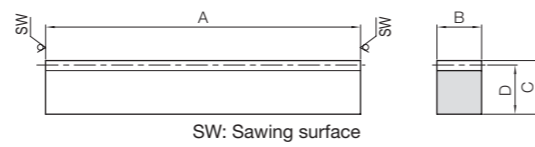
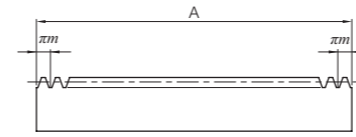




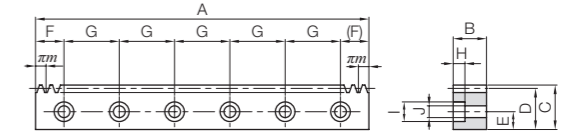
Specifications	
Precision grade	KHK R 001 grade 5
Gear teeth	Standard full depth
Pressure angle	20°
Material	SUS304
Heat treatment	Solution treated
Tooth hardness	(less than 187HB)



R1



RF



RD

Catalog Number	Module	Effective number of teeth	Shape	Total Length				Allowable force (N)				Allowable force (kgf)	
				A	B	C	D	Bending strength	Surface durability	Bending strength	Surface durability	Bending strength	Surface durability
SUR1-500	m1	159	R1	505	10	12	11	457	99.4	46.6	10.1		
SUR1.5-500	m1.5	105			15	20	18.5	1030	237	105	24.2		
SUR2-500	m2	79			20	25	23	1830	436	187	44.5		
SUR2.5-500	m2.5	63			25	30	27.5	2860	698	292	71.2		
SUR3-500	m3	52			30	35	32	4120	1030	420	105		
SUR4-500	m4	39			40	45	41	7320	1870	746	191		

Backlash (mm)	Weight (kg)	Catalog Number
0.04~0.23	0.44	SUR1-500
0.09~0.27	1.11	SUR1.5-500
0.11~0.30	1.84	SUR2-500
0.13~0.33	2.75	SUR2.5-500
0.14~0.37	3.84	SUR3-500
0.18~0.44	6.57	SUR4-500

Catalog Number	Module	No. of teeth	Shape	Total Length				Allowable force (N)				Allowable force (kgf)	
				A	B	C	D	Bending strength	Surface durability	Bending strength	Surface durability	Bending strength	Surface durability
SURF1.5-1000	m1.5	212	RF	999.03	15	20	18.5	1030	237	105	24.2		
SURF2-1000	m2	160		1005.31	20	25	23	1830	436	187	44.5		
SURF2.5-1000	m2.5	128		1005.31	25	30	27.5	2860	698	292	71.2		
SURF3-1000	m3	106		999.03	30	35	32	4120	1030	420	105		
SURF4-1000	m4	80		1005.31	40	45	41	7320	1870	746	191		

Backlash (mm)	Weight (kg)	Catalog Number
0.09~0.27	2.20	SURF1.5-1000
0.11~0.30	3.67	SURF2-1000
0.13~0.33	5.48	SURF2.5-1000
0.14~0.37	7.61	SURF3-1000
0.18~0.44	13.1	SURF4-1000

Catalog Number	Module	No. of teeth	Shape	Total Length				Mounting hole dimensions				
				A	B	C	D	E	F	G	No. of holes	Screw size
SURFD1.5-1000	m1.5	212	RD	999.03	15	20	18.5	8	49.51			M5
SURFD2-1000	m2	160		1005.31	20	25	23	10	52.65			M6
SURFD2.5-1000	m2.5	128		1005.31	25	30	27.5	12	52.65	180	6	M8
SURFD3-1000	m3	106		999.03	30	35	32	14	49.51			M10
SURFD4-1000	m4	80		1005.31	40	45	41	18	52.65			M12

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	1030	237	105	24.2	0.09~0.27	2.16	SURFD1.5-1000
7	11	7	1830	436	187	44.5	0.11~0.30	3.61	SURFD2-1000
8.6	14	9	2860	698	292	71.2	0.13~0.33	5.37	SURFD2.5-1000
10.8	17.5	11	4120	1030	420	105	0.14~0.37	7.40	SURFD3-1000
13	20	14	7320	1870	746	191	0.18~0.44	12.7	SURFD4-1000

[Caution on Product Characteristics] ① The stainless steel material is given *solution treatment and **passivation. Passivation improves the anti-rust performance, but it is not effective on the processed surface of the product. Note that this product is not completely rustproof.

* Solution treatment

Heat treatment by melting the carbide generated on the surface into the material when manufacturing the material

** Passivation

Pickled (nitric hydrofluoric acid) to make it more rust resistant

Recommended Mating Pinions



SUS/SUSA Stainless Steel Spur Gears

Please see Page 156 for more details.