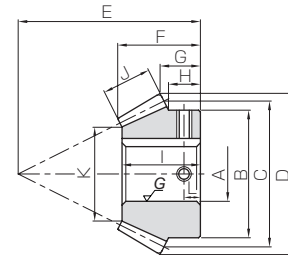
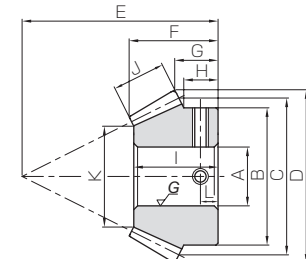




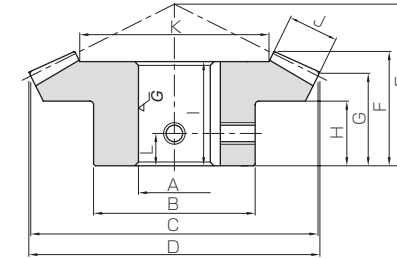
Specifications	
Precision grade	JIS B 1704: 1978 grade 4
Gear teeth	Gleason
Pressure angle	20°
Helix angle	35°
Material	SCM415
Heat treatment	Overall carburizing
Tooth hardness	55 ~ 60HRC



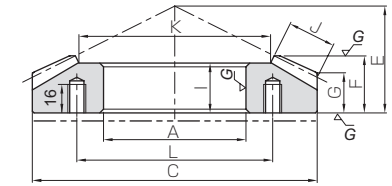
BK



BT



B4



B7

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	Hub width	Length of bore
						AH7	B							
KMBSA2-4518R KMBSB2-4518R KMBSA2-1845L KMBSB2-1845L KMBSA2.5-4518R KMBSB2.5-4518R KMBSA2.5-1845L KMBSB2.5-1845L KMBSA3-4518R KMBSB3-4518R KMBSA3-1845L KMBSB3-1845L KMBSA4-4518R KMBSA4-1845L KMBSB4-1845L KMBSA5-4518R KMBSA5-1845L KMBSB5-1845L KMBSA6-4518R KMBSA6-1845L KMBSB6-1845L	2.5	m2	45	R	B4	20	48	90	90.79	40	27.67	22.98	15	25
						25	32							
		m2	18	L	BK	12	32	36	40.42	60	28.54	15.88	14.2	27.5
						16								
		m2.5	45	R	B4	25	55	112.5	113.49	50	34.94	28.74	19	31
						30								
		m2.5	18	L	BK	15	40	45	50.35	72	33.19	16.82	14.75	31.5
						20								
		m3	45	R	B4	30	65	135	136.24	60	41.65	34.55	22	37
						35								
		m3	18	L	BK	20	48	54	60.69	85	37.82	18.84	16.3	36
						25								
m4	45	R	B7	80	—	180	—	55	29.77	21.25	—	25		
m4	18	L	BK	28	63	72	80.86	110	48.03	21.77	18.2	46		
				32										
m5	45	R	B7	100	—	225	—	65	33.37	22.82	—	28		
m5	18	L	BK	35	80	90	101.07	135	57.3	24.71	20.5	54.5		
				42										
m6	45	R	B7	110	—	270	—	75	36.97	24.19	—	30		
m6	18	L	BK	45	95	108	120.55	160	66.73	27.51	22.4	63		
				50										
KMBSA2-4515R KMBSB2-4515R KMBSA2-1545L KMBSB2-1545L KMBSA2.5-4515R KMBSB2.5-4515R KMBSA2.5-1545L KMBSB2.5-1545L KMBSA3-4515R KMBSB3-4515R KMBSA3-1545L KMBSB3-1545L KMBSA4-4515R KMBSA4-1545L KMBSB4-1545L KMBSA5-4515R KMBSA5-1545L KMBSB5-1545L KMBSA6-4515R KMBSA6-1545L KMBSB6-1545L	3	m2	45	R	B4	20	48	90	90.66	40	30.01	25.99	18	27
						22								
		m2	15	L	BT BK	10	26	30	34.59	55	23.78	10.77	9.33	22.5
						12								
		m2.5	45	R	B4	22	55	112.5	113.28	45	32.43	27.42	18	28
						25								
		m2.5	15	L	BK	12	32	37.5	43.06	70	30.51	14.68	12.84	29
						15								
		m3	45	R	B4	30	65	135	136.03	55	39.94	34.05	22	35
						32								
		m3	15	L	BK	18	38	45	52	85	38.12	18.67	16.33	36.5
						20								
m4	45	R	B7	80	—	180	—	50	28.85	22.14	—	25		
m4	15	L	BK	22	52	60	69.24	110	47.51	21.54	18.67	45.5		
				25										
m5	45	R	B7	90	—	225	—	60	33.57	25.16	—	28		
m5	15	L	BK	28	65	75	86.55	135	56.89	24.43	20.83	54		
				32										
m6	45	R	B7	110	—	270	—	70	38.28	28.05	—	32		
m6	15	L	BK	35	78	90	103.13	160	66.39	27.19	23	63		
				40										

