



BOLT TENSIONERS 1000 - 1500 BAR



FEATURES

EUROPRESS bolt tensioners are made of an hydraulic part with a supporting base (bridge) to which a threaded puller and a polygonal wrench in its various sizes may be added. This allows to cover a large number of tie rods and to optimize the number of bolt tensioners necessary. According to their technical characteristics, they differ as:

UTN series at 1000 bar, provide a traction force of about the 70% of the break point of a steel bolt grade 8.8 of the biggest size (value of max thread in the chart).

They are equipped with **K13M** coupler.

UTH series at 1000 bar, with most of these you can obtain a traction force equal to 70% of the yield stress of a steel bolt grade 10.9 of the maximum size (value of max thread in the chart).

They are equipped with **K13M** coupler.

UTV series at 1500 bar, that can develop a traction force of about the 70% of the break point of a steel bolt grade 10.9 of the biggest size (value of max thread in the chart).

They have reduced overall dimensions if referred to the 1000 bar series, due to their high working pressure. They are equipped with a **K15M** coupler, and have a second auxiliary hole (1/4" BSP) that can be joined with a quick coupler (to be ordered separately) for in line connections.

All tensioners are supplied with **tommy bar** to operate the threaded puller and the polygonal wrench.

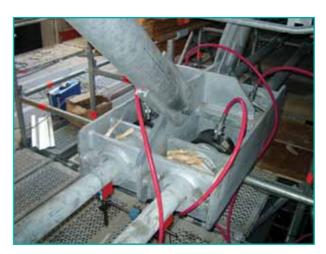
The gas nitriding treatment (Nitreg) provided to all steel of EUROPRESS products makes them particularly fit for working outside or in aggressive locations, thanks to their high resistance to corrosion.

APPLICATIONS

The big advantage of tensioning is given by the fact that it is possible to charge in advance a tie rod with the required load in an extremely precise manner, thus avoiding the force losses due to the frictions of the traditional torque tightening. Their great facility in use, the possibility to save time and staff and their precision are all factors that make this technique particularly useful in those sectors where a perfect coupling or flange tightness is essential for the safety of people and machinery.

In particular in the industrial and oil sectors and in all situations where it is necessary to tighten with extreme accuracy nuts or threaded tie rods.

They are widely used to tighten valves, pumps, heat exchangers, flanges, etc.



Tensioning system for roof's supporting structure while building the new Rome's Music Auditorium. On this job were used bolt tensioner cylinders specially manufactured from Euro Press Pack. (Rome Italy, 2001)



If you use a tensioning system where you choose to tension in various steps (50%, 33% or even 25% of the points) for space reasons, take care to alternate the tensioners and to locate them in opposite positions.



To operate in complete safety be careful that the threaded screw sticks out of the nut at least as much as the measure of the diameter of the tensioner.



The tensioner maximum capacity refers to its maximum working pressure; for smaller loads reduce the pressure in a proportional way.

UTN-UTH



BOLT TENSIONERS 1000 BAR

MATCHING CHART









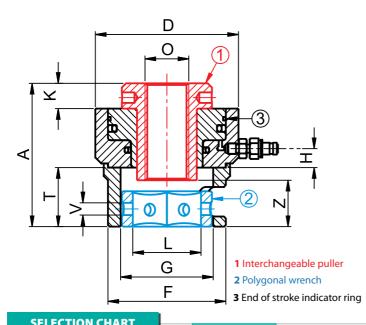
COMPLETE BOLT TENSIONER	Hydraulic part	Threaded puller	Polygonal wrench				
UTN4864M48		UTB484	UTC48				
UTN4864M56	UTN4864	UTB564	UTC56				
UTN4864M64		UTB644	UTC64				
UTN6476M64		UTB645	UTC64				
UTN6476M72	UTN6476	UTB725	UTC 72				
UTN6476M76		UTB765	UTC76				
UTN76100M76		UTB766	UTC76				
UTN76100M80	UTN76100	UTB806	UTC80				
UTN76100M90	011170100	UTB906	UTC90				
UTN76100M100		UTB1006	UTC100				

COMPLETE BOLT TENSIONER	Hydraulic part	Threaded puller	Polygonal wrench
UTH1624M16		UTB161	UTC16
UTH1624M20	UTH1624	UTB201	UTC20
UTH1624M24		UTB241	UTC24
UTH2739M27		UTB272	UTC27
UTH2739M30	UTH2739	UTB302	UTC30
UTH2739M36	U1H2/39	UTB362	UTC36
UTH2739M39		UTB392	UTC39
UTH3952M39		UTB393	UTC39
UTH3952M42	UTH3952	UTB423	UTC42
UTH3952M52		UTB523	UTC52
UTH4864M48		UTB484	UTC48
UTH4864M56	UTH4864	UTB564	UTC56
UTH4864M64		UTB644	UTC64
UTH6476M64		UTB645	UTC64
UTH6476M72	UTH6476	UTB725	UTC72
UTH6476M76		UTB765	UTC76
UTH76100M76		UTB766	UTC76
UTH76100M80	UTUTAL	UTB806	UTC80
UTH76100M90 UTH76100M100	UTH76100	UTB906	UTC90
		UTB1006	UTC100



