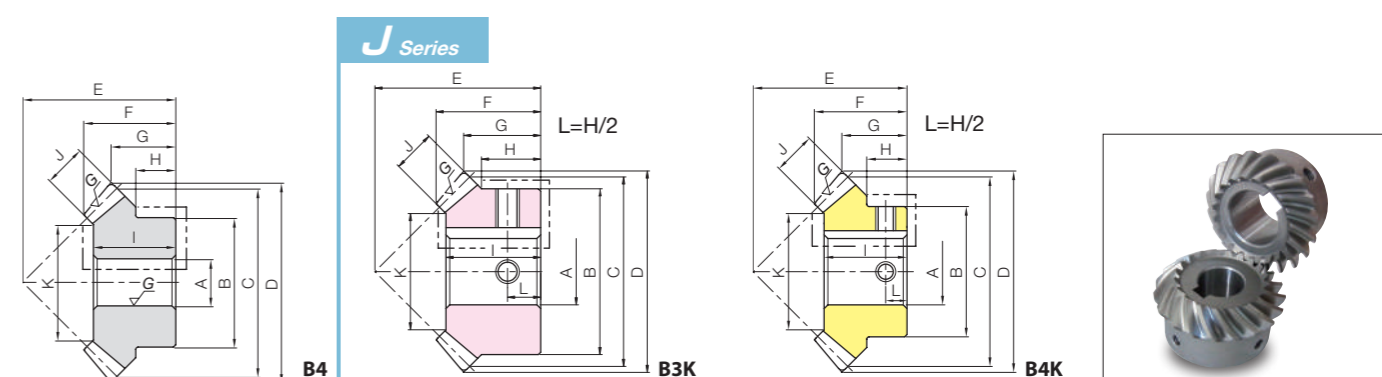
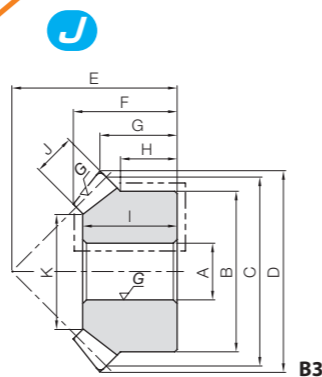




Specifications	
Precision grade	JIS B 1704: 1978 grade 1*
Gear teeth	Gleason
Pressure angle	20°
Helix angle	35°
Material	SCM415
Heat treatment	Carburized **
Tooth hardness	55 to 60HRC

* The precision grade of J Series products is equivalent to the value shown in the table.
 ** In the illustration, the area surrounded with ---- line is masked during the carburization process (max. HRC40 or so) and can be modified.



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

Catalog Number	Gear Ratio	No. of teeth	Shape	Direction of spiral	Bore		Pitch dia.	Outside dia.	Mounting distance	Total length	Crown to back	Hub width	Hole length	Face width	Holding surface dia.	Allowable torque (N·m)		Backlash (mm)	Weight (kg)		
					A-H7	B										Bending strength	Surface durability				
MMSG2-20R MMSG2-20L	1	20	B3	R	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				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	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				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	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
				L																	
MMSG2-25R MMSG2-25L	1	25	B4	R	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				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	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				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	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
				L																	
MMSG2-30R MMSG2-30L	1	30	B4	R	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				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	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				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	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
				L																	

Catalog Number	* The product shapes of J Series items are identified by background color.																
	12	14	15	16	17	18	19	20	22	25	28	30	32	35	40	45	50
MMSG2-20R J BORE																	
MMSG2-20L J BORE																	
MMSG2.5-20R J BORE																	
MMSG2.5-20L J BORE																	
MMSG3-20R J BORE																	
MMSG3-20L J BORE																	
MMSG3.5-20R J BORE																	
MMSG3.5-20L J BORE																	
MMSG4-20R J BORE																	
MMSG4-20L J BORE																	
MMSG2-25R J BORE																	
MMSG2-25L J BORE																	
MMSG2.5-25R J BORE																	
MMSG2.5-25L J BORE																	
MMSG3-25R J BORE																	
MMSG3-25L J BORE																	
MMSG3.5-25R J BORE																	
MMSG3.5-25L J BORE																	
MMSG4-25R J BORE																	
MMSG4-25L J BORE																	
MMSG2-30R J BORE																	
MMSG2-30L J BORE																	
MMSG2.5-30R J BORE																	
MMSG2.5-30L J BORE																	
MMSG3-30R J BORE																	
MMSG3-30L J BORE																	
MMSG3.5-30R J BORE																	
MMSG3.5-30L J BORE																	
MMSG4-30R J BORE																	
MMSG4-30L J BORE																	

[Caution on J series] ① Cancellation is not possible for made-to-order products. See page 42 for lead times and allowable order quantities. See page 44 for other precautions.

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

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