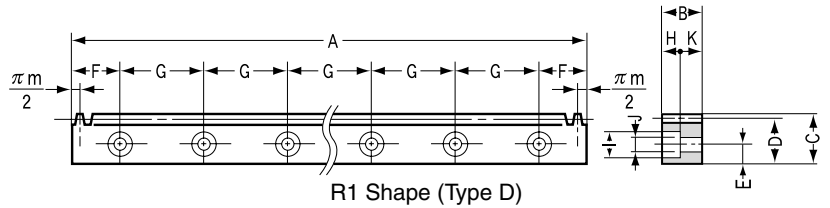




SRFD Racks with Bolt Holes Modules 1.5~6



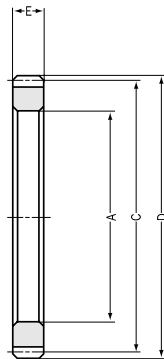
Modules 1.5~6 Type D

Catalog No.	Module <i>m</i>	Total length <i>A</i>	Face width <i>B</i>	Height <i>C</i>	Height to pitch line <i>D</i>	Effective No. of teeth	Mounting hole dimensions NOTE 1			No. of mounting holes	Mounting screw size
							<i>E</i>	<i>F</i>	<i>G</i>		
SRFD1.5-1000	1.5	999.03	15	20	18.5	212	8	49.52	180	6	M 5
SRFD2-1000	2	1005.31	20	25	23	160	10	52.66	180	6	M 6
SRFD2.5-1000	2.5	1005.31	25	30	27.5	128	12	52.66	180	6	M 8
SRFD3-1000	3	999.03	30	35	32	106	14	49.52	180	6	M10
SRFD4-1000	4	1005.31	40	45	41	80	18	52.66	180	6	M12
SRFD5-1000	5	1005.31	50	50	45	64	20	62.66	220	5	M14
SRFD6-1000	6	999.03	60	60	54	53	23	59.52	220	5	M16
SRFD1.5-1500	1.5	1507.96	15	20	18.5	320	8	33.98	180	9	M 5
SRFD2-1500	2	1507.96	20	25	23	240	10	33.98	180	9	M 6
SRFD2.5-1500	2.5	1507.96	25	30	27.5	192	12	33.98	180	9	M 8
SRFD3-1500	3	1507.96	30	35	32	160	14	33.98	180	9	M10
SRFD4-1500	4	1507.96	40	45	41	120	18	33.98	180	9	M12
SRFD5-1500	5	1507.96	50	50	45	96	20	93.98	220	7	M14
SRFD6-1500	6	1507.96	60	60	54	80	23	93.98	220	7	M16
SRFD1.5-2000	1.5	2049.88	15	20	18.5	435	8	34.94	180	12	M 5
SRFD2-2000	2	2048.31	20	25	23	326	10	34.15	180	12	M 6
SRFD2.5-2000	2.5	2049.88	25	30	27.5	261	12	34.94	180	12	M 8
SRFD3-2000	3	2045.17	30	35	32	217	14	32.58	180	12	M10
SRFD4-2000	4	2048.31	40	45	41	163	18	34.15	180	12	M12
SRFD5-2000	5	2042.04	50	50	45	130	20	31.02	220	10	M14
SRFD6-2000	6	2035.75	60	60	54	108	23	27.88	220	10	M16

NOTE 1: The dimensions "E" and "F" have the general tolerance. We recommend that you secure the rack after assembly by means of dowel pins.



SSR Corner Racks (External) Modules 2~3



Specifications

Precision grade	JIS N9 grade (JIS B1702-1: 1998) OLD JIS 5 grade (JIS B1702: 1974)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	Less than 194HB
Surface treatment	Black oxide
Tooth surface finish	Cut
Datum reference surface for gear cutting	Bore
Secondary Operations	Possible

Module 2

Catalog No.	Module <i>m</i>	No. of teeth <i>z</i>	Bore <i>A</i>	Pitch dia. <i>C</i>	Outside dia. <i>D</i>	Face width NOTE 3 <i>E</i>	Shape	Allowable force (N) NOTE 4		Allowable force (kgf)		Weight (kgf)
								Bending strength	Surface durability	Bending strength	Surface durability	
SSR2-120	2	120	194	240	244	20	S5	3052	366.9	(311.3)	(37.41)	2.5
SSR2-200	2	200	354	400	404	20	S5	3152	421.2	(321.4)	(42.95)	4.3

Module 2.5

SSR2.5-120	2.5	120	245	300	305	25	S5	4769	589.8	(486.3)	(60.14)	4.6
SSR2.5-200	2.5	200	445	500	505	25	S5	4925	676	(502.2)	(68.93)	8

Module 3

SSR3-120	3	120	296	360	366	30	S5	6868	869.4	(700.3)	(88.66)	7.8
SSR3-160	3	160	416	480	486	30	S5	7006	941.7	(714.4)	(96.03)	10.6

NOTE 3: The face width of SSR and SIR corner racks are the same as that of SR (F) and (D) racks. By cutting and finishing the ends of corner racks, they can be connected to straight racks with machined ends.

NOTE 4: The allowable forces shown in the table are the calculated values according to the assumed usage conditions. Please see page 27 for more details.



