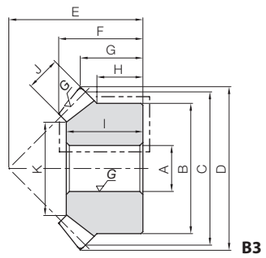
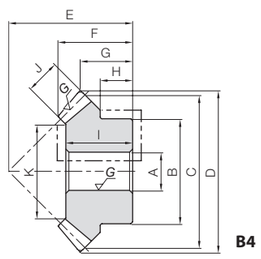
Specifications	
Precision grade	JIS B 1704: 1978 grade 1*
Gear teeth	Gleason
Pressure angle	20°
Helix angle	35°
Material	SCM415
Heat treatment	Tooth area carburized
Tooth hardness	55 to 60HRC

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

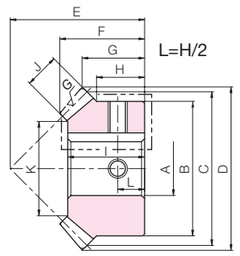


B3

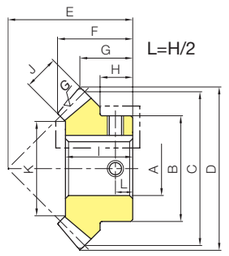


B4

J Series



B3K



B4K

Catalog Number	Gear Ratio	No. of teeth	Shape	Direction of spiral	Bore A_{H7}	Hub dia. B	Pitch dia. C	Outside dia. D	Mounting distance E	Total length F	Crown to back G	Hub width H	Hole length I	Face width J	Holding surface dia. K	Allowable torque (N-m) Bending strength	Allowable torque (N-m) Surface durability	Allowable torque (kgf-m) Bending strength	Allowable torque (kgf-m) Surface durability	Backlash (mm)	Weight (kg)
MMSG2-20R MMSG2-20L	1	20	B3	R L	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	0.14
MMSG2.5-20R MMSG2.5-20L				R L	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				R L	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			B4	R L	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				R L	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	1	25	B4	R L	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				R L	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				R L	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				R L	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				R L	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	1	30	B4	R L	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				R L	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				R L	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				R L	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				R L	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

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

Bore H_7	* The product shapes of J Series items are identified by background color.																
Keyway J_{S9}	12	14	15	16	17	18	19	20	22	25	28	30	32	35	40	45	50
Screw size	4 × 1.8	5 × 2.3				6 × 2.8				8 × 3.3			10 × 3.3		12 × 3.3	14 × 3.8	
Catalog Number	M4					M5				M6			M8			M10	
MMSG2-20R J BORE	B3K	B3K	B3K	B3K	B3K	B3K											
MMSG2-20L J BORE	B3K	B3K	B3K	B3K	B3K	B3K											
MMSG2.5-20R J BORE		B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K								
MMSG2.5-20L J BORE		B3K	B3K	B3K	B3K	B3K	B3K	B3K	B3K								
MMSG3-20R J BORE				B3K	B3K	B3K	B3K	B3K	B3K	B3K							
MMSG3-20L J BORE				B3K	B3K	B3K	B3K	B3K	B3K	B3K							
MMSG3.5-20R J BORE								B4K	B4K	B4K	B4K	B4K					
MMSG3.5-20L J BORE								B4K	B4K	B4K	B4K	B4K					
MMSG4-20R J BORE								B4K	B4K	B4K	B4K	B4K	B4K				
MMSG4-20L J BORE								B4K	B4K	B4K	B4K	B4K	B4K				
MMSG2-25R J BORE	B4K	B4K	B4K	B4K	B4K	B4K	B4K	B4K	B4K								
MMSG2-25L J BORE	B4K	B4K	B4K	B4K	B4K	B4K	B4K	B4K	B4K								
MMSG2.5-25R J BORE				B4K	B4K	B4K	B4K	B4K	B4K	B4K							
MMSG2.5-25L J BORE				B4K	B4K	B4K	B4K	B4K	B4K	B4K							
MMSG3-25R J BORE								B4K	B4K	B4K	B4K	B4K	B4K				
MMSG3-25L J BORE								B4K	B4K	B4K	B4K	B4K	B4K				
MMSG3.5-25R J BORE										B4K	B4K	B4K	B4K	B4K	B4K		
MMSG3.5-25L J BORE										B4K	B4K	B4K	B4K	B4K	B4K		
MMSG4-25R J BORE											B4K	B4K	B4K	B4K	B4K	B4K	
MMSG4-25L J BORE											B4K	B4K	B4K	B4K	B4K	B4K	
MMSG2-30R J BORE		B4K	B4K	B4K	B4K	B4K	B4K	B4K	B4K	B4K							
MMSG2-30L J BORE		B4K	B4K	B4K	B4K	B4K	B4K	B4K	B4K	B4K							
MMSG2.5-30R J BORE				B4K	B4K	B4K	B4K	B4K	B4K	B4K	B4K	B4K	B4K				
MMSG2.5-30L J BORE				B4K	B4K	B4K	B4K	B4K	B4K	B4K	B4K	B4K	B4K				
MMSG3-30R J BORE								B4K	B4K	B4K	B4K	B4K	B4K	B4K			
MMSG3-30L J BORE								B4K	B4K	B4K	B4K	B4K	B4K	B4K			
MMSG3.5-30R J BORE										B4K	B4K	B4K	B4K	B4K	B4K	B4K	B4K
MMSG3.5-30L J BORE										B4K	B4K	B4K	B4K	B4K	B4K	B4K	B4K
MMSG4-30R J BORE											B4K	B4K	B4K	B4K	B4K	B4K	B4K
MMSG4-30L J BORE											B4K	B4K	B4K	B4K	B4K	B4K	B4K

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