



SBSG

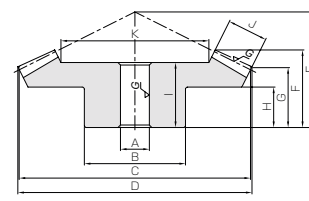
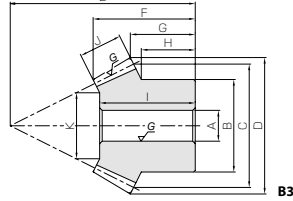
Ground Spiral Bevel Gears



Module 2, 2.5, 3, 4



Specifications	
Precision grade	JIS B 1704: 1978 grade 2
Gear teeth	Gleason
Pressure angle	20°
Helix angle	35°
Material	S45C
Heat treatment	Teeth induction hardened
Tooth hardness	50 ~ 60HRC



Catalog No.	Gear ratio	Module	No. of teeth	Direction of spiral	Shape	Bore		Pitch dia.	Outside dia.	Mounting distance	Total length	Crown to back length			
						A _{H7}	B					F	G		
SBSG2-3020R	1.5	m2	30	R	B4	12	35	60	61.6	40	26.6	21.2			
SBSG2-2030L			L	B3	10	40	43.55	45	24.91	16.18					
SBSG2.5-3020R		m2.5	30	R	B4	15	45	75	77.09	50	33.86	26.56			
SBSG2.5-2030L			L	B3	12	40	50	54.43	55	30.88	18.98				
SBSG3-3020R		m3	30	R	B4	16	50	90	92.21	55	35.34	26.66			
SBSG3-2030L			L	B3	16	45	60	65.58	70	40.17	26.86				
SBSG4-3020R		m4	30	R	B4	20	70	120	122.85	75	47.49	37.14			
SBSG4-2030L			L	B3	20	60	80	87.34	90	48.17	32.45				
SBSG2-4020R		2	m2	40	R	B4	12	40	80	80.99	45	32.26		25.99	
SBSG2-2040L				L	B3	12	32	40	44.10	60	34.04	21.02			
SBSG2.5-4020R			m2.5	40	R	B4	15	50	100	101.27	55	39.65		31.27	
SBSG2.5-2040L				L	B3	12	40	50	55.21	75	43.61	26.30			
SBSG3-4020R	m3		40	R	B4	20	60	120	121.48	65	45.76	36.48			
SBSG3-2040L			L	B3	16	50	60	66.06	90	50.63	31.52				
SBSG4-4020R	m4		40	R	B4	20	70	160	162.07	80	53.69	42.07			
SBSG4-2040L			L	B3	20	60	80	88.50	120	66.24	42.12				
SBSG2-4515R	3		m2	45	R	B4	12	40	90	90.67	40	30.29	26.01		
SBSG2-1545L				L	B3	10	24	30	34.78	60	29.66	15.80			
SBSG2.5-4515R			m2.5	45	R	B4	15	50	112.5	113.32	50	38.25	32.47		
SBSG2.5-1545L				L	B3	12	30	37.5	43.36	75	38.27	19.73			
SBSG3-4515R		m3	45	R	B4	20	60	135	135.99	55	40.59	33.98			
SBSG3-1545L			L	B3	15	38	45	52.08	90	44.98	23.68				

- [Caution on Product Characteristics]
- ① Allowable torques shown in the table are the calculated values according to the assumed usage conditions. Please see page 283 for more details.
 - ② 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.
 - ③ These gears produce axial thrust forces. Please see Page 284 for more details.

Hub width	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			
15	23	11	37.56	14.1	14.2	1.44	1.44	0.05~0.11	0.26	SBSG2-3020R
11.67	22		21.34	9.61	9.44	0.98	0.96			
18	30	15	45.61	29.0	29.7	2.96	3.03	0.06~0.12	0.55	SBSG2.5-3020R
14.17	28		27.42	19.8	19.8	2.02	2.02			
17	31	17	57.14	48.4	50.4	4.94	5.14	0.07~0.13	0.82	SBSG3-3020R
20	37		34.71	33.1	33.6	3.37	3.42			
25	40	20	78.59	106	113	10.8	11.5	0.10~0.16	1.90	SBSG4-3020R
23.33	43		46.89	72.2	75.3	7.36	7.68			
18	27	15	48.46	25.5	26.7	2.60	2.73	0.05~0.11	0.51	SBSG2-4020R
18	32		20.92	12.8	13.4	1.30	1.36			
20	34	20	59.28	51.7	55.1	5.27	5.62	0.06~0.12	1.06	SBSG2.5-4020R
22.5	40		20.56	25.9	27.6	2.64	2.81			
24	38	22	73.81	84.8	91.9	8.65	9.38	0.07~0.13	1.67	SBSG3-4020R
27.5	47		29.61	42.5	46.0	4.33	4.69			
28	45	28	102.39	195	217	19.9	22.2	0.10~0.16	3.33	SBSG4-4020R
35	62		42.78	97.9	109	9.98	11.1			
17	26	15	59.04	34.8	28.1	3.55	2.87	0.05~0.11	0.60	SBSG2-4515R
14	29		19.13	11.2	9.38	1.14	0.96			
22	35	20	72.84	59.0		6.01	4.93	0.06~0.12	1.21	SBSG2.5-4515R
17.5	37		20.51	18.9		1.93	1.64			
20	35	23	88.18	99.3	82.5	10.1	8.41	0.07~0.13	1.99	SBSG3-4515R
21.33	44		28.54	31.8	27.5	3.24	2.80			

- [Caution on Secondary Operations]
- ① Please read "Caution on Performing Secondary Operations" (Page 284) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.
 - ② Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2 to 3 mm).

GCU-M Miter Gear Kit



Installment : Intersecting axes gears
 Gear Type : Miter Gears
 Gears : SM2-25
 PM2-25
 Gear Ratio : 1
 Weight : Approx. 1kg

Use of bevel gears allows the changing of the shaft angle by 90 degrees. Applications include the changing of the direction of power.

* For products not categorized in our KHK Stock Gear series, custom gear production services with **short lead times** is available. For details see Page 8.