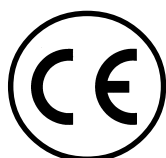


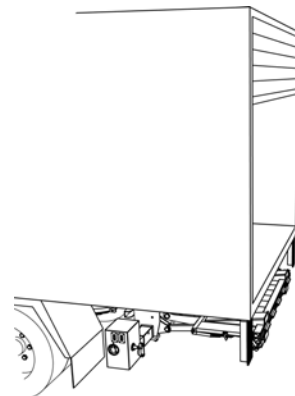
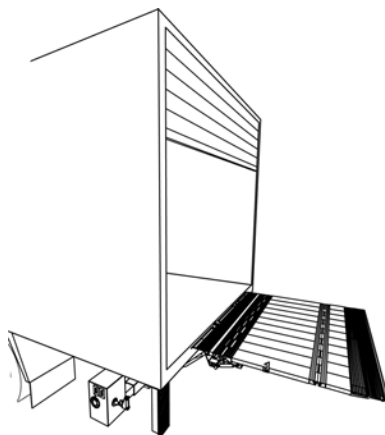
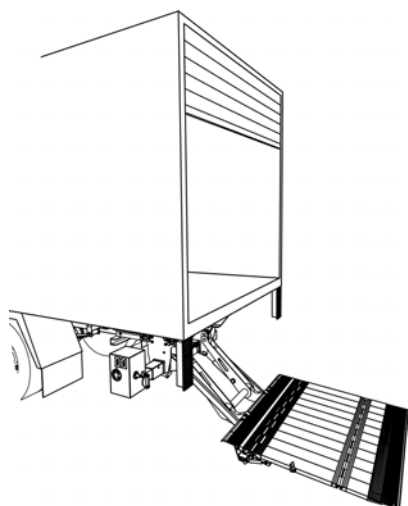
# INSTALLER'S MANUAL FOR THE "AHT" TAIL LIFT



## UTK-1000ST/AL UTK-2000ST/AL-SS

with double-acting feed cylinder

LEFT HAND DRIVER



## **SERVICE QUALIFICATIONS TO INSTALL THE TAILGATE LOADER**

The installer should be well trained in the proper procedure for installing the AHT before beginning the installation.

Carefully read the manual **before starting to install** the AHT tailgate loader.

Only mature adults, age 18 and above, should install the AHT tailgate loader.

Installer should be well qualified for installing hydraulic equipment.

Installer should be well qualified for installing the electrical equipment.

