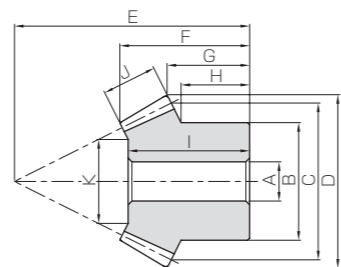
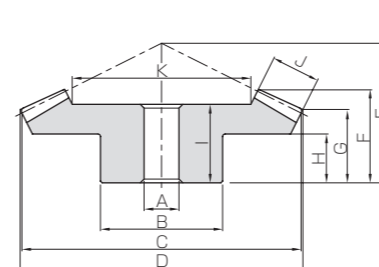




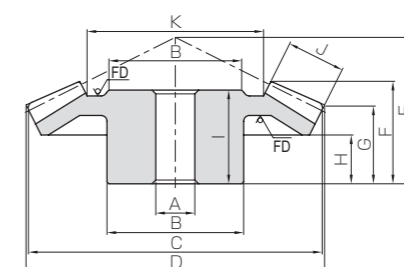
Specifications	
Precision grade	JIS B 1704 : 1978 grade 3
Gear teeth	Gleason
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating



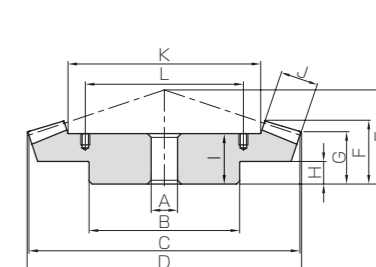
B3



B4



B5



BT

\* FD has die-forged finish.

Catalog No.	Gear ratio	Module	No. of teeth	Shape	Bore		Pitch dia.	Outside dia.	Mounting distance	Total length	Crown to back length		Hub width
					A <sub>H7</sub>	B					G	H	
KSB1.5-6015 KSB1.5-1560		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	
KSB2-6015 KSB2-1560		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	
KSB2.5-6015 KSB2.5-1560		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	
KSB3-6015 KSB3-1560		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	
KSB4-6015 KSB4-1560		m4	60	B5	25	85	240	241.1	80	59.2	52.2	36	
			15	B3	16	50	60	71.10	150	62.03	31.4	28.75	
KSBY5-6015 KSBY5-1560		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	
KSBY6-6015 KSBY6-1560		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]
- The allowable torques shown in the table are the calculated values according to the assumed usage conditions. Please see page 303 for more details.
  - Dimensions of the outside diameter, the overall length and crown to back length are all theoretical values, and some differences will occur due to the corner chamfering of the gear tips.
  - For convenience in handling, KBT Shaped Gears have tapped holes on their holding surface. To find the L dimensions and tap sizes, please refer to Page 304.

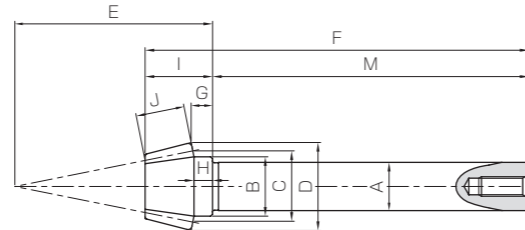
Length of bore	Face width	Holding surface dia.	Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)	Catalog No.
			Bending strength	Surface durability	Bending strength	Surface durability			
21 22.5	12	65.38 15.54	17.3	1.75	1.77	0.18	0.05~0.15	0.62 0.043	SB1.5-6015 SB1.5-1560
27 30			41.3	4.30	4.21	0.44			
34 37.5	20	108.64 20.57	80.2	8.54	8.18	0.87	0.07~0.17	2.51 0.21	SB2.5-6015 SB2.5-1560
41 43			20.6	2.13	2.10	0.22			
53 60	32	174.03 36.12	328	37.0	33.5	3.77	0.12~0.27	6.00 0.91	SB4-6015 SB4-1560
45 73			84.5	9.24	8.62	0.94			
56 82	45	267.73 54.92	1050	126	107	12.8	0.16~0.36	30.7 2.83	SBY6-6015 SBY6-1560
49.15			165	18.6	16.8	1.90			

- [Caution on Secondary Operations]
- Please read "Caution on Performing Secondary Operations" (Page 304) when performing modifications and/or secondary operations for safety concerns.

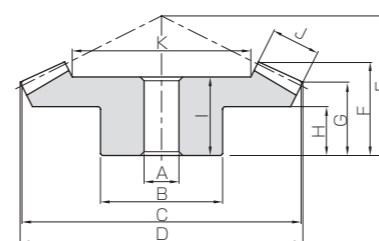
KSB  
Steel Bevel Gears & Pinion Shafts



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



B4

Catalog No.	Gear ratio	Module	No. of teeth	Shape	Bore · Shaft dia.		Pitch dia.	Outside dia.	Mounting distance	Total length	Crown to back length		Hub width	Length of bore · shaft
					A <sub>H7(Bore)</sub> A <sub>H7(Shaft)</sub>	B					C	G		
KSB1.5-6012 KSB1.5-1260		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	
KSB2-6012 KSB2-1260		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	
KSB2.5-6012 KSB2.5-1260		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	
KSB3-6012 KSB3-1260		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 Product Characteristics]
- The allowable torques shown in the table are the calculated values according to the assumed usage conditions. Please see page 303 for more details.
  - Dimensions of the outside diameter, the overall length and crown to back length are all theoretical values, and some differences will occur due to the corner chamfering of the gear tips.

Face width	Holding surface dia.	Shaft length	Screw size	Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)	Catalog No.
				Bending strength	Surface durability	Bending strength	Surface durability			
12	65.52	80	M5	18.0	1.41	1.83	0.14	0.05~0.15	0.62 0.097	KSB1.5-6012 KSB1.5-1260
				4.01	0.46	0.41	0.047			
16	86.96	95	M6	42.6	3.43	4.34	0.35	0.06~0.16	1.34 0.19	KSB2-6012 KSB2-1260
				9.50	1.12	0.97	0.11			
20	108.8	115	M8	83.2	6.85	8.48	0.70	0.07~0.17	2.54 0.40	KSB2.5-6012 KSB2.5-1260
				18.5	2.23	1.89	0.23			
22	134.73	140	M8	135	11.4	13.8	1.16	0.08~0.18	4.18 0.74	KSB3-6012 KSB3-1260
				30.1	3.70	3.07	0.38			

- [Caution on Secondary Operations]
- Please read "Caution on Performing Secondary Operations" (Page 304) when performing modifications and/or secondary operations for safety concerns.