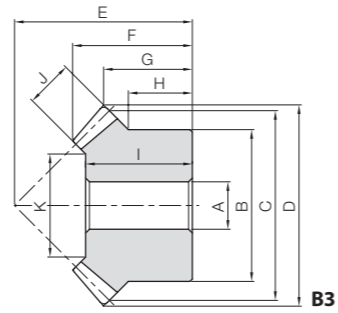




Specifications	
Precision grade	JIS B 1704: 1978 grade 4*
Gear teeth	Gleason
Pressure angle	20°
Material	MC901
Heat treatment	—
Tooth hardness	(115 to 120HRR)

* The precision grade is equivalent to the value shown in the table.



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 _{H8}	B	C	D	E	F	G	H
PM1-20	1	m1	20	B3	6	16	20	21.41	20	13.95	10.71	8
PM1.25-20		m1.25			8	22	25	26.77	23	15.27	11.38	9
PM1.5-20		m1.5			8	26	30	32.12	30	21.24	16.06	13
PM2-20		m2			10	34	40	42.83	37	24.89	18.41	14
PM2.5-20		m2.5			12	42	50	53.54	48	32.54	24.77	19
PM3-20		m3			14	50	60	64.24	58	39.84	30.12	23
PM3.5-20		m3.5			20	60	70	74.95	65	44.13	32.47	25
PM4-20		m4			20	64	80	85.66	75	50.78	37.83	27
PM1-25	1	m1	25	B3	6	20	25	26.41	23	15.16	11.21	8
PM1.5-25		m1.5			8	30	37.5	39.62	34	22.25	16.31	11.5
PM2-25		m2			10	40	50	52.83	40	24.33	16.41	10
PM2.5-25		m2.5			14	50	62.5	66.04	50	30.41	20.52	12.5
PM3-25		m3			15	60	75	79.24	60	37.81	24.62	15

[Caution on Product Characteristics] ① To reduce heat generation, it is recommended to mate plastic gears with steel gears.

* In regard to MC Nylon gears, other materials are available for plastic gears, including Ultra High Molecular Weight Polyethylene (U-PE), which has excellent abrasion resistance and resin conforming to the Plastic Implementation Measure (PIM). A single piece order is acceptable and will be produced as a custom-made gear. Please see Page 26 for more details on quotations and orders.

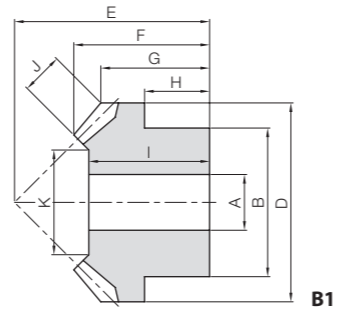
Hole length	Face width	Holding surface dia.	Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (g)	Catalog Number
			Bending strength	Surface durability	Bending strength	Surface durability			
12	5	9.86	0.22	—	0.022	—	0~0.23	2.77	PM1-20
13	6	13.03	0.42	—	0.043	—	0~0.24	5.31	PM1.25-20
19	8	15.37	0.76	—	0.077	—	0~0.25	11.0	PM1.5-20
22	10	21.72	1.74	—	0.18	—	0~0.26	22.5	PM2-20
29	12	28.06	3.34	—	0.34	—	0~0.27	45.9	PM2.5-20
35	15	31.57	5.89	—	0.60	—	0~0.28	79.8	PM3-20
40	18	39.09	9.47	—	0.97	—	0~0.30	121	PM3.5-20
45	20	43.43	14.0	—	1.42	—	0~0.32	170	PM4-20
14	6	15.03	0.36	—	0.036	—	0~0.23	5.13	PM1-25
19	9	19.54	1.20	—	0.12	—	0~0.25	17.0	PM1.5-25
20	12	26.06	2.84	—	0.29	—	0~0.26	32.7	PM2-25
26	15	34.57	5.55	—	0.57	—	0~0.27	63.9	PM2.5-25
32	20	37.43	10.0	—	1.02	—	0~0.28	115	PM3-25



Specifications	
Precision grade	JIS B 1704: 1978 grade 6*
Gear teeth	Gleason
Pressure angle	20°
Material	Duracon (R) (M90-44) **
Heat treatment	—
Tooth hardness	(110 to 120HRR)

* The precision grade is equivalent to the value shown in the table.

** "Duracon (R)" is a registered trademark of Polyplastics Co., Ltd. in Japan as well as other countries.



Catalog Number	Gear Ratio	Module	No. of teeth	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Mounting distance	Total length	Crown to back
					A	B	D	E	F	G	
DM0.5-20	1	m0.5	20	B1	3	8	10	10.71	11	7.97	6.35
DM0.8-20		m0.8			5	12	16	17.13	16	10.83	8.56
DM1-20		m1			6	16	20	21.41	21	14.62	11.71
DM1.5-20		m1.5			8	20	30	32.12	30	20.59	16.06

[Caution on Product Characteristics] ① The bore tolerance is -0.05 to -0.30, but it may be slightly higher at the center of the hole.

② For the dimensional accuracy of each part, see the dimensional tolerance of molded items in the table at right.

[Caution on Secondary Operations] ① As it is a molded item, bubbles may form inside the material. Avoid performing secondary operations.



When using the injection molded bevel gear as an idler gear and a shaft diameter smaller than the inside diameter of the molded gear, please press fit one of the standard bushings. For details on bushings, please see Page 338.

■ Dimensional tolerance of molded item (unit: mm)

Dimensional classification	Grade	Rough grade
	3 or less	±0.20
4 to 6	±0.25	±0.30
7 to 10	±0.30	±0.35
11 to 18	±0.35	±0.40
19 to 30	±0.40	±0.50
Over 30	±0.50	

Hub width	Hole length	Face width	Holding surface dia.	Allowable torque (N·m)		Backlash (mm)	Weight (g)	Catalog Number
				Bending strength	Bending strength			
4	7	2.5	4.93	0.082	0.0083	0~0.30	0.57	DM0.5-20
5	10	3.5	10.1	0.31	0.032	0~0.48	1.93	DM0.8-20
7	13	4.5	11.27	0.54	0.055	0~0.60	4.28	DM1-20
10	19	7	18.2	0.96	0.098	0~0.60	11.8	DM1.5-20