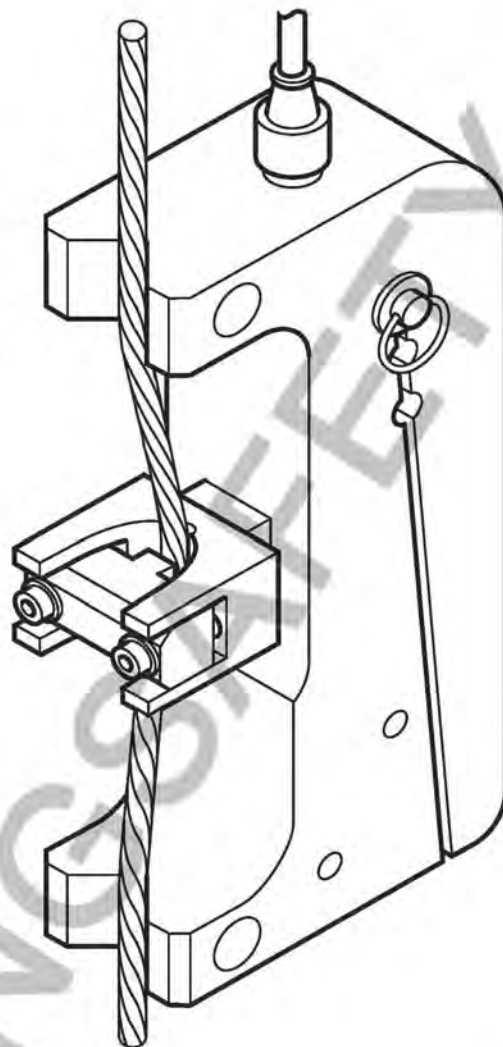


dynasafe[®]

HF 32 universal load cell



equipment in
accordance with
CE directives

**operating
and
maintenance
manual**

0420001103 - 03/96

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GENERAL WARNING

- 1 - Reading and fully understanding the technical data sheets relating to this equipment is essential for the best use of this high technological material that you have received. All the technical data sheets are available on request.**
- 2 - Before installing and operating Dynasafe® equipment it is essential for the safe and correct operation of the material that this manual be read and fully understood and that all the instructions be followed. This manual should be made available to every operator. Extra copies of this manual will be supplied on request.**
- 3 - The installation and operation of Dynasafe® equipment should only be carried out in accordance with the appropriate health and safety at work regulations.**
- 4 - Never apply to the Dynasafe® a load or an effort in excess of the working load limit, and never use it for an operation for which it is not intended.**
- 5 - TRACTEL SA declines any responsibility for the consequences of dismantling or altering the machine by any unauthorized person.**
- 6 - Dynasafe® equipment must not be used in explosive atmospheres.**
- 7 - Dynasafe® equipment must only be used in a system designed for lifting people after ensuring that the appropriate operating coefficients have be used in accordance with the current regulations.**
- 8 - Prior to the use of Dynasafe® equipment with complementary equipment relaying the signals to an operating system, the user or installer of this system should carry out a specific risk analysis of the operating functions. The appropriate measures should be taken to obviate the risks identified.**

