

### 32.16 - TTM series tensioning jacks



*TTM 250KN-200 jack*

***TTM 250KN-200*** jack for tensioning on anchorages: *E, EX and TTR* provided with 200 mm actual stroke, hydraulic locking and tubes with 4 m quick joints.



*TTM 250KN-100 jack*

***TTM 250KN-100*** jack for tensioning on anchorages: *E, EX and TTR* provided with 100 mm actual stroke, hydraulic locking and tubes with 4 m quick joints.



*TTM 250KN-60 jack*

***TTM 250KN-60*** jack for tensioning on anchorages: *E, EX and TTR* provided with 60 mm actual stroke, hydraulic locking and tubes with 4 m quick joints.



*TTM 250KN-M-100 jack*

***TTM 250KN-M-100*** jack for tensioning on anchorages: *M and TTM* provided with 100 mm actual stroke, hydraulic locking and tubes with 4 m quick joints.



*TTM 250KN-400 jack*

***TTM 250KN-400*** jack for tensioning on anchorages: *E, EX and TTR* provided with 400 mm actual stroke, hydraulic locking and tubes with 4 m quick joints.



*TTM 250KN-C-100 jack*

**TTM 250KN-C-100** jack for tensioning on anchorages: E, EX and TTR with 100 mm. stroke.

The jack without locking for tensioning of short strands is provided with tubes with 4 m quick joints.



*TTM 300KN-M-100 jack*

**TTM300KN-M-100** jack for tensioning on anchorages: M and TTM provided with 100 mm actual stroke, hydraulic locking and tubes with 4 m quick joints.



*TTM 300KN-100 jack*

**TTM300KN-200** jack for tensioning on TTM anchorages provided with 200 mm actual stroke, hydraulic locking and tubes with 4 m quick joints.



*Head for tensioning on anchorages: E, EX and TTR*

Head for tensioning on anchorages: E, EX and TTR, all the heads of this series are provided with internal hydraulic locking.



*Head for tensioning on M and TTM anchorages*

Head for tensioning on anchorages: M and TTM, all the heads of this series are provided with internal hydraulic locking.

**32.17 - “TTM 250KN-200” tensioning jack**  
*(Tensioning of TTR and TTS anchors)*



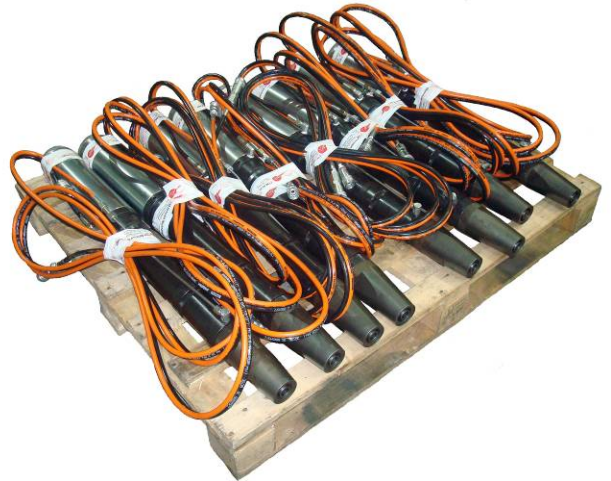
*TTM jacks are available in three models which differ according to use characteristics. They are provided with an automatic locking circuit and 4 meter long flexible tubes. The main use of **TTM250KN** jacks is for tensioning on single strand heads on TTM anchorages. They are available with strokes: 400 mm., 200 mm., 100 mm. and 60 mm., the stroke reduction allows smaller dimensions of the jack.*

<b>Type</b>	<b>Weight</b>	<b>Stroke</b>	<b>Max. diameter</b>	<b>Length</b>	<b>Grip</b>	<b>Section</b>	<b>Capacity</b>
	<i>(Kg.)</i>	<i>(mm.)</i>	<i>( mm.)</i>	<i>(mm.)</i>	<i>(mm.)</i>	<i>(cm<sup>2</sup>)</i>	<i>(KN)</i>
<b>TTM 250KN-200 jack</b>	26	200	100	930	350	47.2	250

*Subject to modification*

*Further data is available on request*

**32.18 - "TTM 250KN-100" tensioning jack**  
*(Tensioning of TTR and TTS anchors)*



*TTM 250KN-100 jack*

*TTM jacks are available in three models which differ according to use characteristics. They are provided with an automatic locking circuit and 4 meter long flexible tubes. The main use of **TTM250KN** jacks is for tensioning on single strand heads on TTM anchorages. They are available with strokes: 400 mm., 200 mm., 100 mm. and 60 mm., the stroke reduction allows smaller dimensions of the jack.*

<i>Type</i>	<i>Weight</i>	<i>Stroke</i>	<i>Max. diameter</i>	<i>Length</i>	<i>Grip</i>	<i>Section</i>	<i>Capacity</i>
	<i>(Kg.)</i>	<i>(mm.)</i>	<i>( mm. )</i>	<i>(mm.)</i>	<i>(mm.)</i>	<i>(cm<sup>2</sup>)</i>	<i>(KN)</i>
<b>TTM 250KN-100 jack</b>	21,5	100	100	740	350	47,2	250

