



P-22019

CLIMBER TYPE 2510-65-UD

Web version manual

For complete version
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1. BRIEF SPECIFICATION

- 1.1 Lifting/lowering capacity:**
Climb-rod jointed by screw dowels Max. 25 ton
Climb-rod jointed by welds Max. 42 ton
- 1.2 Length of stroke:** 200 mm
Effective climbing length at lifting 195 mm each stroke
Effective climbing length of lowering 170 mm each stroke
- 1.3 Piston area:**
At cylinder pressure side 245 cm² (plus side)
At cylinder return side 145 cm² (minus side)
- 1.4 Cylinder volume:**
At cylinder pressure side 5,0 litres (plus side)
At cylinder return side 3,0 litres (minus side)
- 1.5 Static hydraulic pressure at plus side:**
At a load of 25 ton 102 kp/cm²
At a load of 42 ton 172 kp/cm²
- 1.6 The climber to be connected to pump:**
GP 2.17.160
GP 2.32.160
GP 2.55.160
See manual for respective pump.
- 1.7 Climb rod: 65 x 65 mm**
At screw-dowel joints E335
At welded joints S355JR
Tolerances: See manual 50-0007



2. APPLICATION FIELD OF THE CLIMBER

2.1 Lifting and lowering of heavy loads.

2.2 Horizontal movement of heavy loads.

2.3 The climber can lift or lower a load, which is hanging in a climb-rod. The climber can also climb up a stationary anchored climb-rod and lift or lower a load, which is applied to the climber.

3. MAIN COMPONENTS OF THE CLIMBER

3.1 Branch pipes (11-0020)

3.2 Two parallel double-acting hydraulic cylinders (11-3861) with pistons (11-3860).

3.3 Movable grip-jaw heads (11-3866) fixed to the pistons (11-3860).

3.4 Firm grip-jaw head (11-3866) fixed to the cylinder bottoms (11-0658).

3.5 Grip-jaw (11-3862)

3.6 Switch Mechanism (11-0004)

3.7 Top-bottom plate (11-0613)

3.8 Catches (11-0608, 11-0599) with operating shafts (11-0594)



4. DESCRIPTION OF THE CLIMBER

The climber acts step-by-step to a climb rod. The climber is of the open type, which means that it can be applied laterally at any place along the climb-rod.



Fig. 1. (A) Branch pipe, (B) Hydraulic cylinders, (C) Grip jaw head, (D) Grip jaws, (E) Switch mechanism, (F) Top-bottom plate, (G) Catches with Operating shafts.

4.1 Branch pipes (11-0020)

The branch pipes are threaded R 1/2".

Branch pipe (+) is joined to the pressure side (plus side) of the cylinders.

Branch pipe (-) is joined to the return side (minus side) of the cylinders.

4.2 Hydraulic cylinders (11-JC65)

The hydraulic cylinders are double-acting. The reciprocating movement of the grip-jaw heads (11-GR16) is achieved by alternately pumping oil to the plus and minus side of the cylinders.

4.3 Grip-jaw heads (11-GR16)

The switch mechanism, the top-bottom plates and the catches with their operating shafts are all mounted to the grip-jaw heads.

The grip-jaws are positioned inside the wedge-shaped slot of the grip-jaw heads.

4.4 Grip-jaws (11-3862)

The grip jaws are by spring-load from the switch mechanism either pressed against the climb-rod or disengaged from the same so that the rod is passing freely through the grip-jaw heads.



The switch rod (11-0010, 11-0011) and the spring yoke (11-0006, 11-0007) of the switch mechanism are screwed to the grip-jaws.

4.5 Switch mechanism (11-0004)

By the switch mechanism the grip-jaws are automatically and alternately disengaged and engaged at the lowering of a load.

4.6 Top-bottom plate (11-0613)

These plates are keeping the climb-rod in a centred position in the longitudinal axis of the climber.

4.7 Catches (11-0608, 11-0599) with operating shafts (11-0594)

The grip-jaws can be disengaged by the operating shafts. The catches are controlled by the operating shafts (11-0594).

The operating shafts are turned by the operating levers (11-0311).

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