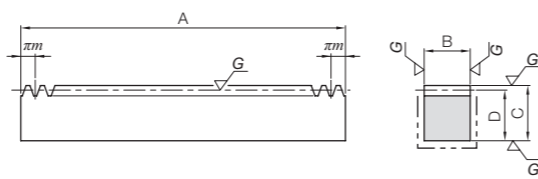


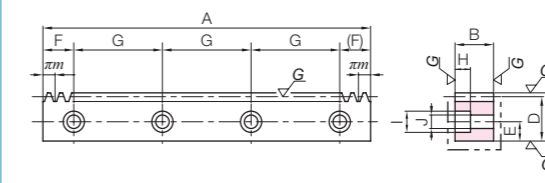


Specifications	
Precision grade	KHK R 001 Grade 1 *
Gear teeth	Standard full depth
Pressure angle	20°
Material	SCM415
Heat treatment	Tooth area carburized
Tooth hardness	55 to 60HRC

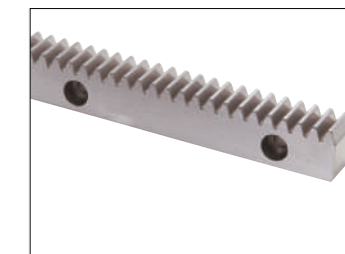
\* The precision grade of J Series products is equivalent to the value shown in the table.



RF



RD



Catalog Number	Module	No. of teeth	Shape	Total Length	Face width	Height	Height to pitch line	Allowable force (N)		Allowable force (kgf)	
				A	B	C	D	Bending strength	Surface durability	Bending strength	Surface durability
<b>MRGF1.5-500</b>	<b>m1.5</b>	106	RF	499.51	15	20	18.5	5070	4620	517	472
<b>MRGF2-500</b>	<b>m2</b>	80		502.65	20	25	23	9010	8240	918	840
<b>MRGF2.5-500</b>	<b>m2.5</b>	64		502.65	25	30	27.5	14100	12900	1440	1310
<b>MRGF3-500</b>	<b>m3</b>	53		499.51	30	35	32	20300	18600	2070	1900

Backlash (mm)	Weight (kg)	Catalog Number
0.04~0.14	1.09	<b>MRGF1.5-500</b>
0.05~0.16	1.82	<b>MRGF2-500</b>
0.05~0.16	2.71	<b>MRGF2.5-500</b>
0.05~0.16	3.76	<b>MRGF3-500</b>

Catalog Number	Module	No. of teeth	Shape	Total Length	Face width	Height	Height to pitch line	Mounting hole dimensions				
				A	B	C	D	E	F	G	No. of holes	Screw size
● <b>MRGFD1.5-500J</b>	<b>m1.5</b>	106	RD	499.51	15	20	18.5	8	24.76	150	4	M5
● <b>MRGFD2-500J</b>	<b>m2</b>	80		502.65	20	25	23	10	26.33			
● <b>MRGFD2.5-500J</b>	<b>m2.5</b>	64		502.65	25	30	27.5	12	26.33			
● <b>MRGFD3-500J</b>	<b>m3</b>	53		499.51	30	35	32	14	24.76			

Counterbore dimensions			Allowable force (N)		Allowable force (kgf)		Backlash (mm)	Weight (kg)	Catalog Number
H	I	J	Bending strength	Surface durability	Bending strength	Surface durability			
6	10	6	5070	4620	517	472	0.04~0.14	1.07	● <b>MRGFD1.5-500J</b>
7	11	7	9010	8240	918	840	0.05~0.16	1.78	● <b>MRGFD2-500J</b>
8.6	14	9	14100	12900	1440	1310	0.05~0.16	2.64	● <b>MRGFD2.5-500J</b>
10.8	17.5	11	20300	18600	2070	1900	0.05~0.16	3.63	● <b>MRGFD3-500J</b>

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

### Recommended Mating Pinions

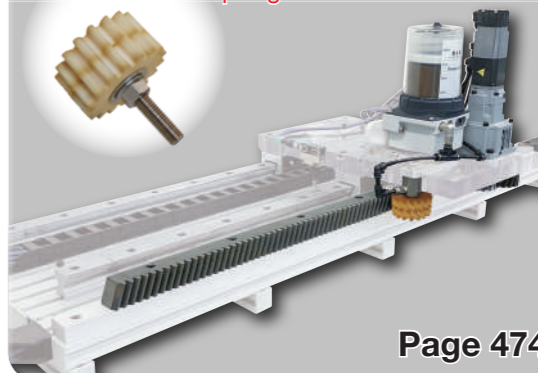


MSGA/MSGB Ground Spur Gears

Please see Page 50 for more details.

### DLS Schmiersysteme Rack & Pinion Lubrication System

PUS lubricated spur gear



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