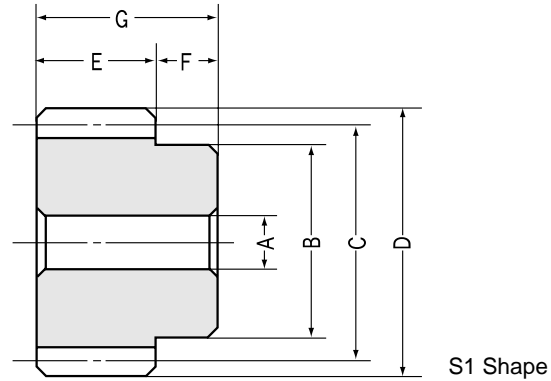
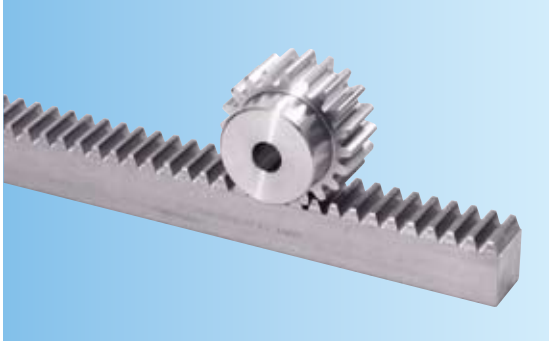




# SUSCP CP Stainless Steel Spur Gears

Circular Pitches 5~10



## CP5 (m 1.5915)

Catalog No.	Pitch mm (m)	No. of teeth	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Shaft length (R)	Total length	Distance traveled in one turn	Shape
		Z	AH7	B	C	D	E	F	G	NOTE 1	
<b>SUSCP5-20</b>	CP5 (1.5915)	20	8	25	31.83	35.01	15	15	30	100	S1
<b>SUSCP5-25</b>	CP5 (1.5915)	25	10	32	39.79	42.97	15	15	30	125	S1
<b>SUSCP5-30</b>	CP5 (1.5915)	30	10	38	47.75	50.93	15	15	30	150	S1

## CP10 (m 3.1831)

<b>SUSCP10-20</b>	CP10 (3.1831)	20	15	50	63.66	70.03	30	20	50	200	S1
<b>SUSCP10-25</b>	CP10 (3.1831)	25	20	60	79.58	85.94	30	20	50	250	S1
<b>SUSCP10-30</b>	CP10 (3.1831)	30	20	75	95.49	101.86	30	20	50	300	S1

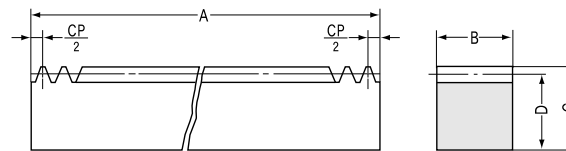
CAUTION: SUSCP and SUS spur gears are similar in appearance and dimensions. Please check the identifying marking before use.

NOTE 1: The amount denotes the distance in mm that a pinion travels on the rack in one revolution.



# SURCPF(D) CP Stainless Steel Racks

Circular Pitches 5~10



R1 Shape (Type F)

## CP5~10

Catalog No.	Pitch mm (m)	Total length	Face width	Height	Height to pitch Line	Effective No. of teeth	Shape
		A	B	C	D		
<b>SURCPF 5-1000</b>	CP 5 (1.5915)	1000	15	20	18.41	200	R1
<b>SURCPF10-1000</b>	CP10 (3.1831)	1000	30	35	31.82	100	R1

## CP5~10

Catalog No.	Pitch mm (m)	Total length	Face width	Height	Height to pitch Line	Effective No. of teeth	Mounting hole dimensions			No. of mounting holes	Mounting screw size
		A	B	C	D		E	F	G		
<b>SURCPFD 5-1000</b>	CP 5 (1.5915)	1000	15	20	18.41	200	8	50	180	6	M 5
<b>SURCPFD10-1000</b>	CP10 (3.1831)	1000	30	35	31.82	100	14	50	180	6	M10

\*The blue catalog numbers indicate the new products.

## Specifications

Precision grade	JIS N8 grade (JIS1 B1702-1: 1998) OLD JIS 4 grade (JIS B1702: 1974)	Tooth hardness	Less than 187HB
Gear teeth	Standard full depth	Surface treatment	—
Pressure angle	20°	Tooth surface finish	Cut
Material	SUS303	Datum reference surface for gear cutting	Bore
Heat treatment	—	Secondary Operations	Possible

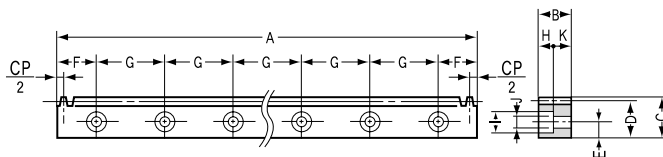
\*Available on special order: Same gears made in SUS304.

Allowable torque (N·m) NOTE 2		Allowable torque (kgf·m)		Backlash (mm) NOTE 3	Weight (kgf)	Catalog No.
Bending strength	Surface durability	Bending strength	Surface durability			
12.06	0.9355	(1.23 )	(0.0954)	0.09 ~ 0.26	0.16	<b>SUSCP5-20</b> <b>SUSCP5-25</b> <b>SUSCP5-30</b>
16.6	1.526	(1.693)	(0.1556)	0.10 ~ 0.28	0.22	
21.29	2.242	(2.171)	(0.2286)	0.10 ~ 0.28	0.4	

96.53	8.06	( 9.843)	(0.8219)	0.14 ~ 0.36	1.1	<b>SUSCP10-20</b> <b>SUSCP10-25</b> <b>SUSCP10-30</b>
132.8	13.12	(13.54 )	(1.338 )	0.16 ~ 0.39	1.7	
170.3	19.28	(17.37 )	(1.966 )	0.16 ~ 0.39	2.5	

**NOTE 2:** The allowable torques shown in the table are the calculated values according to the assumed usage conditions. Please see page 181 for more details.

**NOTE 3:** The backlash values shown in the table are the theoretical values when these gears are meshed with SURCPF racks.



R1 Shape (Type D)

## Specifications

Precision grade	KHK R 001 grade 5	Tooth hardness	Less than 187HB
Gear teeth	Standard full depth	Surface treatment	Passivation
Pressure angle	20°	Tooth surface finish	Cut
Material	SUS304 NOTE 4	Datum reference surface for gear cutting	Bottom surface
Heat treatment	Solution treatment	Secondary Operations	Possible

**NOTE 4:** Although SURCPF have rust-resistant quality, they are not 100% rust proof. Please exercise caution.

Allowable force (N) NOTE 5		Allowable force (kgf)		Weight (kgf)	Catalog No.
Bending strength	Surface durability	Bending strength	Surface durability		
1091	263	(111.3)	( 26.82)	2.2	<b>SURCPF 5-1000</b> <b>SURCPF10-1000</b>
4367	1052	(445.3)	(107.3 )	7.6	

Counterbore and hole dimensions				Shape	Allowable force (N) NOTE 5		Allowable force (kgf)		Weight (kgf)	Catalog No.
H	I	J	K		Bending strength	Surface durability	Bending strength	Surface durability		
6	10	6	9	R1	1091	263	(111.3)	( 26.82)	2.2	<b>SURCPFD 5-1000</b> <b>SURCPFD10-1000</b>
11	17.5	11	19	R1	4367	1052	(445.3)	(107.3 )	7.4	

**NOTE 5:** The allowable forces shown in the table are the calculated values according to the assumed usage conditions. Please see page 181 for more details.