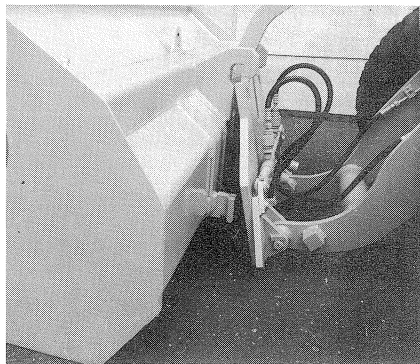
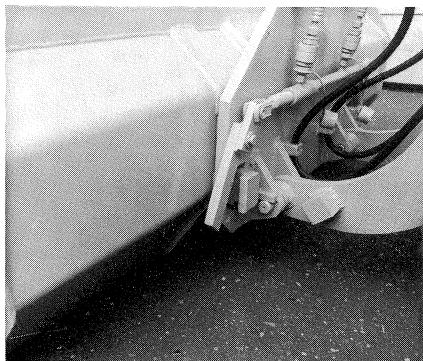


5      Dismounting and Mounting  
        of buckets and attachments

- (1) Bring shovel arm in lowest position and tip the changing frame (I11.25).
- (2) Pick-up bucket resp. attachment with changing frame and lift, while tilting the changing frame at the same time, the bucket resp. the attachment till the changing frame (I11.26) fits.



I11.25



Ill. 26

- (3) Lock bucket resp. attachment (Ill. 27) with hand lever (Ill. 16/6).

**ATTENTION!**

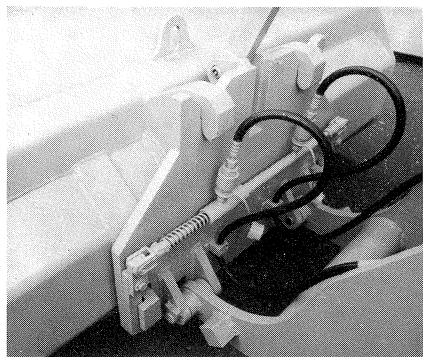
Check correct suspension and locking.

- (4) If a hydraulically operated attachment will be mounted, the hydraulic system of the attachment has to be connected with the changing frame after carrying out point (1) to (2).

- Remove safety caps from the quick couplings at the attachment.
- Detach quick couplings from the cylinder at the changing frame and screw them on the quick couplings of the attachment.
- Screw safety caps on the cylinder connections.

**ATTENTION!**

Pay attention to cleanness and tight connections.



Ill. 27

## 5.1 Bucket types / Bucket sizes

- Compact buckets with or without teeth, sizes from 0,6 m<sup>3</sup> to 1,0 m<sup>3</sup>
- Hydraulically operated multi-purpose buckets 0,5 resp. 0,6 m<sup>3</sup>
- High-tip buckets and stone forks.

## 5.2 Attachments

### Backhoe

Backhoe, laterally shiftable, with hydraulic lock, slewable at  $90^\circ$  to the right and to the left.

Bucket widths from 260 to 500 mm

Bucket capacity 260 wide = 57 ltr.

300 wide = 40 ltr.

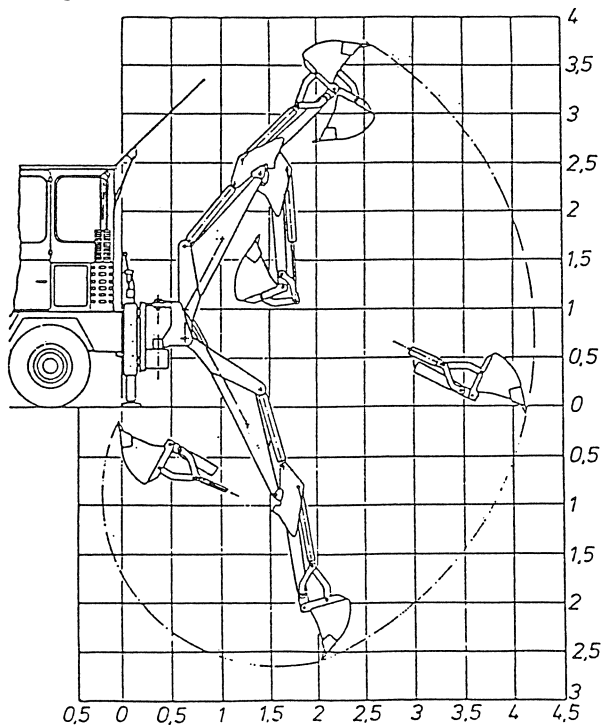
400 wide = 55 ltr.