Face width	Holding surface dia.	Keyway	Set Screw	Allowable torque (N-m)		Allowable torque (kgf-m)		Backlash (mm)	Weight (kg)	Catalog No.
				Bending strength	Surface durability	Bending strength	Surface durability			
J	K	WidthxDepth	Size	L						
14	62.24	6 x 2.8 8 x 3.3	2-M5 2-M6	8	69.3	74.3	7.06	7.58	0.06~0.16	0.60 0.56
14	23.11	4 x 1.8 5 x 2.3	2-M4 2-M4	7	27.2	29.7	2.77	3.03		0.14 0.12
18	76.53	8 x 3.3 8 x 3.3	2-M6 2-M6	10	138	150	14.1	15.3	0.07~0.17	1.09 1.04
18	26.82	5 x 2.3 6 x 2.8	2-M4 2-M5	8	54.1	59.9	5.52	6.11		0.26 0.22
21	92.96	8 x 3.3 10 x 3.3	2-M6 2-M8	11	234	256	23.8	26.1	0.08~0.18	1.92 1.84
21	33.41	6 x 2.8 8 x 3.3	2-M5 2-M6	9	91.8	103	9.36	10.5		0.41 0.36
29	122.33	—	6-M10	110	567	630	57.8	64.3	0.12~0.27	3.92
29	45.83	8 x 3.3 10 x 3.3	2-M6 2-M8	10	223	252	22.7	25.7		0.89 0.82
36	153.85	—	6-M10	130	1100	1240	112	126	0.14~0.34	6.82
36	56.13	10 x 3.3 12 x 3.3	2-M8 2-M8	11	433	495	44.2	50.5		1.68 1.50
43	184.57	—	6-M10	140	1860	2150	190	219	0.16~0.36	11.1
43	66.44	14 x 3.8 14 x 3.8	2-M10 2-M10	12	731	859	74.6	87.6		2.66 2.48
14	61.82	6 x 2.8 6 x 2.8	2-M5 2-M5	9	67.8	61.3	6.91	6.25	0.06~0.16	0.61 0.60
14	16.46	—	2-M4 2-M4	5	21.7	20.4	2.22	2.08		0.081 0.073
17	77.83	6 x 2.8 8 x 3.3	2-M5 2-M6	9	130	119	13.3	12.1	0.07~0.17	1.01 0.98
17	21.48	4 x 1.8 5 x 2.3	2-M4 2-M4	7	41.6	39.6	4.24	4.04		0.16 0.15
21	92.39	8 x 3.3 10 x 3.3	2-M6 2-M8	11	229	211	23.3	21.6	0.08~0.18	1.78 1.75
21	26.18	6 x 2.8 6 x 2.8	2-M5 2-M5	9	73.3	70.5	7.48	7.18		0.26 0.24
28	124.3	—	6-M10	110	542	508	55.3	51.8	0.12~0.27	3.93
28	35.91	6 x 2.8 8 x 3.3	2-M5 2-M6	10	174	169	17.7	17.3		0.63 0.58
35	154.88	—	6-M10	120	1060	1000	108	102	0.14~0.34	7.38
35	42.64	8 x 3.3 10 x 3.3	2-M6 2-M8	11	339	334	34.6	34.1		1.16 1.07
42	186.12	—	6-M10	140	1790	1740	183	178	0.16~0.36	12.0
42	52.37	10 x 3.3 12 x 3.3	2-M8 2-M8	12	575	581	58.6	59.3		1.90 1.75

- [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.
  - These gears produce axial thrust forces. See Page 304 for more details.
  - Although the dimensions of the keyway are made to the JIS (Js9) tolerance, there may be some deviations due to the effects of heat treatment.
  - For products having a tapped hole (Except for B7-shaped products), a set screw is attached as an accessory.

- [Caution on Secondary Operations]
- These products which are hardened by carburizing allow no secondary machining. However, for B7 type gears, the area surrounded with - - - - line (in the illustration) is masked during the carburization process and can be modified. Care should be exercised since the hardness is high (approx. HRC40, maximum).

When installing B7 type (ring type) Spiral Bevel Gears to the base, always secure the gears onto the mounting base with taper pins to absorb the rotational loads. Fastening and securing with only mounting screws could possibly cause the screws to snap due to heavy loads.