Racks with Bolt Holes

Specifications

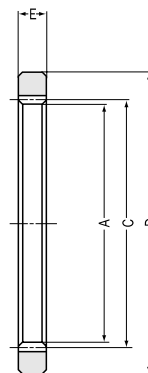
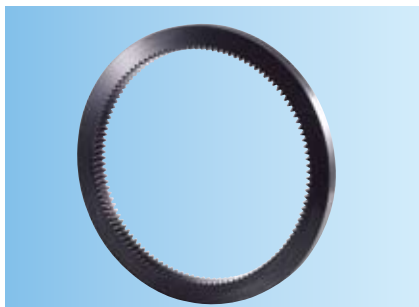
Precision grade	KHK R 001 grade 4	Tooth hardness	Less than 95HRB
Gear teeth	Standard full depth	Surface treatment	Black oxide
Pressure angle	20°	Tooth surface finish	Cut
Material	S45C-D	Datum reference surface for gear cutting	Bottom surface
Heat treatment	Stress relief annealing	Secondary Operations	Possible

Counterbore dimensions				Shape	Allowable force (N) <small>NOTE 2</small>		Allowable force (kgf)		Weight (kgf)	Catalog No.
H	I	J	K		Bending strength	Surface durability	Bending strength	Surface durability		
6	10	6	9	R1	2156	420.9	(219.9)	(42.92)	2.1	SRFD1.5-1000
7	11	7	13	R1	3833	775	(390.9)	(79.03)	3.5	SRFD2 -1000
9	14	9	16	R1	5989	1242	(610.7)	(126.6)	5.3	SRFD2.5-1000
11	17.5	11	19	R1	8624	1821	(879.4)	(185.7)	7.2	SRFD3 -1000
14	20	14	26	R1	15330	3325	(1563)	(339.1)	12.4	SRFD4 -1000
16	23	16	34	R1	23960	5296	(2443)	(540)	17	SRFD5 -1000
18	26	18	42	R1	34500	7735	(3518)	(788.8)	24	SRFD6 -1000
6	10	6	9	R1	2156	420.9	(219.9)	(42.92)	3.2	SRFD1.5-1500
7	11	7	13	R1	3833	775	(390.9)	(79.03)	5.4	SRFD2 -1500
9	14	9	16	R1	5989	1242	(610.7)	(126.6)	8	SRFD2.5-1500
11	17.5	11	19	R1	8624	1821	(879.4)	(185.7)	11.1	SRFD3 -1500
14	20	14	26	R1	15330	3325	(1563)	(339.1)	18.9	SRFD4 -1500
16	23	16	34	R1	23960	5296	(2443)	(540)	25.9	SRFD5 -1500
18	26	18	42	R1	34500	7735	(3518)	(788.8)	36.2	SRFD6 -1500
6	10	6	9	R1	2156	420.9	(219.9)	(42.92)	4.4	SRFD1.5-2000
7	11	7	13	R1	3833	775	(390.9)	(79.03)	7.3	SRFD2 -2000
9	14	9	16	R1	5989	1242	(610.7)	(126.6)	10.9	SRFD2.5-2000
11	17.5	11	19	R1	8624	1821	(879.4)	(185.7)	15.2	SRFD3 -2000
14	20	14	26	R1	15330	3325	(1563)	(339.1)	25.9	SRFD4 -2000
16	23	16	34	R1	23960	5296	(2443)	(540)	35.1	SRFD5 -2000
18	26	18	42	R1	34500	7735	(3518)	(788.8)	48.9	SRFD6 -2000

NOTE 2: The allowable forces shown in the table are the calculated values according to the assumed usage conditions. Please see page 155 for more details.



SIR Corner Racks (Internal) Modules 2~3



T1 Shape

Specifications

Precision grade	JIS N9 grade (JIS B1702-1: 1998) OLD JIS S grade (JIS B1702: 1974)
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	Less than 194HB
Surface treatment	Black oxide
Tooth surface finish	Cut
Datum reference surface for gear cutting	Outside diameter
Secondary Operations	Possible

Module 2

Catalog No.	Module <i>m</i>	No. of teeth <i>z</i>	Outside dia. <i>A</i>	Pitch dia. <i>C</i>	Outside dia. of ring <i>D</i>	Face width <i>E</i> <small>NOTE 5</small>	Shape	Allowable force (N) <small>NOTE 5</small>		Allowable force (kgf)		Weight (kgf)
								Bending strength	Surface durability	Bending strength	Surface durability	
SIR2-120	2	120	236	240	286	20	T1	3444	573.6	(351.1)	(58.49)	3
SIR2-200	2	200	396	400	446	20	T1	3385	548.4	(345.2)	(55.92)	4.8

Module 2.5

SIR2.5-120	2.5	120	295	300	355	25	T1	5380	917.4	(548.7)	(93.54)	5.5
SIR2.5-200	2.5	200	495	500	555	25	T1	5289	881.4	(539.3)	(89.88)	8.9

Module 3

SIR3-120	3	120	354	360	424	30	T1	7748	1356	(790.1)	(138.3)	10
SIR3-160	3	160	474	480	544	30	T1	7663	1313	(781.5)	(133.9)	12.1

NOTE 5: The allowable torques shown in the table is the calculated values according to the assumed usage conditions. Please see page 148 for more details.