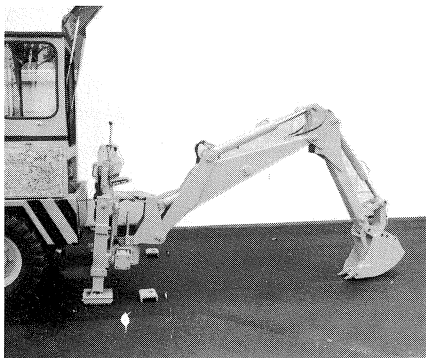
500 wide = 70 ltr.

Breakout force with digger arm max. - 1800 daN with aircooled engine  
- 1900 daN at water-cooled engine

Breakout force at the bucket edge - 4300 daN with aircooled engine  
- 4500 daN at watercooled engine

Diagram of reach

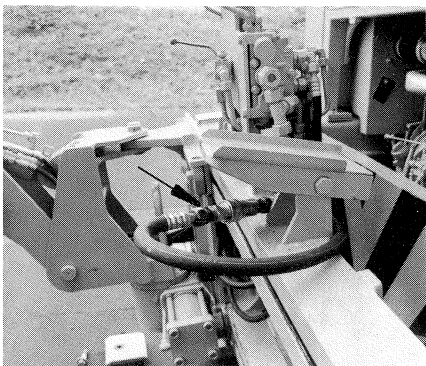




## Mounting of the backhoe

I11. 29 shows a basic unit with mounted backhoe.

I11. 29

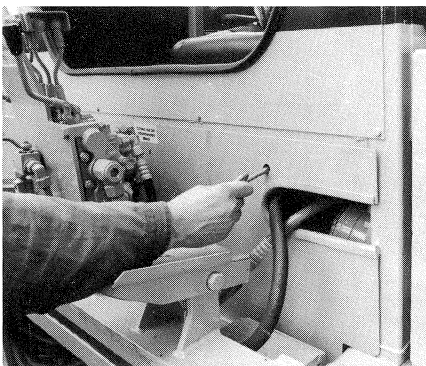


Both hydraulic hoses at the backhoe are screwed together via quick couplings (I11. 30/ arrow).

## ATTENTION

Pay attention to cleanness at the quick couplings.

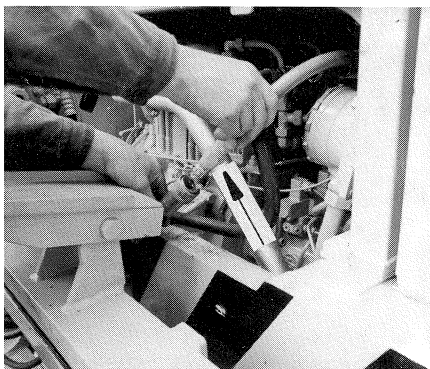
I11. 30



Unlock the engine cover and remove it from the basic unit (I11. 31).

I11. 31

Decouple closed hydraulic hose in the basic unit. Connect both hydraulic hoses of the backhoe with the basic unit. Connect one hydraulic hose of the backhoe with the pipe connection in the basic unit and one hydraulic hose of the backhoe with the hydraulic hose of the basic unit. (quick coupling I11.32).



I11. 32

Unlock driver's seat (. pull the lever up I11.33/arrow) and turn the driver's seat at 180°. Unlock rear window out of the inside of driver's cabin and open it completely to the outside.

