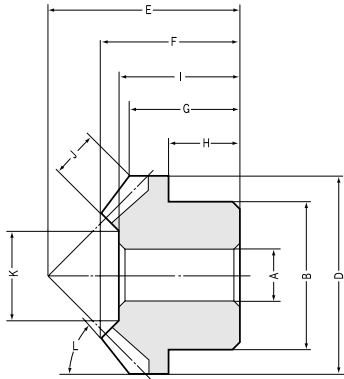




DM Injection Molded Miter Gears Modules 0.5~1.5



B1 Shape

Dimensional tolerance table (unit: mm)

Range	Tolerance
Below 3mm	±0.2
3 up to 6 mm	±0.25
6 up to 10 mm	±0.3
10 up to 18 mm	±0.35
18 up to 30 mm	±0.4
30 mm up	±0.5

Specifications

Precision grade	JIS B 1704 grade 8
Gear teeth	Gleason
Pressure angle	20°
Material	Duracon(M90-44)
Heat treatment	—
Tooth hardness	110~120HRR
Surface treatment	—
Tooth surface finish	Injection molded
Datum reference surface for tooth forming	Bore
Secondary Operations	Not recommended

20 Tooth Miter Gears Modules 0.5~1.5

Catalog No.	Module	No. of teeth	Bore NOTE 1	Hub dia.	Pitch dia.	Outside dia.	Mounting distance	Total length	Crown to back length	Hub width	Length of bore	Face width	Holding surface dia.	Tip angle
	<i>m</i>	<i>z</i>	A	B	C	D	E	F	G	H	I	J	K	L
DM0.5-20	0.5	20	3	8	10	10.71	11	7.97	6.35	4	7	2.5	4.93	49°48'
DM0.8-20	0.8	20	5	12	16	17.13	16	10.83	8.56	5	10	3.5	10.1	49°48'
DM1-20	1	20	6	16	20	21.41	21	14.62	11.71	7	13	4.5	11.27	49°48'
DM1.5-20	1.5	20	8	20	30	32.12	30	20.59	16.06	10	19	7	18.2	49°48'

NOTE 1: The bore tolerance is generally -0.05 to -0.1 but may be + value at the central portion of the hole. Re-machining the bore is not recommended since reworking material may expose voids.

Shape	Allowable torque (N·m) NOTE 2		Allowable torque (kgf·m)		Backlash (mm)	Weight (kgf)	Catalog No.
	Bending strength	Surface durability	Bending strength	Surface durability			
B1	0.1	—	(0.0102)	—	0.04 ~ 0.14	1	DM0.5-20 DM0.8-20 DM1-20 DM1.5-20
B1	0.3491	—	(0.0356)	—	0.06 ~ 0.16	2	
B1	0.6021	—	(0.0614)	—	0.08 ~ 0.18	4	
B1	1.057	—	(0.1078)	—	0.1 ~ 0.2	13	

NOTE 2: The allowable torques shown in the table are the calculated values using the Lewis formula.

Pitch Angle 45°



BB Sintered Metal Bushings

The table shows a series of standard metal bushings that can be pressed into standard injection molded gears. They can be used as bearing metal on idler gears or to reduce the bore of the gears.

(unit: mm)

Catalog No.	I.D. of bushing	O.D. of bushing	Length	Products that can use the bushing
	$d_{-0.02}^{+0.02}$	$D_{-0.01}^{+0.02}$	$L_{-0.3}^0$	
BB30507	3	5	7	DS0.5, DM0.8, DB0.8
BB30608	3	6	8	DS0.5, DS0.8, DM1
BB40609	4	6	9	DS0.8, DM1
BB40612	4	6	12	DS1, DB1
BB50812	5	8	12	DS1
BB50814	5	8	14	DS1, DM1.5

Material: Oil impregnated sintered bronze.

