16									5 x 2.3
●**SS2.5-28 J18**			S1K	18									6 x 2.8
●**SS2.5-28 J19**			S1K	19									6 x 2.8
●**SS2.5-28 J20**			S1K	20									6 x 2.8
●**SS2.5-28 J22**			S1K	22									6 x 2.8
●**SS2.5-28 J25**			S1K	25									8 x 3.3
●**SS2.5-28 J28**			S1K	28									8 x 3.3
●**SS2.5-28 J30**			S1K	30									8 x 3.3
●**SS2.5-28 J32**			S1K	32									10 x 3.3
●**SS2.5-28 J35**			S1K	35									10 x 3.3
SS2.5-29		29	S1	15	62	72.5	77.5	25	12	37	—	—	—
●**SS2.5-29 J15**			S1K	15									5 x 2.3
●**SS2.5-29 J16**			S1K	16									5 x 2.3
●**SS2.5-29 J18**			S1K	18									6 x 2.8
●**SS2.5-29 J19**			S1K	19									6 x 2.8
●**SS2.5-29 J20**			S1K	20									6 x 2.8
●**SS2.5-29 J22**			S1K	22									6 x 2.8
●**SS2.5-29 J25**			S1K	25									8 x 3.3
●**SS2.5-29 J28**			S1K	28									8 x 3.3
●**SS2.5-29 J30**			S1K	30									8 x 3.3
●**SS2.5-29 J32**			S1K	32									10 x 3.3
●**SS2.5-29 J35**			S1K	35									10 x 3.3
SS2.5-30		30	S1	15	65	75	80	25	12	37	—	—	—
●**SS2.5-30 J15**			S1K	15									5 x 2.3
●**SS2.5-30 J16**			S1K	16									5 x 2.3
●**SS2.5-30 J18**			S1K	18									6 x 2.8
●**SS2.5-30 J19**			S1K	19									6 x 2.8
●**SS2.5-30 J20**			S1K	20									6 x 2.8
●**SS2.5-30 J22**			S1K	22									6 x 2.8
●**SS2.5-30 J25**			S1K	25									8 x 3.3
●**SS2.5-30 J28**			S1K	28									8 x 3.3
●**SS2.5-30 J30**			S1K	30									8 x 3.3
●**SS2.5-30 J32**			S1K	32									10 x 3.3
●**SS2.5-30 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)
—	—	137	10.9	14.0	1.11	0.16~0.34	0.92	**SS2.5-27**
M4*	6						0.91	●**SS2.5-27 J15**
M4*	6						0.90	●**SS2.5-27 J16**
M5*	6						0.88	●**SS2.5-27 J18**
M5*	6						0.87	●**SS2.5-27 J19**
M5*	6						0.87	●**SS2.5-27 J20**
M5*	6						0.85	●**SS2.5-27 J22**
M6	6						0.81	●**SS2.5-27 J25**
M6	6						0.78	●**SS2.5-27 J28**
M6	6						0.75	●**SS2.5-27 J30**
M8	6						0.72	●**SS2.5-27 J32**
M8	6						0.67	●**SS2.5-27 J35**
—	—	144	11.7	14.7	1.20	0.16~0.34	0.97	**SS2.5-28**
M4*	6						0.96	●**SS2.5-28 J15**
M4*	6						0.95	●**SS2.5-28 J16**
M5*	6						0.94	●**SS2.5-28 J18**
M5*	6						0.93	●**SS2.5-28 J19**
M5*	6						0.92	●**SS2.5-28 J20**
M5*	6						0.90	●**SS2.5-28 J22**
M6	6						0.87	●**SS2.5-28 J25**
M6	6						0.83	●**SS2.5-28 J28**
M6	6						0.80	●**SS2.5-28 J30**
M8	6						0.77	●**SS2.5-28 J32**
M8	6						0.73	●**SS2.5-28 J35**
—	—	151	12.6	15.4	1.29	0.16~0.34	1.04	**SS2.5-29**
M4*	6						1.03	●**SS2.5-29 J15**
M4*	6						1.02	●**SS2.5-29 J16**
M5*	6						1.01	●**SS2.5-29 J18**
M5*	6						1.00	●**SS2.5-29 J19**
M5*	6						0.99	●**SS2.5-29 J20**
M5*	6						0.97	●**SS2.5-29 J22**
M6	6						0.94	●**SS2.5-29 J25**
M6	6						0.90	●**SS2.5-29 J28**
M6	6						0.88	●**SS2.5-29 J30**
M8	6						0.84	●**SS2.5-29 J32**
M8	6						0.80	●**SS2.5-29 J35**
—	—	159	13.6	16.2	1.39	0.16~0.34	1.13	**SS2.5-30**
M4*	6						1.11	●**SS2.5-30 J15**
M4*	6						1.11	●**SS2.5-30 J16**
M5*	6						1.09	●**SS2.5-30 J18**
M5*	6						1.08	●**SS2.5-30 J19**
M5*	6						1.07	●**SS2.5-30 J20**
M5*	6						1.06	●**SS2.5-30 J22**
M6	6						1.02	●**SS2.5-30 J25**
M6	6						0.99	●**SS2.5-30 J28**
M6	6						0.96	●**SS2.5-30 J30**
M8	6						0.93	●**SS2.5-30 J32**
M8	6						0.88	●**SS2.5-30 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.

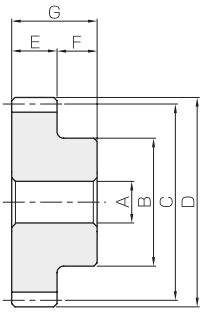
SS
Steel Spur Gears

Module 2.5



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.



