


Resin Cam Followers

Standard Type

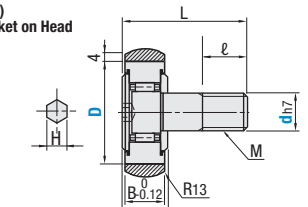
Features: Resin is pressed onto the outer ring of the cam follower.



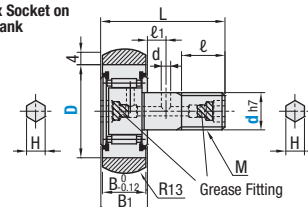
Type		Seal	Material		Accessories
(d5 ~ 10) Hex Socket on Head	(d12, 16) Hex Socket on Head and Shank		Resin	Cam Followers	
CFFRUDS	CFRUH	Provided	MC Nylon	52100 Bearing Steel	1 Hex Nut (1045 Carbon Steel or Equivalent Carbon Steel, Black Oxide)
CFFRUDSS	CFRUSH			440C Stainless Steel or Equivalent	1 Hex Nut (304 Stainless Steel)

Operating Temperature 50°C or less (Reference)

(d5 ~ 10) Hex Socket on Head




(d12, 16) Hex Socket on Head and Shank



Part Number		D Selectable	MxPitch	B	B ₁	L	d	L ₁	H	Allowable Load (N)	Allowable Rotational Speed (rpm)	Mass (g)	Available Types			
Type	d _{h7} Tolerance												CFFRUDS	CFFRUDSS	CFRUH	CFRUSH
(Hex Socket on Head) CFFRUDS CFFRUDSS	5	0	13	5x0.8	9	10	23	7.5	3	88	2520	13	•	•	—	—
	6	-0.012	16	6x1.0	11	12	28	9		112	2210	22	•	•	—	—
	8	0	19	8x1.25	11	12	32	11		122	1960	33	•	•	—	—
	10	-0.015	22	10x1.25	12	13	36	13		120	1760	50	•	•	—	—
(Hex Socket on Head and Shank) CFRUH CFRUSH	12	0	30	12x1.5	14	15	40	3	6	156	1390	95	—	—	•	•
	16	-0.018	32	16x1.5	18	19.5	52	18		150	1320	113	—	—	•	•
	12	0	30	12x1.5	14	15	40	3		150	1320	113	—	—	•	•
	16	-0.018	35	16x1.5	18	19.5	52	18		192	1230	181	—	—	•	•

- Values of allowable load are values when speed = 10km/h.
- For Standard Type, resin expands and may come off easily in high temperature. Avoid storing in high temperature.
- For Hex Socket on Head, no grease replenishing hole is provided.
- The standards of d12, 16 has been modified to those with the hex socket on the head and thread.

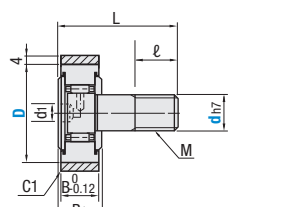
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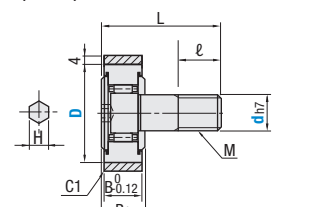
Type		Seal	Material		Accessories
(d5~10) Straight Slot	(d12, 16) Hex Socket on Head and Shank		Resin	Cam Followers	
CFFRUC	CFFRUCS	Provided	MC Nylon	52100 Bearing Steel	1 Hex Nut (1045 Carbon Steel or Equivalent Carbon Steel, Black Oxide)
—	CFFRUCSS			440C Stainless Steel or Equivalent	1 Hex Nut (304 Stainless Steel)

Operating Temperature 50°C or less (Reference)

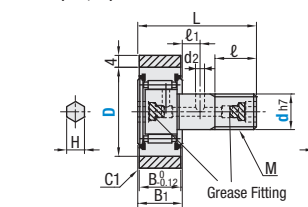
(d5 ~ 10) Straight Slot



(d5 ~ 10) Hex Socket on Head



(d12, 16) Hex Socket on Head and Shank



Part Number		D Selectable	MxPitch	B	B ₁	L	d ₁	d ₂	L ₁	H	Allowable Load (N)	Allowable Rotational Speed (rpm)	Mass (g)	Available Types				
Type	d _{h7} Tolerance													CFFRUC	CFFRUCS	CFFRUCSS	CFRUH	CFRUSH
(Straight Slot) CFFRUC	5	0	13	5x0.8	9	10	23	3.1	3	88	2520	13	•	•	•	—	—	
	6	-0.012	16	6x1.0	11	12	28	9		112	2210	22	•	•	•	—	—	
	8	0	19	8x1.25	11	12	32	11		122	1960	33	•	•	•	—	—	
	10	-0.015	22	10x1.25	12	13	36	13		120	1760	50	•	•	•	—	—	
(Hex Socket on Head and Shank) CFRUH CFRUSH	12	0	30	12x1.5	14	15	40	—	6	156	1390	95	—	—	•	•		
	16	-0.018	32	16x1.5	18	19.5	52	3		150	1320	113	—	—	•	•		
	12	0	30	12x1.5	14	15	40	—		150	1320	113	—	—	•	•		
	16	-0.018	35	16x1.5	18	19.5	52	18		192	1230	181	—	—	•	•		

- Values of allowable load are values when speed = 10km/h.
- For Standard Type, resin expands and may come off easily in high temperature. Avoid storing in high temperature.
- For Straight Slot, grease hole is provided on the head only. For Hex Socket on Head, no grease replenishing hole is provided.
- The standards of d12, 16 has been modified to those with the hex socket on the head and thread.


