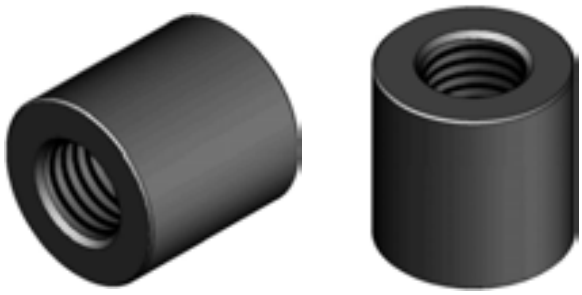
art.CCN

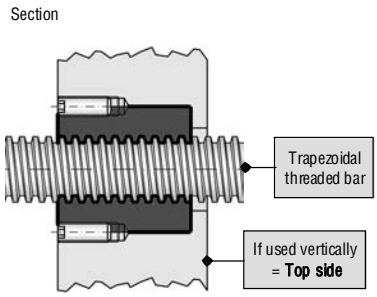
NYLON CYLINDRICAL NUT TR10/40 in black polyacetal POM.C, FDA approved , (R70 N/mm^2)

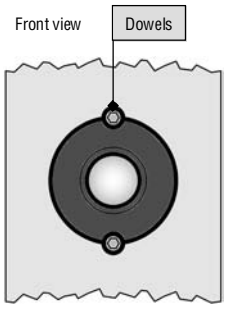
Material characteristics: The nylon cylindrical nuts are made by us in techno polymeric material **POM.C polyacetal in accordance with FDA standards** (also suitable for contact with food). It has a very low friction coefficient, good wear resistance, non-aggressiveness towards the screw (even if in 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 CFN 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 fields of application of these nuts, with aluminium alloy screws, are where maximum lightness is needed, in 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 above all in the more modern mechanical applications.
Their external dimensions, including their length, are the same as the bronze cylindrical nuts.



- **HORIZONTAL AND VERTICAL APPLICATION:**

FITTTING IN CYLINDRICAL SEAT USING DOWELS





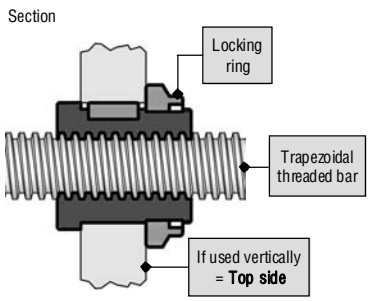
To use the cylindrical nut a hole has to be made in the base support to **K6 tolerance (or H7)** keying the nut and securing it with dowels as shown in the diagram. To choose the dowel diameter we recommend the following formula which has an accuracy of +/- 10%:

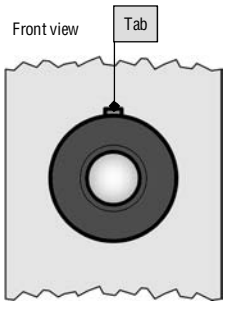
External diameter of nut "d" less thread diameter "TR" divided by 2: $\frac{(d - ØTR)}{2}$ **= M ..... Diameter of dowels**

When replacing the nut the new nut should be keyed and fitted in a new position being shifted by about 45° or 90° from the original position. By mounting the dowels of the said dimensions the nut is able to support the load in both directions (push and pull).

If the movement is for lifting it would be appropriate to mount the nut as shown in the diagram.

FITTING IN CYLINDRICAL SEAT BY MEANS OF TAB AND LOCKING RING

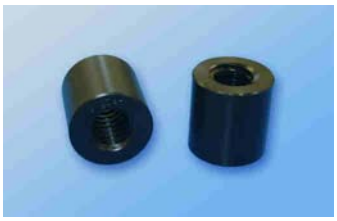


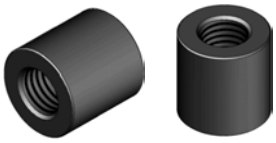


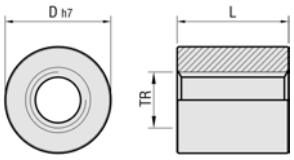
For lubricating we suggest a transversal hole on the support/threaded nut to take a grease nipple or a tube.
For the CCN nut with hole and lubrification channel see spares for the Compact Light transmission groups in Technical Catalogue GDM (www.bimeccanica.it)

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

art.CCN NYLON CYLINDRICAL NUT TR10/40 in black polyacetal POM.C, FDA approved, (R70 N/mm²)







Available with lateral slots, channel and lubrification hole **art.CCN/A** see Compact Light spares **Technical Catalogue GDM**