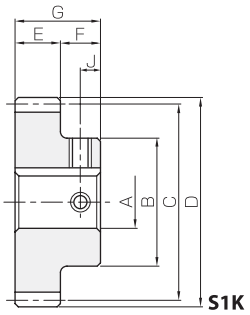
S1

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
SS2.5-32	*m*2.5	32	S1	15	70	80	85	25	12	37	—	—	—
●SS2.5-32 J15			S1K	15									5 x 2.3
●SS2.5-32 J16			S1K	16									5 x 2.3
●SS2.5-32 J18			S1K	18									6 x 2.8
●SS2.5-32 J19			S1K	19									6 x 2.8
●SS2.5-32 J20			S1K	20									6 x 2.8
●SS2.5-32 J22			S1K	22									6 x 2.8
●SS2.5-32 J25			S1K	25									8 x 3.3
●SS2.5-32 J28			S1K	28									8 x 3.3
●SS2.5-32 J30			S1K	30									8 x 3.3
●SS2.5-32 J32			S1K	32									10 x 3.3
●SS2.5-32 J35			S1K	35									10 x 3.3
●SS2.5-32 J40			S1K	40									12 x 3.3
SS2.5-34		34	S1	15	70	85	90	25	12	37	—	—	—
●SS2.5-34 J15			S1K	15									5 x 2.3
●SS2.5-34 J16			S1K	16									5 x 2.3
●SS2.5-34 J18			S1K	18									6 x 2.8
●SS2.5-34 J19			S1K	19									6 x 2.8
●SS2.5-34 J20			S1K	20									6 x 2.8
●SS2.5-34 J22			S1K	22									6 x 2.8
●SS2.5-34 J25			S1K	25									8 x 3.3
●SS2.5-34 J28			S1K	28									8 x 3.3
●SS2.5-34 J30			S1K	30									8 x 3.3
●SS2.5-34 J32			S1K	32									10 x 3.3
●SS2.5-34 J35			S1K	35									10 x 3.3
●SS2.5-34 J40			S1K	40									12 x 3.3
SS2.5-35		35	S1	15	70	87.5	92.5	25	12	37	—	—	—
●SS2.5-35 J15			S1K	15									5 x 2.3
●SS2.5-35 J16			S1K	16									5 x 2.3
●SS2.5-35 J18			S1K	18									6 x 2.8
●SS2.5-35 J19			S1K	19									6 x 2.8
●SS2.5-35 J20			S1K	20									6 x 2.8
●SS2.5-35 J22			S1K	22									6 x 2.8
●SS2.5-35 J25			S1K	25									8 x 3.3
●SS2.5-35 J28			S1K	28									8 x 3.3
●SS2.5-35 J30			S1K	30									8 x 3.3
●SS2.5-35 J32			S1K	32									10 x 3.3
●SS2.5-35 J35			S1K	35									10 x 3.3
●SS2.5-35 J40			S1K	40									12 x 3.3
SS2.5-36		36	S1	15	70	90	95	25	12	37	—	—	—
●SS2.5-36 J15			S1K	15									5 x 2.3
●SS2.5-36 J16			S1K	16									5 x 2.3
●SS2.5-36 J18			S1K	18									6 x 2.8
●SS2.5-36 J19			S1K	19									6 x 2.8
●SS2.5-36 J20			S1K	20									6 x 2.8
●SS2.5-36 J22			S1K	22									6 x 2.8
●SS2.5-36 J25			S1K	25									8 x 3.3
●SS2.5-36 J28			S1K	28									8 x 3.3
●SS2.5-36 J30			S1K	30									8 x 3.3
●SS2.5-36 J32			S1K	32									10 x 3.3
●SS2.5-36 J35			S1K	35									10 x 3.3
●SS2.5-36 J40			S1K	40									12 x 3.3

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

[Caution on Secondary Operations]
① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.
② 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)
—	—						1.30	**SS2.5-32**
M4*	6						1.28	●**SS2.5-32 J15**
M4*	6						1.28	●**SS2.5-32 J16**
M5*	6						1.26	●**SS2.5-32 J18**
M5*	6						1.25	●**SS2.5-32 J19**
M5*	6						1.24	●**SS2.5-32 J20**
M5*	6	173	15.6	17.6	1.59	0.16~0.34	1.22	●**SS2.5-32 J22**
M6*	6						1.19	●**SS2.5-32 J25**
M6*	6						1.15	●**SS2.5-32 J28**
M6	6						1.13	●**SS2.5-32 J30**
M8	6						1.10	●**SS2.5-32 J32**
M8	6						1.05	●**SS2.5-32 J35**
M8	6						0.97	●**SS2.5-32 J40**
—	—						1.42	**SS2.5-34**
M4*	6						1.41	●**SS2.5-34 J15**
M4*	6						1.40	●**SS2.5-34 J16**
M5*	6						1.39	●**SS2.5-34 J18**
M5*	6						1.38	●**SS2.5-34 J19**
M5*	6						1.37	●**SS2.5-34 J20**
M5*	6	187	17.7	19.1	1.80	0.16~0.34	1.35	●**SS2.5-34 J22**
M6*	6						1.32	●**SS2.5-34 J25**
M6*	6						1.28	●**SS2.5-34 J28**
M6	6						1.26	●**SS2.5-34 J30**
M8	6						1.22	●**SS2.5-34 J32**
M8	6						1.18	●**SS2.5-34 J35**
M8	6						1.09	●**SS2.5-34 J40**
—	—						1.49	**SS2.5-35**
M4*	6						1.48	●**SS2.5-35 J15**
M4*	6						1.47	●**SS2.5-35 J16**
M5*	6						1.45	●**SS2.5-35 J18**
M5*	6						1.44	●**SS2.5-35 J19**
M5*	6						1.44	●**SS2.5-35 J20**
M5*	6	194	18.8	19.8	1.92	0.16~0.34	1.42	●**SS2.5-35 J22**
M6*	6						1.38	●**SS2.5-35 J25**
M6*	6						1.35	●**SS2.5-35 J28**
M6	6						1.32	●**SS2.5-35 J30**
M8	6						1.29	●**SS2.5-35 J32**
M8	6						1.24	●**SS2.5-35 J35**
M8	6						1.16	●**SS2.5-35 J40**
—	—						1.56	**SS2.5-36**
M4*	6						1.54	●**SS2.5-36 J15**
M4*	6						1.54	●**SS2.5-36 J16**
M5*	6						1.52	●**SS2.5-36 J18**
M5*	6						1.51	●**SS2.5-36 J19**
M5*	6						1.50	●**SS2.5-36 J20**
M5*	6	201	20.0	20.5	2.04	0.16~0.34	1.49	●**SS2.5-36 J22**
M6*	6						1.45	●**SS2.5-36 J25**
M6*	6						1.42	●**SS2.5-36 J28**
M6	6						1.39	●**SS2.5-36 J30**
M8	6						1.36	●**SS2.5-36 J32**
M8	6						1.31	●**SS2.5-36 J35**
M8	6						1.23	●**SS2.5-36 J40**

