

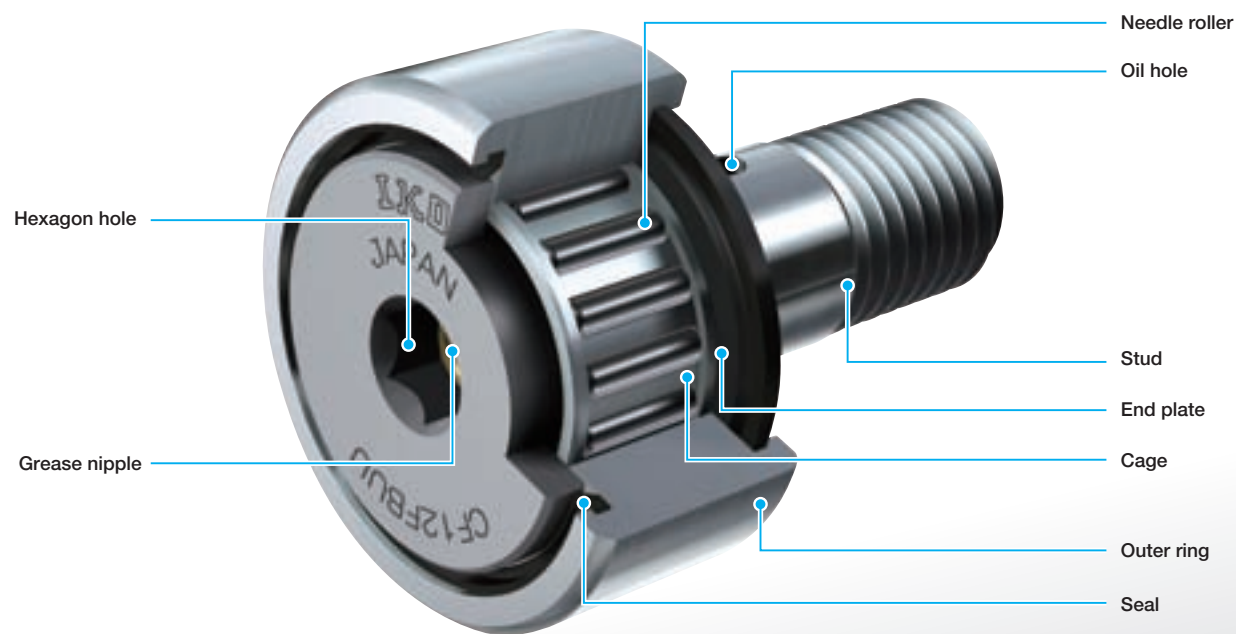
Stainless Steel Cam Followers CF...FB



Lineup greatly reinforced!

Cam Followers are the bearing with a stud and needle rollers incorporated in a thick-walled outer ring designed for outer ring rotation. Stainless Steel Cam Followers are suitable for applications where water exists nearby or rust preventive oil shall be avoided such as in cleanroom.

CF...FB Structure



CF...FB

Model of bearing	Shape of outer ring outer diameter surface	Seal structure	Identification Number	Size													
				3	4	5	6	8	10	10-1	12	12-1	16	18	20	20-1	
Stainless steel standard cam followers CF...FB	Crowned outer ring	Shield type	CF...FBR	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
		Sealed type	CF...FBUUR	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
	Cylindrical outer ring	Shield type	CF...FB	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
		Sealed type	CF...FBUU	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆

Remark: Roller guide type is only available for lineup of caged type.

