



myonic

EMC bearings

Attn Neville French

Hi Neville  
As promised – the full range of Pivot bearings

CF 270 & CF425 should be available in any quantity

All the rest – min order 10,000

But last time we tried a size, some of the tooling had disappeared , so you would have to be careful how you quote.

There are some other sizes not listed here for which we have some “black” stock – no traceability or liability. They are now becoming like Gold dust- so some money can be made occasionally.

Hope this helps

David

01727-899394

# Metric series

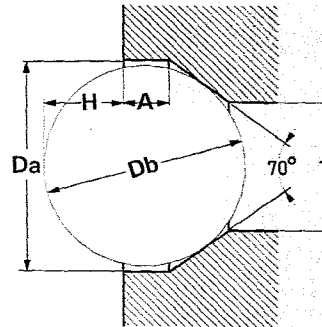
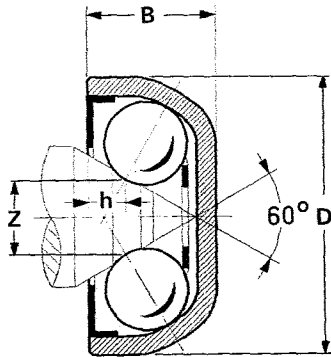
**C, CF  
P, PF**

# Angular contact bearing

**Pivot Type**  
self aligning  
for 60° tapered pivots

The pivots run directly on the balls, therefore the pivots should be made from carbon steel (1.2 to 1.5 % Cr) hardened and tempered to 62 Rockwell C. A highly polished ground 60° pivot greatly reduces rolling friction.

Pivots with a ground and polished ball track have increased load carrying capacity and resistance to wear.



Tolerances recommended for the housing, in  $\mu\text{m}$

$$Da: \begin{matrix} 0 \\ -10 \end{matrix}$$

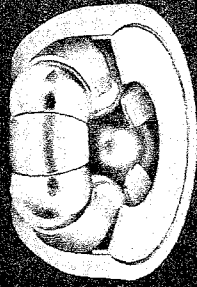
Da: diameter of housing

Db: ball diameter for controlling housing depth

Actual sizes	z mm	D mm	B mm	c mm	h mm	Db mm	H mm	A mm	T max mm	T min mm	Balls n x $\phi$ mm
—	0,13	1,10	0,70		0,23	1,00	0,12	0,46	0,80	0,50	3 x 0,397
	0,20	1,65	1,00		0,35	1,588	0,32	0,65	1,25	0,80	3 x 0,60
—	0,37	1,65	0,85	0,25	0,23	1,588	0,45	0,52	1,25	0,80	4 x 0,50
	0,37	2,70	1,50		0,45	2,65	0,82	0,85	2,10	1,40	3 x 1,00
—	0,73	2,70	1,35	0,40	0,35	2,65	1,02	0,65	2,10	1,40	5 x 0,794
	1,07	2,70	1,25	0,80	0,38	2,65	1,07	0,60	2,10	1,40	6 x 0,60
—	0,55	4,25	2,35		0,68	3,969	1,03	1,38	3,20	2,40	3 x 1,588
	1,13	4,25	2,05	0,75	0,55	3,969	1,33	1,08	3,20	2,40	5 x 1,25
—	1,56	4,25	1,95	1,00	0,57	3,969	1,43	0,98	3,20	2,40	6 x 1,00
	1,12	7,50	3,75		1,06	7,144	2,42	2,00	5,70	4,50	3 x 2,778
—	1,99	7,50	3,45	1,20	1,01	7,144	2,72	1,70	5,70	4,50	4 x 2,25
	3,15	7,50	3,25	2,00	1,15	7,144	2,92	1,50	5,70	4,50	6 x 1,588
—	1,60	10,75	5,35		1,42	10,00	2,97	3,10	8,00	6,70	3 x 3,969
	2,99	10,75	4,85	2,00	1,32	10,00	3,47	2,60	8,00	6,70	5 x 3,175
—	4,35	10,75	4,35	3,00	1,22	10,00	3,97	2,10	8,00	6,70	7 x 2,381

Tolerances of the angular contact bearings, in  $\mu\text{m}$

Diameter D $\leq$ 4,25 mm		Diameter D > 4,25 mm		Width B	
max	min	max	min	max	min
+40	0	+70	0	+40	0



<b>C</b> unbored cup		<b>CF</b> unbored cup		<b>P</b> bored cup		<b>PF</b> bored cup		Load ratings					
Reference		Reference		Reference		Reference		dynamic C		static Co			
N	lbs	N	lbs	N	lbs	N	lbs	N	lbs	N	lbs	N	lbs
C 1								1	0,22	0,7	0,15		
C 165								3	0,7	2	0,5		
		CF 165		P 165				6	1,3	2	0,5		
C 270								7	1,7	6	1,3		
		CF 270		P 270				17	3,8	6	1,3		
							PF 270	14	3,2	4	0,9		
C 425								22	5,0	15	3,4		
		CF 425		P 425				41	9,2	16	3,6		
							PF 425	35	7,9	12	2,7		
C 750								57	13	45	10		
		CF 750		P 750				98	22	39	8,7		
							PF 750	98	22	34	7,7		
C 1075								129	29	93	21		
		CF 1075		P 1075				235	53	98	22		
							PF 1075	235	53	78	18		

Heat treatment causes slight ovalisation of the cups (outer races) of these ball bearings. The tolerances of the outer diameters D are therefore fairly large. The ovalisation, which chiefly affects the cylindrical part of the cups, disappears when the bearings are pressed into perfectly round housings.