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Part Number Example: CFFRUC12 - 32

Resin Cam Followers

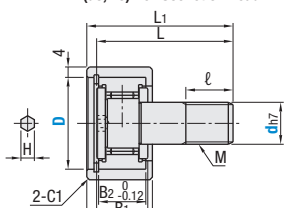
Flat Type

Features: After plastic is press-fit into the outer ring of cam follower, the sleeve is retained by retaining ring.

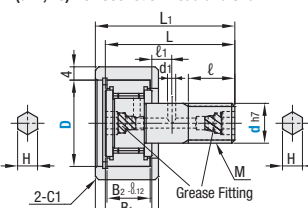


Type		Material		Seal	Accessories
(d8, 10) Hex Socket on Head	(d12, 16) Hex Socket on Head and Shank	Resin	Cam Followers		
CFFRUCT	CFFUHW	MC Nylon	52100 Bearing Steel	Provided	1 Hexagon Nut (1045 Carbon Steel or Equivalent, Black Oxide)
CFFRUCTS	CFFUSHW		440C Stainless Steel or Equivalent		1 Hexagon Nut (304 Stainless Steel)

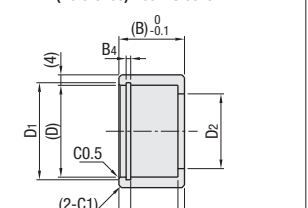
(d8, 10) Hex Socket on Head



(d12, 16) Hex Socket on Head and Shank



(Reference) Resin Sleeve



Values of allowable load are values when speed = 10km/h. For Hex Socket on Head, no grease replenishing hole is provided. The standards of d12, 16 has been modified to those with the hex socket on the head and thread.

Part Number		D Selection	M x Pitch	I	B	B ₁	B ₂	B ₃	B ₄	Tolerance	D ₁	Tolerance	D ₂	L	L ₁	d ₁	d ₂	I ₁	H	Allowable Load (N)	Allowable Rotational Speed (rpm)	Mass (g)	Available Types					
Type	d _{h7} Tolerance																						CFFRUCT	CFFRUCTS	CFFUHW	CFFUSHW		
Hex Socket on Head CFFRUCT CFFRUCTS	8	0	19	8 x 1.25	11	17	12	11	3.5	+0.08 0	20	+0.15	16	32	35	4	—	—	—	518	1960	35	•	•	—	—		
	10	-0.015	22	10 x 1.25	13	18	13	12	3.5		23	0	18	36	39					4	5	594	1760	53	•	•	—	—
	10	-0.015	26	10 x 1.25	13	18	13	12	3.5		27.2	+0.20 0	28.5	40	44					—	—	6	637	1560	71	•	•	—
Hex Socket on Head and Shank CFFUHW CFFUSHW	12	0	30	12 x 1.5	14	21	15	14	4.5	+0.10 0	31.4	+0.25 0	23.5	40	44	3	8	—	—	499	1390	100	—	—	•	•		
	16	-0.018	32	16 x 1.5	18	26	19.5	18	5.5		33.7	0	28.5	52	56.75					6	6	513	1320	119	—	—	•	•
	16	-0.018	35	16 x 1.5	18	26	19.5	18	5.5		37	0	28.5	52	56.75					—	—	8	686	1230	187	—	—	•

Part Number Example: CFFRUCT10 - 26

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Resin Cam Followers - Resin Sleeve Retention Test

Test data when a load is applied from the upper part of the cam follower at a constant speed. Loads when the plastic sleeves come off more than 0.5 mm are shown. Travel distance is (speed ≤ 4.5 km/h) = 1 km, (speed > 4.5 km/h) = 2 km. Overloading, rotary speed and unbalanced load may cause a plastic sleeve to come off. *Data below are for reference, not guaranteed.

Press Fitting Load

Room Temperature: 21°C θx = 0°, θy = 0°

Type	d	D Selectable	I	Speed km/h					
				1.8	3.6	4.5	5	6	10
CFFRUC CFFRUCS CFFRUCSS CFFRUDS CFFRUDSS	5	13	9	250	250	225	190	125	125
	6	16	11.5	300	300	250	220	180	160
	8	19	11.7	330	310	275	240	180	175
	10	22	14	350	325	300	265	195	185
	12	30	17.8	400	380	350	300	210	193
	16	35	20.5	450	420	350	320	260	240

Retaining Ring

Type	d	D	I	Speed km/h	
				10	10
CFFRUCT CFFRUCTS	8	19	14.2	576	576
	10	22	16.5	660	660
	12	30	20.3	708	708
	16	35	23	808	808

Material Properties

Item	Urethane	MC Nylon
Allowable Load	Acceptable	Good
Abrasion Resistance	Good	Acceptable
Mechanical Strength	Good	Excellent
Heat Resistance	Poor	Acceptable
Chemical Resistance	Poor	Good

For Urethane Cam Followers P:1080.

Testing Method Overview

