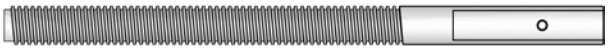
art.CVL **art.CVR**

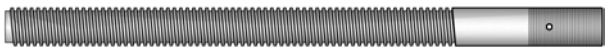
LOCKING WHEEL NUT "CVL" TR 16, 20, 25, 30 with trapezoidal thread (made from model Elesa VL.140 FP)
MOVEMENT HANDWHEEL NUT "CVR" TR 16, 20, 25, 30 with trapezoidal thread (made from model Elesa VR.FP)

The two wheel nuts are variants of the standard Elesa with a R50 steel hub, which is then given a trapezoidal thread.
These wheel nuts are covered in Duroplast, a phenolic-based (PF) reinforced material, which is very resistant to solvents, oils, fats and other chemical agents.
The use of these two products is recommended above all for lifting or positioning of sluices or similar devices, with use of the single **movement handwheel CVR** or combined with **locking wheel nut CVL** for locking the position.
For dynamic/manual and static loads the same goes as for the standard steel nuts and therefore we recommend following the Basic Theoretical Table on pages 14-17.
For outdoor use it is easy to protect the parts subject to oxidisation, by placing a cover over the protruding screw or (around and over the **CVL locking nut** if used), by using a plastic or stainless steel cover, that is closed at the top and covers the hub, and by applying abundant "marine" grease on the exposed screw thread below the handwheel (see diagram below). See technical information about lubricants in our *Technical Catalogue GDM* (www.bimeccanica.it).
This application can be considerably improved by using stainless steel trapezoidal screws in the forms shown below.
For applications that require a position reference we suggest using trapezoidal screws milled on one side **allowing for a metric tape to be applied** as shown in the diagram below. **The attachment of the trapezoidal screw** to the object to be moved can be oscillating, as shown in the diagram, or rigid with threaded shank and pinned to prevent unscrewing as shown in the image below.
An **anti-friction bush is supplied with the handwheel nut CVR** to be inserted in the support frame to protect the screw whilst also making handwheel turning easier (see table on opposite page for bush sizes).

