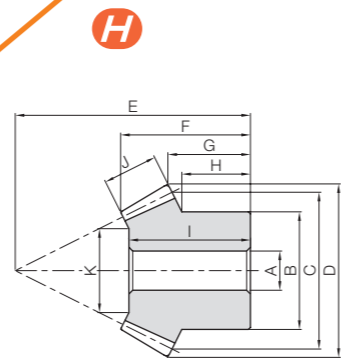
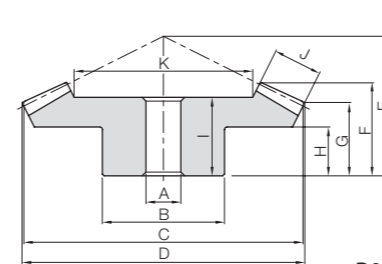




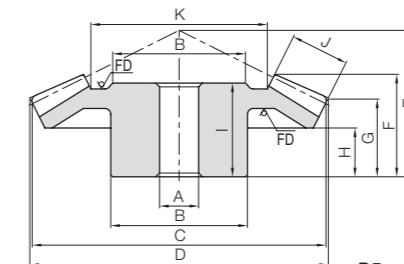
Specifications	
Precision grade	JIS B 1704: 1978 grade 3
Gear teeth	Gleason
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating



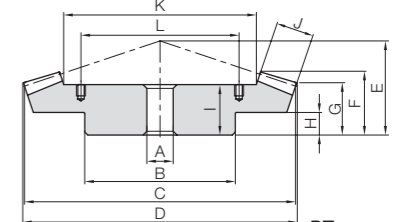
B3



B4



B5



BT

* FD has a forged finish surface.

H To order Hardened Plus, please specify **Catalog No. + H**. Example: **SB1.5-6015H**

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 _{H7}	B	C	D						
SB1.5-6015 SB1.5-1560	4	m1.5	60	B4	12	50	90	90.41	32	24.2	21.58	12		
15			B3	8	18	22.5	26.66	56	23.01	11.52	10.43			
SB2-6015 SB2-1560		m2	60	B4	15	60	120	120.55	42	31.6	28.1	16		
15			B3	10	24	30	35.55	75	31.01	15.69	14.25			
SB2.5-6015 SB2.5-1560		m2.5	60	B4	20	70	150	150.69	53	40	35.63	20		
15			B3	12	30	37.5	44.44	94	39.02	19.87	18.06			
SB3-6015 SB3-1560		m3	60	B4	20	80	180	180.83	64	47.97	43.15	25		
15			B3	15	38	45	53.33	112	44.1	23.04	21.12			
SB4-6015 SB4-1560		m4	60	B5	25	85	240	241.1	80	59.2	52.2	36		
15			B3	16	50	60	71.1	150	62.03	31.4	28.75			
SBY5-6015 SBY5-1560		m5	60	BT	30	180	300	301.36	80	53.97	45.22	20		
15			B3	25	60	75	88.9	185	75.03	36.74	33.13			
SBY6-6015 SBY6-1560	m6	60	BT	35	200	360	361.66	100	68.16	58.31	25			
15		B3	25	75	90	106.66	220	85.17	42.08	38.13				

[Caution on Product Characteristics] ① For the handling conveniences, the BT series has the tapped holes on the holding surface. Please see the table on the right for L and tap sizes.

[Caution on Secondary Operations] ① See Page 22 for more details on Hardened Plus (H Series and HJ Series).

Hole length	Face width	Holding surface dia.	Allowable torque						Backlash (mm)	Weight (kg)	Catalog Number
			Bending strength		Surface durability		Surface durability H				
I	J	K	N·m	kgf·m	N·m	kgf·m	N·m	kgf·m			
21	12	65.38	17.3	1.77	1.75	0.18	7.28	0.74	0.05~0.15	0.62	SB1.5-6015 SB1.5-1560
22.5		15.54	4.46	0.45	0.44	0.045	1.82	0.19			
27	16	87.02	41.3	4.21	4.30	0.44	17.5	1.79	0.06~0.16	1.35	SB2-6015 SB2-1560
30		18.06	10.6	1.08	1.07	0.11	4.38	0.45			
34	20	108.64	80.2	8.18	8.54	0.87	34.6	3.53	0.07~0.17	2.51	SB2.5-6015 SB2.5-1560
37.5		20.57	20.6	2.10	2.13	0.22	8.66	0.88			
41	22	134.4	130	13.3	14.2	1.44	56.8	5.79	0.08~0.18	4.16	SB3-6015 SB3-1560
43		31.58	33.5	3.42	3.54	0.36	14.2	1.45			
53	32	174.03	328	33.5	37.0	3.77	145	14.8	0.12~0.27	6.00	SB4-6015 SB4-1560
60		36.12	84.5	8.62	9.24	0.94	36.2	3.70			
45	40	218.79	642	65.4	74.4	7.59	286	29.1	0.14~0.34	17.5	SBY5-6015 SBY5-1560
73		49.15	165	16.8	18.6	1.90	71.4	7.28			
56	45	267.73	1050	107	126	12.8	475	48.4	0.16~0.36	30.7	SBY6-6015 SBY6-1560
82		54.92	270	27.5	31.5	3.21	119	12.1			

