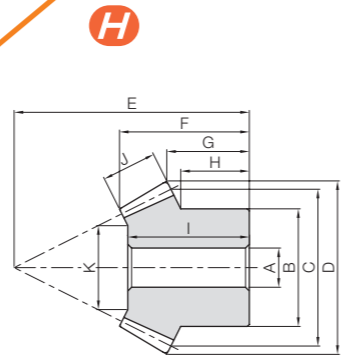
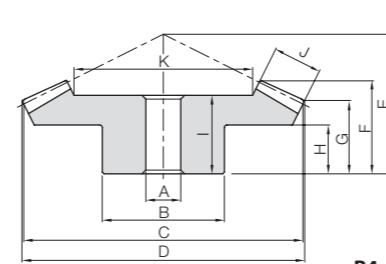




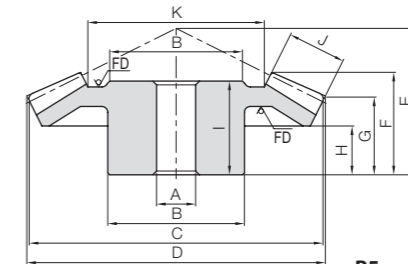
Specifications	
Precision grade	JIS B 1704: 1978 grade 3
Gear teeth	Gleason
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating



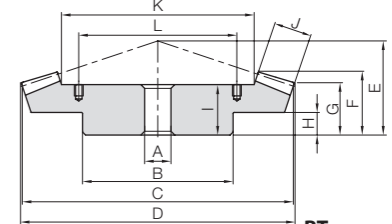
B3



B4



B5



BT

\* FD has a forged finish surface.

