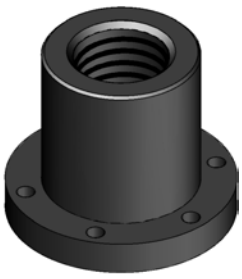
art.CFN

NYLON FLANGE NUTS TR10/40 in black polyacetal POM.C, FDA approved (R70 N/mm^2)

Material characteristics: ideal for quick movements, medium/low loads, possible dry uses, suitable for the food industry as the material is FDA approved. They are used with stainless steel threaded bars when oxidising problems need to be avoided, and if lightness is required we suggest using them with our "BFL" aluminium alloy threaded bars.
The nylon flange nuts are made by us in techno polymeric material **POM.C polyacetal in accordance with FDA standards (also suitable for contact with food).** It has very low friction coefficient, good wear resistance, non-aggressiveness towards the screw (even if in aluminium alloy), **and the possibility of working without lubrification if necessary.** Please note however that in sectors having lubrification difficulties, for example the food industry, it is possible to use specific lubricants as detailed in *Technical Catalogue GDM*. This type of nut (together with CCN and the CQN) is certainly the most suitable for **high speed transfer applications and can work at speeds about 20% faster than bronze but with a significantly lower load of about 75% less than bronze** (see maximum loads and speeds on pages 14-17 defined with bronze nuts).
The technical characteristics are similar to those for the nylon cylinder nuts as they are made with the same material. In our standard series of flange nuts they are certainly the most complete; the flange, of sufficient dimensions, has the double mechanical function of rendering it extremely easy to fit, with interchangeability, and at the same time , if mounted correctly with the flange sustaining the load, ensures that the perfect mechanical application also has the maximum stability; **Used vertically it is advisable to position it under the support table,** or else mounted with the flange above and adding a **Safety Flange FDS** (see pages 66-67) which, other than giving added support of the load, acts as an accessory to clean the thread profile. As illustrated in the diagram below it offers the complete lubrification and cleaning of screw thread profile and that of the nut by adding **Dust Cups BP** (see pages. 68-69) with the possibility of adding a flexible rubber protective cover for the screw.

The fields of application of these nuts, with aluminium alloy screws, where maximum lightness is needed is the aviation sector, or otherwise with threaded bars in stainless steel 304 and 316 respectively for the food and marine sectors, or with R50 standard steel screws in the most common sectors. This type of nut has received significant interest from designers of the more modern mechanical applications. The external dimensions, length, and the fixing holes are the same as the "normal series" CFB bronze flange nuts.



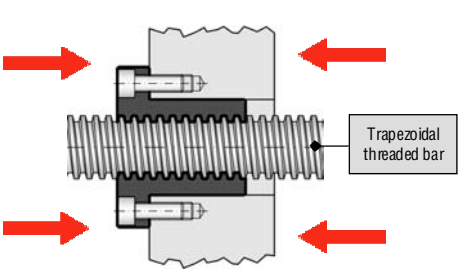
- **HORIZONTAL AND VERTICAL APPLICATION:**

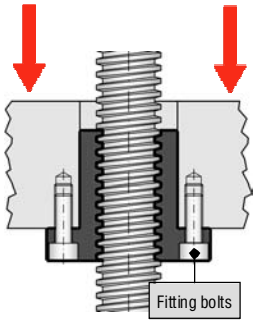
HORIZONTAL AND VERTICAL APPLICATION

VERTICAL USE
With medium load, flange correctly positioned below.

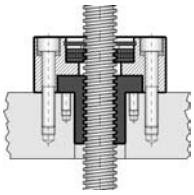
HORIZONTAL USE
in push and pull

GRAVITATIONAL PUSH OF THE LOAD

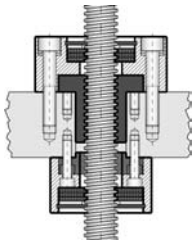




Vertical and **Horizontal** usage with medium load, nut positioned with flange above.



