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IKO

New

Short Stud Type Cam Followers

CFC...B

Compact Cam Followers with
a Newly Developed Mounting Structure!



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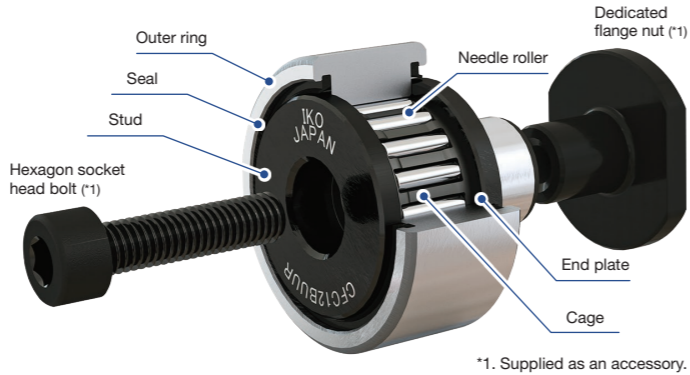


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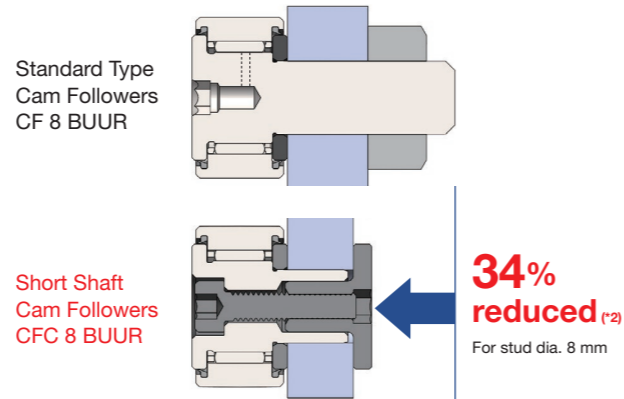
Freedom in Cam Mechanism Design

IKO's Short Stud Cam Followers CFC...B have a new mounting structure using a hexagon socket head bolt and a dedicated flange nut. This new structure maintains the performance of the cam follower while making it more compact and mountable.

Since CFC...B needs far less mounting space than conventional cam followers, it enables greater freedom in design, improving production efficiency in a wide range of industries.



*1. Supplied as an accessory.

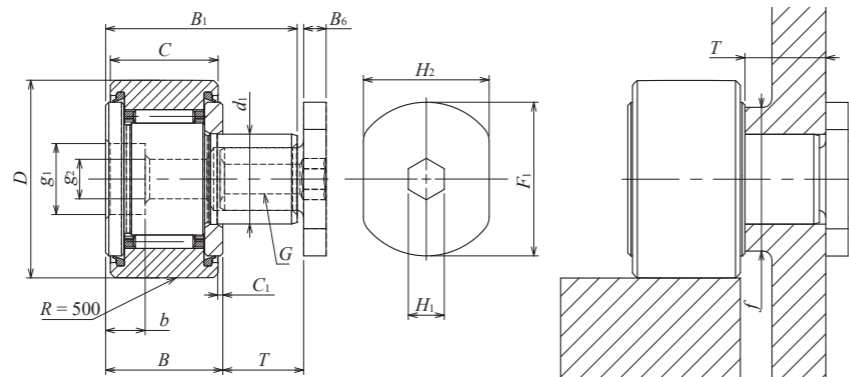


Stud diameter mm	Overall length (min.) mm		Overall length reduction ratio
	Standard Type Cam Followers CF...B	Short Shaft Cam Followers CFC...B ⁽²⁾	
8	32.2	21.4	-34%
10	36.2	24.9	-31%
12	40.2	28.4	-29%

⁽²⁾ Length when mounting member material thickness is set at the minimum value.

Dimensions

Type of material	No symbol	High carbon steel
	F	Stainless steel
Roller guide method	No symbol	With cage
	V	Full complement
Seal structure	No symbol	Shield type
	UU	Sealed type
Shape of outer ring outside surface	No symbol	Cylindrical outer ring
	R	Crowned outer ring



Roller guide method	Stud diameter mm	Identification number	Mass (Ref.) g	Boundary dimensions mm															Mounting related dimensions f Min. mm	Maximum tightening torque N·m	Basic dynamic load rating C N	Basic static load rating C N	Maximum allowable static load N	Track capacity ⁽²⁾ N
				D	C	d ₁	B _{max}	B ₁	C ₁	T ⁽¹⁾	B ₂ max	G	b	g ₁	g ₂	H ₁	H ₂	F ₁						
With cage	8	CFC 8 BUUR	27	19	11	8	12.2	18.3	0.6	7 - 11(13)	2.2	M3×0.5	3.3	6.4	3.3	3	12	13.9	13	1.7	4 250	4 740	3 860	1330
		CFC 10 BUUR	42	22	12	10	13.2	21.3	0.6	9 - 14(17)	2.7	M4×0.7	4.4	7.9	4.4	4	14	17.1	16	4.0	5 430	6 890	6 890	1610
	10	CFC 10-1 BUUR	56	26	12	10	13.2	21.3	0.6	9 - 14(17)	2.7	M4×0.7	4.4	7.9	4.4	4	14	17.1	16	4.0	5 430	6 890	6 890	2030
		CFC 12 BUUR	88	30	14	12	15.2	24.3	0.6	10 - 15(19)	3.2	M5×0.8	5.4	9.4	5.4	5	19	22.4	21	7.9	7 910	9 790	9 790	2470
Full complement	8	CFC 12-1 BUUR	99	32	14	12	15.2	24.3	0.6	10 - 15(19)	3.2	M5×0.8	5.4	9.4	5.4	5	19	22.4	21	7.9	7 910	9 790	9 790	2710
		CFC 8 VBUUR	28	19	11	8	12.2	18.3	0.6	7 - 11(13)	2.2	M3×0.5	3.3	6.4	3.3	3	12	13.9	13	1.7	8 170	11 200	3 860	1330
	10	CFC 10 VBUUR	43	22	12	10	13.2	21.3	0.6	9 - 14(17)	2.7	M4×0.7	4.4	7.9	4.4	4	14	17.1	16	4.0	9 570	14 500	7 060	1610
		CFC 10-1 VBUUR	57	26	12	10	13.2	21.3	0.6	9 - 14(17)	2.7	M4×0.7	4.4	7.9	4.4	4	14	17.1	16	4.0	9 570	14 500	7 060	2030
12	CFC 12 VBUUR	90	30	14	12	15.2	24.3	0.6	10 - 15(19)	3.2	M5×0.8	5.4	9.4	5.4	5	19	22.4	21	7.9	13 500	19 700	11 300	2470	
	CFC 12-1 VBUUR	100	32	14	12	15.2	24.3	0.6	10 - 15(19)	3.2	M5×0.8	5.4	9.4	5.4	5	19	22.4	21	7.9	13 500	19 700	11 300	2710	