*Subject to modification*

*Further data is available on request*



**32.19 - “TTM 250KN-60” tensioning jack**  
*(Tensioning of TTR and TTS anchors)*



*TTM 250KN-60 jack*

*TTM jacks are available in three models which differ according to use characteristics. All the jacks are provided with an automatic locking circuit and 4 meter long flexible tubes. The main use of **TTM250KN** jacks is for tensioning on single strand heads on TTM anchorages. They are available with strokes: 400 mm., 200 mm., 100 mm. and 60 mm., the stroke reduction allows smaller dimensions of the jack.*

<i>Type</i>	<i>Weight</i>	<i>Stroke</i>	<i>Max. diameter</i>	<i>Length</i>	<i>Grip</i>	<i>Section</i>	<i>Capacity</i>
	<i>(Kg.)</i>	<i>(mm.)</i>	<i>( mm. )</i>	<i>(mm.)</i>	<i>(mm.)</i>	<i>(cm<sup>2</sup>)</i>	<i>(KN)</i>
<b>TTM 250KN-60 jack</b>	19,2	60	100	640	350	47,2	250

*Subject to modification*

*Further data is available on request*

**32.20 - "TTM 250KN-400" tensioning jack**  
*(Tensioning of TTR and TTS anchors)*



*TTM 250KN-400 jack*

*TTM jacks are available in three models which differ according to use characteristics. All the jacks are provided with an automatic locking circuit and 4 meter long flexible tubes. The main use of **TTM250KN** jacks is for tensioning on single strand heads on TTM anchorages. They are available with strokes: 400 mm., 200 mm., 100 mm. and 60 mm., the stroke reduction allows smaller dimensions of the jack.*

<b>Type</b>	<b>Weight</b>	<b>Stroke</b>	<b>Max. diameter</b>	<b>Length</b>	<b>Grip</b>	<b>Section</b>	<b>Capacity</b>
	<i>(Kg.)</i>	<i>(mm.)</i>	<i>( mm. )</i>	<i>(mm.)</i>	<i>(mm.)</i>	<i>(cm<sup>2</sup>)</i>	<i>(KN)</i>
<b>TTM 250KN-400 jack</b>	35	400	110	1.350	350	47,2	250

*Subject to modification*

*Further data is available on request*

**32.21 - “TTM 300KN-200” tensioning jack**  
 (For tensioning of T15C strands on TTR and TTS anchorages)



*TTM 300KN-200 jack*

*TTM jacks are available in two models which differ according to use characteristics. They are provided with an automatic locking circuit and 4 meter long flexible thermoplastic tubes with quick joints.*

*The main use of **TTM300KN-200** jacks is for tensioning on single strand or TTR heads where the T15C compact strand is used.*

<b>Type</b>	<b>Weight</b>	<b>Stroke</b>	<b>Max. diameter</b>	<b>Length</b>	<b>Grip</b>	<b>Section</b>	<b>Capacity</b>
	(Kg.)	(mm.)	( mm. )	(mm.)	(mm.)	(cm <sup>2</sup> )	(KN)
<b>TTM300KN-200 jack</b>	27.70	200	110	950	350	68.80	300

*Subject to modification*

*Further data is available on request*

**32.22 - “TTM 300KN-100” tensioning jack**  
 (For tensioning of T15C strands on TTR and TTS anchorages)



*TTM 300KN-100 jack*

*TTM jacks are available in two models which differ according to use characteristics. They are provided with an automatic locking circuit and 4 meter long flexible thermoplastic tubes with quick joints.*

*The main use of TTM300KN-100 jacks is for tensioning on single strand or TTR heads where the T15C compact strand is used.*

<b>Type</b>	<b>Weight</b>	<b>Stroke</b>	<b>Max. diameter</b>	<b>Length</b>	<b>Grip</b>	<b>Section</b>	<b>Capacity</b>
	(Kg.)	(mm.)	( mm. )	(mm.)	(mm.)	(cm <sup>2</sup> )	(KN)
<b>TTM300KN-100 jack</b>	24	100	110	740	350	68.80	300

*Subject to modification*

*Further data is available on request*



### 32.23 - "TTM 250KN-C-60" tensioning jack



(Tensioning on short strands)



TTM 250KN-C-60 jack



TTM 250KN-C-100 jack

**TTM250KN-C** jacks are designed for tensioning on short strands. Their main characteristic is the short strand grip to guarantee the grip of the jack on strand protrusions between 80 – 100 mm. They are without locking and are only used on single strand interventions on anchorages: TTR, E, EX, TTS with minimum support for the jacks of 48 mm. Two different strokes are available to guarantee their use in small spaces, they are provided with L=4 m hydraulic tubes as well as quick joints.

Type	Weight	Stroke	Max. diameter	Length	Grip	Section	Capacity
	(Kg.)	(mm.)	( mm. )	(mm.)	(mm.)	(cm <sup>2</sup> )	(KN)
<b>TTM 250KN-C-60</b>	16.40	60	100	510	90-100	47,2	250
<b>TTM 250KN-C-100</b>	18	100	100	560	90-100	47,2	250

Subject to modification

Further data is available on request