To order Hardened Plus, please specify Catalog No. + H. Example: SB1.5-3020H

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 <sub>H7</sub>	B	C	D	E	F	G	H
SB1.5-3020 SB1.5-2030	1.5	m1.5	30	B4	10	30	45	46.24	28	18.53	13.93	8
20			B3	8	25	30	33.13	33	18.63	11.54	8.83	
SB2-3020 SB2-2030		m2	30	B4	10	35	60	61.65	40	26.87	21.24	15
20			B3	10	30	40	44.18	45	25.06	16.39	11.67	
SB2.5-3020 SB2.5-2030		m2.5	30	B4	15	45	75	77.07	50	34.22	26.55	18
20			B3	12	35	50	55.22	55	31.06	19.24	12.5	
SB3-3020 SB3-2030		m3	30	B4	15	50	90	92.48	55	35.56	26.86	17
20			B3	15	45	60	66.27	70	40.48	27.09	20	
SB4-3020 SB4-2030		m4	30	B4	20	70	120	123.3	75	47.71	37.48	25
20			B3	15	60	80	88.32	90	48.53	32.77	23.33	
SB5-3020 SB5-2030	m5	30	B4	25	90	150	154.13	90	58.45	43.1	24	
20		B3	20	80	100	110.45	110	62.11	38.48	28.33		
SB1.5-3015 SB1.5-1530	2	m1.5	30	B4	8	25	45	45.88	25	17.85	14.63	9
15			B3	6	16	22.5	26.11	32	17.23	10.4	7.88	
SB2-3015 SB2-1530		m2	30	B4	10	30	60	61.17	31	21.6	17.17	10
15			B3	8	22	30	34.81	40	20.59	11.2	8	
SB2.5-3015 SB2.5-1530		m2.5	30	B4	15	40	75	76.46	40	28.75	22.71	15
15			B3	12	30	37.5	43.51	55	31.81	19.7	15.63	
SB3-3015 SB3-1530		m3	30	B4	16	50	90	91.76	50	37.31	29.26	18
15			B3	12	35	45	52.22	70	43.88	26.8	22.5	
SB4-3015 SB4-1530		m4	30	B4	20	60	120	122.34	60	42.4	32.34	20
15			B3	16	50	60	69.62	85	48.74	27.41	22.5	
SB5-3015 SB5-1530	m5	30	B5	20	70	150	152.93	75	52.5	40.43	25	
15		B3	20	60	75	87.03	110	63.61	38.01	31.25		
SB6-3015 SB6-1530	m6	30	B5	25	80	180	183.5	90	62.56	48.49	28	
15		B3	25	70	90	104.44	125	68.48	38.6	30		
SB2.5-3618 SB2.5-1836	2	m2.5	36	B4	15	55	90	91.46	43	28.52	21.96	13
18			B3	12	38	45	51.01	64	34.27	20.5	17.25	
SB3-3618 SB3-1836		m3	36	B4	20	60	108	109.76	52	34.95	26.76	17
			18	B3	16	46	54	61.22	75	40.01	22.8	19
SB4-3618 SB4-1836	m4	36	B4	20	70	144	146.34	72	49	38.34	25	
		18	B3	20	60	72	81.62	100	52.77	30.41	25	
SB1-4020 SB1-2040	2	m1	40	B4	8	25	40	40.59	22	15.07	12.59	8
20			B3	6	16	20	22.41	28	13.78	8.6	7	
SB1.25-4020 SB1.25-2040		m1.25	40	B4	10	32	50	50.73	27	18.54	15.23	10
			20	B3	8	22	25	28.01	36	18.66	11.75	10.25
SB1.5-4020 SB1.5-2040		m1.5	40	B4	10	38	60	60.88	35	25.01	20.88	15
			20	B3	8	25	30	33.61	46	25.54	16.9	14.75
SB2-4020 SB2-2040		m2	40	B4	12	40	80	81.17	45	32.37	26.17	18
			20	B3	12	32	40	44.81	60	34.16	21.2	18
SB2.5-4020 SB2.5-2040		m2.5	40	B4	15	50	100	101.46	55	39.73	31.46	20
			20	B3	12	40	50	56.01	75	43.78	26.5	22.5
SB3-4020 SB3-2040		m3	40	B4	20	60	120	121.76	65	45.85	36.76	24
			20	B3	16	50	60	67.22	90	50.81	31.8	27.5
SB4-4020 SB4-2040		m4	40	B4	20	70	160	162.34	80	53.92	42.34	28
			20	B3	20	60	80	89.62	120	66.59	42.41	35
SB5-4020 SB5-2040		m5	40	B5	25	100	200	202.93	90	55.33	42.93	26
			20	B3	20	80	100	112.03	140	68.92	43.01	35
SB6-4020 SB6-2040	m6	40	B5	25	85	240	243.52	105	65.05	48.52	28	
		20	B3	25	90	120	134.44	160	78.16	43.6	32.5	
SBY8-4020 SBY8-2040	m8	40	BT	35	180	320	324.69	130	75.36	54.69	25	
		20	B3	30	120	160	179.25	210	98	54.81	40	

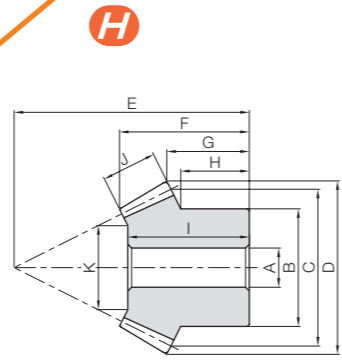
\* Please see Page 364 for Caution on Product Characteristics and Caution on Secondary Operations.

