	Specifications					
Precision grade	JIS grade N8 (JIS B17) JIS grade 4 (JIS B1702					
Gear teeth	Standard full dept	oth				
Pressure angle	20°					
Material	SUS303					
Heat treatment	-					
Tooth hardness	(less than 187HB))				
Pitch	CP5	CP10				
Face width (E)	15	30				
Hub width (F)	15	20				
Total length (G)	30	50				
Screw offset (J)	7.5	10				

—
- G
E F

* The precision grade of J Series products is equivalent to the value shown in the table.

ſ	Catalog No.	Pitch mm	No. of	Shape	Bore	Hub dia.	Pitch dia.	Outside dia.	Distance traveled	Allowable torque (N·m)		Allowable to	rque (kgf·m)	Backlash	Weight
	Catalog No.	(Module)	teeth	Snape	А н7	В	С	D	n one turn (mm)	Bending strength	Surface durability	Bending strength	Surface durability	(mm)	(kg)
ſ	SUSCP5-20	CP5	20		8	25	31.83	35.01	100	13.7	2.50	1.40	0.25		0.14
1	SUSCP5-25	(1.5915)	25		10	32	39.78	42.97	125	18.5	4.31	1.89	0.44	0.09~0.26	0.22
l	SUSCP5-30	(1.5915)	30	S1	10	38	47.74	50.93	150	23.4	6.72	2.39	0.68		0.32
ſ	SUSCP10-20	CP10	20	וכן	15	50	63.66	70.03	200	110	21.9	11.2	2.23		0.98
1	SUSCP10-25	(3.1831)	25		20	60	79.57	85.94	250	148	37.4	15.1	3.82	0.14~0.36	1.48
1	SUSCP10-30	(3.1631)	30		20	75	95.49	101.86	300	187	58.0	19.1	5.92		2.24

Racks

- [Caulium on Product Characteristics] ①The allowable torques shown in the table are the calculated values according to the assumed usage conditions. Please see Page 227 for more details.
 - ② The backlash values shown in the table are the theoretical values when these gears and SURCPF Racks are in mesh.
 - ①Please 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.

②Avoid performing secondary operations that narrow the tooth width, as it affects precision and strength.

[Caution on Secondary Operations]

SURCPF · SURCPFD **CP Stainless Steel Racks**





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

CP_	CP CP	В
-NV		٥٥

Catalog No.	Pitch mm	No. of	No. of Shape		Face width	Height	Height to pitch line	Allowable	force (N)	Allowable	Weight	
Catalog No.	(Module)	teeth	Snape	Α	В	С	D	Bending strength	Surface durability	Bending strength	Surface durability	(kg)
SURCPF5-500 SURCPF5-1000	CP5 (1.5915)	100 200	RF	500 1000	15	20	18.41	1090	263	111	26.8	1.08 2.16
SURCPF10-500 SURCPF10-1000	CP10 (3.1831)	50 100	RF	500 1000	30	35	31.82	4370	1050	445	107	3.73 7.46

Catalog No.	Pitch mm	No. of	Shape	Total length	Face width	Height	Height to pitch line	Mountin	g hole dim	ensions	No. of mounting	Mounting
: J Series (Available-on-request)	(Module)	teeth	Onapo	Α	В	С	D	Е	F	G	holes	screw size
SURCPFD5-500J	CP5 (1.5915)	100		500	15	20	18,41	Ω	25	150	4	M5
SURCPFD5-1000	(1.5915)	200	RD	1000	15	20	10.41	O	50	180	6	IVIS
SURCPFD10-500J	CP10 (3.1831)	50	שא	500	30	35	31.82	14	25	150	4	M10
SURCPFD10-1000	CF 10 (3.1631)	100		1000	30	33	31.02	14	50	180	6	IWITO

- [Caution on Product Characteristics] 1 The allowable forces shown in the table are the calculated values according to the assumed usage conditions. Please see Page 227 for more details.
 - 2 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).
 - 3 For products made of stainless steel, heat treatment* and passivation ** solutions are applied. Passivation is a rust-resistance treatment, but it is not effective on the machined surface and not a totally rustproof solution.
 - * Heat Treatment Solution
 - Heat treatment by the carbon formed on the surface during blank manufacturing is made to infiltrate the material interior.

 - Immersion of the metal in a nitric acid solution to make it more rust-resistant.
 - (4) 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

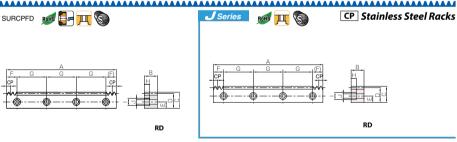
To order J Series products, please specify; Catalog No. + J + BORE

Bore н7					* The	produ	ct shap	es of J	Series	items a	re iden	tified by	backg	round c	olor.			
Keyway Js9	8	10	12	14	15	16	17	18	19	20	22	25	28	30	32	35	40	45
Screw size	Œ	4 ×	1.8		5 ×	2.3			6 ×	2.8			8 × 3.3		10>	₹3.3	12 × 3.3	14 × 3.8
Catalog No.	M5			N	/4				N	5			M6			M8		M10
SUSCP5-20 J BOR	E																	
SUSCP5-25 J BOR	E																	
SUSCP5-30J BORI																		
SUSCP10-20 J BOR																		
SUSCP10-25 J BOR	E																	
SUSCP10-30 J BOR																		

[Caution on J series]

- ① As available-on-request products, requires a lead-time for shipping within 2 working-days (excludes the day ordered), after placing an order. Please allow additional shipping time to get to your local distributor.
- 2 Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.
- ③ Keyways are made according to JIS B1301 standards, Js 9 tolerance.
- Ocertain products which would otherwise have a very long tapped hole are conterbored to reduce the length of the tap. (Products marked with "*" are tap size).
- ⑤ For products having a tapped hole, a set screw is included.
- The use of S1T shaped set screws for fastening gears to a shaft, is a method only applicable to light load usage. For secure fastening, please use dowel

SURCPF · SURCPFD



Catalog No.	Weight	force (kgf)	Allowable	force (N)	Allowable	nsions	erbore dime	Count
: J Series (Available-on-request)	(kg)	Surface durability	Bending strength	Surface durability	Bending strength	J	- 1	Н
•SURCPFD5-500J	1.06	26.8	111	263	1090	6	10	6
SURCPFD5-1000	2.12	20.6	1111	203	1090	0	10	0
•SURCPFD10-500J	3.59	107	445	1050	4370	-11	17.5	10.8
SURCPFD10-1000	7.25	107	445	1050	4370	11	17.5	10.8

[Caution on Secondary Operations] ①Please 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.

- ① As available-on-request products, requires a lead-time for shipping within 2 working-days (excludes the day ordered), after placing an order. Please allow additional shipping time to get to your local distributor.
- ② Number of products we can process for one order is 1 to 20 units. For quantities of 21 or more pieces, we need to quote price and lead time.

Newly added