


Guide Followers / Solid Eccentric Cam Followers

Miniature Cam Followers

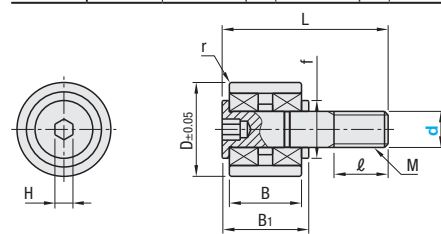
■ **Features:** Ball bearing-combined products used for transfers and guiding.

■ **Guide Followers**

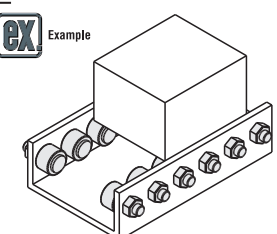


RoHS 10

Application	Type	Material		Accessory
		External Parts	Internal Parts (Bearing)	
General	GFR	EN 1.4029 Equiv.	EN 1.3505 Equiv.	Hex Nut 1 pc. (EN 1.4301 Equiv.)



Example




⊗ Operating Temp.: 80°C or lower

Part Number	Type	d Tolerance	D	MxPitch	B	B ₁	L	ℓ	r	f (Min.)	H	Basic Load Rating		Allowable Rotational Speed (rpm)	Mass (g)	Unit Price
												C (Dynamic) kN	Cor (Static) kN			
GFR	3	-0.007 -0.015	10	3x0.5	8.5	9.5	17	5	0.2	6.8	1.5	0.840	0.268	52000	5	
	4		12	4x0.7	9	11	20	6	0.4	7.8	2	1.065	0.405	38000	8	
	5		13	5x0.8	10	12	23	7.5		10.8	3	1.620	0.660	30000	18	
	6		16	6x1.0	12	14	28	9		13.8	4	2.415	1.065	24000	28	
	8		19	8x1.25	16	16	32	11								

Ordering Example
Part Number: **GFR6**

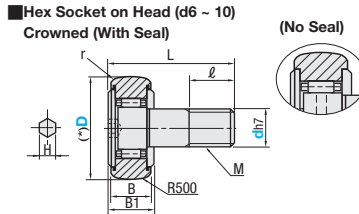
■ **Solid Eccentric Cam Followers With Hex Socket**



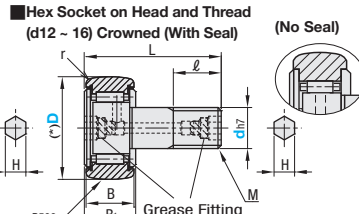
RoHS 10

Shape	Type				Material	Accessory	D	Tolerance
	Hex Socket on Head (d6 ~ 10)	Hex Socket on Head and Thread (d12 ~ 16)	No Seal	With Seal				
Crowned	CUAP	CFUAP	CUAPH	CFUAPH	EN 1.3505 Equiv.	Hex Nut 1 pc. (EN 1.1191 Equiv., Black Oxide)	16	0 -0.008
Flat	CFAP	CFFAP	CFAPH	CFFAPH			19-30	0 -0.009
							32, 35	0 -0.011

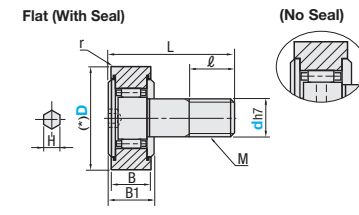
■ **Hex Socket on Head (d6 ~ 10) Crowned (With Seal)**



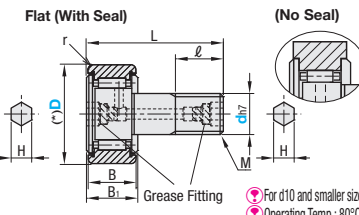
(No Seal)



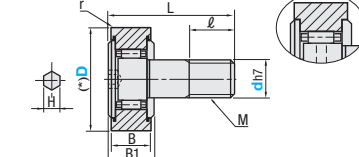
■ **Hex Socket on Head and Thread (d12 ~ 16) Crowned (With Seal)**



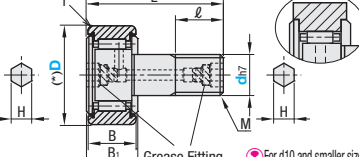
(No Seal)



■ **Hex Socket on Head (d6 ~ 10) Flat (With Seal)**



(No Seal)



■ **Hex Socket on Head and Thread (d12 ~ 16) Flat (With Seal)**

(No Seal)

⊗ Operating Temp.: 80°C or lower

Part Number	Type	dh7 Tolerance	D Selectable	MxPitch	ℓ	B	B ₁	L	r	f (Min.)	H	e (Eccentricity)	Unit Price							
													CFUAP	CFFAP	CUAP	CFAP	CFUAPH	CFFAPH	CUAPH	CFAPH
(With Seal) CFUAP CFFAP	6	0 -0.012	16	6x1.0	9	11	12	28	0.5	11	3	0.25	-	-	-	-	-	-		
	8	0 -0.015	19	8x1.25	11	13	14	32	0.5	13	4	0.3	-	-	-	-	-	-		
(No Seal) CUAP CFAP	10	0 -0.015	22 26	10x1.25	13	12	13	36	1	15	5	0.3	-	-	-	-	-	-		
	12	0 -0.018	30 32	12x1.5	14	14	15	40	1.5	20	6	0.4	-	-	-	-	-	-		
(No Seal) CUAPH CFAPH	16	0 -0.018	35	16x1.5	18	18	19.5	52	2.4	24	8	0.5	-	-	-	-	-	-		


⊗ The standards of d12, 16 have been modified to those with the hex socket on the head and thread. ⊗ For the performance of Cam Followers, Table 1 on P.1043.