For the handling conveniences, the products listed in the table below have the tapped holes (180° apart, 2 places) on the holding surface.

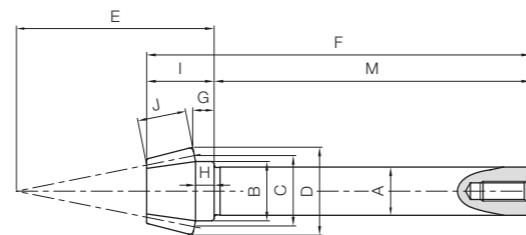
Catalog Number	L (mm)	Tap Size
SBY5-6015	160	M10, 20mm deep
SBY6-6015	220	M10, 20mm deep

SB Module 1.5~3
Steel Bevel Gears & Pinion Shafts *NEW*

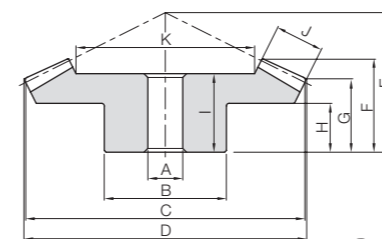


Specifications	
Precision grade	JIS B 1704: 1978 grade 3
Gear teeth	Gleason
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)*
Surface treatment	Black oxide coating

* B8 products use thermal refined materials, so the teeth hardness is 200 to 270 HB.



B8



B4

H To order Hardened Plus, please specify **Catalog No. + H**. Example: **SB1.5-6012H**

Catalog Number	Gear Ratio	Module	No. of teeth	Shape	Bore/Shaft Dia.		Hub dia.	Pitch dia.	Outside dia.	Mounting distance	Total length	Crown to back	Hub width	Length of bore and shaft
					A _{H7} (bore)	B								
SB1.5-6012 SB1.5-1260	5	m1.5	60	B4	12	50	90	90.33	30	23.89	21.82	12	21	
12			B8	12.2	15	18	22.24	50	97.06	5.42	4.7	17.06		
SB2-6012 SB2-1260		m2	60	B4	15	60	120	120.43	40	31.85	29.09	16	27	
12			B8	15.2	20	24	29.65	66	117.08	6.56	5.6	22.08		
SB2.5-6012 SB2.5-1260		m2.5	60	B4	20	70	150	150.54	50	39.81	36.36	20	34	
12			B8	20.2	25	30	37.06	83	143.1	8.7	7.5	28.1		
SB3-6012 SB3-1260		m3	60	B4	20	80	180	180.65	60	47.43	43.64	25	41	
12			B8	25.25	30	36	44.48	100	172.19	10.85	9.4	32.19		

[Caution on Secondary Operations] ① See Page 22 for more details on Hardened Plus (H Series and HJ Series).

Face width	Holding surface dia.	Length of shaft	Socket head screw Size	Allowable torque						Backlash (mm)	Weight (kg)	Catalog Number
				Bending strength		Surface durability		Surface durability H				
J	K	M		N·m	kgf·m	N·m	kgf·m	N·m	kgf·m			
12	65.52	—	—	18.0	1.83	1.41	0.14	5.85	0.60	0.05~0.15	0.62	SB1.5-6012 SB1.5-1260
—	—	80	M5	4.01	0.41	0.46	0.047	1.17	0.12			
16	86.96	—	—	42.6	4.34	3.43	0.35	14.1	1.44	0.06~0.16	1.34	SB2-6012 SB2-1260
—	—	95	M6	9.50	0.97	1.12	0.11	2.82	0.29			
20	108.8	—	—	83.2	8.48	6.85	0.70	27.9	2.84	0.07~0.17	2.54	SB2.5-6012 SB2.5-1260
—	—	115	M8	18.5	1.89	2.23	0.23	5.57	0.57			
22	134.73	—	—	135	13.8	11.4	1.16	45.7	4.66	0.08~0.18	4.18	SB3-6012 SB3-1260
—	—	140	M8	30.1	3.07	3.70	0.38	9.13	0.93			