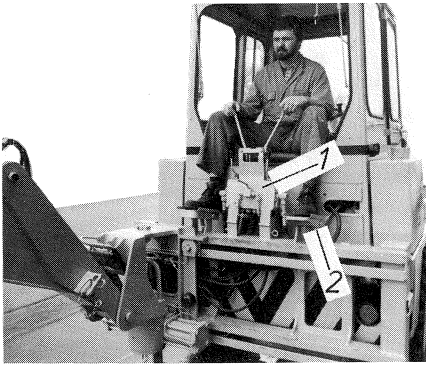


I11. 33

Start engine and align the backhoe by means of its hydraulic system in such a way that the backhoe can be hung in at the counterweight plate in the lower part and that the clamping shoes (I11.34) can be put in and tightened in the upper part without problems. Check the tight fit and tighten up respectively.



I11.34



I11. 35

Pivot the pilot valve (I11.35/1) and flap the foot rest (I11.35/2) down.

Backhoe is ready to work.

#### ATTENTION

Both feet have to be put on the foot rest during working and at the same time to be retracted as far as possible.

#### NOTE

All grease points of the backhoe have to be greased thoroughly before working with the backhoe resp. all 10 working hours. The slewing gear will be greased thoroughly from the oil circuit and is therefore free of maintenance.

## Fork-lift attachment

The fork-lift attachment can only be used in connection with the changing frame. Mounting and dismounting have to be done acc. to para. 5.

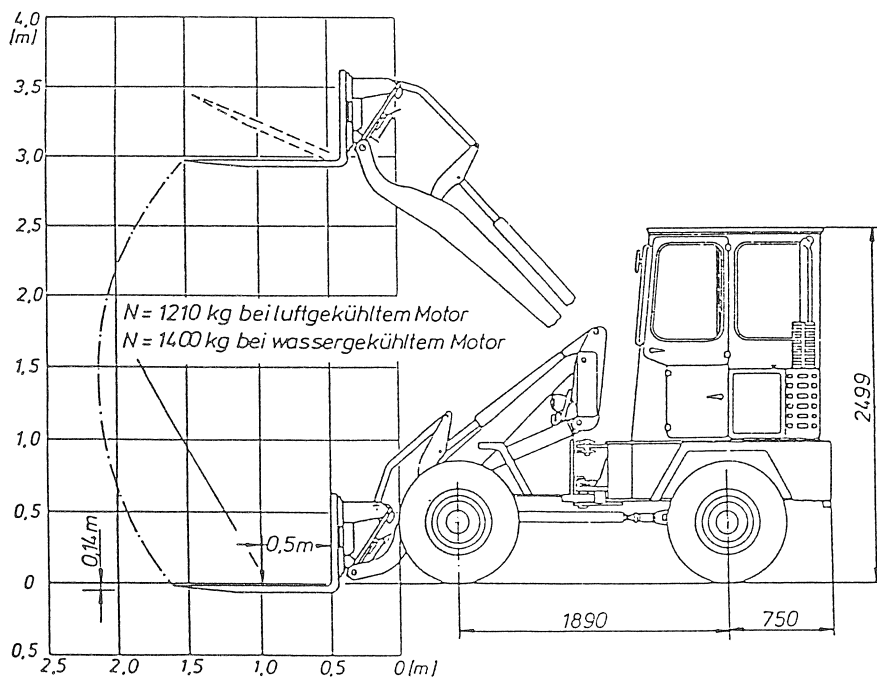
Pay attention to an exact mechanical connection at the changing frame if you mount the fork-lift attachment.

A lateral adjustment of the tynes is possible in steps.

Tynes distance: max. 216 mm      Locking groove distances are  
min. 1054 mm      measured acc. to DIN 15173, load  
capacity category 2, row 2, in  
fork centre.

Adjust both fork tynes in the same distance to the centre,  
make sure that the load is centered and placed on both tynes.

