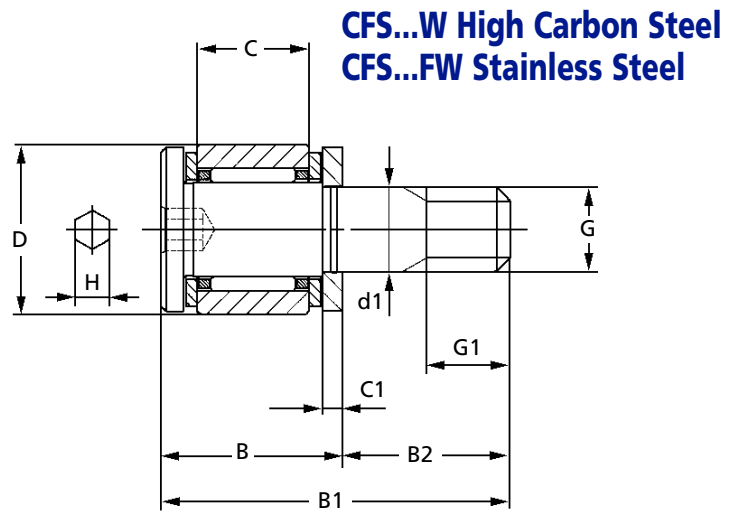


**CFS-W**  
**CFS-FW**

# BEARINGS

## Thrust Disc Type Miniature Cam Followers

Stud Diameter 2 - 6mm



**Discounts: 20+ -8.5%**

Part Number	Weight (Ref.) g	Mounting Dimension f Min. mm	Max. Tightening Torque N•m	Basic Dynamic Load Rating C N	Basic Static Load Rating C <sub>0</sub> N	Max. Allowable Load N
<b>CARBON STEEL</b>						
CFS2W	0.6	4.3	9.1	288	202	194
CFS2.5W	1.0	4.8	18.7	428	351	313
CFS3W	2.0	5.8	33.5	629	611	399
CFS4W	4.0	7.7	77.7	1120	1120	785
CFS5W	7.0	9.6	158.0	1570	1850	1370
CFS6W	13.0	11.6	268.0	2090	2200	1920

<b>STAINLESS STEEL</b>						
CFS2FW	0.6	4.3	9.1	230	161	161
CFS2.5FW	1.0	4.8	18.7	342	281	281
CFS3FW	2.0	5.8	33.5	504	488	399
CFS4FW	4.0	7.7	77.7	897	894	785
CFS5FW	7.0	9.6	158.0	1250	1480	1370
CFS6FW	13.0	11.6	268.0	1670	1760	1760

Part Number		d1 (h7) Stud Dia. mm	D	C	G	G1	B max.	B1 max.	B2	C1	H	Price Each 1 - 19	
Carbon Steel	Stainless Steel											Carbon Steel	Stainless Steel
CFS2W	CFS2FW	2.0	4.5	2.5	M2.0 x 0.40	2.0	4.5	8.5	4	0.7	0.9	£45.28	£67.16
CFS2.5W	CFS2.5FW	2.5	5.0	3.0	M2.5 x 0.45	2.5	5.0	10.0	5	0.7	0.9	£43.86	£65.40
CFS3W	CFS3FW	3.0	6.0	4.0	M3.0 x 0.50	3.0	6.5	12.5	6	0.7	1.3	£41.00	£61.04
CFS4W	CFS4FW	4.0	8.0	5.0	M4.0 x 0.70	4.0	8.0	16.0	8	1.0	1.5	£34.07	£50.65
CFS5W	CFS5FW	5.0	10.0	6.0	M5.0 x 0.80	5.0	9.0	19.0	10	1.0	2.0	£33.08	£49.00
CFS6W	CFS6FW	6.0	12.0	7.0	M6.0 x 1.00	6.0	10.5	22.5	12	1.2	2.5	£30.17	£44.61

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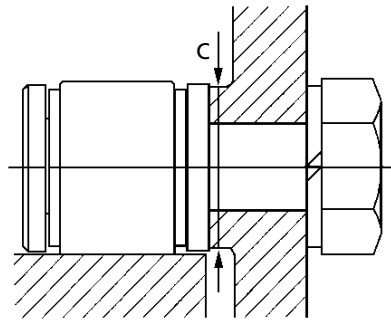
Product information updated 1st April 2011 and subject to change. Please contact Sales for the latest prices and availability.

# BEARINGS

**CFS-W**  
**CFS-FW**

## Thrust Disc Type Miniature Cam Followers

Stud Diameter 2 - 6mm



**Table 1: Track Capacity**

Type: metric series (§§) Cam Followers			
Part No.(§) With Crowned Outer Ring	Track Capacity N	Part No.(§) With Cylindrical Outer Ring	Track Capacity N
CF3R	542	CF3	1360
CF4R	712	CF4	1790
CF5R	794	CF5	2210
-	-	CFS2	220
-	-	CFS2.5	298
-	-	CFS3	485
-	-	CFS4	799
-	-	CFS5	1210
-	-	CFS6	1680

**Table 2: Track Capacity Factor**

Hardness HRC	Tensile Strength N/mm <sup>2</sup>	Track Capacity Factor	
		With Crowned Outer Ring	With Cylindrical Outer Ring
20	760	0.22	0.37
25	840	0.31	0.46
30	950	0.45	0.58
35	1080	0.65	0.75
38	1180	0.85	0.89
40	1250	1.00	1.00
42	1340	1.23	1.15
44	1435	1.52	1.32
46	1530	1.85	1.51
48	1635	2.27	1.73
50	1760	2.80	1.99
52	1880	3.46	2.29
54	2015	4.21	2.61
56	2150	5.13	2.97
58	2290	6.26	3.39

Track capacity is defined as the load which can be continuously applied on a Cam Follower placed on a steel track surface without causing deformation and indentation (dent) on the track surface. The track capacities shown in Table 1 are applicable when the hardness of the mating track surface differs from HRC40 (Tensile strength 1250N/mm<sup>2</sup>). When the hardness of the mating track surface differs from HRC40, the track capacity is obtained by multiplying the value with a track capacity factor shown in Table 2.

If lubrication between the outer ring and the mating track surface is insufficient, seizure and/or wear may occur depending on the application. Therefore, it is needed to pay attention to lubrication and surface roughness of the mating track especially in case of high speed rotation such as cam mechanisms.

**Allowable Rotational Speed** is affected by mounting and operating conditions. The  $d_1 \cdot n$  values in general operation under pure radial load are shown below for reference. It is recommended to use 1/10 of the table values in actual applications taking account of axial loads that may be applied.

**$d_1 \cdot n$  Values where  $d_1$  = Stud Diameter (mm) and  $n$  = Number of Rotations per minute (Rpm)**

**Max  $d_1 \cdot n$  Values** With cage Type = 84,000  $d_1 \cdot n$  (with grease lubricant); Full Complement Type = 42,000  $d_1 \cdot n$  (with grease lubricant)

### Material

CFS...W - High Carbon Steel all parts.

CFS...FW - Stainless Steel (hard similar to 440C) all parts.

### Other Info.

Stud designed to fit H7 housing.

### Notes

(§) Only representative types are shown in the table, but applicable to all types.