Application with Safety Flange **art.FDS**



Application with Safety Flange **art.FDS** and **Dust Cups art.BP**
(see technical description on pages. 66/69)

For lubricating we suggest a transversal hole on the support/threaded nut to take a grease nipple or a tube.
For the CFN with hole and lubrification channel see spares for the Excellent Light transmission group in Technical Catalogue GDM (www.bimeccanica.it)

BEFORE DECIDING ON THE TYPE OF NUT TO USE, SEE DRIVE TRANSMISSION GROUPS = TECNICAL CATALOGUE GDM (www.bimeccanica.it)

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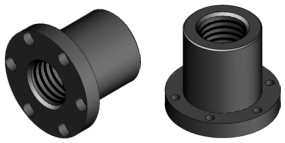
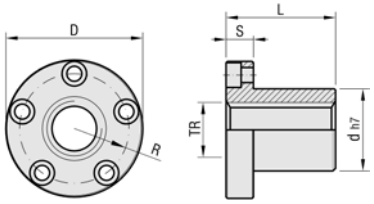
art.CFN NYLON FLANGE NUTS TR10/40 in black polyacetal POM.C, FDA approved (R70 N/mm²)





Available with lubrification channel and hole **art.CFN/L** see Excellent Light spares, **Technical Catalogue GDM**