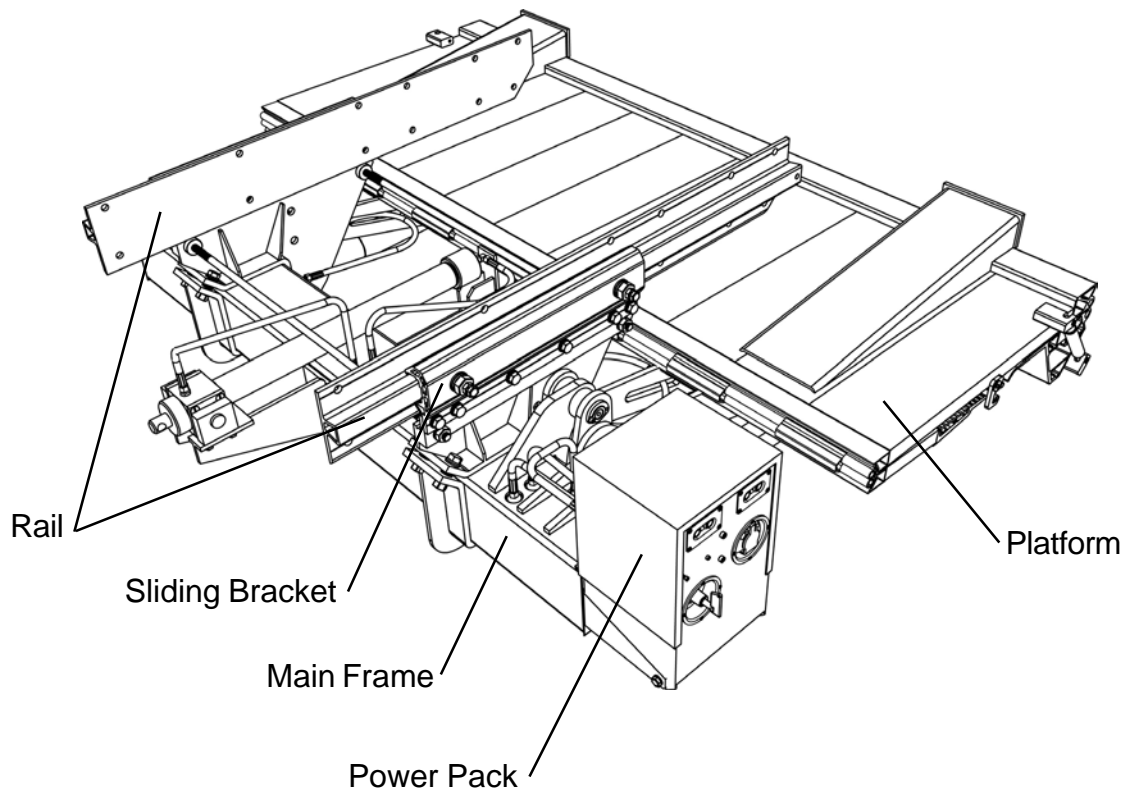
### **INSTALLATION GUIDELINES**

- 1) Remove bumpers, lights, tool box etc. from rear of vehicle if necessary.
- 2) Cut and shape the body and chassis to fit the tailgate.
- 3) Install the rails onto the truck frame and check them with the checking device.
- 4) Install the mounting brackets onto the rails.
- 5) Position the tailgate unit under the truck. Adjust the correct position and fix it.
- 6) Energize the Power Pack.
- 7) Raise the platform to truck floor level and fix the sliding brackets with screw clamps onto the rails.
- 8) Weld the end stop cubes onto the rails.
- 9) Move out the feed cylinder and install the cross beam with the feed cylinder bearing.
- 10) Remove the tilting lock.
- 11) Adjust the platform level.
- 12) Install the warning flags.
- 13) Finish the installation: Mount lights, spare tire, etc.

## UNPACKING THE TAILGATE LOADER

**A complete unit consisting of:**

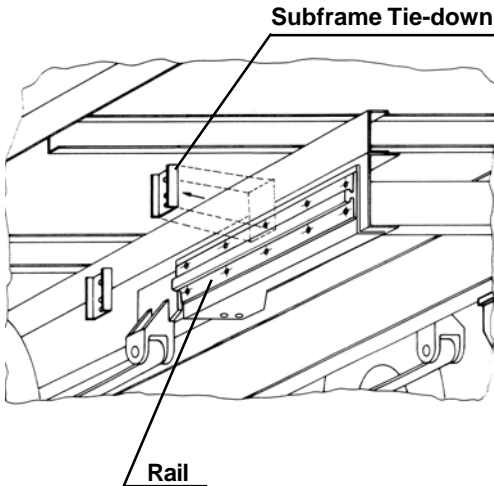
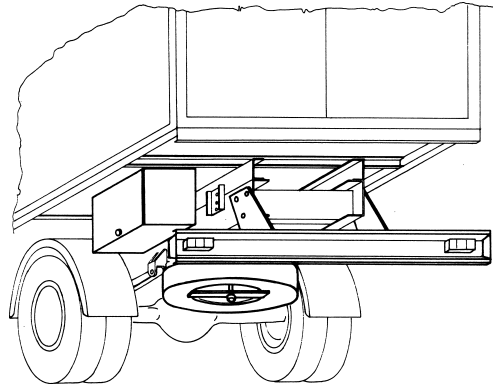
Main frame with lifting arms, cylinders, platform, power pack, sliding brackets, rail, 2 button-remote-control and installation manual.