Catalog Number	L (mm)	Tap Size
SBY8-4020	160	M10 deep 20

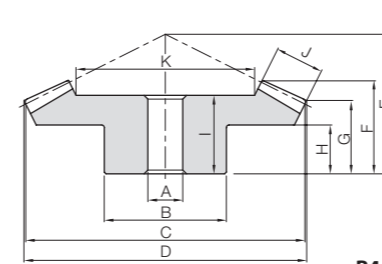
Hole length	Face width	Holding surface dia.	Allowable torque						Backlash (mm)	Weight (kg)	Catalog Number
			Bending strength		Surface durability		Surface durability H				
I	J	K	N·m	kgf·m	N·m	kgf·m	N·m	kgf·m			
16	9	27.37	5.82	0.59	0.65	0.07	2.78	0.28	0.05~0.15	0.12	SB1.5-3020 SB1.5-2030
17		17.05	4.04	0.41	0.44	0.04	1.86	0.19			
23	11	37.56	13.1	1.33	1.52	0.16	6.37	0.65	0.06~0.16	0.26	SB2-3020 SB2-2030
22		21.34	9.07	0.92	1.01	0.10	4.25	0.43			
30	15	45.61	26.9	2.75	3.21	0.33	13.3	1.36	0.07~0.17	0.55	SB2.5-3020 SB2.5-2030
28		27.42	18.7	1.91	2.14	0.22	8.86	0.90			
31	17	57.14	44.9	4.58	5.45	0.56	22.4	2.29	0.08~0.18	0.83	SB3-3020 SB3-2030
37		34.71	31.2	3.18	3.63	0.37	14.9	1.52			
40	20	78.59	98.2	10.0	12.3	1.25	49.8	5.07	0.12~0.27	1.91	SB4-3020 SB4-2030
43		46.89	68.1	6.95	8.20	0.84	33.2	3.38			
50	30	91.22	215	22.0	27.6	2.81	110	11.2	0.14~0.34	4.13	SB5-3020 SB5-2030
56		54.83	150	15.3	18.4	1.87	73.5	7.49			
15	8	28.36	5.02	0.51	0.47	0.05	2.02	0.21	0.05~0.15	0.10	SB1.5-3015 SB1.5-1530
15.5		10.72	2.60	0.26	0.24	0.02	1.01	0.10			
18	11	37.4	12.1	1.24	1.18	0.12	4.96	0.51	0.06~0.16	0.21	SB2-3015 SB2-1530
19		16.81	6.28	0.64	0.59	0.06	2.48	0.25			
24	15	44.21	24.9	2.54	2.48	0.25	10.3	1.05	0.07~0.17	0.41	SB2.5-3015 SB2.5-1530
29		16.42	12.9	1.32	1.24	0.13	5.16	0.53			
30	20	47.78	45.6	4.65	4.60	0.47	19.1	1.94	0.08~0.18	0.83	SB3-3015 SB3-1530
41		19.56	23.6	2.41	2.30	0.23	9.53	0.97			
36	25	70.1	104	10.7	10.9	1.11	44.4	4.53	0.12~0.27	1.64	SB4-3015 SB4-1530
46		32.2	54.0	5.51	5.43	0.55	22.2	2.26			
48	30	90.41	199	20.3	21.3	2.17	85.7	8.74	0.14~0.34	2.72	SB5-3015 SB5-1530
58		32.83	103	10.5	10.6	1.09	42.9	4.37			
57	35	109.74	336	34.2	36.9	3.77	147	15.0	0.16~0.36	4.75	SB6-3015 SB6-1530
63		45.47	174	17.7	18.5	1.88	73.5	7.50			
24	16	57.72	35.9	3.66	4.08	0.42	16.8	1.72	0.07~0.17	0.72	SB2.5-3618 SB2.5-1836
32		25.44	18.1	1.84	2.04	0.21	8.42	0.86			
30	20	68.28	63.7	6.49	7.34	0.75	30.1	3.07	0.08~0.18	1.15	SB3-3618 SB3-1836
37		28.56	32.0	3.27	3.67	0.37	15.1	1.54			
42	26	91.86	149	15.2	17.7	1.80	71.3	7.27	0.12~0.27	2.66	SB4-3618 SB4-1836
49		39.72	74.8	7.62	8.85	0.90	35.7	3.64			
12	6	26.58	2.61	0.27	0.29	0.03	1.26	0.13	0.03~0.13	0.068	SB1-4020 SB1-2040
12		9.17	1.32	0.13	0.15	0.02	0.63	0.065			
16	8	33.61	5.33	0.54	0.61	0.06	2.61	0.27	0.04~0.14	0.14	SB1.25-4020 SB1.25-2040
17		13.22	2.69	0.27	0.31	0.03	1.30	0.13			
22	10	39.64	9.47	0.97	1.11	0.11	4.68	0.48	0.05~0.15	0.27	SB1.5-4020 SB1.5-2040
24		17.28	4.77	0.49	0.56	0.06	2.34	0.24			
27	15	48.46	24.2	2.46	2.92	0.30	12.1	1.24	0.06~0.16	0.51	SB2-4020 SB2-2040
32		20.92	12.2	1.24	1.46	0.15	6.06	0.62			
35	20	60.28	49.0	4.99	6.04						