[Caution on J series]

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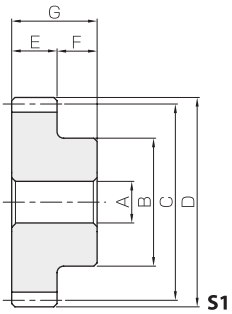
SS
Steel Spur Gears

Module 2.5



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.

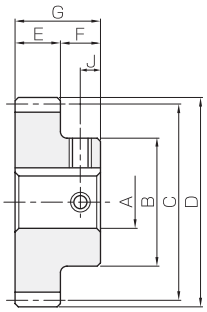


Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Keyway
				A_{H7}	B	C	D	E	F	G	H	I	Width×Depth
SS2.5-38	*m*2.5	38	S1	20	70	95	100	25	12	37	—	—	—
●SS2.5-38 J20			S1K	20									6 x 2.8
●SS2.5-38 J22			S1K	22									6 x 2.8
●SS2.5-38 J25			S1K	25									8 x 3.3
●SS2.5-38 J28			S1K	28									8 x 3.3
●SS2.5-38 J30			S1K	30									8 x 3.3
●SS2.5-38 J32			S1K	32									10 x 3.3
●SS2.5-38 J35			S1K	35									10 x 3.3
●SS2.5-38 J40			S1K	40									12 x 3.3
SS2.5-40		40	S1	20	70	100	105	25	12	37	—	—	—
●SS2.5-40 J20			S1K	20									6 x 2.8
●SS2.5-40 J22			S1K	22									6 x 2.8
●SS2.5-40 J25			S1K	25									8 x 3.3
●SS2.5-40 J28			S1K	28									8 x 3.3
●SS2.5-40 J30			S1K	30									8 x 3.3
●SS2.5-40 J32			S1K	32									10 x 3.3
●SS2.5-40 J35			S1K	35									10 x 3.3
●SS2.5-40 J40			S1K	40									12 x 3.3
SS2.5-42		42	S1	20	70	105	110	25	12	37	—	—	—
●SS2.5-42 J20			S1K	20									6 x 2.8
●SS2.5-42 J22			S1K	22									6 x 2.8
●SS2.5-42 J25			S1K	25									8 x 3.3
●SS2.5-42 J28			S1K	28									8 x 3.3
●SS2.5-42 J30			S1K	30									8 x 3.3
●SS2.5-42 J32			S1K	32									10 x 3.3
●SS2.5-42 J35			S1K	35									10 x 3.3
●SS2.5-42 J40			S1K	40									12 x 3.3
SS2.5-44		44	S1	20	70	110	115	25	12	37	—	—	—
●SS2.5-44 J20			S1K	20									6 x 2.8
●SS2.5-44 J22			S1K	22									6 x 2.8
●SS2.5-44 J25			S1K	25									8 x 3.3
●SS2.5-44 J28			S1K	28									8 x 3.3
●SS2.5-44 J30			S1K	30									8 x 3.3
●SS2.5-44 J32			S1K	32									10 x 3.3
●SS2.5-44 J35			S1K	35									10 x 3.3
●SS2.5-44 J40			S1K	40									12 x 3.3
SS2.5-45		45	S1	20	70	112.5	117.5	25	12	37	—	—	—
●SS2.5-45 J20			S1K	20									6 x 2.8
●SS2.5-45 J22			S1K	22									6 x 2.8
●SS2.5-45 J25			S1K	25									8 x 3.3
●SS2.5-45 J28			S1K	28									8 x 3.3
●SS2.5-45 J30			S1K	30									8 x 3.3
●SS2.5-45 J32			S1K	32									10 x 3.3
●SS2.5-45 J35			S1K	35									10 x 3.3
●SS2.5-45 J40			S1K	40									12 x 3.3
SS2.5-46		46	S1	20	70	115	120	25	12	37	—	—	—
●SS2.5-46 J20			S1K	20									6 x 2.8
●SS2.5-46 J22			S1K	22									6 x 2.8
●SS2.5-46 J25			S1K	25									8 x 3.3
●SS2.5-46 J28			S1K	28									8 x 3.3
●SS2.5-46 J30			S1K	30									8 x 3.3
●SS2.5-46 J32			S1K	32									10 x 3.3
●SS2.5-46 J35			S1K	35									10 x 3.3
●SS2.5-46 J40			S1K	40									12 x 3.3