**The tailgate loader is completely assembled, tested and ready for use.**

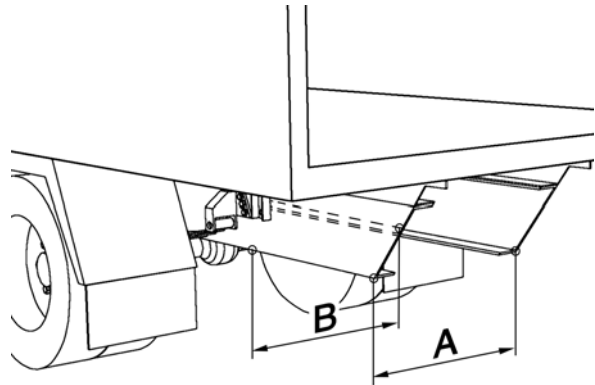
## PREPARING FOR INSTALLATION

Remove rear lights, bumper, tool box and spare wheel, if necessary.  
Disconnect the battery cable to prevent damage to the battery while working on truck body.



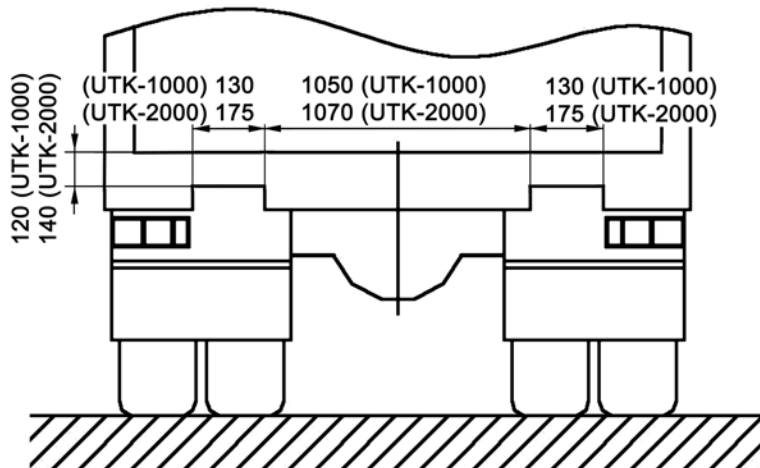
Remove any obstruction attached to the frame of the vehicle that would interfere with the installation. The rail will cover the truck mainframe.

The measurement of dimension A and B must be the same. If A is >1mm in difference of B, you have to attach a sheet between rail and main frame.  
max. Tolerance +/-1mm



## Cutting and shaping body and chassis to fit the UTK

Cut out the rear of the frame, if necessary, as shown in the installation drawings. Reinforce the cut outs.