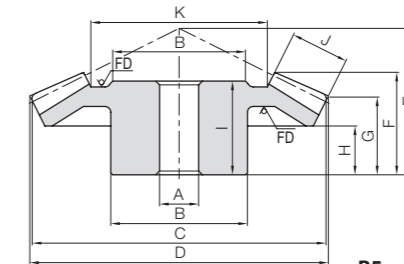
Specifications	
Precision grade	JIS B 1704: 1978 grade 3
Gear teeth	Gleason
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating



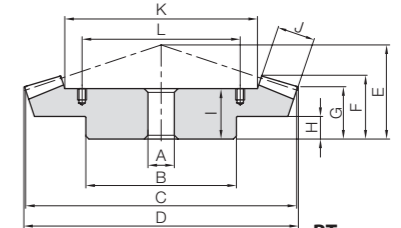
B3



B4



B5



BT

\* FD has a forged finish surface.

**H** To order Hardened Plus, please specify **Catalog No. + H**. Example: **SB1-4518H**

Catalog Number	Gear Ratio	Module	No. of teeth	Shape	Bore		Pitch dia.	Outside dia.	Mounting distance	Total length	Crown to back	Hub width
					A <sub>H7</sub>	B						
<b>SB1-4518</b> <b>SB1-1845</b>	2.5	m1	45	B4	8	30	45	45.46	23	16.95	14.57	10
18			B3	6	15	18	20.57	32	16.34	10.02	8.9	
<b>SB1.5-4518</b> <b>SB1.5-1845</b>		m1.5	45	B4	10	36	67.5	68.18	30	21.1	17.35	10
18			B3	8	23	27	30.86	45	21.97	12.02	10.45	
<b>SB2-4518</b> <b>SB2-1845</b>		m2	45	B4	12	48	90	90.91	40	27.91	23.14	15
18			B3	10	32	36	41.15	60	28.69	16.03	14.2	
<b>SB2.5-4518</b> <b>SB2.5-1845</b>		m2.5	45	B4	15	55	112.5	113.64	50	35.06	28.92	18
18			B3	12	40	45	51.44	72	33.31	17.04	14.75	
<b>SB3-4518</b> <b>SB3-1845</b>		m3	45	B4	20	65	135	136.37	60	41.86	34.71	22
18			B3	16	48	54	61.72	85	38.04	19.05	16.3	
<b>SB4-4518</b> <b>SB4-1845</b>	m4	45	B4	20	80	180	181.82	75	51.16	41.28	24	
18		B3	20	62	72	82.3	110	48.28	22.06	18		
<b>SB5-4518</b> <b>SB5-1845</b>	m5	45	B4	25	100	225	227.28	90	59.43	47.85	28	
18		B3	20	80	90	102.87	135	55.82	25.07	20.5		
<b>SB1-4515</b> <b>SB1-1545</b>	3	m1	45	B4	8	30	45	45.37	17	11.77	10.06	5
15			B3	6	12	15	17.67	29	12.51	6.95	6	
<b>SB1.25-4515</b> <b>SB1.25-1545</b>		m1.25	45	B4	10	34	56.25	56.72	21	14.61	12.33	6
15			B3	8	15	18.75	22.09	36	15.85	8.43	7.25	
<b>SB1.5-4515</b> <b>SB1.5-1545</b>		m1.5	45	B4	10	36	67.5	68.06	28	20.44	17.59	11
15			B3	8	18	22.5	26.54	47	23.19	13.92	12.5	
<b>SB2-4515</b> <b>SB2-1545</b>		m2	45	B4	12	40	90	90.75	40	30.4	26.12	17
15			B3	10	24	30	35.35	60	29.8	15.89	14	
<b>SB2.5-4515</b> <b>SB2.5-1545</b>		m2.5	45	B4	15	50	112.5	113.43	50	38.35	32.65	22
15			B3	12	30	37.5	44.18	75	38.41	19.86	17.5	
<b>SB3-4515</b> <b>SB3-1545</b>	m3	45	B4	20	60	135	136.12	55	40.74	34.18	20	
15		B3	15	38	45	53.02	90	45.17	23.84	21.33		
<b>SB4-4515</b> <b>SB4-1545</b>	m4	45	B5	20	80	180	181.5	70	50.79	42.24	24	
15		B3	16	50	60	70.69	115	54.6	26.78	23.33		
<b>SB5-4515</b> <b>SB5-1545</b>	m5	45	B5	25	90	225	226.87	75	50.28	40.3	20	
15		B3	20	60	75	88.37	145	67.19	34.73	30		
<b>SB6-4515</b> <b>SB6-1545</b>	m6	45	BT	30	160	270	272.24	100	72.62	58.36	30	
15		B3	25	70	90	106.03	175	89.04	42.67	36.67		
<b>SBY8-4515</b> <b>SBY8-1545</b>	m8	45	BT	35	200	360	362.99	125	83.74	69.49	30	
15		B3	30	100	120	141.39	230	99.93	53.56	46.67		

