



R1 Shape (Type F)

Specifications

Precision grade	KHK R 001 grade 3
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C-D
Heat treatment	Tooth surfaces induction hardened
Tooth hardness	50~55HRC <small>NOTE 2</small>
Surface treatment	Black oxide except ground surface
Tooth surface finish	Ground
<small>Datum reference surface for gear grinding</small>	Bottom surface
Secondary Operations	Possible except tooth area <small>NOTE 3</small>

Modules 1.5~4 500 Rack

Catalog No.	Module m	Total length A	Face width B	Height C	Height to pitch line D	Effective No. of teeth	Shape	Allowable force (N) <small>NOTE 1</small>		Allowable force (kgf)		Weight (kgf)
								Bending strength	Surface durability	Bending strength	Surface durability	
SRGF1.5-500	1.5	499.51	15	20	18.5	106	R1	1860	1641	(189.6)	(167.3)	1.1
SRGF2 -500	2	502.65	20	25	23	80	R1	3310	2920	(337)	(297)	1.8
SRGF2.5-500	2.5	502.65	25	30	27.5	64	R1	5170	4560	(527)	(465)	2.7
SRGF3 -500	3	499.51	30	35	32	53	R1	5670	6560	(579)	(669)	3.8
SRGF4 -500	4	502.65	40	45	41	40	R1	13220	11670	(1348)	(1190)	6.3

Modules 1.5~4 1000 Rack

Catalog No.	Module m	Total length A	Face width B	Height C	Height to pitch line D	Effective No. of teeth	Shape	Allowable force (N) <small>NOTE 1</small>		Allowable force (kgf)		Weight (kgf)
								Bending strength	Surface durability	Bending strength	Surface durability	
SRGF1.5-1000	1.5	999.03	15	20	18.5	212	R1	1860	1641	(189.6)	(167.3)	2.2
SRGF2 -1000	2	1005.31	20	25	23	160	R1	3310	2920	(337)	(297)	3.6
SRGF2.5-1000	2.5	1005.31	25	30	27.5	128	R1	5170	4560	(527)	(465)	5.3
SRGF3 -1000	3	999.03	30	35	32	106	R1	5670	6560	(579)	(669)	7.5
SRGF4 -1000	4	1005.31	40	45	41	80	R1	13220	11670	(1348)	(1190)	12.5

CAUTION: Please follow the "Application Hints" on page 158 to ensure accurate assembly.

NOTE 1: The allowable forces shown in the table are the calculated values according to the assumed usage conditions. Please see page 155 for more details.

NOTE 2: Due to decarburization layer of about 0.5mm thickness, the rectangular surfaces have less than the specified hardness.

NOTE 3: Because of the heat treated gear teeth, appropriate care must be taken when cutting the length.