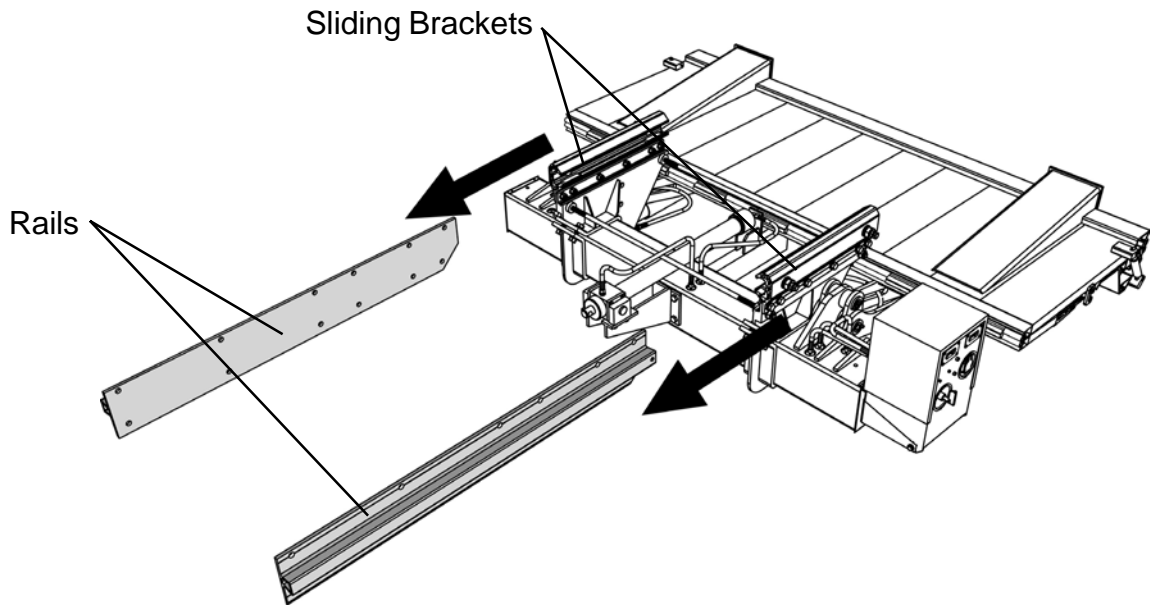


# INSTALLATION INSTRUCTIONS

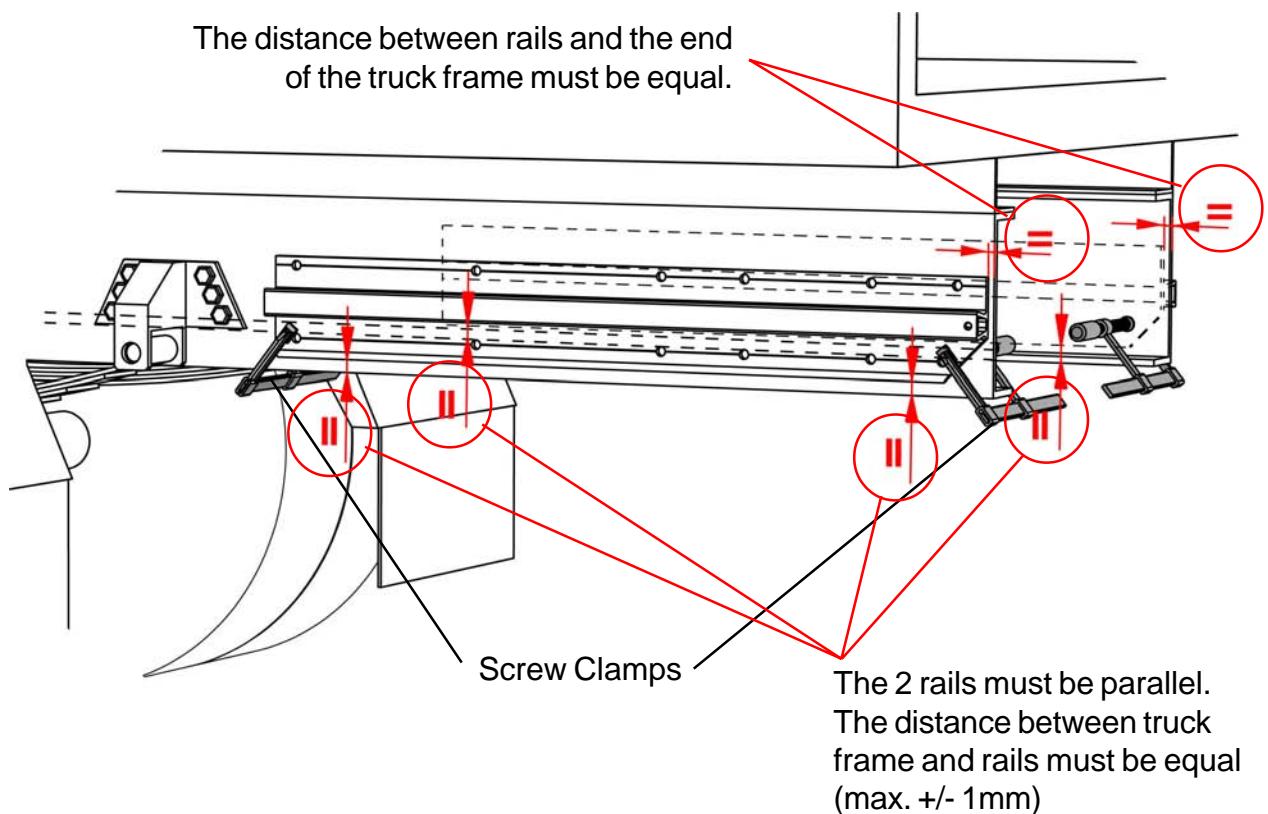
## Install the rails

Before you can install the tailgate loader you have to mount the 2 rails onto the truck frame. Pull out the 2 rails from the sliding bracket.

**ATTENTION:** THE SLIDING ELEMENTS FROM THE SLIDING BRACKETS COME OUT.