UTN-UTH

TENSIONERS 1000 BAR





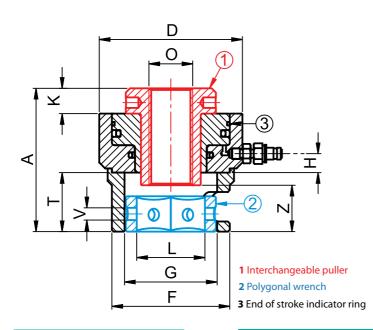
99 - 4369 kN	Force
15 mm	Stroke:
1000 bar	Max working pressure
M16 - M100	Threaded puller

SELECTION CHART																	
Operating force @ pressure		Screw	MODEL									Threaded puller	Polygonal wrench		Weight		
kN	bar	cm³	mm		Α	ØD	ØF	ØG	Н	Т	Z	K	0	L	ø۷	kg	
659	519		M48	UTN4864M48									M48 x 5	76			
909	715	191	M56	UTN4864M56	185	195	165	130	20	80	65	35	M56 x 5,5	86	12,5	24	
1198	942		M64	UTN4864M64									M64 x 6	96	12,5		
1198	626		M64	UTN6476M64									M64 x 6	96			
1549	810	287	M72	UTN6476M72	200	240	200	150	25	95	80	40	M72 x 6	106	20,5	37	
1742	910		M76	UTN6476M76									M76 x 6	111			
1742	601		M76	UTN76100M76							5 100		M76 x 6	111			
1946	672	438	M80	UTN76100M80	230	295	245	190	30	115		45	M80 x 6	116		59	
2504	864	130	M90	UTN76100M90	230	2,5	273	170	30	113	100	73	M90 x 6	131			
2898	1000		M100	UTN76100M100									M100 x 6	146			
99	381		M16	UTH1624M16							40 25 2	25 20		M16 x 2	24,5		
154	595	39	M20	UTH1624M20	122	85	70	55	22	40			25	20	M20 x 2,5	30,5	8,5
222	857		M24	UTH1624M24									M24 x 3	36,5			
289	542		M27					M27 x 3	41,5	4							
353	661	80	M30	UTH2739M30	145	125	100	80	21	60	0 45	25	M30 x 3,5	46,5	10,5	7,5	
515	963		M36	UTH2739M36											M36 x 4	55,5	10,5
534	1000		M39	UTH2739M39									M39 x 4	60,5			
615	632		M39	UTH3952M39									M39 x 4	60,5			
706	727	146	M42	UTH3952M42	165	170	135	135 110 17,5 70 55 3	30	M42 x 4,5	66	12	15				
972	1000		M52	UTH3952M52									M52 x 5	81			
928	553	252	M48	UTH4864M48	105	24.5	165	120	20	00		25	M48 x 5	76		27	
1278	762	252	M56	UTH4864M56	185	215	165	130	20	80	65	35	M56 x 5,5	86	12,5	27	
1679	1000		M64	UTH4864M64									M64 x 6	96			
1685	701	360	M64	UTH6476M64	200	255	200	150	25	95	00	40	M64 x 6	96		30	
2179	907	360	M72	UTH6476M72	200	255	255 200 150 25	25	95	80	40	M72 x 6	106	-	39		
2403 2450	1000 561		M76 M76	UTH6476M76 UTH76100M76									M76 x 6	111			
2736	626		M80	UTH76100M76									M80 x 6	116	20,5	71	
3522	806	655	M90	UTH76100M80	230	340	245	190	30	115	100	45	M90 x 6	131			
4369	1000		M100	UTH76100M90									M100 x 6	146			
4309	1000		MITOU	OTATO TOOM TOO									IVI I UU X O	140			





TENSIONERS 1500 BAR





99 - 3522 kN	Force
12 mm	Stroke
1500 bar	Max working pressure
M16 - M90	Threaded puller