	TRAPEZOIDAL THREAD 7H	CODE	ARTICLE	D h9/h11	L	NUMBER OF THREADS	Dm min. Ø MEDIO mm	Dm max Ø MEDIO mm	WEIGHT Kg	TURNS & LOADS max
RIGHT THREAD (7H)	* TR 10x2	MR102R	CCN TR 10x2 Dx	20	20	10	9,00	9,25	0,008	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	MR103R	CCN TR 10x3 Dx	20	20	6,7	8,50	8,78	0,008	
	TR 12x3	MR123R	CCN TR 12x3 Dx	24	25	8,3	10,50	10,80	0,012	
	* TR 14x3	MR143R	CCN TR 14x3 Dx	24	25	8,3	12,50	12,80	0,012	
	TR 14x4	MR144R	CCN TR 14x4 Dx	24	25	6,3	12,00	12,35	0,012	
	TR 16x4	MR164R	CCN TR 16x4 Dx	28	30	7,5	14,00	14,35	0,020	
	TR 18x4	MR184R	CCN TR 18x4 Dx	34	35	8,7	16,00	16,35	0,035	
	TR 20x4	MR204R	CCN TR 20x4 Dx	38	40	10	18,00	18,35	0,050	
	* TR 22x5	MR225R	CCN TR 22x5 Dx	38	40	8	19,50	19,87	0,045	
	* TR 24x5	MR245R	CCN TR 24x5 Dx	44	45	9	21,50	21,90	0,075	
	TR 25x5	MR255R	CCN TR 25x5 Dx	44	45	9	22,50	22,90	0,070	
	* TR 26x5	MR265R	CCN TR 26x5 Dx	44	45	9	23,50	23,90	0,065	
	* TR 28x5	MR285R	CCN TR 28x5 Dx	48	50	10	25,50	25,90	0,095	
	TR 30x6	MR306R	CCN TR 30x6 Dx	48	50	8,3	27,00	27,45	0,090	
	* TR 32x6	MR326R	CCN TR 32x6 Dx	48	50	8,3	29,00	29,45	0,085	
	TR 35x6	MR356R	CCN TR 35x6 Dx	58	60	10	32,00	32,45	0,165	
	TR 36x6	MR366R	CCN TR 36x6 Dx	58	60	10	33,00	33,45	0,155	
	TR 40x7	MR407R	CCN TR 40x7 Dx	64	65	9,3	36,50	36,97	0,200	
LEFT THREAD (7H)	* TR 10x2 Sx	MR102L	CCN TR 10x2 Sx	20	20	10	9,00	9,25	0,008	
	TR 10x3 Sx	MR103L	CCN TR 10x3 Sx	20	20	6,7	8,50	8,78	0,008	
	TR 12x3 Sx	MR123L	CCN TR 12x3 Sx	24	25	8,3	10,50	10,80	0,012	
	* TR 14x3 Sx	MR143L	CCN TR 14x3 Sx	24	25	8,3	12,50	12,80	0,012	
	TR 14x4 Sx	MR144L	CCN TR 14x4 Sx	24	25	6,3	12,00	12,35	0,012	
	TR 16x4 Sx	MR164L	CCN TR 16x4 Sx	28	30	7,5	14,00	14,35	0,020	
	TR 18x4 Sx	MR184L	CCN TR 18x4 Sx	34	35	8,7	16,00	16,35	0,035	
	TR 20x4 Sx	MR204L	CCN TR 20x4 Sx	38	40	10	18,00	18,35	0,050	
	* TR 22x5 Sx	MR225L	CCN TR 22x5 Sx	38	40	8	19,50	19,87	0,045	
	* TR 24x5 Sx	MR245L	CCN TR 24x5 Sx	44	45	9	21,50	21,90	0,075	
	TR 25x5 Sx	MR255L	CCN TR 25x5 Sx	44	45	9	22,50	22,90	0,070	
	* TR 26x5 Sx	MR265L	CCN TR 26x5 Sx	44	45	9	23,50	23,90	0,065	
	* TR 28x5 Sx	MR285L	CCN TR 28x5 Sx	48	50	10	25,50	25,90	0,095	
	TR 30x6 Sx	MR306L	CCN TR 30x6 Sx	48	50	8,3	27,00	27,45	0,090	
	* TR 32x6 Sx	MR326L	CCN TR 32x6 Sx	48	50	8,3	29,00	29,45	0,085	
	TR 35x6 Sx	MR356L	CCN TR 35x6 Sx	58	60	10	32,00	32,45	0,165	
	TR 36x6 Sx	MR366L	CCN TR 36x6 Sx	58	60	10	33,00	33,45	0,155	
	TR 40x7 Sx	MR407L	CCN TR 40x7 Sx	64	65	9,3	36,50	36,97	0,200	

- **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 cylindrical nuts with **pitch, and external dimensions** different to those listed above.