Notes:
⁽¹⁾ This is the mounting range possible with the supplied bolt. Regarding the dimensions in parentheses, the customer should use a separate hexagon socket head bolt (strength division 12.9).
⁽²⁾ Value when the mating surface (steel/flat) hardness is 40HRC.

Remarks 1. This bearing cannot be re-lubricated due to its structure. If the environment requires re-lubrication, please use Standard Type Cam Followers.
 2. Shell Lubricants Japan K.K. ALVANIA GREASE S2 is prepacked.
 3. The hexagon socket head bolt and dedicated flange nut are supplied as accessories.

1N = 0.102 kgf

Detailed specifications

Accuracy

Name	Tolerance	unit: μm
Outside dia. of outer ring <i>D</i>	-50 - 0	
Stud dia. <i>d₁</i>	8, 10 mm	-15 - 0
	12 mm	-18 - 0
Width of outer ring <i>C</i>	-120 - 0	

Allowable rotational speed

For $d_1 n$ value with only pure radial load applied, use the maximum value or lower as a guideline.

Under actual operating conditions, use the recommended $d_1 n$ values or lower as a guideline in consideration of the effect of axial loads.

Model of bearing	Maximum value	Recommended value
With cage	84 000	8 400
Full complement	42 000	4 200

$d_1 n$ value = $d_1 \times n$ Here, d_1 : stud dia. mm n : rotation speed min⁻¹

Selecting the hexagon socket head bolt for mounting

For Short Stud Cam Followers, the cam follower mounting member material thickness range (T dimension in the dimension table) is determined by the hexagon socket head bolt length.

When the designed mounting member material exceeds the tolerance range of the bolt supplied, the customer should use a hexagon socket head bolt (strength division 12.9) as indicated in the table at right.

When considering mounting member material with thickness outside the range in the table at right, please contact IKO.

Mounting

When mounting Short Stud Cam Followers, fix the dedicated flange nut as a rotation stopper with a wrench or hex wrench, and then tighten the hexagon socket head bolt by rotating with a hex wrench. For tightening torque, see the maximum tightening torque in the dimension table.

Radial internal clearance

Identification number	Radial internal clearance		unit: μm
	Min.	Maximum	
CFC8 - CFC12-1	5	25	

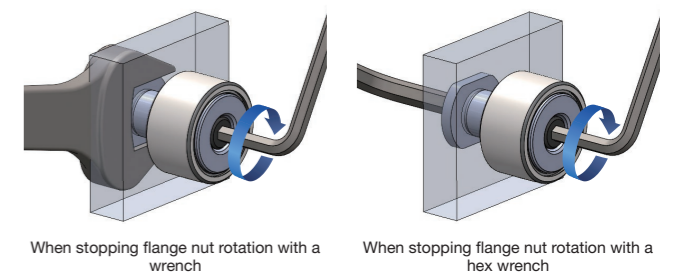
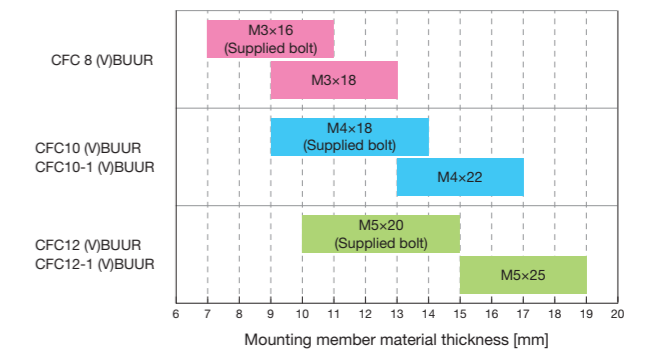
Recommended fits

Since the Cam Follower is supported in a cantilever position, the mounting hole diameter should be prepared without play between the stud and the hole especially when heavy shock loads are applied.

Stud diameter	Tolerance class of mounting hole dia. H7	unit: μm
8, 10 mm	0 - +15	
12 mm	0 - +18	

Operating Temperature Range

Operating temperature range of Short Stud Type Cam Followers is -20°C to 120°C.



Overall length of dedicated flange nut

Stud diameter mm	L max mm
8	9.2
10	12.0
12	13.6

Note: Depending on the mounting method, the space indicated above is required behind the mounting member material.