## Diagram of reach



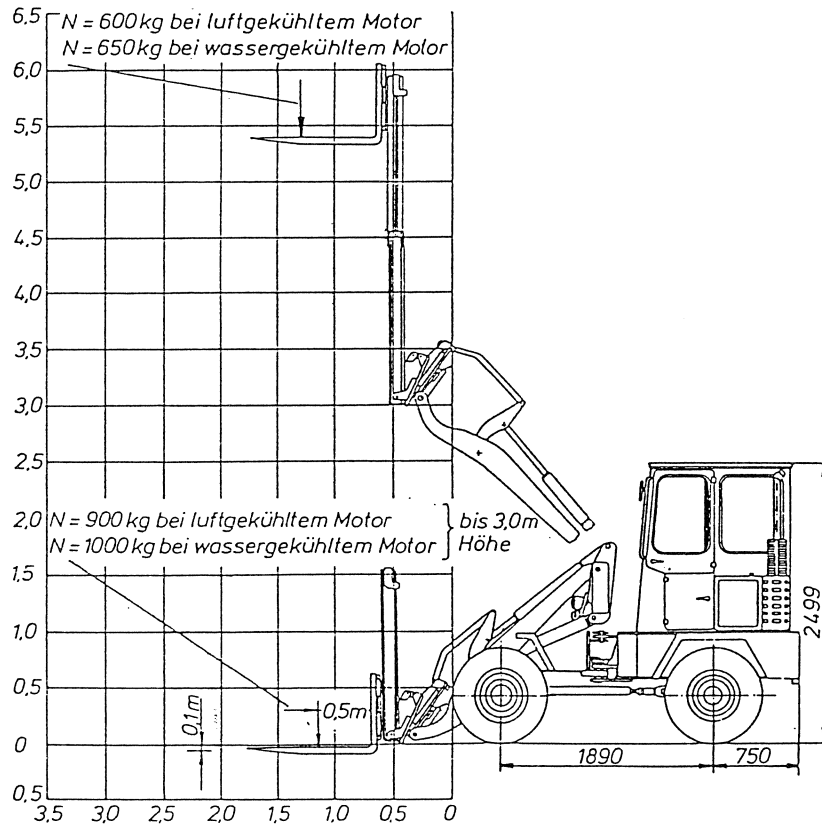
## Telescopic high-lift

The telescopic high-lift can only be used in connection with the changing frame and tilt cylinder lock. Mounting and dismounting has to be done acc. to the instruction. Pay attention to an exact mechanical connection. A lateral shifting of the tynes is possible. Adjust both fork tynes in the same distance to the centre and make sure that the load is centered and placed on both tynes.

Tynes distance: min. 216 mm      Locking groove distances are measured  
 max. 1054 mm      acc. to DIN 15173, load capacity  
 category 2, row 2, in fork centre.

All grease points have to be greased thoroughly before each use  
 resp. all 10 working hours.

### Diagramm of reach



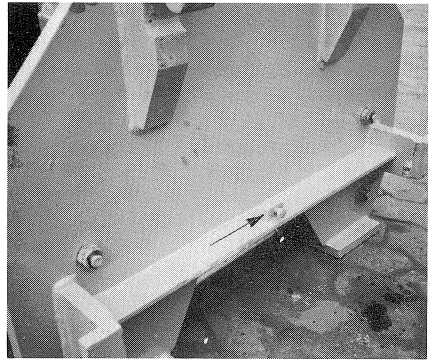


## Mounting the telescopic high-lift

- (1) Check that contact screw at the changing frame is tight (I11.38/arrow).

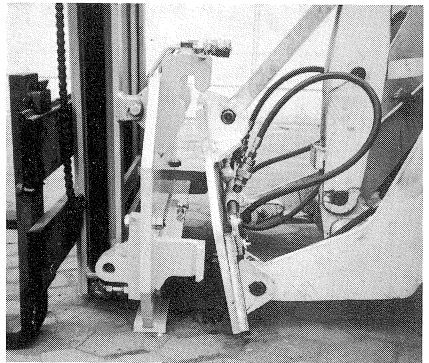
### NOTE

Tighten contact screw if loosened before mounting the attachment.  
Adjust contact screw after mounting. See point (3).