Clamp the 2 rails with screw clamps onto the truck frame. (Position of the rails: See next page)

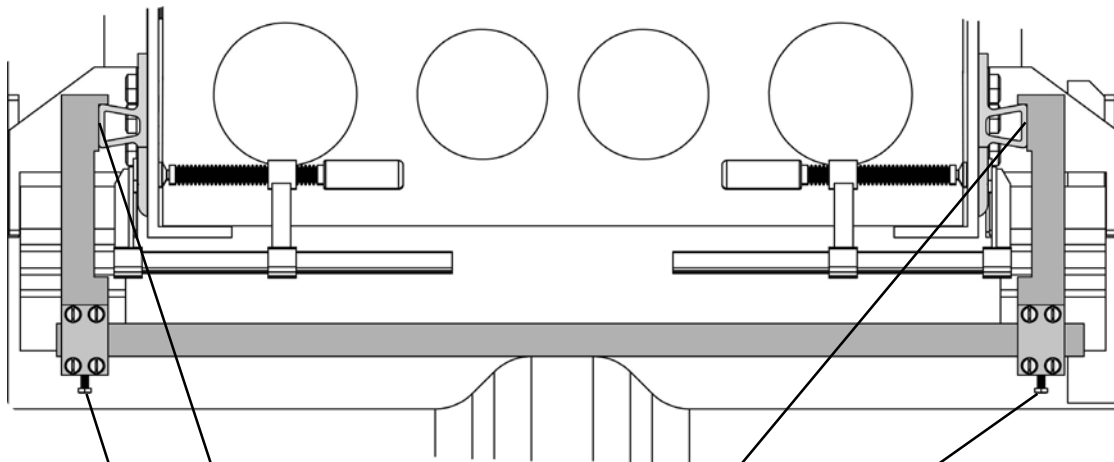


# INSTALLATION INSTRUCTIONS

## Install the rails

Position the rails as shown in the kinematic drawings. (Page 20 - 28)

Place 1 checking device onto the rails as shown in the picture below.