NEW

Features

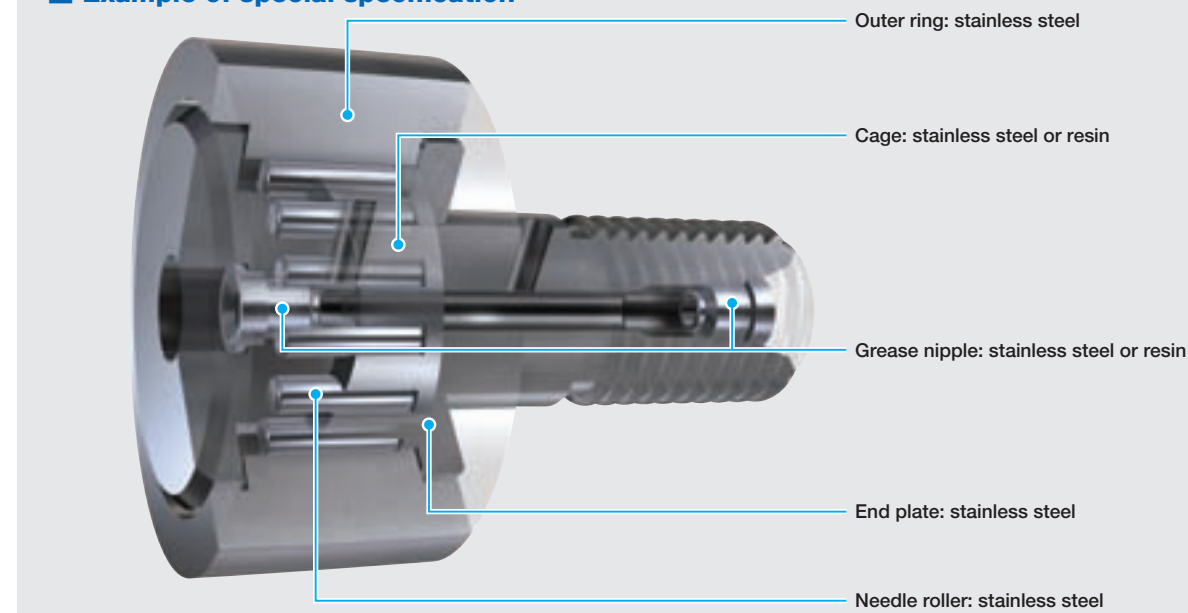
1 Stainless steel material for excellent corrosion resistance

Corrosion resistant stainless steel is used so that the products are suitable for applications where rust prevention oil is not preferred, such as in cleanroom environment.

2 Special specification suitable for secondary battery production etc.

Special specification available for special environment. This is suitable for secondary battery production facilities etc that require low dust generation, rust prevention, special packaging of product and elimination of certain materials such as Copper, Zinc and Nickel.

Example of special specification



Example of an Identification Number

CF 12 F B UU R
 ① ② ③ ④ ⑤

① Model	
CF...B	Standard cam followers
② Dimension	
Represents stud diameter. (unit: mm)	
③ Material type	
F	Stainless steel made

④ Seal structure	
No symbol	Shield type
UU	Sealed type
⑤ Shape of outer ring outer diameter surface	
No symbol	Cylindrical outer ring
R	Crowned outer ring

Accuracy and Clearance

Table 1 Tolerance

Name	Class	
	Crowned outer ring	Cylindrical outer ring
Dimension <i>D</i> of external ring outer diameter	0 -50	Obtain from Table 2
Dimension <i>d_t</i> tolerance of stud diameter	h7	
Dimension <i>C</i> tolerance of outer ring width	0 -120	

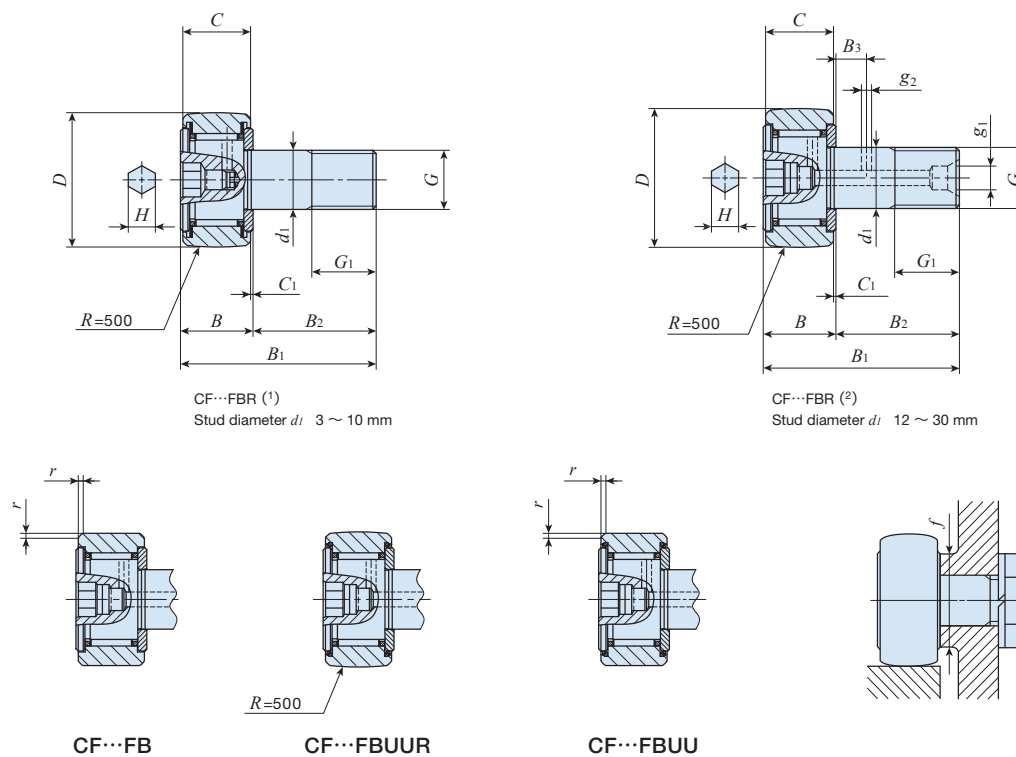
Table 2 Tolerance and allowance of outer ring