[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).

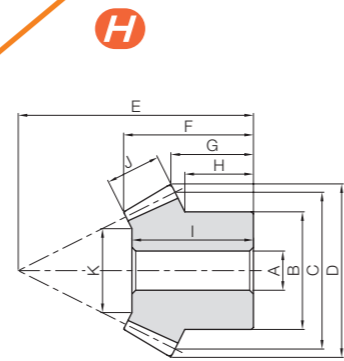
Hole length	Face width	Holding surface dia.	Allowable torque						Backlash (mm)	Weight (kg)	Catalog Number
			Bending strength		Surface durability		Surface durability <b>H</b>				
			N·m	kgf·m	N·m	kgf·m	N·m	kgf·m			
15	7	30.73	3.35	0.34	0.35	0.04	1.52	0.15	0.03~0.13	0.11	<b>SB1-4518</b> <b>SB1-1845</b>
15.5		10.31	1.33	0.14	0.14	0.01	0.61	0.062			
18	11	45	11.7	1.19	1.29	0.13	5.39	0.55	0.05~0.15	0.28	<b>SB1.5-4518</b> <b>SB1.5-1845</b>
21		16.51	4.64	0.47	0.51	0.05	2.16	0.22			
25	14	62.24	26.8	2.74	3.05	0.31	12.6	1.29	0.06~0.16	0.65	<b>SB2-4518</b> <b>SB2-1845</b>
27.5		23.11	10.7	1.09	1.22	0.12	5.05	0.52			
31	18	76.53	53.4	5.44	6.20	0.63	25.4	2.59	0.07~0.17	1.23	<b>SB2.5-4518</b> <b>SB2.5-1845</b>
31.5		26.82	21.2	2.16	2.48	0.25	10.2	1.04			
37	21	92.96	90.5	9.23	10.7	1.09	43.5	4.44	0.08~0.18	2.05	<b>SB3-4518</b> <b>SB3-1845</b>
36		33.41	36.0	3.67	4.29	0.44	17.4	1.78			
45	29	122.33	220	22.4	26.8	2.73	107	10.9	0.12~0.27	4.69	<b>SB4-4518</b> <b>SB4-1845</b>
46		45.83	87.3	8.91	10.7	1.09	42.8	4.37			
51	34	156.56	411	41.9	51.8	5.28	202	20.6	0.14~0.34	8.31	<b>SB5-4518</b> <b>SB5-1845</b>
52.5		56.9	164	16.7	20.7	2.11	81.0	8.26			
9	6	32.02	2.84	0.29	0.27	0.027	1.15	0.12	0.03~0.13	0.078	<b>SB1-4515</b> <b>SB1-1545</b>
12		10.05	0.98	0.10	0.09	0.0091	0.38	0.039			
12	8	39.63	5.80	0.59	0.56	0.057	2.38	0.24	0.04~0.14	0.15	<b>SB1.25-4515</b> <b>SB1.25-1545</b>
15		10.9	2.00	0.20	0.19	0.019	0.79	0.081			
17	10	46.58	10.3	1.05	1.02	0.10	4.27	0.44	0.05~0.15	0.25	<b>SB1.5-4515</b> <b>SB1.5-1545</b>
22.5		14.75	3.56	0.36	0.34	0.035	1.42	0.15			
26	15	59.04	26.4	2.69	2.68	0.27	11.1	1.13	0.06~0.16	0.60	<b>SB2-4515</b> <b>SB2-1545</b>
29		19.13	9.10	0.93	0.89	0.091	3.70	0.38			
35	20	72.84	53.6	5.46	5.55	0.57	22.8	2.33	0.07~0.17	1.22	<b>SB2.5-4515</b> <b>SB2.5-1545</b>
37		20.51	18.5	1.89	1.85	0.19	7.61	0.78			
35	23	88.18	90.2	9.20	9.53	0.97	38.9	3.96	0.08~0.18	1.99	<b>SB3-4515</b> <b>SB3-1545</b>
43		22.53	31.2	3.18	3.18	0.32	13.0	1.32			
45	30	118.09	211	21.5	23.0	2.35	92.1	9.40	0.12~0.27	3.89	<b>SB4-4515</b> <b>SB4-1545</b>
52		32.26	72.8	7.43	7.67	0.78	30.7	3.13			
44	35	152.88	394	40.2	44.3	4.52	174	17.7	0.14~0.34	6.10	<b>SB5-4515</b> <b>SB5-1545</b>
65		48.64	136	13.9	14.8	1.51	58.0	5.91			
62	50	169.26	751	76.6	87.0	8.87	337	34.3	0.16~0.36	18.0	<b>SB6-4515</b> <b>SB6-1545</b>
86		49.77	259	26.4	39.9	4.06	112	11.4			
67	50	255.92	1470	150	179	18.3	674	68.8	0.20~0.45	36.4	<b>SBY8-4515</b> <b>SBY8-1545</b>
93		61.77	506	51.6	59.7	6.09	225	22.9			

