



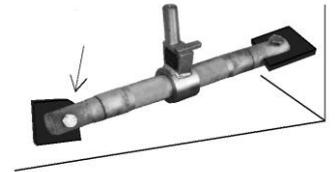
## JAKKI INFORMATION

Please get acquainted with these instructions prior to using the JAKKI tool.

**General** JAKKI is the name for the heavy duty tool for producing pulling or pushing forces in installation work. Typical applications in ship building are e.g. fitting of frames and bulkheads.

JAKKI is attached to the working pieces by small lugs inserted to the fork ends and connected by screws to JAKKI. The lugs tack welded on the working pieces are conveying the force produced by JAKKI to the working pieces. After the installation the lugs can usually be removed by using a hammer. In case of heavy loading the lugs shall be fully welded.

In inclined positions a round corner at one lug will facilitate the positioning of JAKKI.



**Safety** It is impossible to produce detailed safety instructions for power tools. The operator shall comply with the general safety instructions at the ship yard or workshop and use own judgement. When in doubt whether JAKKI can be used for some specific application please do not hesitate to contact the seller or manufacturer for advice.

The max. capacity of 10...12 tonnes can be reached by using the standard lever and force of about 100 kp, i.e. an average man is pressing downwards by using his weight.

**WARNING:** The use of too long lever or excessive force may break the pawl and cause an injury.

In case the installed JAKKI is subject to external forces, the lug or the installation screw (M16, 8.8) will rupture at about 15 tonnes load protecting the tool. The body of JAKKI will break under load of some 25 tonnes.

When using the longer model (JAKKI 1B) and pushing with high force, the screws shall not be extended unnecessarily much in order to avoid buckling.

## MAINTENANCE INSTRUCTION AND SPARE PARTS

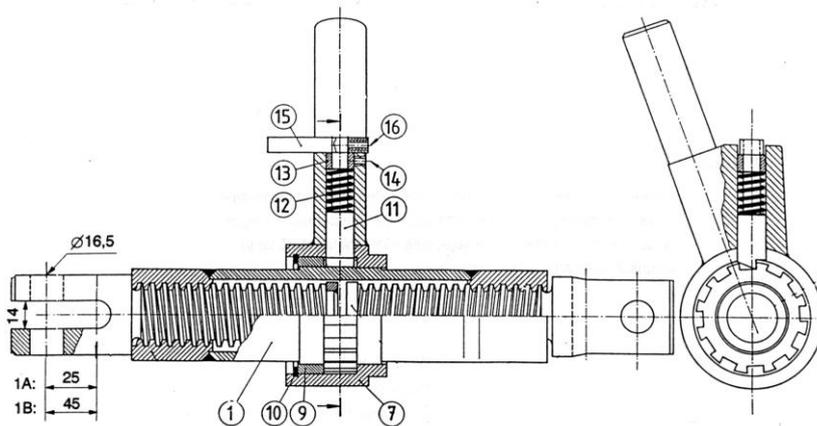
### Main screws

- \* The screws shall be lubricated at all times. The threads to be cleaned as necessary and a thin layer of grease applied on the screws
- \* The function of the grease is to reduce friction and prevent the welding spatter from sticking on the threads
- \* Usually the welding spatter is removed when turning the screws into the nut
- \* Major welding spatter can be removed by using a file or a small grinder
- In case of a major damage on the threads the manufacturer is happy to repair the screw or nut, if the JAKKI tool has been used less than 10 years

## Ratchet

- \* It is advisable to dismantle the ratchet annually and clean and lubricate the parts. The ratchet housing (7) can be dismantled by removing the retaining ring (10)
- \* The pawl (11) is dismantled by opening the stopper screw (14)
- \* Instructions for assembling the ratchet
  - the pawl (11) shall rest at the bottom of the groove and the flat surface shall be parallel with the tooth side. For achieving this situation please turn the ratchet in relation to the body (1).
  - on the sliding ring (13) and pawl (11) there shall be notch for the tip of the stop screw (14) and (16). Drill if necessary.
  - do not over tighten the stop screw (14). Otherwise the slide ring (13) will get deformed and prevent the pawl from moving.
  - secure the stop screw (14) by using thread glue (e.g. Loctite or Truloc)
  - please check that the spring (12) is pressing the pawl (11) positively to the bottom of the groove

The clearances in the JAKKI threads (between the screw and nut) are deliberately quite big in order to prevent malfunctions. The clearances are growing in intensive work over the years. This does not, however, have an effect on the functioning of JAKKI.



Part no	Denomination
1	Body, ratchet and screws
7	Ratchet housing
9	Bearing ring
10	Retaining ring, DIN 472, 58x2
11	Pawl
12	Spring
13	Slide ring
14	Stop screw, M5 x 6
15	Shifting lever (open / close)
16	Stop screw, M5 x 10
17	Operating lever (1A 500 mm, 1B 650 mm)

When ordering spares, please give

- type of JAKKI (1A or 1B)
- serial number, if possible

**Warranty:** The manufacturer, Craftmer Oy, is granting a 12 months warranty for JAKKI tools, calculated from the sales date. The warranty is covering claims related to damages to the tool and pertaining to material faults and mistakes in production. The warranty does not cover indirect losses or damages or damages due to wrong use or overloading of the JAKKI tool.

**Manufacturer:**

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