INSTALLATION OF HF 32 LOAD CELL

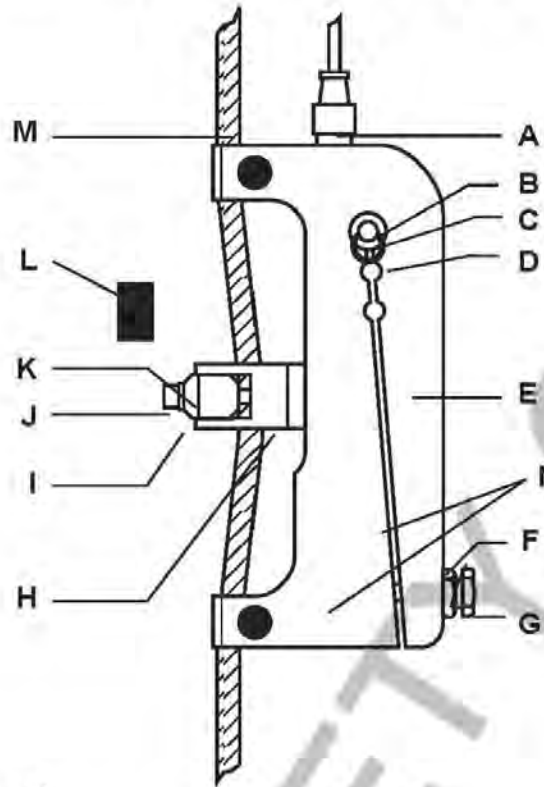


Fig. 1

Components of the load cell

- | | | |
|--------------------------|----------------------|---|
| A - 2 m connecting cable | F - Locking nut | K - Tightening bracket |
| B - Flat washer | G - Tare screw | L - Rubber compression pad |
| C - Adjusting pin | H - Traction part | M - Wire rope |
| D - Locking ring | I - Safety washer | N - Fixing screws for circuit -
breaker (Do not touch) |
| E - Load cell body | J - Tightening screw | |

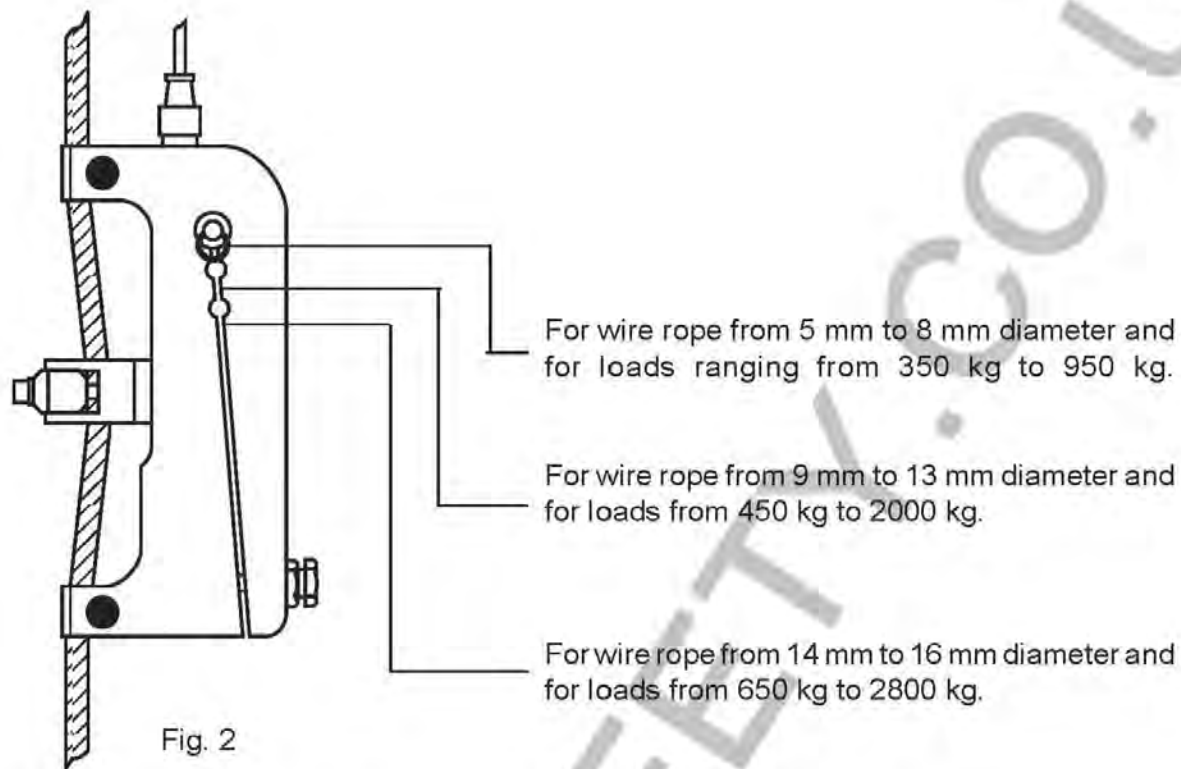
Procedure for installing load cell

Essential condition : The hook of the lifting system should be free of any load.