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

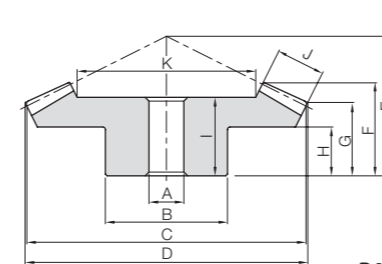
Catalog Number	L (mm)	Tap Size
<b>SB6-4515</b>	130	M10, 20mm deep
<b>SBY8-4515</b>	210	M10, 20mm deep



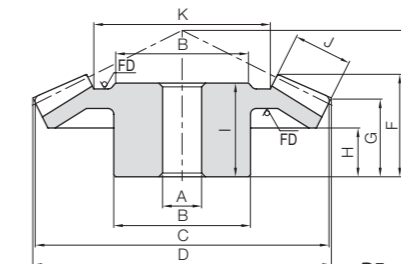
Specifications	
Precision grade	JIS B 1704: 1978 grade 3
Gear teeth	Gleason
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)
Surface treatment	Black oxide coating



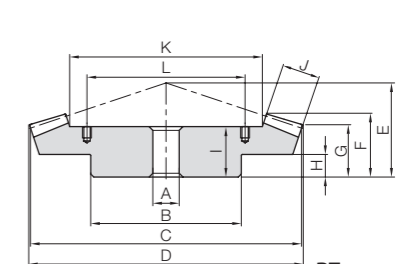
B3



B4



B5



BT

\* FD has a forged finish surface.

