

Cam Followers

Hex Socket on Head



Cam Followers

Hex Socket on Head / Thread (Crowned Type with Grease Fitting)

■ Crowned

Application	Type		Material	Accessory
	With Seal	No Seal		
General	CFUA	CUA	SUJ2	1 Hex Nut (S45C Carbon Steel, Black Oxide)
Low Dust Generation	CFUAS	CUAS	SUS440C Equivalent	Hex Nut 1 pc. (SUS304)
Heavy Load	CFUAG	-	SUJ2	1 Hex Nut (S45C Carbon Steel, Black Oxide)

Full Roller for Heavy Load.

No grease hole is provided.
Operating Temp.: 80°C or lower

Part Number		D (Selectable)	MxPitch	B	B ₁	L	l	r	f (Min.)	H	Unit Price					
Type	dh7 Tolerance										CFUA	CFUAS	CFUAG	CUA	CUAS	
(With Seal)	3	0 -0.010	10	3x0.5	7	8	17	5	0.3	6.8	2 (1.5)					
	4	0 -0.012	12	4x0.7	8	9	20	6	0.5	8.6	2.5 (2)					
	5	0 -0.012	13	5x0.8	9	10	23	7.5		9.7	3 (2.5)					
	6	0 -0.015	16	6x1.0	11	12	28	9		11	3					
(No Seal)	8	0 -0.015	19	8x1.25	12	13	36	13	1	15	5					
	10	0 -0.015	26	10x1.25	12	13	36	13	1	15	5					

⚠ The standards of d12 to 20 have been modified to those with the hex socket on the head and thread. For the new part number, see P.1044. ⚠ Dimensions in () are for Stainless Steel Type.

■ Flat

Application	Type		Material	Accessory
	With Seal	No Seal		
General	CFFA	CFA	SUJ2	1 Hex Nut (S45C Carbon Steel, Black Oxide)
Low Dust Generation	CFFAS	CFFAS	SUS440C Equivalent	Hex Nut 1 pc. (SUS304)
Heavy Load	CFFAG	-	SUJ2	1 Hex Nut (S45C Carbon Steel, Black Oxide)

Full Roller for Heavy Load.

No grease hole is provided.
Operating Temp.: 80°C or lower

Part Number		D (Selectable)	MxPitch	B	B ₁	L	l	r	f (Min.)	H	Unit Price					
Type	dh7 Tolerance										CFFA	CFFAS	CFFAG	CFA	CFFAS	
(With Seal)	3	0 -0.01	10	3x0.5	7	8	17	5	0.3	6.8	2 (1.5)					
	4	0 -0.012	12	4x0.7	8	9	20	6	0.5	8.6	2.5 (2)					
	5	0 -0.012	13	5x0.8	9	10	23	7.5		9.7	3 (2.5)					
	6	0 -0.015	16	6x1.0	11	12	28	9		11	3					
(No Seal)	8	0 -0.015	19	8x1.25	12	13	36	13	1	15	5					
	10	0 -0.015	26	10x1.25	12	13	36	13	1	15	5					

⚠ The standards of d12 to 20 have been modified to those with the hex socket on the head and thread. For the new part number, see P.1044. ⚠ Dimensions in () are for Stainless Steel Type.