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

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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)
—	—						1.66	**SS2.5-38**
M5*	6						1.65	●**SS2.5-38 J20**
M5*	6						1.63	●**SS2.5-38 J22**
M6*	6						1.59	●**SS2.5-38 J25**
M6*	6	216	22.4	22.0	2.28	0.16~0.34	1.56	●**SS2.5-38 J28**
M6	6						1.53	●**SS2.5-38 J30**
M8	6						1.50	●**SS2.5-38 J32**
M8	6						1.46	●**SS2.5-38 J35**
M8	6						1.37	●**SS2.5-38 J40**
—	—						1.81	**SS2.5-40**
M5*	6						1.80	●**SS2.5-40 J20**
M5*	6						1.78	●**SS2.5-40 J22**
M6*	6						1.74	●**SS2.5-40 J25**
M6*	6	230	24.9	23.5	2.54	0.16~0.34	1.71	●**SS2.5-40 J28**
M6	6						1.68	●**SS2.5-40 J30**
M8	6						1.65	●**SS2.5-40 J32**
M8	6						1.61	●**SS2.5-40 J35**
M8	6						1.52	●**SS2.5-40 J40**
—	—						1.97	**SS2.5-42**
M5*	6						1.95	●**SS2.5-42 J20**
M5*	6						1.94	●**SS2.5-42 J22**
M6*	6						1.90	●**SS2.5-42 J25**
M6*	6	245	27.6	25.0	2.82	0.18~0.40	1.87	●**SS2.5-42 J28**
M6	6						1.84	●**SS2.5-42 J30**
M8	6						1.81	●**SS2.5-42 J32**
M8	6						1.76	●**SS2.5-42 J35**
M8	6						1.68	●**SS2.5-42 J40**
—	—						2.14	**SS2.5-44**
M5*	6						2.12	●**SS2.5-44 J20**
M5*	6						2.10	●**SS2.5-44 J22**
M6*	6						2.07	●**SS2.5-44 J25**
M6*	6	260	30.5	26.5	3.11	0.18~0.40	2.03	●**SS2.5-44 J28**
M6	6						2.01	●**SS2.5-44 J30**
M8	6						1.97	●**SS2.5-44 J32**
M8	6						1.93	●**SS2.5-44 J35**
M8	6						1.84	●**SS2.5-44 J40**
—	—						2.22	**SS2.5-45**
M5*	6						2.21	●**SS2.5-45 J20**
M5*	6						2.19	●**SS2.5-45 J22**
M6*	6						2.15	●**SS2.5-45 J25**
M6*	6	267	31.9	27.2	3.26	0.18~0.40	2.12	●**SS2.5-45 J28**
M6	6						2.09	●**SS2.5-45 J30**
M8	6						2.06	●**SS2.5-45 J32**
M8	6						2.02	●**SS2.5-45 J35**
M8	6						1.93	●**SS2.5-45 J40**
—	—						2.31	**SS2.5-46**
M5*	6						2.29	●**SS2.5-46 J20**
M5*	6						2.28	●**SS2.5-46 J22**
M6*	6						2.24	●**SS2.5-46 J25**
M6*	6	274	33.5	28.0	3.41	0.18~0.40	2.21	●**SS2.5-46 J28**
M6	6						2.18	●**SS2.5-46 J30**
M8	6						2.15	●**SS2.5-46 J32**
M8	6						2.10	●**SS2.5-46 J35**
M8	6						2.02	●**SS2.5-46 J40**

[Caution on J series]

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

SS

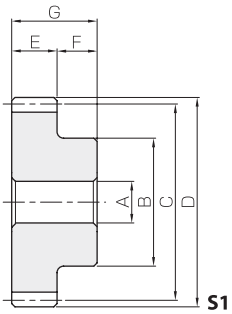
Steel Spur Gears

Module 2.5



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.

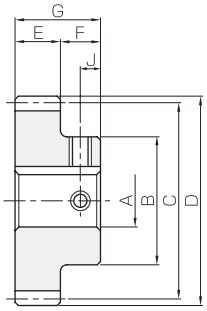


Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Keyway
				A_{H7}	B	C	D	E	F	G	H	I	Width×Depth
SS2.5-48	*m*2.5	48	S1	20	70	120	125	25	12	37	—	—	—
●SS2.5-48 J20			S1K	20									6 x 2.8
●SS2.5-48 J22			S1K	22									6 x 2.8
●SS2.5-48 J25			S1K	25									8 x 3.3
●SS2.5-48 J28			S1K	28									8 x 3.3
●SS2.5-48 J30			S1K	30									8 x 3.3
●SS2.5-48 J32			S1K	32									10 x 3.3
●SS2.5-48 J35			S1K	35									10 x 3.3
●SS2.5-48 J40			S1K	40									12 x 3.3
SS2.5-50		50	S1	20	70	125	130	25	12	37	—	—	—
●SS2.5-50 J20			S1K	20									6 x 2.8
●SS2.5-50 J22			S1K	22									6 x 2.8
●SS2.5-50 J25			S1K	25									8 x 3.3
●SS2.5-50 J28			S1K	28									8 x 3.3
●SS2.5-50 J30			S1K	30									8 x 3.3
●SS2.5-50 J32			S1K	32									10 x 3.3
●SS2.5-50 J35			S1K	35									10 x 3.3
●SS2.5-50 J40			S1K	40									12 x 3.3
SS2.5-52		52	S1	20	70	130	135	25	12	37	—	—	—
●SS2.5-52 J20			S1K	20									6 x 2.8
●SS2.5-52 J22			S1K	22									6 x 2.8
●SS2.5-52 J25			S1K	25									8 x 3.3
●SS2.5-52 J28			S1K	28									8 x 3.3
●SS2.5-52 J30			S1K	30									8 x 3.3
●SS2.5-52 J32			S1K	32									10 x 3.3
●SS2.5-52 J35			S1K	35									10 x 3.3
●SS2.5-52 J40			S1K	40									12 x 3.3
SS2.5-54		54	S1	20	70	135	140	25	12	37	—	—	—
●SS2.5-54 J20			S1K	20									6 x 2.8
●SS2.5-54 J22			S1K	22									6 x 2.8
●SS2.5-54 J25			S1K	25									8 x 3.3
●SS2.5-54 J28			S1K	28									8 x 3.3
●SS2.5-54 J30			S1K	30									8 x 3.3
●SS2.5-54 J32			S1K	32									10 x 3.3
●SS2.5-54 J35			S1K	35									10 x 3.3
●SS2.5-54 J40			S1K	40									12 x 3.3
SS2.5-55		55	S1	20	70	137.5	142.5	25	12	37	—	—	—
●SS2.5-55 J20			S1K	20									6 x 2.8
●SS2.5-55 J22			S1K	22									6 x 2.8
●SS2.5-55 J25			S1K	25									8 x 3.3
●SS2.5-55 J28			S1K	28									8 x 3.3
●SS2.5-55 J30			S1K	30									8 x 3.3
●SS2.5-55 J32			S1K	32									10 x 3.3
●SS2.5-55 J35			S1K	35									10 x 3.3
●SS2.5-55 J40			S1K	40									12 x 3.3
SS2.5-56		56	S1	20	70	140	145	25	12	37	—	—	—
●SS2.5-56 J20			S1K	20									6 x 2.8
●SS2.5-56 J22			S1K	22									6 x 2.8
●SS2.5-56 J25			S1K	25									8 x 3.3
●SS2.5-56 J28			S1K	28									8 x 3.3
●SS2.5-56 J30			S1K	30									8 x 3.3
●SS2.5-56 J32			S1K	32									10 x 3.3
●SS2.5-56 J35			S1K	35									10 x 3.3
●SS2.5-56 J40			S1K	40									12 x 3.3