Nominal external ring outer diameter <i>D</i> mm		Dim. tolerance of mean outer diameter within a single surface ΔD_{mp}		Outer diameter variation within a single surface (maximum) <i>V_{Dsp}</i>	Mean outer diameter variation within a single surface (maximum) <i>V_{Dmp}</i>	Radial parallelism (maximum) <i>K_{ea}</i>
Above	or lower	H	L			
6	18	0	- 8	10	6	15
18	30	0	- 9	12	7	15
30	50	0	-11	14	8	20
50	80	0	-13	16	10	25

Table 3 Internal radial clearance

Stud diameter mm	Internal radial clearance	
	Minimum	Maximum
3, 4, 5	3	17
6	5	20
8, 10, 12	5	25
16, 18, 20	10	30

Dimension



Stud Diameter mm	Identification Number	Mass (Ref.) g	Nominal dimensions mm									Mounting related dimensions <i>f</i> Minimum mm	Maximum tightening torque N · m	Basic dynamic load rating <i>C</i> N	Basic static load rating <i>C₀</i> N	Maximum Static allowable Load N
			<i>D</i>	<i>C</i>	<i>d_t</i>	<i>G</i>	<i>G₁</i>	<i>B</i>	<i>B₁</i>	<i>B₂</i>	<i>H</i>					
3	CF 3 FB(UU) (R)	4.3	10	7	3	M 3x0.5	5	8	17	9	2	6.8	0.34	1 200	813	384
4	CF 4 FB(UU) (R)	7.4	12	8	4	M 4x0.7	6	9	20	11	2.5	8.3	0.78	1 650	1 270	834
5	CF 5 FB(UU) (R)	10.3	13	9	5	M 5x0.8	7.5	10	23	13	3	9.3	1.6	1 930	1 730	1 260
6	CF 6 FB(UU) (R)	18.5	16	11	6	M 6x1	8	12.2 max	28.2 max	16	3	11	2.7	2 930	2 920	1 950
8	CF 8 FB(UU) (R)	28.5	19	11	8	M 8x1.25	10	12.2 max	32.2 max	20	4	13	6.5	3 400	3 790	3 790
10	CF 10 FB(UU) (R)	45	22	12	10	M10x1.25	12	13.2 max	36.2 max	23	5	16	13.8	4 340	5 510	5 510
	CF 10-1 FB(UU) (R)	60														
12	CF 12 FB(UU) (R)	95	30	14	12	M12x1.5	13	15.2 max	40.2 max	25	6	21	21.9	6 330	7 830	7 830
	CF 12-1 FB(UU) (R)	105														
16	CF 16 FB(UU) (R)	170	35	18	16	M16x1.5	17	19.6 max	52.1 max	32.5	6	26	58.5	9 620	14 700	14 700
18	CF 18 FB(UU) (R)	250	40	20	18	M18x1.5	19	21.6 max	58.1 max	36.5	8	29	86.2	11 800	20 200	20 200
20	CF 20 FB(UU) (R)	460	52	24	20	M20x1.5	21	25.6 max	66.1 max	40.5	8	34	119	16 500	27 700	27 700
	CF 20-1 FB(UU) (R)	385														

Notes (1) No oil hole is provided if the stud diameter *d_t* is 4 mm or less. Grease can be fed from the grease feed plug located inside the hexagon socket on the head if the stud diameter *d_t* is between 5 and 10 mm.
 (2) The grease nipple is integrated in the hexagon socket on the head. Grease can be fed from the head and stud end by spiking the supplied grease nipple into the oil hole on the stud end.
 Remark: Grease is pre-packed if the stud screw diameter *d_t* of the shield type is 10 mm or less or if the seal structure is the sealed type. As for the others, grease is not pre-packed. Use the product with appropriate lubrication.