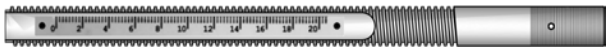


Trapezoidal screw with shank milled specially for oscillation

Trapezoidal screw with thread milled specially for oscillation and metric tape

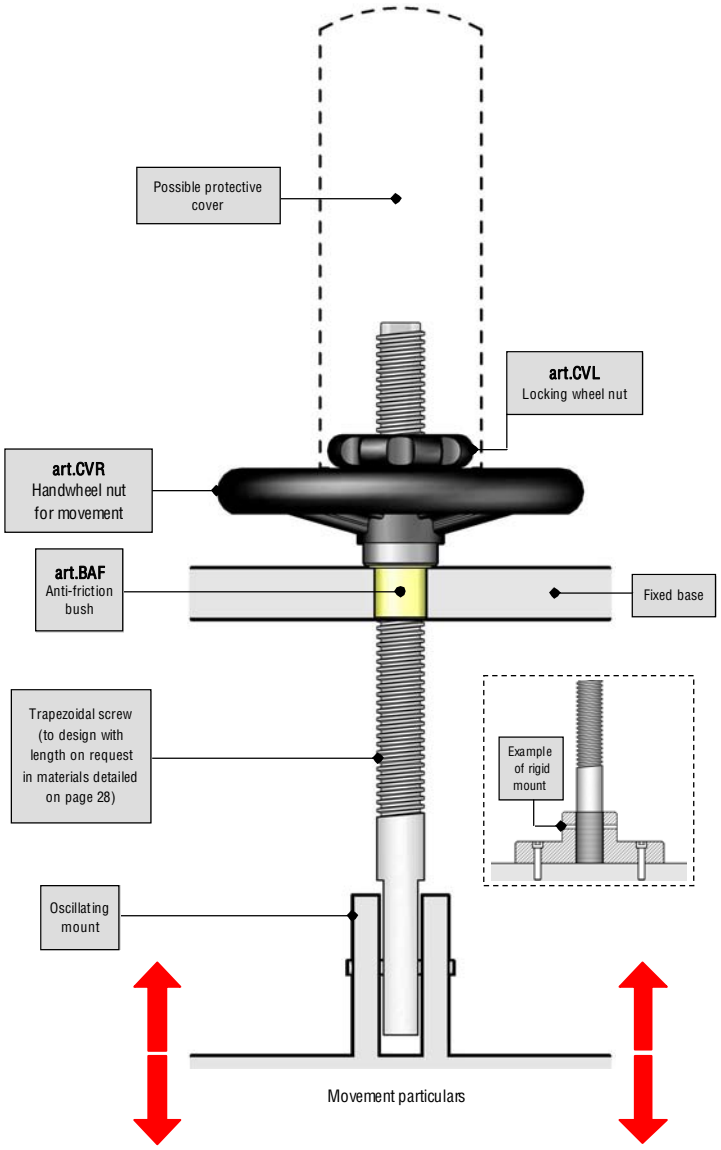


Trapezoidal screw with shank milled for rigid mounting

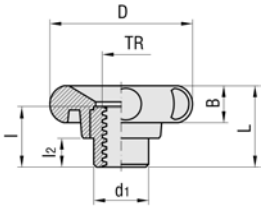


Trapezoidal screw with shank milled for rigid mounting and metric tape

Use in lifting with locking:



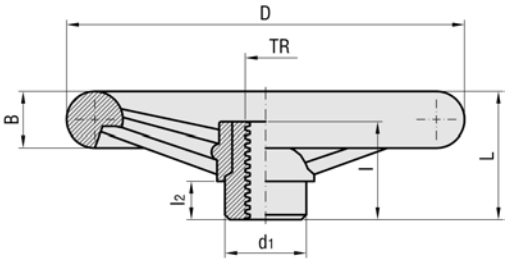
art.CVL LOCKING WHEEL NUT TR16, 20, 25, 30.



Product with right thread available from stock - left thread can be made on request for sufficient quantities.

TRAPEZOIDAL THREAD 7H	CODE	ARTICLE	D	L	NUMBER OF THREADS	B	d_1	l	l_2	Dm min. Ø AVERAGE mm	Dm max Ø AVERAGE mm	WEIGHT Kg
TR 16x4	A07L16	CVL.60A TR 16x4 Dx	61	30	5,8	16	25	23	11	14,00	14,35	0,130
TR 20x4	A07L20	CVL.70A TR 20x4 Dx	69	33	6,3	18	30	25	12	18,00	18,35	0,184
TR 25x5	A07L25	CVL.80A TR 25x5 Dx	82	40	6	19	35	30	15	22,50	22,90	0,310
TR 30x6	A07L30	CVL.100A TR 30x6 Dx	99	44	5,7	20	36	34	14	27,00	27,45	0,405

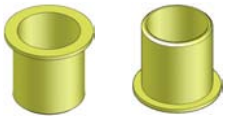
art.CVR MOVEMENT HANDWHEEL NUT TR16, 20, 25, 30.



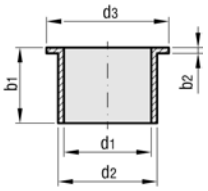
Product with right thread available from stock - left thread can be made on request for sufficient quantities.

TRAPEZOIDAL THREAD 7H	CODE	ARTICLE	D	L	NUMBER OF THREADS	B	d_1	l	l_2	Dm min. Ø AVERAGE mm	Dm max Ø AVERAGE mm	WEIGHT Kg
TR 16x4	A07R16	CVR.140 TR 16x4 Dx	139	47	9,5	20	32	38	15	14,00	14,35	0,390
TR 20x4	A07R20	CVR.180 TR 20x4 Dx	180	56	10,8	24	40	43	15	18,00	18,35	0,700
TR 25x5	A07R25	CVR.200 TR 25x5 Dx	198	56	8,6	24	40	43	15	22,50	22,90	0,750
TR 30x6	A07R30	CVR.250 TR 30x6 Dx	247	66	7,3	30	49	44	15	27,00	27,45	1,235

art.BAF ANTI-FRICTION BUSH



The handwheel movement nuts CVR are normally supplied with a **flanged anti -friction bush art.BAF** and the list below is for use when ordering spare parts.



FOR MOVEMENT HANDWHEEL CVR	CODE	ARTICLE	d_1	d_2	d_3	b_1	b_2	WEIGHT Kg
TR 16x4	10616	BAF - d16	16	18	24	17	1	0,002
TR 20x4	10620	BAF - d20	20	23	30	21,5	1,5	0,003
TR 25x5	10625	BAF - d25	25	28	35	21,5	1,5	0,005
TR 30x6	10630	BAF - d30	30	34	42	26	2	0,009