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

[Caution on Secondary Operations]
① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.
② Avoid performing secondary operations that narrow the tooth width as it affects precision and strength.

J Series RoHS





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)
—	—						2.49	**SS2.5-48**
M5*	6						2.48	●**SS2.5-48 J20**
M5*	6						2.46	●**SS2.5-48 J22**
M6*	6						2.42	●**SS2.5-48 J25**
M6*	6	289	36.7	29.5	3.74	0.18~0.40	2.39	●**SS2.5-48 J28**
M6	6						2.36	●**SS2.5-48 J30**
M8	6						2.33	●**SS2.5-48 J32**
M8	6						2.28	●**SS2.5-48 J35**
M8	6						2.20	●**SS2.5-48 J40**
—	—						2.68	**SS2.5-50**
M5*	6						2.66	●**SS2.5-50 J20**
M5*	6						2.65	●**SS2.5-50 J22**
M6*	6						2.61	●**SS2.5-50 J25**
M6*	6	304	40.0	31.0	4.08	0.18~0.40	2.58	●**SS2.5-50 J28**
M6	6						2.55	●**SS2.5-50 J30**
M8	6						2.52	●**SS2.5-50 J32**
M8	6						2.47	●**SS2.5-50 J35**
M8	6						2.39	●**SS2.5-50 J40**
—	—						2.88	**SS2.5-52**
M5*	6						2.86	●**SS2.5-52 J20**
M5*	6						2.84	●**SS2.5-52 J22**
M6*	6						2.81	●**SS2.5-52 J25**
M6*	6	319	43.5	32.5	4.44	0.18~0.40	2.77	●**SS2.5-52 J28**
M6	6						2.75	●**SS2.5-52 J30**
M8	6						2.71	●**SS2.5-52 J32**
M8	6						2.67	●**SS2.5-52 J35**
M8	6						2.58	●**SS2.5-52 J40**
—	—						3.08	**SS2.5-54**
M5*	6						3.06	●**SS2.5-54 J20**
M5*	6						3.05	●**SS2.5-54 J22**
M6*	6						3.01	●**SS2.5-54 J25**
M6*	6	334	47.2	34.0	4.81	0.18~0.40	2.98	●**SS2.5-54 J28**
M6	6						2.95	●**SS2.5-54 J30**
M8	6						2.92	●**SS2.5-54 J32**
M8	6						2.87	●**SS2.5-54 J35**
M8	6						2.79	●**SS2.5-54 J40**
—	—						3.19	**SS2.5-55**
M5*	6						3.17	●**SS2.5-55 J20**
M5*	6						3.15	●**SS2.5-55 J22**
M6*	6						3.12	●**SS2.5-55 J25**
M6*	6	341	49.1	34.8	5.01	0.18~0.40	3.08	●**SS2.5-55 J28**
M6	6						3.06	●**SS2.5-55 J30**
M8	6						3.02	●**SS2.5-55 J32**
M8	6						2.98	●**SS2.5-55 J35**
M8	6						2.89	●**SS2.5-55 J40**
—	—						3.29	**SS2.5-56**
M5*	6						3.28	●**SS2.5-56 J20**
M5*	6						3.26	●**SS2.5-56 J22**
M6*	6						3.22	●**SS2.5-56 J25**
M6*	6	349	51.0	35.6	5.20	0.18~0.40	3.19	●**SS2.5-56 J28**
M6	6						3.16	●**SS2.5-56 J30**
M8	6						3.13	●**SS2.5-56 J32**
M8	6						3.09	●**SS2.5-56 J35**
M8	6						3.00	●**SS2.5-56 J40**

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

SS

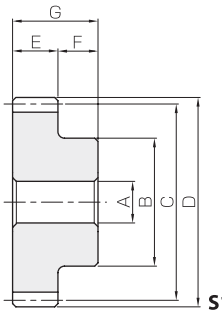
Steel Spur Gears

Module 2.5

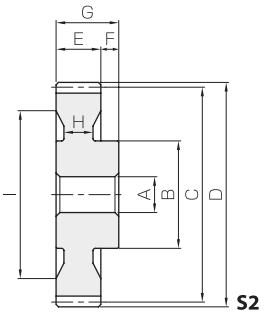


Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998) * JIS grade 4 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	less than 194HB

