art.CFA

STEEL FLANGE NUTS TR10/60 in 11SMnPb37 W.NR:1.0737 - R500 N/mm^2, (HB 120/200)

Material characteristics: ideal for slow speed positioning movements, with good lubrification.

The steel flange nuts are made by us from drawn bars h9/h11 in certificated R50 steel.

It is a much cheaper item than the bronze flange nut but with a more specific and limited field of use. Usable for manual movements but requiring good lubrification as the steel does not have the same anti-friction properties of bronze. The lubrification is a determining factor in achieving the best efficiency of this flange nut and hence we recommend viewing the lubricants in our *Technical Catalogue GDM* (www.bimeccanica.it). However, this product has great strength for load bearing especially in static positioning (see it's use in our stabilisers in *Technical Catalogue SLV*).

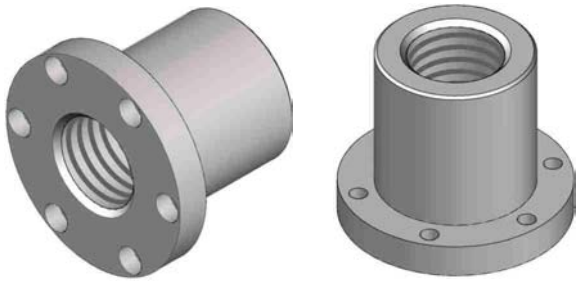
The technical characteristics, as described above, are similar to steel cylindrical nuts but given their shape are definitely more practical.

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, with medium and heavy loads, the flange must be positioned under the support table, or else mounted above adding a **Safety Flange FDS** (described in the following pages) which, other than giving additional support of the load, acts as an accessory to clean the thread profile.

As illustrated in the diagram below one can achieve lubrification and the complete cleaning of the 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.

By applying **nitriding treatment**, available on request, it is possible to give the "CFA" nut better wear resistance and make it smoother on contact but only if the screw has also been equally nitrided and that there is good lubrification. This solution is used by us in some of our "Levelling stabiliser" models shown in our *Technical Catalogue SLV*.

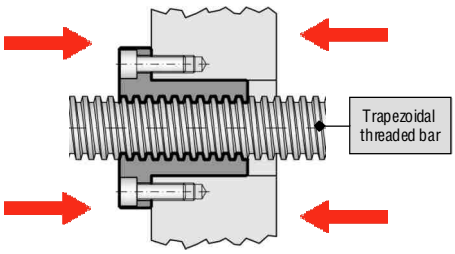


- **HORIZONTAL AND VERTICAL APPLICATION:**

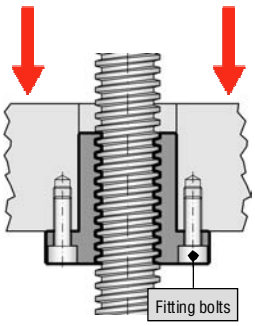
Cylindrical seat with mechanical fastening of the flange

VERTICAL USE
With medium/heavy load, flange correctly positioned below.

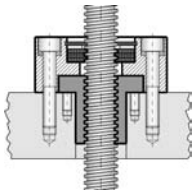
HORIZONTAL USE
in push and pull



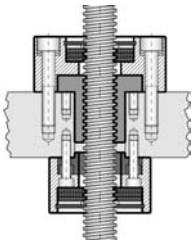
GRAVITATIONAL PUSH OF THE LOAD



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



Application with Safety Flange **art.FDS**

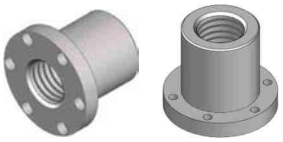


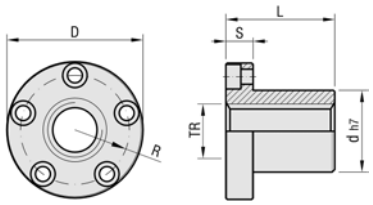
Application with Safety Flange **art.FDS** and **Dust Cups art.BP**
(see technical description on pages. 66/69)

For lubricating we suggest a transversal hole on the support/threaded nut to take a grease nipple or a tube.