MATCHING CHART				SELECTION CHART																			
COMPLETE BOLT TENSIONER	Hydraulic part	Threaded puller	Polygonal wrench	Operating force @	Stroke	Oil volume	Screw	МОЕ	DEL			* Minimum centre distance between bordering stud bolts		Threaded puller	dan Language	Polygonal Wrench	Weight						
UTV1624M16		UTB161V	UTC16V	kN/ bar	mm	cm ³	mm			Δ	Ø D	ØF	ø G	н	mm	K	o		ø۷	ka			
UTV1624M20	UTV1624	UTB201V	UTC20V	Kit, bai		CIII	•••••			^		٠.	<i>D</i> G	••				_		ng.			
UTV1624M24		UTB241V	UTC24V				M16	UTV162	4M16						42		M16 x 2	24,5					
UTV2736M27		UTB272V	UTC27V	236/1500	6	9,4	M20	UTV1624M20 UTV1624M24	4M20	117	73	65	49	25		12	M20 x 2,5	30,5	- 1	2,5			
UTV2736M30	UTV2736	UTB302V	UTC30V												50		M24 x 3						
UTV2736M36		UTB362V	UTC36V		12			UTV2736M UTV2736M UTV2736M							64		M27 x 3						
UTV3945M39		UTB393V	UTC39V	530/1500		42,4					108	90	73	35	68	15	M30 x 3,5		1	5 6			
UTV3945M42	UTV3945	UTB423V	UTC42V												73 89		M36 x 4						
UTV3945M45	0.133.3	UTB453V	UTC45V	804/1500	12	12	64.3		UTV3945M39	JT V3945M42 16				138	120	98	30	92	18	M42 x 4,5	, .		122
UTV4860M48		UTB484V	UTC48V	004/1300	12	04,5		UTV39451			130	120	70	30	95		M45 x 4,5		12,3	12,2			
UTV4860M56	UTV4860		UTC56V					UTV486							110		M48 x 5	76					
UTV4860M60	0174600	UTB604V	UTC60V	1472/1500	12	117,8	M56	UTV486	60M56	175	175	145	120	30	116	20	M56 x 5,5	86	12,5	18,8			
							M60	UTV486	60M60						120		M60 x 5,5						
UTV6472M64	LITY (5 472)	UTB645V	UTC64V				M64	UTV647	2M64						132		M64 x 6	96					
UTV6472M68	UTV6472		UTC68V	2050/1500	12	164	M68	UTV647	2M68	190	205	173	138	30	135	25	M68 x 6	101	16,5	27,3			
UTV6472M72		UTB724V	UTC72V				M72	UTV647	2M72						138		M72 x 6	106					
UTV7690M76		UTB766V	UTC76V				M76	UTV769	0M76						160		M76 x 6	111					
UTV7690M80	UTV7690	UTB806V	UTC80V	3581/1500	12	286,5	M80	UTV769	08M0	227	270	235	175	38	163	30	M80 x 6	116	20,5	58,7			
UTV7690M90		UTB906V	UTC90V				M90	UTV769	0M90						172		M90 x 6	131					

^{*}This means the minimum centre distance allowing for the installation of one single tensioner without any interference problems. If using a multiple tensioning system, this distance is equal to the figure in column ØD (external diameter)

TENSIONING SYSTEMS - UP PRESSES

HAND PUMPS, POWER PACKS, ACCESSORIES 1000 - 1500 BAR

UP PRESSES

HOW TO CHOOSE A SYSTEM

The best system can be chosen according to the oil quantity of the bolt tensioner or set of bolt tensioners and the drive speed required. Various types of EUROPRESS pumps can be chosen and combined according to the desired working pressure, their reservoir, capacity and the valve function.

A gauge with eventually its gauge adaptor and a hose complete with coupler (with the correct working pressure according to the chosen bolt tensioner), must always be combined with the pump.



1000 BAR SYSTEMS

Operation + gauge	Single stage	Double stage	Delivery	Tank	Valve	Adjustable relief valve
PS10010G	•		1,0 cm³	0,42 l	By pass	-
PL16#10+ZPS53+G16		•	32/1,6 cm ³	2,3/4,3/7,8	By pass	-
MLP2#TA+ZPS12+G16	-	-	0,5/0,1 l/min	2,6/5,0/10	Pedal 3/3	-
MDM21GJRT		•	2,3/0,3 l/min	2,6	Manual 3/2	•
MEC#M21GRT	•		0,6 l/min	5/10/20/40 l	Manual 3/2	•

HOSE to connect pump with tensioner: SN#FT.

1500 BAR SYSTEMS

Operation + gauge	Single stage	Double stage	Delivery	Tank	Valve	Adjustable relief valve		
PL16#16+ZPF14+G16		•	32/1,6 cm ³	2,3/4,3/7,8	By pass	-		
MLP2#VAG (*)	-	-	0,44/0,08 l/min	2,6/5,0/10	Pedal 3/3	-		
MDM21GJRV (*)		•	1,8/0,2 l/min	2,6	Manual 3/2	•		

(*)Power packs supplied with coupler K15M

HOSE to connect hand pump to bolt tensioner:

SM#PFV hose type SM @ 1800 bar with RN32 at one end (pump side) and RN32 + K15X at the other end (tensioner side)

HOSE to connect power pack to bolt tensioner: SM#FFV hose type SM @ 1800 bar + RN32 and K15X at both ends.



FEATURES

Made of steel and equipped with a hydraulic part, they are produced on request and can be customised according to specific needs. The hydraulic part is made of standard products with single or double acting cylinder, single or double phase pump and gauge to guarantee more safety to the system.



Our Technical Department is at your disposal to study special presses as per customer requirements.

Special customised press