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

Catalog Number	Gear Ratio	Module	No. of teeth	Shape	Bore		Pitch dia.	Outside dia.	Mounting distance	Total length	Crown to back	Hub width
					A <sub>H7</sub>	B						
<b>SB1.5-6015</b> <b>SB1.5-1560</b>	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
<b>SB2-6015</b> <b>SB2-1560</b>		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
<b>SB2.5-6015</b> <b>SB2.5-1560</b>		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
<b>SB3-6015</b> <b>SB3-1560</b>		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
<b>SB4-6015</b> <b>SB4-1560</b>		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
<b>SBY5-6015</b> <b>SBY5-1560</b>		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
<b>SBY6-6015</b> <b>SBY6-1560</b>	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 <sup>H</sup>				
			N·m	kgf·m	N·m	kgf·m	N·m	kgf·m			
21 22.5	12	65.38 15.54	17.3 4.46	1.77 0.45	1.75 0.44	0.18 0.045	7.28 1.82	0.74 0.19	0.05~0.15	0.62 0.043	<b>SB1.5-6015</b> <b>SB1.5-1560</b>
27 30	16	87.02 18.06	41.3 10.6	4.21 1.08	4.30 1.07	0.44 0.11	17.5 4.38	1.79 0.45	0.06~0.16	1.35 0.10	<b>SB2-6015</b> <b>SB2-1560</b>
34 37.5	20	108.64 20.57	80.2 20.6	8.18 2.10	8.54 2.13	0.87 0.22	34.6 8.66	3.53 0.88	0.07~0.17	2.51 0.21	<b>SB2.5-6015</b> <b>SB2.5-1560</b>
41 43	22	134.4 31.58	130 33.5	13.3 3.42	14.2 3.54	1.44 0.36	56.8 14.2	5.79 1.45	0.08~0.18	4.16 0.36	<b>SB3-6015</b> <b>SB3-1560</b>
53 60	32	174.03 36.12	328 84.5	33.5 8.62	37.0 9.24	3.77 0.94	145 36.2	14.8 3.70	0.12~0.27	6.00 0.91	<b>SB4-6015</b> <b>SB4-1560</b>
45 73	40	218.79 49.15	642 165	65.4 16.8	74.4 18.6	7.59 1.90	286 71.4	29.1 7.28	0.14~0.34	17.5 1.58	<b>SBY5-6015</b> <b>SBY5-1560</b>
56 82	45	267.73 54.92	1050 270	107 27.5	126 31.5	12.8 3.21	475 119	48.4 12.1	0.16~0.36	30.7 2.83	<b>SBY6-6015</b> <b>SBY6-1560</b>

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

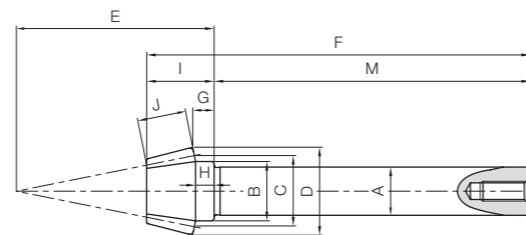
Catalog Number	L (mm)	Tap Size
<b>SBY5-6015</b>	160	M10, 20mm deep
<b>SBY6-6015</b>	220	M10, 20mm deep

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

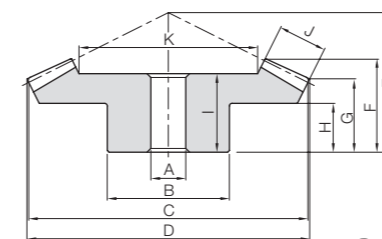


Specifications	
Precision grade	JIS B 1704: 1978 grade 3
Gear teeth	Gleason
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 194HB)*
Surface treatment	Black oxide coating

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



B8



B4

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.		Pitch dia.	Outside dia.	Mounting distance	Total length	Crown to back	Hub width	Length of bore and shaft
					A <sub>H7</sub> (bore)	B							
<b>SB1.5-6012</b> <b>SB1.5-1260</b>	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
<b>SB2-6012</b> <b>SB2-1260</b>		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
<b>SB2.5-6012</b> <b>SB2.5-1260</b>		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
<b>SB3-6012</b> <b>SB3-1260</b>		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 <sup>H</sup>				
				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	<b>SB1.5-6012</b> <b>SB1.5-1260</b>
16	86.96	—	—	42.6	4.34	3.43	0.35	14.1	1.44	0.06~0.16	1.34	<b>SB2-6012</b> <b>SB2-1260</b>
20	108.8	—	—	83.2	8.48	6.85	0.70	27.9	2.84	0.07~0.17	2.54	<b>SB2.5-6012</b> <b>SB2.5-1260</b>
22	134.73	—	—	135	13.8	11.4	1.16	45.7	4.66	0.08~0.18	4.18	<b>SB3-6012</b> <b>SB3-1260</b>