I11.38

- (2) Pick-up the telescopic high-lift by means of the changing frame, (I11.39) lift up and tilt the changing frame back till the high-lift is completely lying against the frame. Lock the high-lift with the changing frame by means of the hand lever (I11.16/6).
- (3) Arrange the hydraulic connections between loader and high-lift by means of rapid couplings (I11.40/1). Make a function test of the E switch.



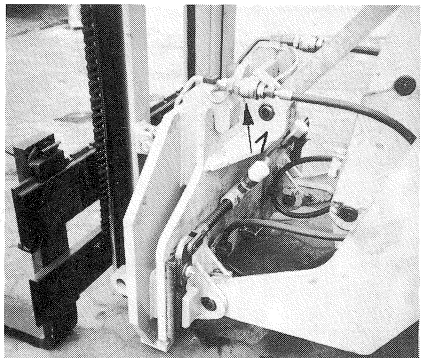
I11.39

### NOTE

The contact screw (I11. 38/ arrow) has to press the indexing bolt of the E-switch deeply enough that the switch point is reached. Don't exceed the free-play of the E-switch, otherwise the E-switch will be destroyed.

### ATTENTION

Check correct mounting, secure wedging, tilt locking system and make a function test.



I11.40

## Multi-purpose bucket

The multi-purpose bucket can be fitted directly to the shovel arm or to the changing frame depending on the construction.

It can be scrapped, peeled, worked as grab or as bucket with the multi-purpose bucket.

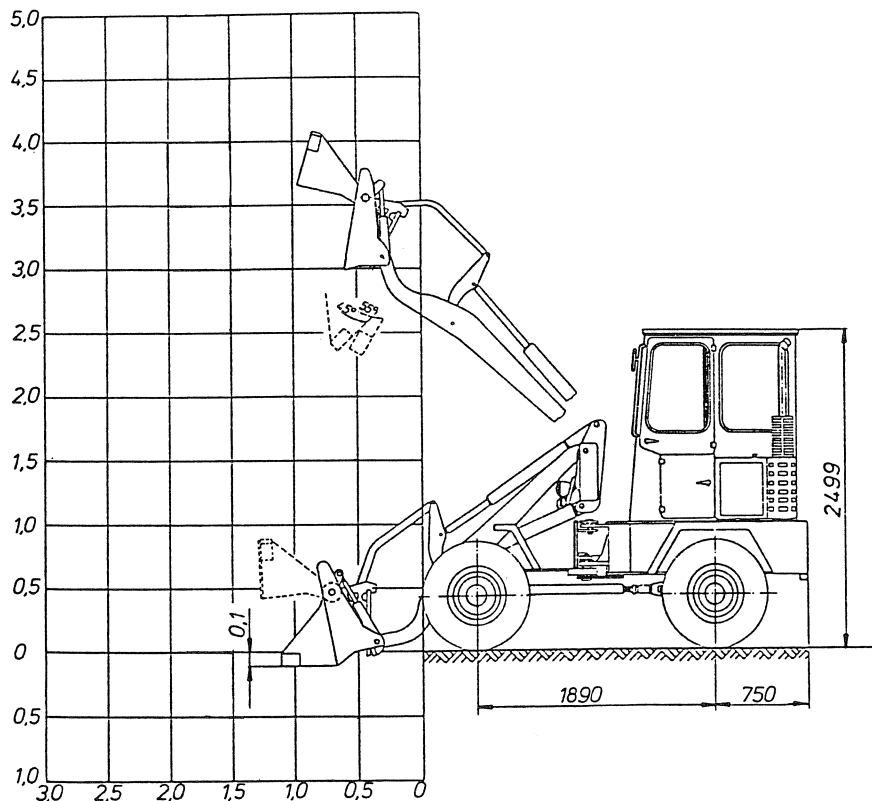
Mounting and dismounting has to be done acc. to para. 5.

### ATTENTION!

Check that the quick couplings are absolutely clean and tight connected. Close open coupling halves with safety caps.

Grease thoroughly all grease points before each use resp. all 10 working hours.

Diagram of reach



Ill. 41