- Position the adjusting pin as a function of the load range and wire rope diameter (see page 4 and 5).
- Remove the tightening bracket (K).
- Position the load cell on the wire rope near the dead end/fixed point. The connecting cable should be uppermost.
- Replace the tightening bracket (K) ensuring that it is correctly positioned depending on the diameter of the wire rope. (See page 4 and 5).
- Adjust the tightening screws (J) symmetrically (+/- 0.5 kgm) to ensure that there is no risk of moving the load cell out of line with the wire rope. Excessive tightening may break the bracket.
- Operate the lifting system up to the upper limit switch and ensure that the sheaving or bottom block does not foul the load cell. (If this happens adjust the upper limit switch so that there is an appropriate distance between the load cell and the bottom block. Also check that when the bottom block is in the upper position the load cell is not in contact with the overhead crane.
- Wire the connecting cable from the load cell to the control box. Ensure that the cable is secured.

INSTALLATION OF HF 32/1 LOAD CELL

Positioning the adjusting pin as a function of the effort in the wire rope

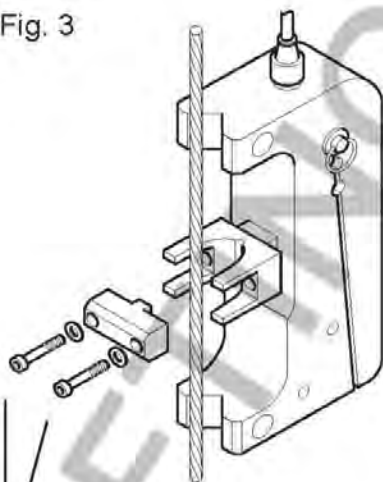


Correct positioning of the tightening bracket depending on the diameter of the wire rope.

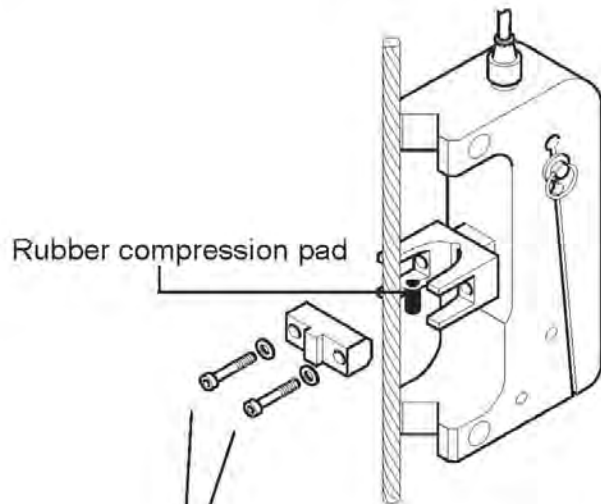
5 mm to 8 mm wire rope without the rubber compression pad, M6 screws X 25 mm (supplied)

9 mm to 16 mm wire rope with the rubber compression pad, M6 screws X 30 mm (supplied)

Fig. 3



M6 screw x 25 mm (X 2)



M6 screws X 30 mm (supplied) (X 2)