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



S1

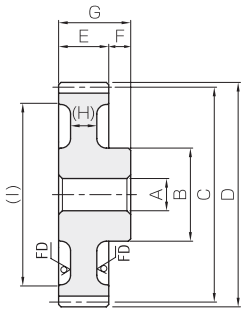


S2

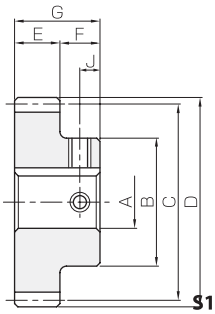
Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Keyway
				A_{H7}	B	C	D	E	F	G	H	I	Width×Depth
SS2.5-58			S1	20									—
●**SS2.5-58 J20**			S1K	20									6 x 2.8
●**SS2.5-58 J22**			S1K	22									6 x 2.8
●**SS2.5-58 J25**			S1K	25									8 x 3.3
●**SS2.5-58 J28**		58	S1K	28	70	145	150	25	12	37	—	—	8 x 3.3
●**SS2.5-58 J30**			S1K	30									8 x 3.3
●**SS2.5-58 J32**			S1K	32									10 x 3.3
●**SS2.5-58 J35**			S1K	35									10 x 3.3
●**SS2.5-58 J40**			S1K	40									12 x 3.3
SS2.5-60			S4	25									—
●**SS2.5-60 J25**			S4K	25									8 x 3.3
●**SS2.5-60 J28**			S4K	28									8 x 3.3
●**SS2.5-60 J30**		60	S4K	30	70	150	155	25	12	37	(10)	(127)	8 x 3.3
●**SS2.5-60 J32**			S4K	32									10 x 3.3
●**SS2.5-60 J35**			S4K	35									10 x 3.3
●**SS2.5-60 J40**			S4K	40									12 x 3.3
SS2.5-62			S2	25									—
●**SS2.5-62 J25**			S2K	25									8 x 3.3
●**SS2.5-62 J28**			S2K	28									8 x 3.3
●**SS2.5-62 J30**		62	S2K	30	80	155	160	25	12	37	15	130	8 x 3.3
●**SS2.5-62 J32**			S2K	32									10 x 3.3
●**SS2.5-62 J35**			S2K	35									10 x 3.3
●**SS2.5-62 J40**			S2K	40									12 x 3.3
SS2.5-64			S2	25									—
●**SS2.5-64 J25**			S2K	25									8 x 3.3
●**SS2.5-64 J28**	***m*2.5**		S2K	28									8 x 3.3
●**SS2.5-64 J30**		64	S2K	30	80	160	165	25	12	37	15	131	8 x 3.3
●**SS2.5-64 J32**			S2K	32									10 x 3.3
●**SS2.5-64 J35**			S2K	35									10 x 3.3
●**SS2.5-64 J40**			S2K	40									12 x 3.3
SS2.5-65			S2	25									—
●**SS2.5-65 J25**			S2K	25									8 x 3.3
●**SS2.5-65 J28**			S2K	28									8 x 3.3
●**SS2.5-65 J30**		65	S2K	30	80	162.5	167.5	25	12	37	15	134	8 x 3.3
●**SS2.5-65 J32**			S2K	32									10 x 3.3
●**SS2.5-65 J35**			S2K	35									10 x 3.3
●**SS2.5-65 J40**			S2K	40									12 x 3.3
SS2.5-66			S2	25									—
●**SS2.5-66 J25**			S2K	25									8 x 3.3
●**SS2.5-66 J28**			S2K	28									8 x 3.3
●**SS2.5-66 J30**		66	S2K	30	80	165	170	25	12	37	15	140	8 x 3.3
●**SS2.5-66 J32**			S2K	32									10 x 3.3
●**SS2.5-66 J35**			S2K	35									10 x 3.3
●**SS2.5-66 J40**			S2K	40									12 x 3.3
SS2.5-68			S2	25									—
●**SS2.5-68 J25**			S2K	25									8 x 3.3
●**SS2.5-68 J28**			S2K	28									8 x 3.3
●**SS2.5-68 J30**		68	S2K	30	80	170	175	25	12	37	15	140	8 x 3.3
●**SS2.5-68 J32**			S2K	32									10 x 3.3
●**SS2.5-68 J35**			S2K	35									10 x 3.3
●**SS2.5-68 J40**			S2K	40									12 x 3.3

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

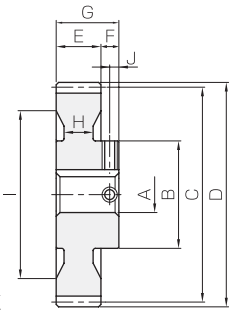
[Caution on Secondary Operations]
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② Avoid performing secondary operations that narrow the tooth width as it affects precision and strength.



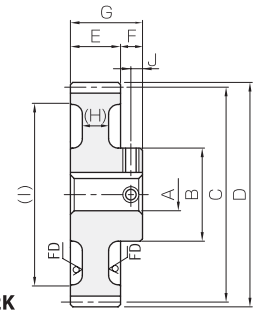
S4



S1K



S2K



S4K



* FD has die-forged finish.

* FD has die-forged finish.

