



P-22109

SLIPFORM JACK TYPE 601-C

Web version manual

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1. BRIEF SPECIFICATION

- 1.1 Lifting capacity 3 tons.**
- 1.2 Lifting stroke 25 mm.**
- 1.3 Piston area 30 sq.cm.**
- 1.4 Swept volume 0,075 litres.**
- 1.5 Working hydraulic pressure 100 bar**
- 1.6 To be operated with pump type: HTP 5 or HPC.17.160**
- 1.7 Jack rod: solid bar or tube of 25-27 mm dia**

2. APPLICATION

2.1 Lifting of slipforms.

Lifting of temporary or permanent structures in combination with slipforms (e.g. roof steelwork).

3. PRINCIPLE COMPONENTS

- 3.1 Level control guide (08-0028).**
- 3.2 Hydraulic cylinder (02-JC03).**
- 3.3 Jack casing (02-JR03).**



3.4 **Fixed jaw casing (02-0019).**

3.5 **Movable jaw casing (02-0010).**

4. **DESCRIPTION**

4.1 **The jack is a single-acting climber.**

4.2 **Level control guide (08-0028).**
Arrests climb of jack at 500 mm intervals or at any pre-set level (See also chapter 8)

4.3 **Hydraulic cylinder (02-JC03).**
The pressure chamber of the jack comprises U-type seals (14-0005) and piston components (02-0005) and (02-0008).

4.4 **Jack casing (02-JR03)**
Encloses the movable jaw casing (02-0010) with one set of 6 Nos toothed jaw segments (02-0011), springs (07-0012) and (02-0013).

4.5 **Fixed jaw casing (02-0019).**
Encloses one set of 6 Nos toothed jaw segments and spring (07-0021).

5. **MODE OF OPERATION**

5.1 **Static position.**
The jack is supported on the jack rod by the fixed jaws (02-GR11). With the application of a downward load the jaw teeth will automatically clamp on to the jack rod. Initial contact of the jaws is given by the spring (07-0015).



- 5.2 Lifting phase.**
When oil is pumped into the cylinder (02-0007) the movable jaw casing (02-0010) is depressed and the teeth engage on the jack tube. The jack casing then moves upwards relative to the jack tube.
- 5.3 Change of grip.**
When the pump is switched off and the pressure in the cylinder (02-0007) drops then the grip of the movable jaws is relaxed by the compressed return spring (07-0016). The jack tends to slide down but is immediately stopped by the fixed jaws (02-GR11). Initial contact of the jaws is given by the spring (07-0021).
- 5.4 Level control.**
Movement of the piston assembly relative to the jack rod occurs on the return stroke. If the projecting piston (02-0004) strikes the underside of the Level Control Guide the return stroke is not completed. Movement of the jack on the next lifting stroke is limited by the previously incomplete return stroke and when the stop nut (02-0009) makes contact with the underside of the piston washer (02-0008) whilst the piston is kept depressed by the level control guide then no further return stroke or jaw switching is possible and climbing ceases until the level control guide is released.

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