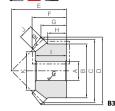
Module 2 \sim 4

S	pecifications	Ан7	Bore
Precision grade	JIS B 1704: 1978 grade 1	В	Hub dia.
Gear teeth	Gleason	С	Pitch dia.
Pressure angle	20°	D	Outside dia.
Helix angle	35°	Е	Mounting distance
Material	SCM415	F	Total length
Heat treatment	Carburizing	G	Crown to back
Tooth hardness	55 ~ 60HRC	Н	Hub width
Gear ratio	1	- 1	Length of bore
Screw offset (L)	Half of hub width (H)	J	Face width
	ade of J Series products is equiv- e shown in the table.	K	Holding surface dia.



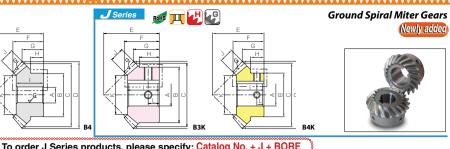
			Allowable torque (N-m) A								0.1														
Catalog No.	No. of	Shape	Ан7	В	С	D	Е	F	G	н	1	J	K		orque (N-m) Surface durability	Allowable to Bending strength	rque (kgt·m) Surface durability	Backlash (mm)	Weight (kg)						
MMSG2-20R MMSG2-20L	tootii		12	35	40	42.7	35	21.98	16.35	12.5	20	9	24.54	17.0	23.5	1.73	2.40	0.04~0.10							
MMSG2.5-20R MMSG2.5-20L		В3	14	42	50	53.2	45	28.63	21.6	16	26	11	30.89	32.7	46.1	3.33	4.70	0.05~0.11	0.27						
MMSG3-20R MMSG3-20L	20		16	52	60	63.99	50	30.78	21.99	16	27	14	34.4	58.5	83.7	5.97	8.54	0.06~0.12	0.43						
MMSG3.5-20R MMSG3.5-20L			20	50	70	74.53	55	32.45	22.26	14	29	16	42.75	91.8	133	9.36	13.6	0.07~0.13	0.51						
MMSG4-20R MMSG4-20L			20	55	80	84.99	65	39.13	27.5	17	35	18	49.08	136	199	13.8	20.3	0.09~0.15	0.80						
MMSG2-25R MMSG2-25L			12	38	50	52.5	40	23.43	16.25	11	21	11	30.89	27.5	47.0	2.80	4.79	0.04~0.10	0.21						
MMSG2.5-25R MMSG2.5-25L		B4	16	45	62.5	65.54	50	29.57	20.27	14	26	14	37.4	54.3	94.5	5.54	9.64	0.05~0.11	0.37						
MMSG3-25R MMSG3-25L	25		20	55	75	78.78	60	35.6	24.39	17	31	17	43.92	94.5	167	9.64	17.0	0.06~0.12	0.65						
MMSG3.5-25R MMSG3.5-25L			25	65	87.5	91.81	70	41.65	28.41	19	37	20	52.43	151	270	15.4	27.5	0.07~0.13	1.04						
MMSG4-25R MMSG4-25L			28	75	100	104.7	80	47.8	32.35	22	42	23	58.95	216	392	22.1	40.0	0.09~0.15	1.57						
MMSG2-30R MMSG2-30L			14	45	60	62.42	50	29.27	21.21	15	26	12	38.06	38.5	78.6	3.93	8.02	0.04~0.10	0.36						
MMSG2.5-30R MMSG2.5-30L									16	55	75	78.04	60	34.08	24.02	16	30	15	47.57	75.3	156	7.68	16.0	0.05~0.11	0.66
MMSG3-30R MMSG3-30L	30		20	65	90	93.61	70	40.25	26.8	18	36	20	55.43	139	294	14.2	30.0	0.06~0.12	1.11						
MMSG3.5-30R MMSG3.5-30L			25	80	105	109.21	80	44.4	29.6	20	40	22	67.77	204	436	20.8	44.5	0.07~0.13	1.75						
MMSG4-30R MMSG4-30L			28	90	120	124.7	90	49.27	32.35	22	44	25	77.29	303	657	30.9	67.0	0.09~0.15	2.49						

CP Racks & Pinions

- [Caution on Product Characteristics] ① A sets of mitter gears must be identical in module and number of teeth, but opposite in spiral hands.
 - ②The allowable torques shown in the table are the calculated values according to the assumed usage conditions. Please see page 253 for more details.
 - 3 Dimensions of the outside diameter, the overall length and crown to back length are all theoretical values, and some differences will occur due to the corner chamfering of the gear tips.
 - 4 These gears produce axial thrust forces. See page 254 for more details.

- ①Please read "Caution on Performing Secondary Operations" (Page 254) when performing modification and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.
- ② In the illustration, the area surrounded with ---- line is masked during the carburization process and can be modified. However, care should be exercised since the hardness is high (approx. HRC40, maximum).

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



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To order J Series	nroducts blease s	enecity: Cataloi	4 T L T T T	40 H - 3
g 10 01uci 0 0ci ica	products, product	pecity, outure	9 110. 1 0 1 2	JOIL 3

Bore H7	* The product shapes of J Series items are identified by background color.											1 _						
Keyway Js9	12	14	15	16	17	18	19	20	22	25	28	30	32	35	40	45	50	nternal Gears
Screw size	4 × 1.8	1 × 1.8 5 × 2.3					6 × 2.8				8 × 3.3			10 × 3.3 12 × 3.3			14 × 3.8	
Catalog No.	M4					M5				M6			M8			M10		ž Š
MMSG2-20R J BORE																		
MMSG2-20L J BORE																		
MMSG2.5-20R J BORE																		×S S
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MMSG4-20R J BORE																		2.20
MMSG4-20L J BORE																		CP Racks & Pinions
MMSG2-25R J BORE																		0 ∞
MMSG2-25L J BORE																		
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MMSG3.5-25L J BORE																		ve
MMSG4-25R J BORE																		Bevel Gears
MMSG4-25L J BORE																		шО
MMSG2-30R J BORE																		
MMSG2-30L J BORE																		> 0
MMSG2.5-30R J BORE																		Screw
MMSG2.5-30L J BORE																		Se Se
MMSG3-30R J BORE																		0,0
MMSG3-30L J BORE																		_
MMSG3.5-30R J BORE																		a.i.
MMSG3.5-30L J BORE																		Worm Gear Pair
MMSG4-30R J BORE																		Wc
MMSG4-30L J BORE																		Ö
[Caution on J series]	① As a	available-	on-reque	st produc	ts, require	es a lead-t	ime for sl	hipping w	ithin 2 wo	orking-da _?	ys (exclud	es the da	y ordered), after pl	acing an o	rder.		(C)

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

256 Inquiries are now being accepted on our website.