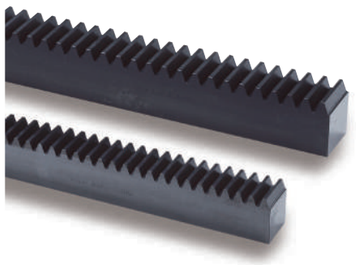
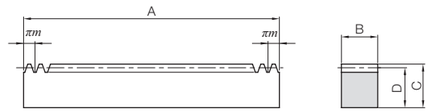
Hardened Racks



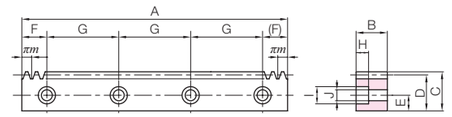
Specifications	
Precision grade	KHK R 001 grade 5 *
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	Gear teeth induction hardened **
Tooth hardness	50 to 60HRC
Surface treatment	Black oxide coating

* The precision grade is equivalent to the value shown in the table.
** The dimensions may vary due to hardening. Therefore, the total composite error is excluded from the rack accuracy table on Page 219.
** Due to the gear teeth being induction hardened, no secondary operations can be performed on tooth areas including the bottom land (approx. 2 to 3 mm).

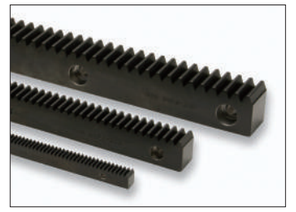


RF

J Series



RD



Catalog Number	Module	No. of teeth	Shape	Total Length	Face width	Height	Height to pitch line	Allowable force (N)		Allowable force (kgf)		Backlash (mm)	Weight (kg)	Catalog Number
				A	B	C	D	Bending strength	Surface durability	Bending strength	Surface durability			
SRF1.5-1000H	***m*1.5**	212	RF	999.03	15	20	18.5	1960	1110	200	113	0.05~0.29	2.18	**SRF1.5-1000H**
SRF2-1000H	***m*2**	160		1005.31	20	25	23	3480	2000	355	204	0.07~0.32	3.63	**SRF2-1000H**
SRF2.5-1000H	***m*2.5**	128		1005.31	25	30	27.5	5440	3160	555	322	0.09~0.35	5.43	**SRF2.5-1000H**
SRF3-1000H	***m*3**	106		999.03	30	35	32	7840	4590	799	468	0.10~0.39	7.53	**SRF3-1000H**
SRF4-1000H	***m*4**	80		1005.31	40	45	41	13900	8310	1420	847	0.14~0.46	12.9	**SRF4-1000H**
SRF5-1000H	***m*5**	64		1005.31	50	50	45	21800	13200	2220	1340	0.16~0.51	17.8	**SRF5-1000H**
SRF6-1000H	***m*6**	53		999.03	60	60	54	31400	19200	3200	1960	0.18~0.58	25.4	**SRF6-1000H**

Catalog Number ● : J Series (Available-on-request)	Module	No. of teeth	Shape	Total Length	Face width	Height	Height to pitch line	Mounting hole dimensions					Counterbore dimensions			Allowable force (N)		Allowable force (kgf)		Backlash (mm)	Weight (kg)	Catalog Number ● : J Series (Available-on-request)
				A	B	C	D	E	F	G	No. of holes	Screw size	H	I	J	Bending strength	Surface durability	Bending strength	Surface durability			
●**SRFD1.5-1000HJ**	***m*1.5**	212	RD	999.03	15	20	18.5	8	49.51	180	6	M5	6	10	6	1960	1110	200	113	0.05~0.29	2.14	●**SRFD1.5-1000HJ**
●**SRFD2-1000HJ**	***m*2**	160		1005.31	20	25	23	10	52.65	180	6	M6	7	11	7	3480	2000	355	204	0.07~0.32	3.58	●**SRFD2-1000HJ**
●**SRFD2.5-1000HJ**	***m*2.5**	128		1005.31	25	30	27.5	12	52.65	180	6	M8	8.6	14	9	5440	3160	555	322	0.09~0.35	5.31	●**SRFD2.5-1000HJ**
●**SRFD3-1000HJ**	***m*3**	106		999.03	30	35	32	14	49.51	180	6	M10	10.8	17.5	11	7840	4590	799	468	0.10~0.39	7.32	●**SRFD3-1000HJ**
●**SRFD4-1000HJ**	***m*4**	80		1005.31	40	45	41	18	52.65	180	6	M12	13	20	14	13900	8310	1420	847	0.14~0.46	12.6	●**SRFD4-1000HJ**
●**SRFD5-1000HJ**	***m*5**	64		1005.31	50	50	45	20	62.65	220	5	M14	15.2	23	16	21800	13200	2220	1340	0.16~0.51	17.2	●**SRFD5-1000HJ**
●**SRFD6-1000HJ**	***m*6**	53		999.03	60	60	54	23	59.51	220	5	M16	17.5	26	18	31400	19200	3200	1960	0.18~0.58	24.6	●**SRFD6-1000HJ**

[Caution on J series] ① Cancellation is not possible for made-to-order products. See page 42 for lead times and allowable order quantities. See page 44 for other precautions.

Recommended Mating Pinions

SS- (H) Hardened Spur Gears

Please see Page 110 for more details.

Product Precautions → Page 218

Precautions for Standard Machined Products → Pages 42~44