INSTALLATION OF HF 32/2 LOAD CELL

Positioning the adjusting pin as a function of the effort in the wire rope

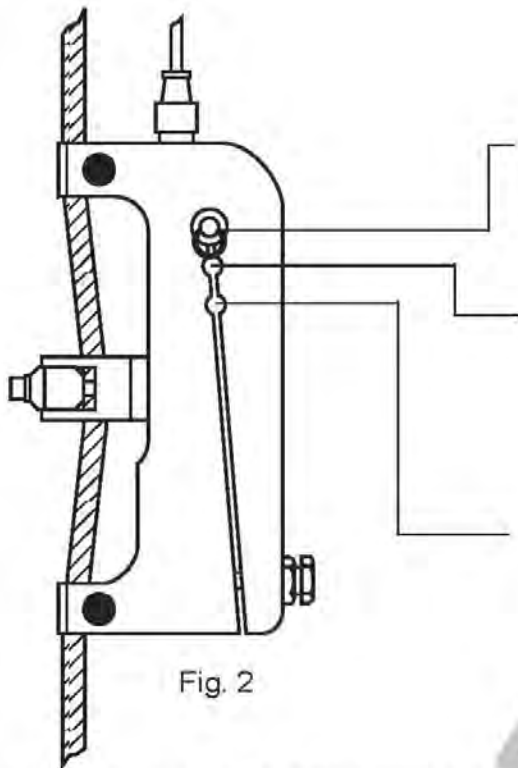


Fig. 2

For wire rope 17 mm diameter and for loads ranging from 300 kg to 2500 kg without the rubber compression pad.

For wire rope from 18 mm to 22 mm diameter and for loads ranging from 500 kg to 4000 kg with the rubber compression pad.

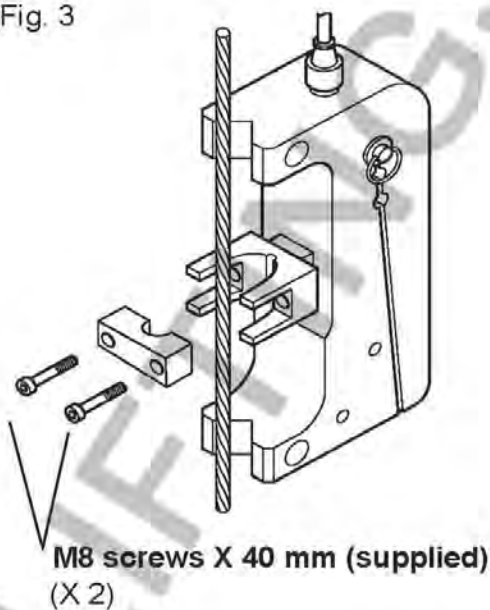
For wire rope from 23 mm to 26 mm and for loads ranging from 800 kg to 6000 kg with the rubber compression pad.

Correct positioning of the tightening bracket depending on the diameter of the wire rope.

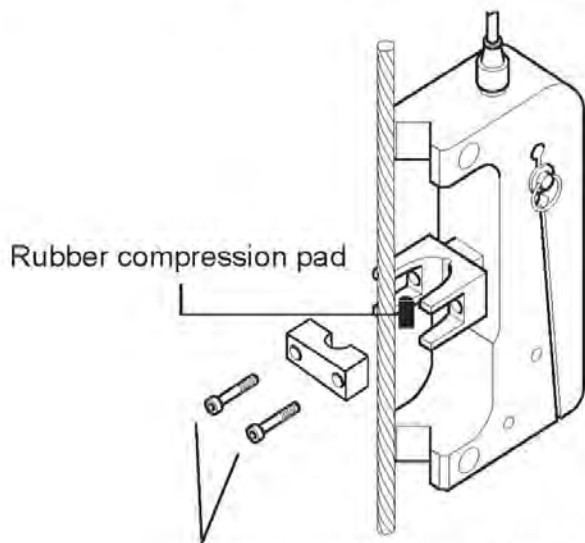
17 mm wire rope
without the rubber compression pad,
M8 screws X 40 mm (supplied)

18 mm to 26 mm wire rope
with the rubber compression pad,
M8 screws X 50 mm (supplied)

Fig. 3



M8 screws X 40 mm (supplied)
(X 2)



Rubber compression pad

M8 screws X 50 mm (supplied)
(X 2)

