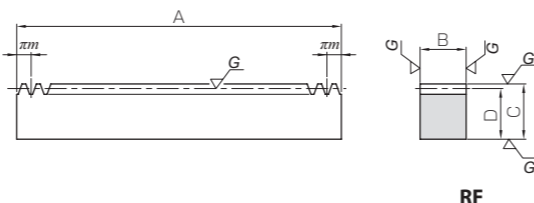


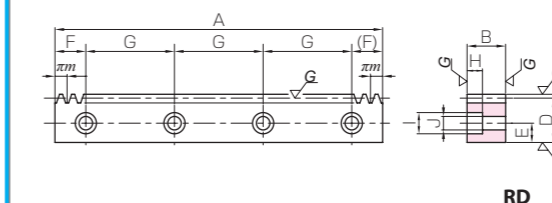
Specifications	
Precision grade	KHK R 001 grade 1 *
Gear teeth	Standard full depth
Pressure angle	20°
Material	SCM440
Heat treatment	Thermal refined, teeth induction hardened
Tooth hardness	50 ~ 60HRC

* The precision grade of J Series products is equivalent to the value shown in the table.



RF

J Series



RD



Ground Racks

Catalog No.	Module	Effective no. of teeth	Shape	Total length				Allowable force (N)		Allowable force (kgf)		Weight (kg)
				A	B	C	D	Bending strength	Surface durability	Bending strength	Surface durability	
KRGF1.5-500H KRGF1.5-1000H	m1.5	106 212	RF	499.51 999.03	15	20	18.5	3450	2110	352	215	1.09 2.18
KRGF2-500H KRGF2-1000H	m2	80 160	RF	502.65 1005.31	20	25	23	6130	3750	625	382	1.82 3.63
KRGF2.5-500H KRGF2.5-1000H	m2.5	64 128	RF	502.65 1005.31	25	30	27.5	9580	5870	977	598	2.71 5.43
KRGF3-500H KRGF3-1000H	m3	53 106	RF	499.51 999.03	30	35	32	13800	8470	1410	863	3.76 7.53

Catalog No.	Module	Effective no. of teeth	Shape	Total length				Mounting hole dimensions			No. of mounting holes	Mounting screw size
				A	B	C	D	E	F	G		
KRGFD1.5-500HJ KRGFD1.5-1000HJ	m1.5	106 212	RD	499.51 999.03	15	20	18.5	8	24.76 49.51	150 180	4 6	M5
KRGFD2-500HJ KRGFD2-1000HJ	m2	80 160	RD	502.65 1005.31	20	25	23	10	26.33 52.65	150 180	4 6	M6
KRGFD2.5-500HJ KRGFD2.5-1000HJ	m2.5	64 128	RD	502.65 1005.31	25	30	27.5	12	26.33 52.65	150 180	4 6	M8
KRGFD3-500HJ KRGFD3-1000HJ	m3	53 106	RD	499.51 999.03	30	35	32	14	24.76 49.51	150 180	4 6	M10

Counterbore dimensions			Allowable force (N)		Allowable force (kgf)		Weight (kg)	Catalog No.
H	I	J	Bending strength	Surface durability	Bending strength	Surface durability		
6	10	6	3450	2110	352	215	1.07 2.14	KRGFD1.5-500HJ KRGFD1.5-1000HJ
7	11	7	6130	3750	625	382	1.78 3.58	KRGFD2-500HJ KRGFD2-1000HJ
8.6	14	9	9580	5870	977	598	2.64 5.31	KRGFD2.5-500HJ KRGFD2.5-1000HJ
10.8	17.5	11	13800	8470	1410	863	3.63 7.32	KRGFD3-500HJ KRGFD3-1000HJ

- [Caution on Product Characteristics]
- The allowable forces shown in the table are the calculated values according to the assumed usage conditions. Please see Page 190 for more details.
 - The backlash of racks differ depending on the size of the mating pinion. Please calculate the backlash from the backlash value of the mating pinion. Also, please refer to the data in the section called 'Backlash of Rack Tooth (Amount of Tooth Thinning)' on Page 193.
- [Caution on Secondary Operations]
- Please read "Caution on Performing Secondary Operations" (Page 194) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.
 - Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2 mm to 3 mm). Please use wire EDM or other carbide tools to modify the length.
- [Caution on J series]
- As available-on-request products, requires a lead-time for shipping within **2 working-days (excludes the day ordered)**, after placing an order. Please allow additional shipping time to get to your local distributor.
 - Number of products we can process for one order is **1 to 20 units**. For quantities of 21 or more pieces, we need to quote price and lead time.

Recommended Mating Pinions



KSG Ground Spur Gears

Please see Page 38 for more details.

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