



# SROCP CP Round Racks



Circular Pitch 2.5, 5, 10



Specifications	
Precision grade	KHK R 001 grade 4
Gear teeth	Standard full depth
Pressure angle	20°
Material	S45C
Heat treatment	—
Tooth hardness	(less than 95HRB)



\* SW Saw Blade Finished

R2

Catalog No.	Pitch mm (Module)	Effective no. of teeth	Shape	Total length			Allowable force (N)		Allowable force (kgf)		Weight (kg)
				A	Outside dia. $d_{hg}$	Height to pitch line D	Bending strength	Surface durability	Bending strength	Surface durability	
<b>SROCP2.5-500</b>	<b>CP2.5</b> (0.7958)	200	R2	505	10	9.2	474	91.8	48.3	9.36	0.30
<b>SROCP5-500</b>	<b>CP5</b> (1.5915)	99	R2	505	15	13.41	1650	324	169	33.1	0.65
<b>SROCP10-1000</b>	<b>CP10</b> (3.1831)	99	R2	1010	30	26.82	6610	1300	674	132	5.16

[Caution on Product Characteristics]

- The allowable forces shown in the table are the calculated values according to the assumed usage conditions. Please see Page 227 for more details.
- Backlash of racks vary depending on mating pinions. Please calculate the backlash in accordance with the backlash of the mating pinion and values in the table "Backlash of Rack Tooth (Amount of Tooth-Thinning)" (Page 191).

[Caution on Secondary Operations]

- Please read "Caution on Performing Secondary Operations" (Page 228) when performing modifications and/or secondary operations for safety concerns. KHK Quick-Mod Gears, the KHK's system for quick modification of KHK stock gears is also available.
- Please avoid hardening Round Racks. It causes contortion and deformation, and straightening processes are difficult to apply.

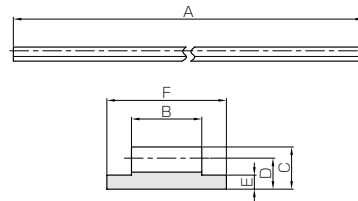


# FRCP CP Metal Flexible Racks

Circular Pitch 5



Specifications	
Precision grade	KHK R 001 grade 8
Gear teeth	Standard full depth
Pressure angle	20°
Material	SS400
Heat treatment	—
Tooth hardness	(less than 187HB)



R3

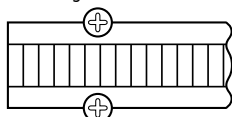
Catalog No.	Pitch mm (Module)	Shape	Total length				Thickness of base E	Width of base F	Allowable force (N)		Weight (kg)
			A	Face width B	Height C	Height to pitch line D			Bending strength	Bending strength	
<b>FRCP5-2000</b>	<b>CP5</b> (1.5915)	R3	2000	10	6	4.41	2	17	801	81.7	0.91
<b>FRCP5-3000</b>		R3	3000	10	6	4.41	2	17	801	81.7	1.37
<b>FRCP5-4000</b>		R3	4000	10	6	4.41	2	17	801	81.7	1.83

[Caution on Product Characteristics]

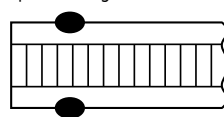
- The allowable forces shown in the table are the calculated values according to the assumed usage conditions. Please see Page 227 for more details.
- In cases of using a molded flexible rack in an arc shape, proper meshing cannot be obtained as the pitch error and the tooth profile error increases. Be sure and adjust the center distance so that the pinion turns without any problem.
- Metal Flexible racks are not suitable for use when positioning accuracy is required.

## Example: Fastening of FRCP Metal Flexible Racks

Fastening with flat head screws



Spot welding



(Overhead view of Flexible Racks)