

Accuracy

Table 1 - Tolerances

unit: μm

Item	Series	Miniature Type Cam Followers CFS	Standard Type Cam Followers (*)		Inch Series Cam Followers	
			Crowned outer ring	Cylindrical outer ring	Crowned outer ring	Cylindrical outer ring
Outside dia. of outer ring D		See Table 2.1	0 -50	See Table 2.2	0 -50	See Table 2.3
Stud diameter d_1		h6	h7		+ 25 0	
Width of outer ring C		0 -120	0 -120		0 -130	

Note (*) Applicable for Cam Followers other than Miniature Type Cam Followers and Inch Series Cam Followers.

Table 2.1 - Tolerance and allowance of outer ring (Miniature Type Cam Followers CFS)

unit: μm

ΔD_{mp} Deviation of mean outside diameter in a single plane								K_{ea} Radial runout of outer ring of assembled bearing (Maximum)			
Class 0		Class 6		Class 5		Class 4		Class 0	Class 6	Class 5	Class 4
High	Low	High	Low	High	Low	High	Low				
0	-8	0	-7	0	-5	0	-4	15	8	5	4

Table 2.2 - Tolerance and allowance of outer ring (Standard Type Cam Followers, Cylindrical outer ring)

unit: μm

D Nominal outside diameter of outer ring mm		ΔD_{mp} Deviation of mean outside diameter in a single plane		V_{Dsp} Variation of outside diameter in a single plane (Maximum)	V_{Dmp} Variation of mean outside diameter (Maximum)	K_{ea} Radial runout of outer ring of assembled bearing (Maximum)
Over	Incl.	High	Low			
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
80	120	0	-15	19	11	35

Table 2.3 - Tolerance and allowance of outer ring (Inch series Cam Followers, Cylindrical outer ring)

unit: μm

D Nominal outside diameter of outer ring mm		ΔD_{mp} Deviation of mean outside diameter in a single plane		V_{Dsp} Variation of outside diameter in a single plane (Maximum)	V_{Dmp} Variation of mean outside diameter (Maximum)	K_{ea} Radial runout of outer ring of assembled bearing (Maximum)
Over	Incl.	High	Low			
6	18	0	-25	10	6	15
18	30			12	7	15
30	50			14	8	20
50	80			16	10	25
80	120			19	11	35

Radial Internal Clearance

Table 3 Radial internal clearance

unit: μm

Identification number				Radial internal clearance			
Miniature Type Cam Followers CFS	Standard Type Cam Followers (1)		Cylindrical Roller Cam Followers	Inch Series Cam Followers	Min.	Max.	
CFS1.4 to CFS5	KR	10 to KR	13	–	CF1/2N, 1/2, 9/16; CFH1/2, 9/16	3	17
CFS6	KR	16		–	CF5/8N, 5/8, 11/16; CFH5/8, 11/16	5	20
–	KR	19 to KR	32	–	CF3/4 to 1-3/8; CFH3/4 to 1-3/8	5	25
–	KR	35 to KR	52	–	CF1/2 to 2-1/4; CFH1/2 to 2-1/4	10	30
–	KR	62 to KR	90	–	CF3; CFH2-1/2 to 3-1/2	10	40
–	–	–	–	–	CFH4	15	50
–	–	–	–	NUKR35 to NUKR62	PWKR35 to PWKR62	20	45
–	–	–	–	NUKR72 to NUKR90	PWKR72 to PWKR90	25	50

Note (1) Applicable for all Cam Followers other than Miniature Type Cam Followers, Cylindrical Roller Cam Followers and Inch Series Cam Followers.

Fit

Recommended fit of the Cam Followers stud and mounting hole is shown in Table 4 and dimensional tolerances of mounting hole are shown in Table 7, respectively. 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.

Table 4 Recommended fit

Model of bearing	Tolerance class of mounting hole for stud
Miniature Type Cam Followers CFS	H6
Standard Type Cam Followers (1)	H7
Inch Series Cam Followers	F7

Note (1) Applicable for Cam Followers other than Miniature Type Cam Followers and Inch Series Cam Followers.

Table 5 Dimensional tolerances of mounting hole

unit: μm

Classification of diameter mm		F7		H6		H7	
Over	Incl.	High	Low	High	Low	High	Low
–	3	+16	+ 6	+ 6	0	+10	0
3	6	+22	+10	+ 8	0	+12	0
6	10	+28	+13	+ 9	0	+15	0
10	18	+34	+16	+11	0	+18	0
18	30	+41	+20	+13	0	+21	0
30	40	+50	+25	+16	0	+25	0
40	50						