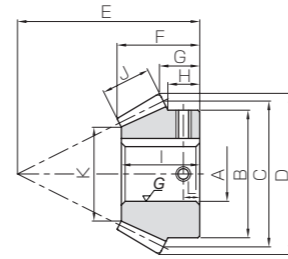
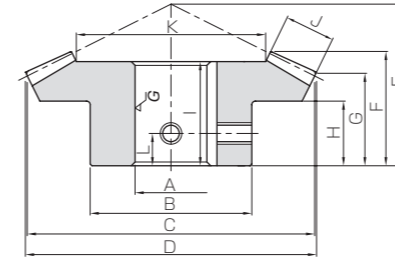




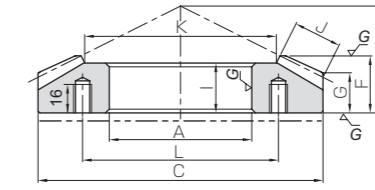
Specifications	
Precision grade	JIS B 1704: 1978 grade 4
Gear teeth	Gleason
Pressure angle	20°
Helix angle	35°
Material	SCM415
Heat treatment	Overall carburizing
Tooth hardness	55 ~ 60HRC



BK



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							
KMBSA2-3020R KMBSB2-3020R	1.5	m2	30	R	B4	20	40	60	61.36	40	26.8	21.02	14	23
						22								
KMBSA2-2030L KMBSB2-2030L	1.5	m2	20	L	BK	15	35	40	43.49	45	24.96	16.16	13.33	23
						18								
KMBSA2.5-3020R KMBSB2.5-3020R	1.5	m2.5	30	R	B4	22	48	75	76.74	50	33.6	26.31	18	30
						25								
KMBSA2.5-2030L KMBSB2.5-2030L	1.5	m2.5	20	L	BK	18	43	50	54.43	55	30.08	18.98	15.17	28
						20								
KMBSA3-3020R KMBSB3-3020R	1.5	m3	30	R	B4	25	60	90	92.21	60	40.34	31.66	21	36
						30								
KMBSA3-2030L KMBSB3-2030L	1.5	m3	20	L	BK	22	53	60	65.58	65	35.17	21.86	17.67	32.5
						25								
KMBSA4-3020R KMBSB4-3020R	1.5	m4	30	R	B4	35	75	120	122.91	70	43.99	32.18	21	39
						40								
KMBSA4-2030L KMBSB4-2030L	1.5	m4	20	L	BK	30	70	80	87.34	85	45.53	27.45	21.67	42
						35								
KMBSA5-3020R KMBSA5-2030L KMBSB5-2030L	1.5	m5	30	R	B7	80	—	150	—	70	35.53	23.8	—	31
						40								
KMBSA6-3020R KMBSA6-2030L KMBSB6-2030L	1.5	m6	30	R	B7	90	—	180	—	80	38.86	24.37	—	33
						50								
KMBSA2-4020R KMBSB2-4020R	2	m2	40	R	B4	20	45	80	81.06	45	31.83	26.06	18	29
						22								
KMBSA2-2040L KMBSB2-2040L	2	m2	20	L	BK	15	35	40	44.2	55	28.16	16.05	13.75	27
						18								
KMBSA2.5-4020R KMBSB2.5-4020R	2	m2.5	40	R	B4	25	55	100	101.29	50	33.35	26.29	16	30
						28								
KMBSA2.5-2040L KMBSB2.5-2040L	2	m2.5	20	L	BK	20	43	50	55.12	65	31.01	16.28	13.25	29
						22								
KMBSA3-4020R KMBSB3-4020R	2	m3	40	R	B4	30	65	120	121.57	60	39.81	31.57	21	35
						35								
KMBSA3-2040L KMBSB3-2040L	2	m3	20	L	BK	22	53	60	66.03	80	38.9	21.51	18.25	36.5
						25								
KMBSA4-4020R KMBSA4-2040L KMBSB4-2040L	2	m4	40	R	B7	80	—	160	—	60	32.08	22.53	—	28
						30								
KMBSA5-4020R KMBSA5-2040L KMBSB5-2040L	2	m5	40	R	B7	90	—	200	—	70	35.2	22.98	—	30
						40								
KMBSA6-4020R KMBSA6-2040L KMBSB6-2040L	2	m6	40	R	B7	110	—	240	—	80	37.89	23.62	—	32
						50								
KMBSA6-2040L KMBSB6-2040L	2	m6	20	L	BK	50	105	120	132.04	150	67.8	33.01	26.25	64
						55								

