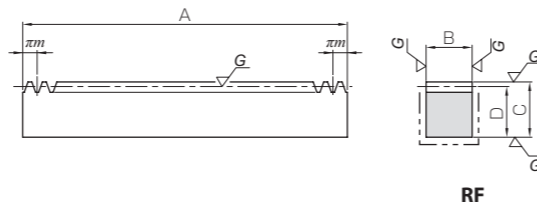
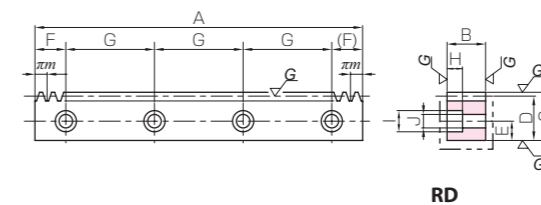


Specifications	
Precision grade	KHK R 001 grade 1 *
Gear teeth	Standard full depth
Pressure angle	20°
Material	SCM415
Heat treatment	Tooth area carburized
Tooth hardness	55 ~ 60HRC

* 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	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	
MRGF1.5-500	m1.5	106	RF	499.51	15	20	18.5	5070	4620	517	472	1.09
MRGF2-500	m2	80		502.65	20	25	23	9010	8240	918	840	1.82
MRGF2.5-500	m2.5	64		502.65	25	30	27.5	14100	12900	1440	1310	2.71
MRGF3-500	m3	53		499.51	30	35	32	20300	18600	2070	1900	3.76

Catalog No.	Module	No. of teeth	Shape	Total length				Mounting hole dimensions			No. of mounting holes	Mounting screw size
				A	B	C	D	E	F	G		
● MRGFD1.5-500J	m 1.5	106	RD	499.51	15	20	18.5	8	24.76	150	4	M5
● MRGFD2-500J	m 2	80		502.65	20	25	23	10	26.33			
● MRGFD2.5-500J	m 2.5	64		502.65	25	30	27.5	12	26.33			
● MRGFD3-500J	m 3	53		499.51	30	35	32	14	24.76			

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	5070	4620	517	472	1.07	● MRGFD1.5-500J
7	11	7	9010	8240	918	840	1.78	● MRGFD2-500J
8.6	14	9	14100	12900	1440	1310	2.64	● MRGFD2.5-500J
10.8	17.5	11	20300	18600	2070	1900	3.63	● MRGFD3-500J

- [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.
 - In the illustration, the area surrounded with - - - line is masked during the carburization process and can be modified. However, the end faces on both sides do not have an anti-carburization coating on the taped holes, otherwise they could not be machined.
- [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.

Surface durability;
4 times higher than the SRG Hardened Ground Racks, **2 times**
 higher than the KRG-H Hardened Ground Racks.

Recommended Mating Pinions



MSGA • MSGB Ground Spur Gears

Please see Page 28 for more details.