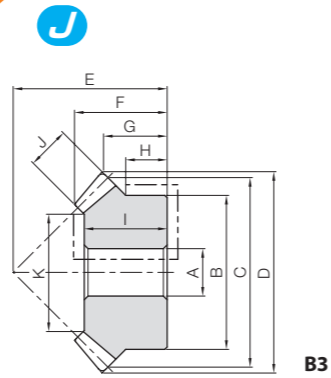


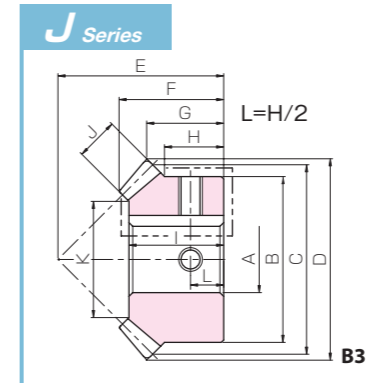


Specifications	
Precision grade	JIS B 1704: 1978 grade 4
Gear teeth	Gleason
Pressure angle	20°
Material	SCM415
Heat treatment	Carburized **
Tooth hardness	55 to 60HRC
Surface treatment	Black oxide coating

\* 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.



B3



B3K



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

Catalog Number	Gear Ratio	No. of teeth	Shape	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)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)
				A <sub>H7</sub>	B										Bending strength	Surface durability	Bending strength	Surface durability		
MM2-20	1	20	B3	12	34	40	42.83	35	22.24	16.41	12	20	9	24.54	15.1	9.74	1.54	0.99	0.06~0.16	0.13
MM2.5-20				15	42	50	53.54	45	28.89	21.77	16	26	11	30.89	29.0	19.0	2.96	1.94	0.07~0.17	0.27
MM3-20				16	52	60	64.24	50	31.19	22.12	16	27	14	34.4	52.0	34.5	5.30	3.52	0.08~0.18	0.43
MM4-20				20	65	80	85.66	65	39.49	27.83	17.5	35	18	49.09	121	81.2	12.3	8.28	0.12~0.27	0.93
MM5-20				25	80	100	107.07	90	60.38	43.54	30	54	26	54.46	256	175	26.1	17.8	0.14~0.34	2.15
MM2-25	1	25	B3	12	45	50	52.83	40	24.33	16.41	12.5	21	12	28.06	26.4	20.1	2.70	2.05	0.06~0.16	0.25
MM2.5-25				16	55	62.5	66.03	50	30.41	20.52	15	27	15	36.57	51.6	39.7	5.27	4.05	0.07~0.17	0.47
MM3-25				20	65	75	79.24	60	37.81	24.62	17.5	33	20	39.43	94.7	73.5	9.66	7.49	0.08~0.18	0.81
MM4-25				25	85	100	105.66	80	49.32	32.83	22.5	44	25	57.29	217	171	22.1	17.4	0.12~0.27	1.89
MM5-25				28	100	125	132.07	100	60.82	41.04	25	50	30	65.15	413	329	42.1	33.6	0.14~0.34	3.41
MM2-30	1	30	B3	12	45	60	62.83	50	29.43	21.41	12.5	25	12	36.06	35.7	31.1	3.64	3.17	0.06~0.16	0.37
MM2.5-30				16	60	75	78.54	62	36.28	26.27	17	32	15	47.57	69.7	61.5	7.11	6.27	0.07~0.17	0.76
MM3-30				20	70	90	94.24	75	45.47	32.12	20	40	20	53.43	129	115	13.2	11.7	0.08~0.18	1.32
MM4-30				28	100	120	125.66	95	54.52	37.83	25	50	25	79.29	293	266	29.9	27.1	0.12~0.27	3.09
MM5-30				28	130	150	157.07	120	68.56	48.54	35	62	30	99.15	558	513	56.9	52.3	0.14~0.34	6.47

Bore H7	* 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	55	60	65	70	75	80	85																				
Keyway J <sub>S9</sub>																																												
Screw size	4x1.8				5x2.3				6x2.8				8x3.3				10x3.3				12x3.3				14x3.8				16x4.3				18x4.4				20x4.9				22x5.4			
Catalog Number	M4				M5				M6				M8				M10				M12				M16																			
MM2-20 J BORE																																												
MM2.5-20 J BORE																																												
MM3-20 J BORE																																												
MM4-20 J BORE																																												
MM5-20 J BORE																																												
MM2-25 J BORE																																												
MM2.5-25 J BORE																																												
MM3-25 J BORE																																												
MM4-25 J BORE																																												
MM5-25 J BORE																																												
MM2-30 J BORE																																												
MM2.5-30 J BORE																																												
MM3-30 J BORE																																												
MM4-30 J BORE																																												
MM5-30 J BORE																																												

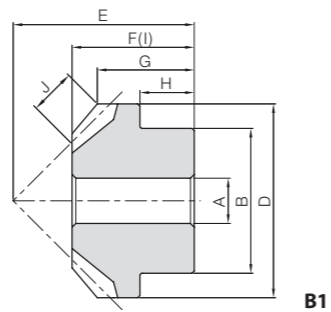
[Caution on J series] ① Cancellation is not possible for made-to-order products. See page 42 for lead times and allowable order quantities. See page 44 for other precautions.

LM Module 0.8~1.5  
Sintered Metal Miter Gears

Sintered Metal Miter Gears



Specifications	
Precision grade	JIS B 1704: 1978 grade 5
Gear teeth	Gleason
Pressure angle	20°
Material	SMF5040
Heat treatment	—
Tooth hardness	(70 to 95HRB)



B1

Catalog Number	Gear Ratio	Module	No. of teeth	Shape	Bore		Hub dia.	Pitch dia.	Outside dia.	Mounting distance	Total length	Crown to back	Hub width
					A <sub>H8</sub>	B							
LM0.8-20	1	m0.8	20	B1	4	12	16	17.13	16	11	8.57	5.5	
LM1-20		m1			5	16	20	21.41	20	13.5	10.71	6	
LM1.25-20		m1.25			6	22	25	26.77	23	15	11.38	6	
LM1.5-20		m1.5			6	26	30	32.12	30	21	16.06	9	

[Caution on Product Characteristics] ① Steam treatment (where the surface is rusted using steam) is provided.  
② The product is not impregnated with lubricating oil.

Hole length	Face width	Holding surface dia.	Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (g)	Catalog Number
			Bending strength	Surface durability	Bending strength	Surface durability			
11	4.24	—	0.22	0.027	0.022	0.0027	0~0.16	9.67	LM0.8-20
13.5	4.95		0.41	0.050	0.042	0.0051	0~0.18	20.7	LM1-20
15	6.36		0.81	0.099	0.083	0.010	0~0.20	38.8	LM1.25-20
21	8.48		1.48	0.19	0.15	0.019	0~0.22	78.6	LM1.5-20