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	Bending strength	Surface durability	Bending strength	Surface durability		
11	37.56	6 x 2.8 6 x 2.8	2-M5 2-M5	7	34.4	38.4	3.51	3.91	0.06~0.16	KMBSA2-3020R KMBSB2-3020R
11	24.34	5 x 2.3 6 x 2.8	2-M4 2-M5	6.5	23.5	25.6	2.39	2.61	0.14 0.13	KMBSA2-2030L KMBSB2-2030L
14	48.01	6 x 2.8 8 x 3.3	2-M5 2-M6	9	68.0	76.8	6.93	7.84	0.52 0.49	KMBSA2.5-3020R KMBSB2.5-3020R
14	31.02	6 x 2.8 6 x 2.8	2-M5 2-M5	7.5	46.4	51.2	4.73	5.22	0.26 0.25	KMBSA2.5-2030L KMBSB2.5-2030L
17	57.14	8 x 3.3 8 x 3.3	2-M6 2-M6	11	118	135	12.1	13.8	0.96 0.90	KMBSA3-3020R KMBSB3-3020R
17	36.2	6 x 2.8 8 x 3.3	2-M5 2-M6	9	80.7	90.1	8.23	9.19	0.46 0.43	KMBSA3-2030L KMBSB3-2030L
23	76.72	10 x 3.3 12 x 3.3	2-M8 2-M8	10	283	328	28.9	33.5	1.77 1.68	KMBSA4-3020R KMBSB4-3020R
23	48.07	8 x 3.3 10 x 3.3	2-M6 2-M8	11	193	219	19.7	22.3	1.03 0.95	KMBSA4-2030L KMBSB4-2030L
28	97.36	—	6-M10	110	544	637	55.4	64.9	2.80	KMBSA5-3020R
28	62.04	10 x 3.3 12 x 3.3	2-M8 2-M8	13	371	425	37.8	43.3	2.01 1.89	KMBSA5-2030L KMBSB5-2030L
34	115.61	—	6-M10	120	927	1120	94.6	114	4.55	KMBSA6-3020R
34	72.41	14 x 3.8 14 x 3.8	2-M10 2-M10	15	633	745	64.5	76.0	3.56 3.38	KMBSA6-2030L KMBSB6-2030L
14	52.7	6 x 2.8 6 x 2.8	2-M5 2-M5	9	59.6	69.6	6.08	7.09	0.53 0.51	KMBSA2-4020R KMBSB2-4020R
14	25.39	5 x 2.3 6 x 2.8	2-M4 2-M5	7	29.9	34.8	3.05	3.55	0.16 0.14	KMBSA2-2040L KMBSB2-2040L
17	66.99	8 x 3.3 8 x 3.3	2-M6 2-M6	8	114	135	11.7	13.8	0.93 0.90	KMBSA2.5-4020R KMBSB2.5-4020R
17	29.97	6 x 2.8 6 x 2.8	2-M5 2-M5	7	57.3	67.6	5.84	6.89	0.26 0.25	KMBSA2.5-2040L KMBSB2.5-2040L
20	80.28	8 x 3.3 10 x 3.3	2-M6 2-M8	11	195	233	19.9	23.7	1.47 1.40	KMBSA3-4020R KMBSB3-4020R
20	36.56	6 x 2.8 8 x 3.3	2-M5 2-M6	9.5	97.7	116	9.97	11.9	0.51 0.48	KMBSA3-2040L KMBSB3-2040L
27	107.63	—	6-M10	110	466	564	47.5	57.5	3.11	KMBSA4-4020R
27	51.25	8 x 3.3 10 x 3.3	2-M6 2-M8	9	234	282	23.8	28.8	1.05 0.96	KMBSA4-2040L KMBSB4-2040L
34	133.97	—	6-M10	120	915	1120	93.3	114	5.59	KMBSA5-4020R
34	61.95	12 x 3.3 14 x 3.8	2-M8 2-M10	11	458	559	46.7	57.0	1.96 1.82	KMBSA5-2040L KMBSB5-2040L
40	162.56	—	6-M10	140	1530	1920	156	196	8.48	KMBSA6-4020R
40	77.11	14 x 3.8 16 x 4.3	2-M10 2-M10	14	766	961	78.1	97.9	3.33 3.11	KMBSA6-2040L KMBSB6-2040L

- [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.