	TRAPEZOIDAL THREAD 7H	CODE	ARTICLE	D $^{0}_{+0,2}$	d h7	L	NUMBER OF THREADS	S	R	SCREWS FOR FIXING	NUMBER OF HOLES	Dm min. ø MEDIO mm	Dm max ø MEDIO mm	WEIGHT Kg	TURNS & LOADS max
RIGHT THREAD (7H)	* TR 10x2	MQ102R	CFN TR 10x2 Dx	32	16	20	10	8	12	M4	3	9,00	9,25	0,010	SEE GENERAL PRODUCT GUIDE WITH BASIC THEORETICAL TABLE WITH REFENCE TO BRONZE PAGES. 14-17 (DYNAMIC LOAD = 1/4 OF BRONZE - SPEED +20% OF BRONZE)
	TR 10x3	MQ103R	CFN TR 10x3 Dx	32	16	20	6,7	8	12	M4	3	8,50	8,78	0,010	
	TR 12x3	MQ123R	CFN TR 12x3 Dx	35	18	22	7,3	8	13	M4	4	10,50	10,80	0,012	
	* TR 14x3	MQ143R	CFN TR 14x3 Dx	40	20	25	8,3	10	15	M5	4	12,50	12,80	0,018	
	TR 14x4	MQ144R	CFN TR 14x4 Dx	40	20	25	6,3	10	15	M5	4	12,00	12,35	0,018	
	TR 16x4	MQ164R	CFN TR 16x4 Dx	42	22	30	7,5	10	16	M5	4	14,00	14,35	0,022	
	TR 18x4	MQ184R	CFN TR 18x4 Dx	45	25	35	8,7	10	17,5	M5	4	16,00	16,35	0,028	
	TR 20x4	MQ204R	CFN TR 20x4 Dx	50	30	40	10	10	20	M5	5	18,00	18,35	0,040	
	* TR 22x5	MQ225R	CFN TR 22x5 Dx	50	30	40	8	10	20	M5	5	19,50	19,87	0,038	
	* TR 24x5	MQ245R	CFN TR 24x5 Dx	60	35	45	9	12	24	M6	5	21,50	21,90	0,065	
	TR 25x5	MQ255R	CFN TR 25x5 Dx	60	35	45	9	12	24	M6	5	22,50	22,90	0,070	
	* TR 26x5	MQ265R	CFN TR 26x5 Dx	60	35	45	9	12	24	M6	5	23,50	23,90	0,060	
	* TR 28x5	MQ285R	CFN TR 28x5 Dx	65	40	50	10	12	26,5	M6	5	25,50	25,90	0,080	
	TR 30x6	MQ306R	CFN TR 30x6 Dx	65	40	50	8,3	12	26,5	M6	5	27,00	27,45	0,085	
	* TR 32x6	MQ326R	CFN TR 32x6 Dx	65	40	50	8,3	12	26,5	M6	5	29,00	29,45	0,070	
	TR 35x6	MQ356R	CFN TR 35x6 Dx	75	50	60	10	12	31,5	M6	6	32,00	32,45	0,140	
	TR 36x6	MQ366R	CFN TR 36x6 Dx	75	50	60	10	12	31,5	M6	6	33,00	33,45	0,135	
	TR 40x7	MQ407R	CFN TR 40x7 Dx	80	55	65	9,3	12	34	M6	6	36,50	36,97	0,165	
LEFT THREAD (7H)	* TR 10x2 Sx	MQ102L	CFN TR 10x2 Sx	32	16	20	10	8	12	M4	3	9,00	9,25	0,010	
	TR 10x3 Sx	MQ103L	CFN TR 10x3 Sx	32	16	20	6,7	8	12	M4	3	8,50	8,78	0,010	
	TR 12x3 Sx	MQ123L	CFN TR 12x3 Sx	35	18	22	7,3	8	13	M4	4	10,50	10,80	0,012	
	* TR 14x3 Sx	MQ143L	CFN TR 14x3 Sx	40	20	25	8,3	10	15	M5	4	12,50	12,80	0,018	
	TR 14x4 Sx	MQ144L	CFN TR 14x4 Sx	40	20	25	6,3	10	15	M5	4	12,00	12,35	0,018	
	TR 16x4 Sx	MQ164L	CFN TR 16x4 Sx	42	22	30	7,5	10	16	M5	4	14,00	14,35	0,022	
	TR 18x4 Sx	MQ184L	CFN TR 18x4 Sx	45	25	35	8,7	10	17,5	M5	4	16,00	16,35	0,028	
	TR 20x4 Sx	MQ204L	CFN TR 20x4 Sx	50	30	40	10	10	20	M5	5	18,00	18,35	0,040	
	* TR 22x5 Sx	MQ225L	CFN TR 22x5 Sx	50	30	40	8	10	20	M5	5	19,50	19,87	0,038	
	* TR 24x5 Sx	MQ245L	CFN TR 24x5 Sx	60	35	45	9	12	24	M6	5	21,50	21,90	0,065	
	TR 25x5 Sx	MQ255L	CFN TR 25x5 Sx	60	35	45	9	12	24	M6	5	22,50	22,90	0,070	
	* TR 26x5 Sx	MQ265L	CFN TR 26x5 Sx	60	35	45	9	12	24	M6	5	23,50	23,90	0,060	
	* TR 28x5 Sx	MQ285L	CFN TR 28x5 Sx	65	40	50	10	12	26,5	M6	5	25,50	25,90	0,080	
	TR 30x6 Sx	MQ306L	CFN TR 30x6 Sx	65	40	50	8,3	12	26,5	M6	5	27,00	27,45	0,085	
	* TR 32x6 Sx	MQ326L	CFN TR 32x6 Sx	65	40	50	8,3	12	26,5	M6	5	29,00	29,45	0,070	
	TR 35x6 Sx	MQ356L	CFN TR 35x6 Sx	75	50	60	10	12	31,5	M6	6	32,00	32,45	0,140	
	TR 36x6 Sx	MQ366L	CFN TR 36x6 Sx	75	50	60	10	12	31,5	M6	6	33,00	33,45	0,135	
	TR 40x7 Sx	MQ407L	CFN TR 40x7 Sx	80	55	65	9,3	12	34	M6	6	36,50	36,97	0,165	

- **WARNING: WITHOUT SPECIFYING "R" or "L" AT THE END OF THE CODE AND "Dx" or "Sx" AT THE END OF THE ARTICLE THE NUT IS ALWAYS CONSIDERED TO BE RIGHT THREAD.**

* The items marked with an asterisk are less used, we suggest contacting our offices to check availability.

> **ON REQUEST**: Nylon flange nuts **with channel and lubrification hole** (sized as per spare parts for the "Excellent Light" transmission drive group, see Technical Catalogue GDM).

> **ON REQUEST**: Nylon flange nuts **with pitch, and external dimensions** different to those listed above.

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