



P-22059

## **HYDRAULIC CLIMBER 2510-35-UD-T**

***Web version manual***

For complete version  
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**No: W0026**



## 1. **BRIEF SPECIFICATION**

1.1	Lifting/lowering capacity, kN (m.tons)	: 120 (12)
1.2	Max. working pressure, MPa (bar)	: 16 (160)
1.3	Stroke, mm	: 100 mm
	Effective stroke, lifting mode, mm	: 95
	Effective stroke, lowering mode, mm	: 80
1.4	Piston area, sq.cm.	: 77
	Piston area, retract side, sq.cm.	: 52
1.5	Climb rod, mm square	: 35 x 35
1.6	Size: height, mm, retracted	: 560
	width, mm	: 300
	depth, mm	: 195
1.7	Net weight, kgs	: 58

The climber is to be used together with a Bygging-Uddemann pump unit, e.g. GP 12,5 + 2.40.160 and OLP-valve panel.

## 2. **APPLICATION**

The climber is designed mainly for lowering of steel tanks working on a trestle with telescopic anchored climb rod. The climb rod is resting on a hydraulic overload protector to equalize the load between all rods in a group.

An OLP-valve panel between the pump and overload circuit is required for such application. (See specific manual)

Other applications of the climber is also possible, in general heavy lifting business, and is only limited by the fantasy of the user.



### **3. MAIN COMPONENTS**

- 3.1 Two parallel double-acting hydraulic cylinders with piston rods connected with branch pipes.**
- 3.2 Firm and movable grip jaw head with grip jaws.**
- 3.3 Mechanical switch mechanism for up and down operation = UD-device.**
- 3.4 Top- and support plate.**
- 3.5 Catches with operating shafts.**
- 3.6 Rockers and rollers.**

### **4. INSTALLATION INSTRUCTIONS**

- 4.1 Make sure that the operators are familiar with the jacking equipment.**
- 4.2 Allow the climber to have a vertical clearance of 100 mm (one stroke) to the lifted structure.**
- 4.3 The switch device must be entered to the climb rod from either end.**
- 4.4 Hydraulic hoses are normally lined up as a ring circuit with branches to each jack, with a ball valve (tap) on the upstroke side of each climber and overload protector.**

**NOTE!** No ball valves in retract circuit.



## **5. DESCRIPTION OF FUNCTION**

- 5.1 The climber is joined with the climb rod up to its ultimate load by means of tapered wedges = grip jaws.**
- 5.2 Movement between the climber and the rod is achieved by inter-action between the pair of hydraulic rams and the two sets of wedge mechanism in a hand over hand manner.**
- 5.3 By connecting the overload protectors between the rod and its support, a multi jack set up will get a conformed (equalized) load distribution, conditional within the stroke of the overload protector = EQ. (See specific manual)**
- 5.4 By dividing the hydraulic circuits for the overload protectors into three sectors a three point suspension is achieved, regardless to the number of climbers installed.**

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