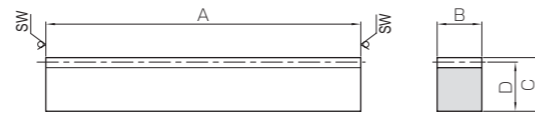


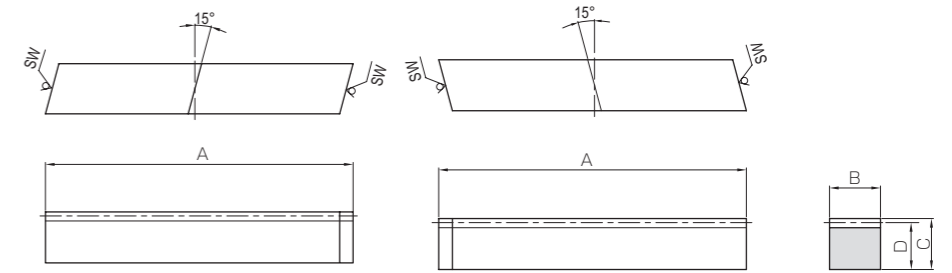


Specifications	
Precision grade	KHK R 001 grade 5
Reference section of gear	Normal plane
Gear teeth	Standard full depth
Normal pressure angle	20°
Helix angle	15°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 95HRB)
Surface treatment	Black oxide coating



SW: Sawing surface

R1



SW: Sawing surface

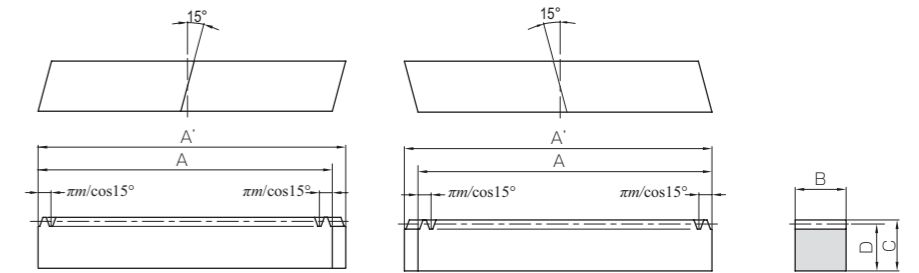
RR

SW: Sawing surface

RL

Catalog No.	Module	Effective no. of teeth	Direction of helix	Shape	Total length		Face width	Height	Height to pitch line	Allowable force (N)		Allowable force (kgf)	
					A	B				C	D	Bending strength	Surface durability
KSRH2-100R KSRH2-100L	m2	12	R L	RR RL	95	25	25	23	4710	1570	481	160	
KSRH2-500R KSRH2-500L		75	R L	R1	505								
KSRH2-1000R KSRH2-1000L		152	R L		1010								
KSRH3-100R KSRH3-100L	m3	7	R L	RR RL	95	35	35	32	9910	3520	1010	359	
KSRH3-500R KSRH3-500L		49	R L	R1	505								
KSRH3-1000R KSRH3-1000L		101	R L		1010								

Weight (kg)	Catalog No.
2.28	KSRH2-500R KSRH2-500L
4.56	KSRH2-1000R KSRH2-1000L
0.84	KSRH3-100R KSRH3-100L
4.44	KSRH3-500R KSRH3-500L
8.88	KSRH3-1000R KSRH3-1000L



RFR

RFL

Catalog No.	Module	No. of teeth	Direction of helix	Shape	Total length		Face width	Height	Height to pitch line	Allowable force (N)	
					A	A'				B	C
KSRHF2-1000R KSRHF2-1000L	m2	153	R L	RFR RFL	995.24	1001.94	25	25	23	4710	1570
KSRHF3-1000R KSRHF3-1000L	m3	102	R L	RFR RFL	995.24	1004.62	35	35	32	9910	3520

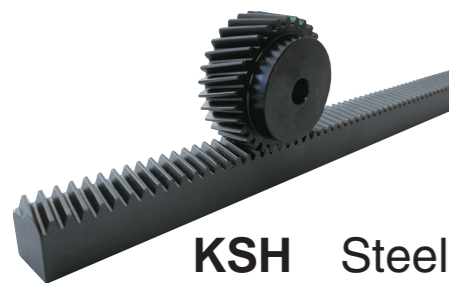
Allowable force (kgf)		Weight (kg)	Catalog No.
Bending strength	Surface durability		
481	160	4.49	KSRHF2-1000R KSRHF2-1000L
1010	359	8.75	KSRHF3-1000R KSRHF3-1000L

Catalog No.	Module	No. of teeth	Direction of helix	Shape	Total length		Face width	Height	Height to pitch line	Mounting hole dimensions			No. of mounting holes	Mounting screw size
					A	A'				B	C	D		
KSRHFD2-1000R KSRHFD2-1000L	m2	153	R L	RDR RDL	995.24	1001.94	25	25	23	10	47.62	180	6	M6
KSRHFD3-1000R KSRHFD3-1000L	m3	102	R L	RDR RDL	995.24	1004.62	35	35	32	14	47.62	180	6	M10

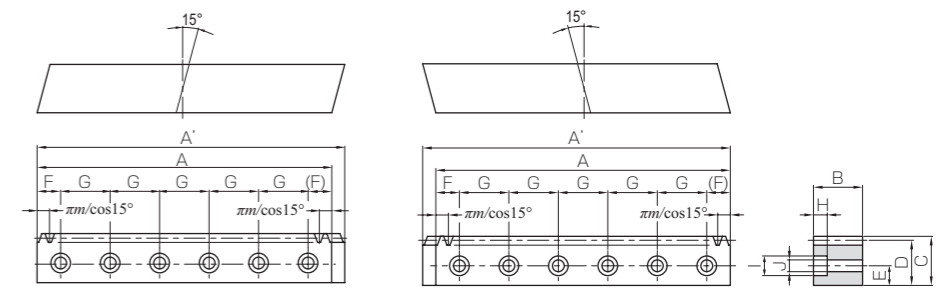
Counterbore dimensions			Allowable force (N)		Allowable force (kgf)		Weight (kg)	Catalog No.
H	I	J	Bending strength	Surface durability	Bending strength	Surface durability		
7	11	7	4710	1570	481	160	4.43	KSRHFD2-1000R KSRHFD2-1000L
10.8	17.5	11	9910	3520	1010	359	8.52	KSRHFD3-1000R KSRHFD3-1000L

- [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.
 - Please use KSH Helical Gears as the mating pinion.
 - These racks produce axial thrust forces. See page 167 for more details.
 - After attaching the racks to the base, please fasten with dowel pins. Clamping only with mounting screws could possibly cause the screws to be broken, due to a heavy load.
- [Caution on Secondary Operations]
- Please read "Caution on Performing Secondary Operations" (Page 194) when performing modifications and/or secondary operations for safety concerns.
 - If gear tooth hardening, or thermal refining, is applied, the decarburization layer (approx. 0.5 mm thickness) on the rectangular surfaces cannot have the hardness you designate.
 - Avoid hardening Racks with bolt holes, due to deformation occurring at the mounting hole and the difficulty of straightening after hardening.

Recommended Mating Pinions



KSH Steel Helical Gears



RDR

RDL