

32.27 - “M” tensioning jack



(Tensioning of TTM multi-strand anchorages)

The “M” series of jacks is available in nine models which differ according to use characteristics. They are provided with an automatic locking circuit and 10 metre long flexible tubes; they are also equipped with a device rotating on an axis, restricted tensioning extension, low operating pressure.

The jacks are equipped with a metal support, designed in particular to achieve the required inclinations during tensioning operations.

The support is integral with two bearings which enable the jack to turn on its axis, facilitating insertion of the strands protruding from the head. The restricted tensioning extension, the rotation of the jack on its axis and the support allow quick operations and a limited effort during handling.



M series jacks

Characteristics	U.M.	M 1600 KN	M 1800 KN	M 3000 KN	M 3600 KN	M 4800 KN
Capacity	KN	1600	1800	3000	3600	4800
Strand max. capacity	No.	1-4	7	9-12	12-15	19
Stroke	mm	250	250	250	250	250
Weight	Kg	180	210	280	390	490
Stressing section	cm ²	155,51	302,20	424,49	564,21	725,71
Max. stressing pressure	bar	700	700	700	700	700
Max. return pressure	bar	250	250	250	250	250
Max. locking pressure	bar	250	250	250	250	250
Tensioning extension	mm	400	400	400	450	500
Max. diameter	Mm	285	330	400	470	520
Length	mm	950	1.050	1.000	1.150	1.150

Subject to modification

Further data is available on request



M1600KN-4 jack



M1800KN-7 jack



M4800KN-19 jack

All the jacks in the M series are supplied complete with internal parts and accessories for tensioning.

*The jacks in the M series are classified according to types, ex. **M6800KN** and the inside, if different from standard, indicates **M6800KN-22** (22 strands)*

The jacks are powered by three tubes which guarantee the following functions:

- *stressing,*
- *return,*
- *locking,*

All the jacks require a comb for correct use to ease the insertion of the jack on the cable.



27 strand comb

For tensioning of active anchorages, all the jacks require a belt that allows the jack to rest correctly against the anchorage.

Only on G joints does the jack rest directly on the steel plate.

The main characteristics of the M series jacks are:

- *350° rotation on an axis,*
- *reduced grip extension,*
- *automatic locking by means of a hydraulic circuit,*
- *small dimensions,*
- *front grip,*
- *easy to manoeuvre,*
- *maintenance friendly,*
- *easy inspection/cleaning of the engagement wedges,*

The jacks are identified by a serial number and equipped with certificate of calibration upon user's request.



M6800KN-27 jack



M3000KN-12 jack