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)
—	—						3.51	**SS2.5-58**
M5*	6						3.50	●**SS2.5-58 J20**
M5*	6						3.48	●**SS2.5-58 J22**
M6*	6						3.44	●**SS2.5-58 J25**
M6*	6	364	55.0	37.1	5.61	0.18~0.40	3.41	●**SS2.5-58 J28**
M6	6						3.38	●**SS2.5-58 J30**
M8	6						3.35	●**SS2.5-58 J32**
M8	6						3.30	●**SS2.5-58 J35**
M8	6						3.22	●**SS2.5-58 J40**
—	—						2.80	**SS2.5-60**
M6*	6						2.78	●**SS2.5-60 J25**
M6*	6						2.75	●**SS2.5-60 J28**
M6	6	379	59.1	38.6	6.03	0.18~0.40	2.72	●**SS2.5-60 J30**
M8	6						2.69	●**SS2.5-60 J32**
M8	6						2.64	●**SS2.5-60 J35**
M8	6						2.56	●**SS2.5-60 J40**
—	—						3.54	**SS2.5-62**
M6*	6						3.51	●**SS2.5-62 J25**
M6*	6						3.48	●**SS2.5-62 J28**
M6*	6	394	63.4	40.1	6.46	0.18~0.40	3.45	●**SS2.5-62 J30**
M8	6						3.42	●**SS2.5-62 J32**
M8	6						3.38	●**SS2.5-62 J35**
M8	6						3.29	●**SS2.5-62 J40**
—	—						3.76	**SS2.5-64**
M6*	6						3.74	●**SS2.5-64 J25**
M6*	6						3.71	●**SS2.5-64 J28**
M6*	6	409	67.8	41.7	6.92	0.18~0.40	3.68	●**SS2.5-64 J30**
M8	6						3.65	●**SS2.5-64 J32**
M8	6						3.60	●**SS2.5-64 J35**
M8	6						3.52	●**SS2.5-64 J40**
—	—						3.84	**SS2.5-65**
M6*	6						3.82	●**SS2.5-65 J25**
M6*	6						3.79	●**SS2.5-65 J28**
M6*	6	416	70.1	42.4	7.15	0.18~0.40	3.76	●**SS2.5-65 J30**
M8	6						3.73	●**SS2.5-65 J32**
M8	6						3.68	●**SS2.5-65 J35**
M8	6						3.60	●**SS2.5-65 J40**
—	—						3.87	**SS2.5-66**
M6*	6						3.85	●**SS2.5-66 J25**
M6*	6						3.82	●**SS2.5-66 J28**
M6*	6	424	72.4	43.2	7.39	0.18~0.40	3.79	●**SS2.5-66 J30**
M8	6						3.76	●**SS2.5-66 J32**
M8	6						3.72	●**SS2.5-66 J35**
M8	6						3.63	●**SS2.5-66 J40**
—	—						4.13	**SS2.5-68**
M6*	6						4.11	●**SS2.5-68 J25**
M6*	6						4.08	●**SS2.5-68 J28**
M6*	6	439	77.2	44.7	7.87	0.18~0.40	4.05	●**SS2.5-68 J30**
M8	6						4.02	●**SS2.5-68 J32**
M8	6						3.97	●**SS2.5-68 J35**
M8	6						3.89	●**SS2.5-68 J40**

[Caution on J series]

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

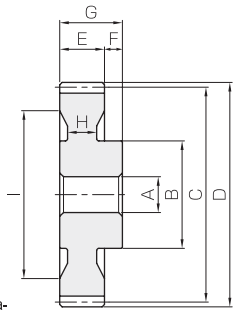
SS
Steel Spur Gears

Module 2.5

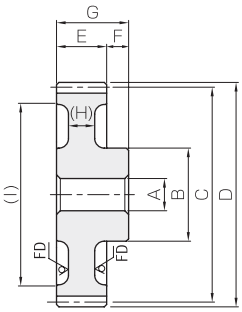


Specifications	
Precision grade	JIS grade N8 (JIS B1702-1: 1998) * JIS grade 4 (JIS B1702: 1976)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	less than 194HB

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



S2



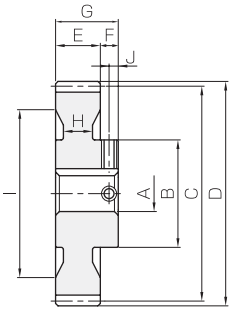
S4

* FD has die-forged finish.