Table 1: Reference Data of Cam Followers

d-D	General						Heavy Load								
	Basic Dynamic Load Rating C (kN)	Basic Static Load Rating Cor (kN)	Max. Allowable Load (kN)	Track Load Capacity (kN)		Max. Rotational Speed (rpm)	Basic Dynamic Load Rating C (kN)	Basic Static Load Rating Cor (kN)	Max. Allowable Load (kN)	Track Load Capacity (kN)		Rotational Speed Limit (with Seal) (rpm)	Mass (g)		
				Crowned	Flat					Crowned	Flat				
3-10	1.47	1.18	0.36	0.37	1.37	32900	47000	4.5	-	-	-	-	-		
4-12	2.06	2.05	0.78	0.47	1.76	25900	37000	7.5	-	-	-	-	-		
5-13	3.14	2.77	1.42	0.53	2.25	20300	29000	10.5	-	-	-	-	-		
6-16	3.59	3.58	2.11	1.08	3.43	17500	25000	18.5	6.94	8.50	2.11	1.08	3.43	4400	19
8-19	4.17	4.65	4.73	1.37	4.02	14000	20000	28.5	8.13	11.20	4.73	1.37	4.02	3480	29
10-22				1.67	4.70			45	9.42	14.30	5.81	1.67	4.70		46
10-26	5.33	6.78	5.81	2.06	5.49	11900	17000	60	9.42	14.30	5.81	2.06	5.49	2880	61
12-30				2.45	7.06			95(105)	13.40	19.80	9.37	2.45	7.06		107
12-32	7.87	9.79	9.37	2.74	7.45	9800	14000	105(115)	13.40	19.80	9.37	2.74	7.45	2320	117
16-35	12.0	18.30	17.30	3.14	11.2	7000	10000	170(205)	20.60	37.60	17.30	3.14	11.20	1800	207
18-40	14.7	25.2	26.1	3.72	14.4	5950	8500	250(295)	-	-	-	-	-	-	-
20-52	20.7	34.8	32.1	8.23	23.2	4900	7000	460(525)	-	-	-	-	-	-	-

⚠ () is the weight of Hex Socket on Head and Thread. ⚠ kgf=Nx0.101972

Ordering Example: Part Number - D
CFUAS10 - 22

Features: Hex socket and grease fitting are mounted on both the head and thread part. You can secure it from either head or thread side using a hex wrench. Greasing is possible from both directions.

■ Crowned

Application	Type		Material	Accessory
	With Seal	No Seal		
General	CFUH	CUH	SUJ2	1 Hex Nut (S45C Carbon Steel, Black Oxide)
Low Dust Generation	CFUSH	CUSH	SUS440C Equivalent	Hex Nut 1 pc. (SUS304)
Heavy Load	CFUGH	-	SUJ2	1 Hex Nut (S45C Carbon Steel, Black Oxide)

Grease Fitting

Operating Temp.: 80°C or lower

Part Number		D (Selectable)	MxPitch	B	B ₁	L	d ₁	l	l ₁	r	f (Min.)	H	Mass (g)	Max. Tightening Torque (N • cm)	Unit Price				
Type	dh7 Tolerance														CFUH	CFUSH	CFUCH	CFUGH	CUH
(With Seal) CFUH CFUSH CFUCH CFUGH (No Seal) CUH CUSH	12	0 -0.018	30	12x1.5	14	15	40	14	6	1.5	20	6	105(107)	29.4					
			32				115(117)												
	16	0 -0.018	35	16x1.5	18	19.5	52	18	8	1.5	24	6	205(207)	70.6					
			40				295(300)						98						
	18	0 -0.018	47	18x1.5	20	21.5	58	20	9	1.5	36	8		450(455)	137				
			52				525(530)						245						
	20	0 -0.021	62	20x1.5	24	25.5	66	22	11	1.5	40	8		915(925)	480				
			72				1150(1160)						480						
	24	0 -0.021	80	24x1.5	29	30.5	80	25	15	2	46	8		1880(1890)	480				
			85				1950(1960)						480						
30			90	30x1.5	35	37	100	32	15	2	46	2000(2010)		480					

⚠ For the performance of Cam Followers, see Table 1 on P.1043.

Ordering Example: Part Number - D
CFUH20 - 52

Part Number Substitution Table for Cam Follower Standard Changes (D30~40,52 only)

Type	Old Part Number (D30~40,52)			New Part Number
	Old Standard	Old Hex Socket Type	Old Hex Socket on Thread	
Cam Followers	CFUR	CFUA	CFUB	CFUH
	CFURS	CFUAS	-	CFUSH
	CFURC	CFUAC	-	CFUCH
	-	CFUAG	-	CFUGH
	CFU	CUA	-	CUH
	CFUS	CUAS	-	CUSH
	CFFR	CFFA	CFFB	CFFH
	CFFRS	CFFAS	-	CFFSH
	CFFRC	CFFAC	-	CFFCH
	-	CFFAG	-	CFFGH
	CFR	CFA	-	CFAH
	CFRS	CFAS	-	CFASH