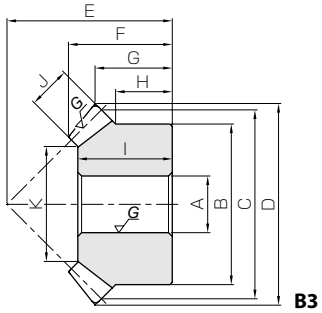
Specifications	
Precision grade	JIS B 1704 grade 2
Gear teeth	Gleason
Pressure angle	20°
Helix angle	35°
Material	S45C
Heat treatment	Teeth induction hardened
Tooth hardness	45 ～ 55HRC



B3

Catalog No.	Gear ratio	Module	No. of teeth	Direction of spiral	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Mounting distance	Total length	Crown to back length
						A_{H7}	B	C	D	E	F	G
SMSG2-20R **SMSG2-20L**	1	***m*2**	20	R L	B3	12	34	40	42.4	37	24.75	18.2
SMSG2.5-20R **SMSG2.5-20L**		***m*2.5**	20	R L	B3	14	42	50	52.94	48	32.42	24.47
SMSG3-20R **SMSG3-20L**		***m*3**	20	R L	B3	16	50	60	63.72	58	39.6	29.86
SMSG3.5-20R **SMSG3.5-20L**		***m*3.5**	20	R L	B3	20	60	70	74.47	65	43.81	32.23
SMSG4-20R **SMSG4-20L**		***m*4**	20	R L	B3	20	64	80	84.88	75	50.51	37.44
SMSG5-20R **SMSG5-20L**		***m*5**	20	R L	B3	25	80	100	105.9	90	60.16	42.95
SMSG2-25R **SMSG2-25L**	1	***m*2**	25	R L	B3	12	40	50	52.4	40	24.19	16.2
SMSG2.5-25R **SMSG2.5-25L**		***m*2.5**	25	R L	B3	16	50	62.5	65.54	50	30.24	20.27
SMSG3-25R **SMSG3-25L**		***m*3**	25	R L	B3	20	60	75	78.77	60	37.57	24.39
SMSG3.5-25R **SMSG3.5-25L**		***m*3.5**	25	R L	B3	25	70	87.5	91.81	70	42.98	28.41
SMSG4-25R **SMSG4-25L**		***m*4**	25	R L	B3	28	80	100	104.7	80	49.14	32.35
SMSG5-25R **SMSG5-25L**		***m*5**	25	R L	B3	28	100	125	130.86	100	60.59	40.43
SMSG2-30R **SMSG2-30L**	1	***m*2**	30	R L	B3	12	45	60	62.42	50	29.27	21.21
SMSG2.5-30R **SMSG2.5-30L**		***m*2.5**	30	R L	B3	16	60	75	78.04	62	36.08	26.02
SMSG3-30R **SMSG3-30L**		***m*3**	30	R L	B3	20	70	90	93.61	75	45.25	31.8
SMSG3.5-30R **SMSG3.5-30L**		***m*3.5**	30	R L	B3	25	90	105	109.21	85	49.4	34.6
SMSG4-30R **SMSG4-30L**		***m*4**	30	R L	B3	28	100	120	124.71	95	54.28	37.35

[Caution on Product Characteristics]
① A sets of miter gears must be identical in module and number of teeth, but opposite in spiral hands.
② The allowable torques shown in the table are the calculated values according to the assumed usage conditions. Please see page 421 for more details.
③ 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.
④ These gears produce axial thrust forces. See page 422 for more details.

Ground Spiral Miter Gears

Hub width	Length of bore	Face width	Holding surface dia.	Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash	Weight	Catalog No.
H	I	J	K	Bending strength	Surface durability	Bending strength	Surface durability	(mm)	(kg)	
14	22	10	21.72	7.83	6.79	0.80	0.69	0.05~0.11	0.15	**SMSG2-20R SMSG2-20L**
19	29	12	28.06	14.9	13.2	1.52	1.35	0.06~0.12	0.30	**SMSG2.5-20R SMSG2.5-20L**
23	35	15	31.57	26.4	23.7	2.69	2.42	0.07~0.13	0.52	**SMSG3-20R SMSG3-20L**
25	40	18	39.09	42.6	v38.8	4.35	3.96	0.08~0.14	0.82	**SMSG3.5-20R SMSG3.5-20L**
27	45	20	43.43	62.6	57.8	6.39	5.90	0.10~0.16	1.15	**SMSG4-20R SMSG4-20L**
30	54	26	54.46	115	109	11.8	11.1	0.12~0.18	2.13	**SMSG5-20R SMSG5-20L**
10	20	12	26.06	12.6	13.5	1.28	1.37	0.05~0.11	0.21	**SMSG2-25R SMSG2-25L**
12.5	26	15	34.57	24.5	26.8	2.50	2.74	0.06~0.12	0.42	**SMSG2.5-25R SMSG2.5-25L**
15	32	20	37.43	45.0	50.0	4.59	5.10	0.07~0.13	0.74	**SMSG3-25R SMSG3-25L**
17.5	37	22	46.77	69.2	78.1	7.05	7.97	0.08~0.14	1.14	**SMSG3.5-25R SMSG3.5-25L**
20	43	25	55.29	95.0	109	9.68	11.1	0.10~0.16	1.71	**SMSG4-25R SMSG4-25L**
25	50	30	65.15	181	213	18.5	21.7	0.12~0.18	3.39	**SMSG5-25R SMSG5-25L**
12.5	25	12	36.06	16.7	21.4	1.70	2.18	0.05~0.11	0.37	**SMSG2-30R SMSG2-30L**
17	32	15	47.57	32.6	42.7	3.32	4.36	0.06~0.12	0.76	**SMSG2.5-30R SMSG2.5-30L**
20	40	20	53.43	60.3	80.4	6.15	8.20	0.07~0.13	1.32	**SMSG3-30R SMSG3-30L**
25	45	22	67.77	85.1	115	8.68	11.8	0.08~0.14	2.19	**SMSG3.5-30R SMSG3.5-30L**
25	50	25	79.29	127	174	12.9	17.8	0.10~0.16	3.07	**SMSG4-30R SMSG4-30L**

[Caution on Secondary Operations]

① Please read "Caution on Performing Secondary Operations" (Page 422) when performing modification and/or secondary operations for safety concerns. Haguruma Kobo, 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. 1 to 2 mm).