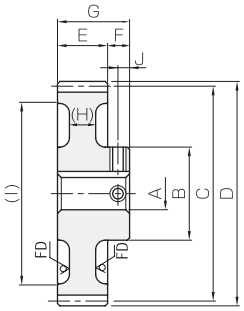
Catalog No. ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Web thickness	Web O.D.	Keyway
				A_{H7}	B	C	D	E	F	G	H	I	Width×Depth
SS2.5-70			S2	25									—
●**SS2.5-70 J25**			S2K	25									8 x 3.3
●**SS2.5-70 J28**			S2K	28									8 x 3.3
●**SS2.5-70 J30**		70	S2K	30	80	175	180	25	12	37	15	146	8 x 3.3
●**SS2.5-70 J32**			S2K	32									10 x 3.3
●**SS2.5-70 J35**			S2K	35									10 x 3.3
●**SS2.5-70 J40**			S2K	40									12 x 3.3
SS2.5-72			S2	25									—
●**SS2.5-72 J25**			S2K	25									8 x 3.3
●**SS2.5-72 J28**			S2K	28									8 x 3.3
●**SS2.5-72 J30**		72	S2K	30	80	180	185	25	12	37	15	151	8 x 3.3
●**SS2.5-72 J32**			S2K	32									10 x 3.3
●**SS2.5-72 J35**			S2K	35									10 x 3.3
●**SS2.5-72 J40**			S2K	40									12 x 3.3
SS2.5-75			S2	25									—
●**SS2.5-75 J25**			S2K	25									8 x 3.3
●**SS2.5-75 J28**			S2K	28									8 x 3.3
●**SS2.5-75 J30**		75	S2K	30	80	187.5	192.5	25	12	37	15	159	8 x 3.3
●**SS2.5-75 J32**			S2K	32									10 x 3.3
●**SS2.5-75 J35**			S2K	35									10 x 3.3
●**SS2.5-75 J40**			S2K	40									12 x 3.3
SS2.5-76			S2	25									—
●**SS2.5-76 J25**			S2K	25									8 x 3.3
●**SS2.5-76 J28**			S2K	28									8 x 3.3
●**SS2.5-76 J30**	***m*2.5**	76	S2K	30	80	190	195	25	12	37	15	160	8 x 3.3
●**SS2.5-76 J32**			S2K	32									10 x 3.3
●**SS2.5-76 J35**			S2K	35									10 x 3.3
●**SS2.5-76 J40**			S2K	40									12 x 3.3
SS2.5-80			S4	25									—
●**SS2.5-80 J25**			S4K	25									8 x 3.3
●**SS2.5-80 J28**			S4K	28									8 x 3.3
●**SS2.5-80 J30**		80	S4K	30	80	200	205	25	12	37	(10)	(177)	8 x 3.3
●**SS2.5-80 J32**			S4K	32									10 x 3.3
●**SS2.5-80 J35**			S4K	35									10 x 3.3
●**SS2.5-80 J40**			S4K	40									12 x 3.3
SS2.5-90			S4	30									—
●**SS2.5-90 J30**			S4K	30									8 x 3.3
●**SS2.5-90 J32**		90	S4K	32	90	225	230	25	12	37	(10)	(202)	10 x 3.3
●**SS2.5-90 J35**			S4K	35									10 x 3.3
●**SS2.5-90 J40**			S4K	40									12 x 3.3
SS2.5-100			S4	30									—
●**SS2.5-100 J30**			S4K	30									8 x 3.3
●**SS2.5-100 J32**		100	S4K	32	90	250	255	25	12	37	(10)	(227)	10 x 3.3
●**SS2.5-100 J35**			S4K	35									10 x 3.3
●**SS2.5-100 J40**			S4K	40									12 x 3.3
SS2.5-120			S4	30									—
●**SS2.5-120 J30**			S4K	30									8 x 3.3
●**SS2.5-120 J32**		120	S4K	32	100	300	305	25	12	37	(10)	(277)	10 x 3.3
●**SS2.5-120 J35**			S4K	35									10 x 3.3
●**SS2.5-120 J40**			S4K	40									12 x 3.3

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

[Caution on Secondary Operations]
① Please read "Caution on Performing Secondary Operations" (Page 36) when performing modifications and/or secondary operations for safety concerns. Haguruma Kobo, the KHK's system for quick modification of KHK stock gears is also available.
② Avoid performing secondary operations that narrow the tooth width as it affects precision and strength.



S2K



S4K ＊ FD has die-forged finish.



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)
—	—						4.30	**SS2.5-70**
M6*	6						4.28	**●SS2.5-70 J25**
M6*	6						4.24	**●SS2.5-70 J28**
M6*	6	454	82.1	46.3	8.37	0.18~0.4	4.22	**●SS2.5-70 J30**
M8	6						4.19	**●SS2.5-70 J32**
M8	6						4.14	**●SS2.5-70 J35**
M8	6						4.06	**●SS2.5-70 J40**
—	—						4.49	**SS2.5-72**
M6*	6						4.47	**●SS2.5-72 J25**
M6*	6						4.43	**●SS2.5-72 J28**
M6*	6	469	87.1	47.8	8.89	0.18~0.4	4.41	**●SS2.5-72 J30**
M8	6						4.37	**●SS2.5-72 J32**
M8	6						4.33	**●SS2.5-72 J35**
M8	6						4.24	**●SS2.5-72 J40**
—	—						4.77	**SS2.5-75**
M6*	6						4.75	**●SS2.5-75 J25**
M6*	6						4.71	**●SS2.5-75 J28**
M6*	6	492	95.0	50.1	9.69	0.18~0.4	4.69	**●SS2.5-75 J30**
M8	6						4.66	**●SS2.5-75 J32**
M8	6						4.61	**●SS2.5-75 J35**
M8	6						4.53	**●SS2.5-75 J40**
—	—						4.90	**SS2.5-76**
M6*	6						4.88	**●SS2.5-76 J25**
M6*	6						4.84	**●SS2.5-76 J28**
M6*	6	499	97.7	50.9	9.97	0.18~0.4	4.82	**●SS2.5-76 J30**
M8	6						4.78	**●SS2.5-76 J32**
M8	6						4.74	**●SS2.5-76 J35**
M8	6						4.65	**●SS2.5-76 J40**
—	—						4.42	**SS2.5-80**
M6*	6						4.40	**●SS2.5-80 J25**
M6*	6						4.36	**●SS2.5-80 J28**
M6*	6	441	90.9	45.0	9.27	0.18~0.4	4.34	**●SS2.5-80 J30**
M8	6						4.31	**●SS2.5-80 J32**
M8	6						4.26	**●SS2.5-80 J35**
M8	6						4.18	**●SS2.5-80 J40**
—	—						5.64	**SS2.5-90**
M6*	6						5.62	**●SS2.5-90 J30**
M8*	6	505	117	51.5	12.0	0.22~0.48	5.58	**●SS2.5-90 J32**
M8*	6						5.54	**●SS2.5-90 J35**
M8	6						5.46	**●SS2.5-90 J40**
—	—						6.78	**SS2.5-100**
M6*	6						6.76	**●SS2.5-100 J30**
M8*	6	569	147	58.0	15.0	0.22~0.48	6.72	**●SS2.5-100 J32**
M8*	6						6.68	**●SS2.5-100 J35**
M8	6						6.60	**●SS2.5-100 J40**
—	—						9.38	**SS2.5-120**
M6*	6						9.35	**●SS2.5-120 J30**
M8*	6	696	218	71.0	22.2	0.22~0.48	9.31	**●SS2.5-120 J32**
M8*	6						9.27	**●SS2.5-120 J35**
M8*	6						9.18	**●SS2.5-120 J40**

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