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

art.CFA STEEL FLANGE NUTS TR10/60 in 11SMnPb37 W.NR:1.0737 - R500 N/mm^2, (HB 120/200)





	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	MF102R	CFA TR 10x2 Dx	32	16	20	10	8	12	M4	3	9,00	9,25	0,052	SEE GENERAL PRODUCT GUIDE WITH BASIC THEORETICAL TABLE WITH REFENCE TO BRONZE PAGES. 14-17 (STATIC LOAD SUPERIOR TO BRONZE - DYNAMIC LOAD & SPEED INFERIOR TO BRONZE)
	TR 10x3	MF103R	CFA TR 10x3 Dx	32	16	20	6,7	8	12	M4	3	8,50	8,78	0,052	
	TR 12x3	MF123R	CFA TR 12x3 Dx	35	18	22	7,3	8	13	M4	4	10,50	10,80	0,062	
	* TR 14x3	MF143R	CFA TR 14x3 Dx	40	20	25	8,3	10	15	M5	4	12,50	12,80	0,095	
	TR 14x4	MF144R	CFA TR 14x4 Dx	40	20	25	6,3	10	15	M5	4	12,00	12,35	0,095	
	TR 16x4	MF164R	CFA TR 16x4 Dx	42	22	30	7,5	10	16	M5	4	14,00	14,35	0,115	
	TR 18x4	MF184R	CFA TR 18x4 Dx	45	25	35	8,7	10	17,5	M5	4	16,00	16,35	0,150	
	TR 20x4	MF204R	CFA TR 20x4 Dx	50	30	40	10	10	20	M5	5	18,00	18,35	0,215	
	* TR 22x5	MF225R	CFA TR 22x5 Dx	50	30	40	8	10	20	M5	5	19,50	19,87	0,200	
	* TR 24x5	MF245R	CFA TR 24x5 Dx	60	35	45	9	12	24	M6	5	21,50	21,90	0,345	
	TR 25x5	MF255R	CFA TR 25x5 Dx	60	35	45	9	12	24	M6	5	22,50	22,90	0,340	
	* TR 26x5	MF265R	CFA TR 26x5 Dx	60	35	45	9	12	24	M6	5	23,50	23,90	0,330	
	* TR 28x5	MF285R	CFA TR 28x5 Dx	65	40	50	10	12	26,5	M6	5	25,50	25,90	0,440	
	TR 30x6	MF306R	CFA TR 30x6 Dx	65	40	50	8,3	12	26,5	M6	5	27,00	27,45	0,420	
	* TR 32x6	MF326R	CFA TR 32x6 Dx	65	40	50	8,3	12	26,5	M6	5	29,00	29,45	0,385	
	TR 35x6	MF356R	CFA TR 35x6 Dx	75	50	60	10	12	31,5	M6	6	32,00	32,45	0,720	
	TR 36x6	MF366R	CFA TR 36x6 Dx	75	50	60	10	12	31,5	M6	6	33,00	33,45	0,700	
	TR 40x7	MF407R	CFA TR 40x7 Dx	80	55	65	9,3	12	34	M6	6	36,50	36,97	0,860	
	TR 45x8	MF458R	CFA TR 45x8 Dx	85	60	80	10	12	36,5	M6	8	41,00	41,50	1,120	
	* TR 46x8	MF468R	CFA TR 46x8 Dx	85	60	80	10	12	36,5	M6	8	42,00	42,53	1,100	
	TR 50x8	MF508R	CFA TR 50x8 Dx	90	65	80	10	12	39	M6	8	46,00	46,53	1,220	
	TR 55x9	MF559R	CFA TR 55x9 Dx	100	70	95	10,6	15	42,5	M8	6	50,50	51,06	1,690	
	TR 60x9	MF609R	CFA TR 60x9 Dx	105	75	95	10,6	15	45	M8	6	55,50	56,06	1,810	
