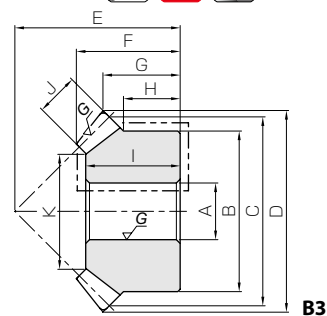




Specifications	
Precision grade	JIS B 1704 grade 2
Gear teeth	Gleason
Pressure angle	20°
Helix angle	35°
Material	SCM415
Heat treatment	Carburizing
Tooth hardness	55 ~ 60HRC

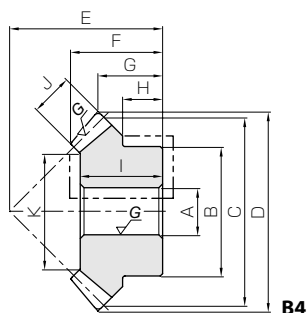


- Spur Gears
- Helical Gears
- Internal Gears
- Racks
- CP Racks & Pinions
- Miter Gears
- Bevel Gears
- Screw Gears
- Worm Gear Pair
- Bevel Gearboxes
- Other Products

Catalog No.	Gear ratio	Module	No. of teeth	Direction of spiral	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Mounting distance	Total length	Crown to back length
						A _{H7}	B	C	D	E	F	G
MMSG2-20R MMSG2-20L	1	m2	20	R L	B3	12	35	40	42.7	35	21.98	16.35
MMSG2.5-20R MMSG2.5-20L		m2.5	20	R L	B3	14	42	50	53.2	45	28.63	21.6
MMSG3-20R MMSG3-20L		m3	20	R L	B3	16	52	60	63.99	50	30.78	21.99
MMSG3.5-20R MMSG3.5-20L		m3.5	20	R L	B4	20	50	70	74.53	55	32.45	22.26
MMSG4-20R MMSG4-20L		m4	20	R L	B4	20	55	80	84.99	65	39.13	27.5
MMSG2-25R MMSG2-25L	1	m2	25	R L	B4	12	38	50	52.5	40	23.43	16.25
MMSG2.5-25R MMSG2.5-25L		m2.5	25	R L	B4	16	45	62.5	65.54	50	29.57	20.27
MMSG3-25R MMSG3-25L		m3	25	R L	B4	20	55	75	78.78	60	35.6	24.39
MMSG3.5-25R MMSG3.5-25L		m3.5	25	R L	B4	25	65	87.5	91.81	70	41.65	28.41
MMSG4-25R MMSG4-25L		m4	25	R L	B4	28	75	100	104.7	80	47.8	32.35
MMSG2-30R MMSG2-30L	1	m2	30	R L	B4	14	45	60	62.42	50	29.27	21.21
MMSG2.5-30R MMSG2.5-30L		m2.5	30	R L	B4	16	55	75	78.04	60	34.08	24.02
MMSG3-30R MMSG3-30L		m3	30	R L	B4	20	65	90	93.61	70	40.25	26.8
MMSG3.5-30R MMSG3.5-30L		m3.5	30	R L	B4	25	80	105	109.21	80	44.4	29.6
MMSG4-30R MMSG4-30L		m4	30	R L	B4	28	90	120	124.7	90	49.27	32.35

- [Caution on Product Characteristics]
- ① A sets of miter gears must be identical in module and number of teeth, but opposite in spiral hands.
 - ② The allowable torques shown in the table are the calculated values according to the assumed usage conditions. Please see page 421 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 422 for more details.

Ground Spiral Miter Gears



B4

Hub width H	Length of bore I	Face width J	Holding surface dia. K	Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)	Catalog No.
				Bending strength	Surface durability	Bending strength	Surface durability			
12.5	20	9	24.54	15.6	21.7	1.59	2.21	0.05~0.11	0.14	MMSG2-20R MMSG2-20L
16	26	11	30.89	30.0	42.6	3.06	4.35	0.06~0.12	0.27	MMSG2.5-20R MMSG2.5-20L
16	27	14	34.4	53.8	77.6	5.48	7.91	0.07~0.13	0.43	MMSG3-20R MMSG3-20L
14	29	16	42.75	84.3	124	8.60	12.6	0.08~0.14	0.51	MMSG3.5-20R MMSG3.5-20L
17	35	18	49.08	125	185	12.7	18.9	0.10~0.16	0.80	MMSG4-20R MMSG4-20L
11	21	11	30.89	25.3	43.5	2.57	4.44	0.05~0.11	0.21	MMSG2-25R MMSG2-25L
14	26	14	37.4	49.9	87.6	5.09	8.94	0.06~0.12	0.37	MMSG2.5-25R MMSG2.5-25L
17	31	17	43.92	86.8	155	8.85	15.8	0.07~0.13	0.65	MMSG3-25R MMSG3-25L
19	37	20	52.43	139	251	14.1	25.6	0.08~0.14	1.04	MMSG3.5-25R MMSG3.5-25L
22	42	23	58.95	192	353	19.6	36.0	0.10~0.16	1.57	MMSG4-25R MMSG4-25L
15	26	12	38.06	35.4	72.9	3.61	7.43	0.05~0.11	0.36	MMSG2-30R MMSG2-30L
16	30	15	47.57	69.1	145	7.05	14.8	0.06~0.12	0.66	MMSG2.5-30R MMSG2.5-30L
18	36	20	55.43	128	274	13.0	27.9	0.07~0.13	1.11	MMSG3-30R MMSG3-30L
20	40	22	67.77	181	393	18.4	40.1	0.08~0.14	1.75	MMSG3.5-30R MMSG3.5-30L
22	44	25	77.29	268	593	27.4	60.5	0.10~0.16	2.49	MMSG4-30R MMSG4-30L

[Caution on Secondary Operations]

- ① Please read "Caution on Performing Secondary Operations" (Page 422) when performing modification and/or secondary operations for safety concerns. Haguruma Kobo, 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).

Spur Gears

Helical Gears

Internal Gears

Racks

CP Racks & Pinions

Miter Gears

Bevel Gears

Screw Gears

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