Ordering Example
Part Number: **CUAP8 - 19**

Part Number Substitution Table for Cam Follower Standard Changes (d12, 16)

Seal	Material	Crowned / Flat	Old Part Number (Hex Socket on Head)	New Part Number (Hex Socket on Head and Thread)
With Seal	EN 1.3505 Equiv.	Crowned	CFUAP	CFUAPH
		Flat	CFFAP	CFFAPH
No Seal	EN 1.3505 Equiv.	Crowned	CUAP	CUAPH
		Flat	CFAP	CFAPH

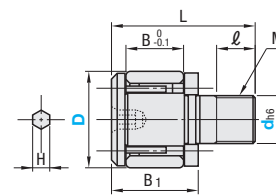
■ **Miniature Cam Followers**



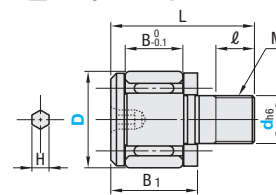
RoHS 10

Application	Type	Material		Accessory
		External Parts	Internal Parts (Bearing)	
General	CFFAN CFFAM	EN 1.3505 Equiv. (Stud: EN 1.7242 Equiv.)	EN 1.3505 Equiv.	1 Hex Nut (EN 1.1191 Equiv. Carbon Steel, Black Oxide)
Low Dust Generation	CFFAMC	EN 1.4125 Equiv.	EN 1.3505 Equiv.	Hex Nut 1 pc. (EN 1.4301 Equiv.)
Heavy Load	CFFANG CFFAMG	EN 1.3505 Equiv. (Stud: EN 1.7242 Equiv.)	EN 1.4125 Equiv.	1 Hex Nut (EN 1.1191 Equiv. Carbon Steel, Black Oxide)

■ **General, Low Particle Generation**



■ **Heavy Load Full Roller for Heavy Load**



Note: Thread diameter of Miniature Cam Follower is small. To prevent damage, use torque wrench and secure within the maximum tightening torque. (Please note that the maximum tightening torque for a miniature cam follower is about one-fourth of that of the conventional equivalents.)

■ **General, Low Particle Generation**

Part Number	Type	dh6 Tolerance	D Selectable	MxPitch	ℓ	B	B ₁	L	H	Basic Load Rating				Max. Allowable Load (N)	Track Load Capacity (N)	Max. Rotational Speed (rpm)	Mass (g)	Max. Tightening Torque (N·cm)	Unit Price			
										Cr (Dynamic) N	Cor (Static) N	Steel	Stainless Steel						Steel	Stainless Steel	Steel	Stainless Steel
CFFAN (General, Steel)	2.5	0 -0.006	5	2.5x0.45	2.5	3	4.5	9.5	0.9	0.9	410	350	335	285	285	285	3360	1	16			
	3	0 -0.006	6	3x0.5	3	4	5.5	11.5	1.5	1.3	630	565	610	525	525	470	2800	2	28			
CFFAM (General)	4	0 -0.008	8	4x0.7	4	5	7	15	2	1.5	1080	915	1080	915	915	795	2100	4	64			
	5	0 -0.008	10	5x0.8	5	6	8	18	2.5	2	1570	1340	1860	1400	1400	1210	1680	7	125			
CFFAMC (Low Dust Generation)	6	0 -0.008	12	6x1.0	6	7	9.5	21.5	3	2.5	2060	1880	2160	2040	2040	1700	1400	13	226			

■ **Heavy Load (Full Rollers)**

Part Number	Type	dh6 Tolerance	D Selectable	MxPitch	ℓ	B	B ₁	L	H	Basic Dynamic Load Rating				Max. Allowable Load (N)		Track Load Capacity (N)		Max. Rotational Speed (rpm)	Mass (g)	Max. Tightening Torque (N·cm)	Unit Price		
										Cr (Dynamic) N	Cor (Static) N	Steel	Stainless Steel	Steel	Stainless Steel	Steel	Stainless Steel				Steel	Stainless Steel	CFFANG
CFFANG (Heavy Load)	2.5	0 -0.006	5	2.5x0.45	2.5	3	4.5	9.5	0.9	0.9	1000	665	1080	410	260	410	300	285	2000	1	16		
	3	0 -0.006	6	3x0.5	3	4	5.5	11.5	1.5	1.3	1370	1020	1770	590	360	590	480	470	1680	2	28		
CFFAMG (Heavy Load)	4	0 -0.008	8	4x0.7	4	5	7	15	2	1.5	2350	1680	3040	1050	780	1050	770	795	1260	4	64		
	5	0 -0.008	10	5x0.8	5	6	8	18	2.5	2	3140	2520	4710	1640	1420	1640	1180	1210	1000	7	125		
6	0 -0.008	12	6x1.0	6	7	9.5	21.5	3	2.5	4610	3400	6270	2360	2110	2360	1540	1700	840	13	226			

Ordering Example
Part Number: **CFFAM2.5 - 5**