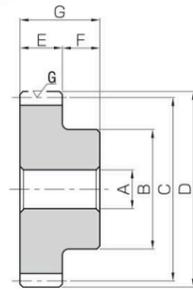




Specifications	
Precision grade	JIS grade N6 (JIS B1702-1:1998)
Gear teeth	Standard full depth
Pressure angle	20°
Material	SCM440
Heat Treatment	Thermal refined, gear teeth induction hardened
Tooth hardness	50 to 60HRC
Surface treatment	Black oxide coated except for teeth



S1

Recommended mating rack



KRGF-H/KRGFD-H
Hardened Ground Racks

Please see Page 200 for more details.

Catalog Number	Module	No. of teeth	Shape	Bore		Hub dia.		Pitch dia.		Outside dia.		Face width		Hub width		Total Length
				A _{H7}	B	C	D	E	F	G						
KSG1-20 KSG1-25 KSG1-30 KSG1-32 KSG1-36 KSG1-40	m1	20	S1	6	15	20	22	10	10	20						
25		8		20	25	27										
30		8		25	30	32										
32		10		25	32	34										
36		10		30	36	38										
40		10		35	40	42										
KSG1.5-20 KSG1.5-25 KSG1.5-30 KSG1.5-32 KSG1.5-36 KSG1.5-40	m1.5	20	S1	10	24	30	33	15	14	29						
25		10		30	37.5	40.5										
30		15		35	45	48										
32		15		40	48	51										
36		15		45	54	57										
40		15		50	60	63										
KSG2-20 KSG2-25 KSG2-30 KSG2-32 KSG2-36 KSG2-40	m2	20	S1	15	30	40	44	20	16	36						
25		15		40	50	54										
30		15		50	60	64										
32		18		55	64	68										
36		18		65	72	76										
40		18		70	80	84										
KSG2.5-20 KSG2.5-25 KSG2.5-30 KSG2.5-32 KSG2.5-36 KSG2.5-40	m2.5	20	S1	15	40	50	55	25	18	43						
25		20		50	62.5	67.5										
30		20		65	75	80										
32		20		70	80	85										
36		20		80	90	95										
40		20		90	100	105										
KSG3-20 KSG3-25 KSG3-30 KSG3-32 KSG3-36 KSG3-40	m3	20	S1	15	50	60	66	30	20	50						
25		20		65	75	81										
30		20		80	90	96										
32		25		85	96	102										
36		25		90	108	114										
40		25		110	120	126										

[Caution on Product Characteristics] ① The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see Page 24 for more details.
② The backlash values shown in the table are the theoretical values for the backlash in the normal direction of a pair of identical gears in mesh.

Allowable torque (N·m)		Allowable torque (kgf·m)		Backlash (mm)	Weight (kg)	Catalog Number
Bending strength	Surface durability	Bending strength	Surface durability			
10.3	5.48	1.05	0.56	0.08~0.16	0.034	KSG1-20
13.9	9.16	1.42	0.93		0.055	KSG1-25
17.6	14.0	1.80	1.43		0.086	KSG1-30
19.1	16.2	1.95	1.66		0.089	KSG1-32
22.1	21.3	2.25	2.17		0.12	KSG1-36
25.1	27.0	2.56	2.75		0.16	KSG1-40
34.8	18.5	3.55	1.89	0.08~0.16	0.12	KSG1.5-20
47.0	31.0	4.80	3.16		0.19	KSG1.5-25
59.5	47.4	6.06	4.83		0.25	KSG1.5-30
64.5	55.0	6.57	5.60		0.31	KSG1.5-32
74.6	71.9	7.60	7.34		0.40	KSG1.5-36
84.7	91.3	8.64	9.31		0.51	KSG1.5-40
82.6	44.0	8.42	4.48	0.10~0.20	0.24	KSG2-20
111	73.5	11.4	7.50		0.42	KSG2-25
141	112	14.4	11.5		0.64	KSG2-30
153	131	15.6	13.3		0.73	KSG2-32
177	171	18.0	17.4		0.98	KSG2-36
201	217	20.5	22.1		1.20	KSG2-40
161	86.0	16.5	8.77	0.10~0.20	0.50	KSG2.5-20
218	144	22.2	14.7		0.77	KSG2.5-25
275	220	28.1	22.4		1.23	KSG2.5-30
298	255	30.4	26.0		1.42	KSG2.5-32
345	335	35.2	34.1		1.85	KSG2.5-36
392	425	40.0	43.3		2.33	KSG2.5-40
279	149	28.4	15.2	0.10~0.20	0.90	KSG3-20
376	249	38.4	25.4		1.44	KSG3-25
476	381	48.5	38.9		2.16	KSG3-30
516	442	52.6	45.1		2.40	KSG3-32
597	579	60.8	59.1		2.96	KSG3-36
678	736	69.1	75.0		3.96	KSG3-40

[Caution on Secondary Operations] ① Please read "Cautions on Performing Secondary Operations" (Page 26) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK 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).

Spur Gears
Helical Gears
Internal Gears
Racks
CP Racks & Pinions
Miter Gears
Bevel Gears
Screw Gears
Worm Gear Pairs
Bevel Gearboxes
Other Products

Spur Gears
Helical Gears
Internal Gears
Racks
CP Racks & Pinions
Miter Gears
Bevel Gears
Screw Gears
Worm Gear Pairs
Bevel Gearboxes
Other Products