



R1 Shape (Type F)

## Specifications

Precision grade	<b>KHK R 001 grade 4</b>
Gear teeth	<b>Standard full depth</b>
Pressure angle	<b>20°</b>
Material	<b>SCM440</b>
Heat treatment	<b>Thermal refining only</b>
Tooth hardness	<b>250~285HB</b> <small>NOTE 2</small>
Surface treatment	<b>Black oxide</b>
Tooth surface finish	<b>Cut</b>
Datum reference surface for gear cutting	<b>Bottom surface</b>
Secondary Operations	<b>Possible</b>

**NOTE 2:** Due to a decarburization layer of about 0.5mm the hardness on the rectangular surfaces is less than 187HB.

## ■ Module 1.5~5 Type F Thermal refined

Catalog No.	Module <i>m</i>	Total length <i>A</i>	Face width		Height <i>C</i>	Height to pitch line <i>D</i>	Effective No. of teeth	Shape	Allowable force (N) <small>NOTE 1</small>		Allowable force (kgf)		Weight (kgf)
			<i>B</i>	<i>C</i>					Bending strength	Surface durability	Bending strength	Surface durability	
<b>KRF1.5-1000</b>	1.5	999.03	15	20	18.5	212	R1	3450	953	( 351.8 )	( 97.18 )	2.2	
<b>KRF2 -1000</b>	2	1005.31	20	25	23	160	R1	6133	1755	( 625.4 )	( 179 )	3.6	
<b>KRF2.5-1000</b>	2.5	1005.31	25	30	27.5	128	R1	9582	2811	( 977.1 )	( 286.6 )	5.4	
<b>KRF3 -1000</b>	3	999.03	30	35	32	106	R1	13800	4124	(1407 )	( 420.5 )	7.5	
<b>KRF4 -1000</b>	4	1005.31	40	45	41	80	R1	24540	7530	(2502 )	( 767.9 )	12.9	
<b>KRF5 -1000</b>	5	1005.31	50	50	45	64	R1	38330	11990	(3909 )	(1223 )	17.8	

**NOTE 1:** The allowable forces shown in the table are the calculated values according to the assumed usage conditions. Please see page155 for more details.