LEFT THREAD (7H)	* TR 10x2	MF102L	CFA TR 10x2 Sx	32	16	20	10	8	12	M4	3	9,00	9,25	0,052	
	TR 10x3	MF103L	CFA TR 10x3 Sx	32	16	20	6,7	8	12	M4	3	8,50	8,78	0,052	
	TR 12x3	MF123L	CFA TR 12x3 Sx	35	18	22	7,3	8	13	M4	4	10,50	10,80	0,062	
	* TR 14x3	MF143L	CFA TR 14x3 Sx	40	20	25	8,3	10	15	M5	4	12,50	12,80	0,095	
	TR 14x4	MF144L	CFA TR 14x4 Sx	40	20	25	6,3	10	15	M5	4	12,00	12,35	0,095	
	TR 16x4	MF164L	CFA TR 16x4 Sx	42	22	30	7,5	10	16	M5	4	14,00	14,35	0,115	
	TR 18x4	MF184L	CFA TR 18x4 Sx	45	25	35	8,7	10	17,5	M5	4	16,00	16,35	0,150	
	TR 20x4	MF204L	CFA TR 20x4 Sx	50	30	40	10	10	20	M5	5	18,00	18,35	0,215	
	* TR 22x5	MF225L	CFA TR 22x5 Sx	50	30	40	8	10	20	M5	5	19,50	19,87	0,200	
	* TR 24x5	MF245L	CFA TR 24x5 Sx	60	35	45	9	12	24	M6	5	21,50	21,90	0,345	
	TR 25x5	MF255L	CFA TR 25x5 Sx	60	35	45	9	12	24	M6	5	22,50	22,90	0,340	
	* TR 26x5	MF265L	CFA TR 26x5 Sx	60	35	45	9	12	24	M6	5	23,50	23,90	0,330	
	* TR 28x5	MF285L	CFA TR 28x5 Sx	65	40	50	10	12	26,5	M6	5	25,50	25,90	0,440	
	TR 30x6	MF306L	CFA TR 30x6 Sx	65	40	50	8,3	12	26,5	M6	5	27,00	27,45	0,420	
	* TR 32x6	MF326L	CFA TR 32x6 Sx	65	40	50	8,3	12	26,5	M6	5	29,00	29,45	0,385	
	TR 35x6	MF356L	CFA TR 35x6 Sx	75	50	60	10	12	31,5	M6	6	32,00	32,45	0,720	
	TR 36x6	MF366L	CFA TR 36x6 Sx	75	50	60	10	12	31,5	M6	6	33,00	33,45	0,700	
	TR 40x7	MF407L	CFA TR 40x7 Sx	80	55	65	9,3	12	34	M6	6	36,50	36,97	0,860	
	TR 45x8	MF458L	CFA TR 45x8 Sx	85	60	80	10	12	36,5	M6	8	41,00	41,50	1,120	
	* TR 46x8	MF468L	CFA TR 46x8 Sx	85	60	80	10	12	36,5	M6	8	42,00	42,53	1,100	
	TR 50x8	MF508L	CFA TR 50x8 Sx	90	65	80	10	12	39	M6	8	46,00	46,53	1,220	
	TR 55x9	MF559L	CFA TR 55x9 Sx	100	70	95	10,6	15	42,5	M8	6	50,50	51,06	1,690	
	TR 60x9	MF609L	CFA TR 60x9 Sx	105	75	95	10,6	15	45	M8	6	55,50	56,06	1,810	

- **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**: for sufficient quantities we can supply steel flange nuts **TR70x10** and **TR80x10.**

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

> **ON REQUEST**: Steel flange nuts **pitch, external dimensions and fixing holes** different to those listed above.

> **ON REQUEST**: Standard series Steel flange nuts with **nitriding treatment**.