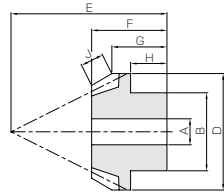


DB Injection Molded Bevel Gears

Module 0.5 ~ 1



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

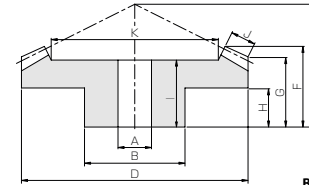


B1

Catalog No.	Gear ratio	Module	No. of teeth	Shape	Bore		Pitch dia.	Outside dia.	Mounting distance	Total length		Crown to back length
					A	B				F	G	
DB0.5-4020 DB0.5-2040	2	m0.5	40	B9	4	12	20	20.29	12	8.33	7.29	
			20	B1	3	8	10	11.2	16	8.46	6.3	
DB0.8-4020 DB0.8-2040		m0.8	40	B9	5	15	32	32.47	18	11.91	10.47	
			20	B1	4	12	16	17.92	24	11.5	8.48	
DB1-4020 DB1-2040		m1	40	B9	6	18	40	40.59	22	14.45	12.59	
			20	B1	5	15	20	22.4	30	14.49	10.6	

- [Caution on Product Characteristics]
- The allowable torques shown in the table are the calculated values according to the assumed usage conditions. Please see page 283 for more details.
 - The bore tolerance is generally -0.05 to -0.3 but may be + values at the central portion of the hole.
 - To find the dimensional tolerance of these gears, please see the Dimensional Tolerance Table.

Injection Molded Bevel Gears



B9

Hub width	Length of bore	Face width	Holding surface dia.	Allowable torque (N·m)	Allowable torque (kgf·m)	Backlash (mm)	Weight (g)	Catalog No.
H	I	J	K	Bending strength	Bending strength			
4	7	2.5	14.41	0.24	0.025	0 ~ 0.30	2.00	DB0.5-4020
4	—	—	—	0.092	0.0094		0.54	DB0.5-2040
6	10	3.5	24.17	0.91	0.093	0 ~ 0.48	6.26	DB0.8-4020
5	—	—	—	0.34	0.035		1.87	DB0.8-2040
7.5	12.5	4.5	30.44	1.59	0.16	0 ~ 0.60	11.9	DB1-4020
7	—	—	—	0.60	0.061		3.54	DB1-2040

- [Caution on Secondary Operations]
- Avoid performing secondary operations as reworking material may expose air bubbles (voids).

Dimensional tolerance table (Unit : mm)

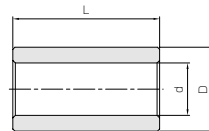
Range	Tolerance
below 3 mm	± 0.20
3 up to 6 mm	± 0.25
6 up to 10 mm	± 0.30
10 up to 18 mm	± 0.35
18 up to 30 mm	± 0.40
30 mm up	± 0.50

BB Sintered Metal Bushings

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.



T8

Catalog No.	I.D. of bushing	O.D. of bushing	Length	Products that can use the bushing
	d ^{+0.02} ₀	D ^{+0.02} _{-0.01}		
BB30507	3	5	7	DB0.8
BB40612	4	6	12	DB1

Material : Oil impregnated sintered bronze.