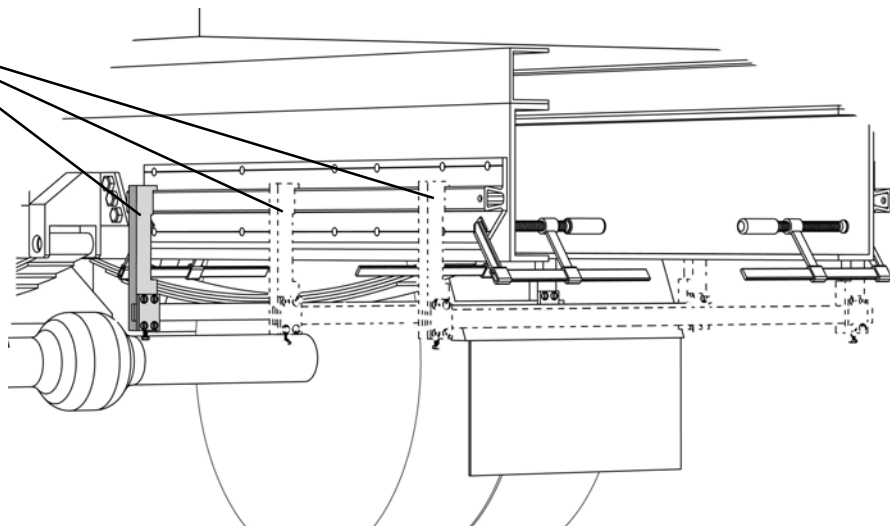


**CONTACT** between rail and checking device.

Fasten the screw if the correct width is adjusted.

Check the width of the rails with 1 checking device on the front, middle and rear.  
If the difference between front, middle and rear is  $>1\text{mm}$ , you have to attach a sheet between rail and main frame.  
max. Tolerance  $\pm 1\text{mm}$

Check the width of the rails on the front, middle and rear side

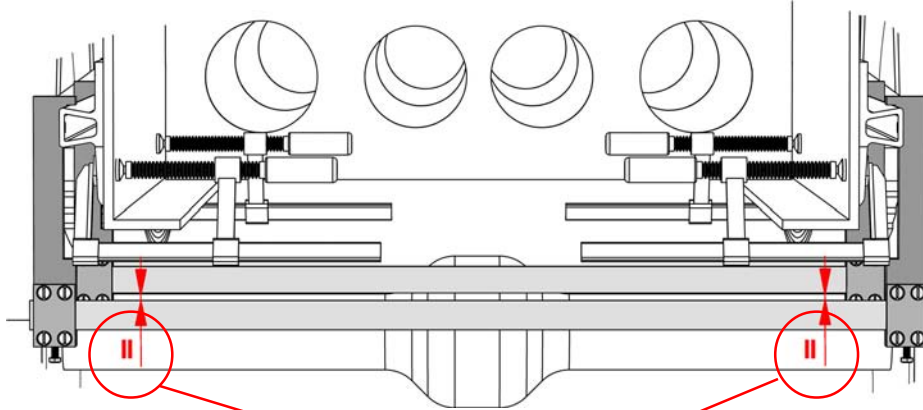


# INSTALLATION INSTRUCTIONS

## Install the rails

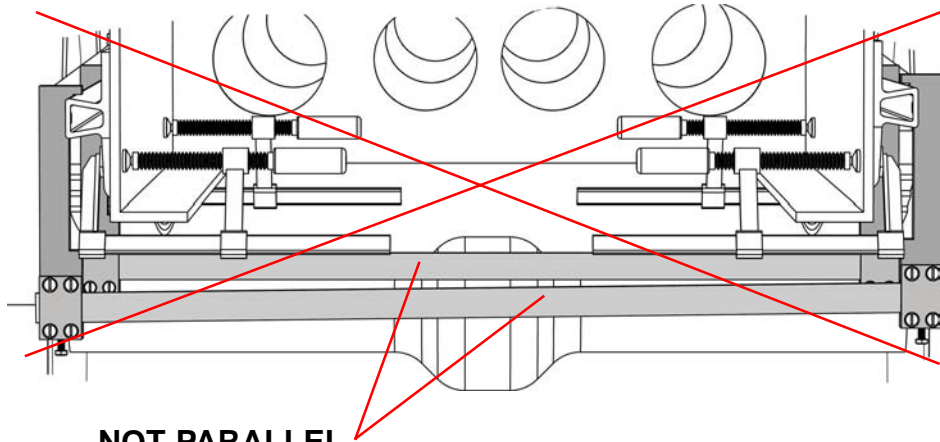
Now place the second checking device onto the rail. One on the front and the other on the rear of the rail.

If you looking behind from the truck, the 2 checking devices must be parallel.



Distance must be equal

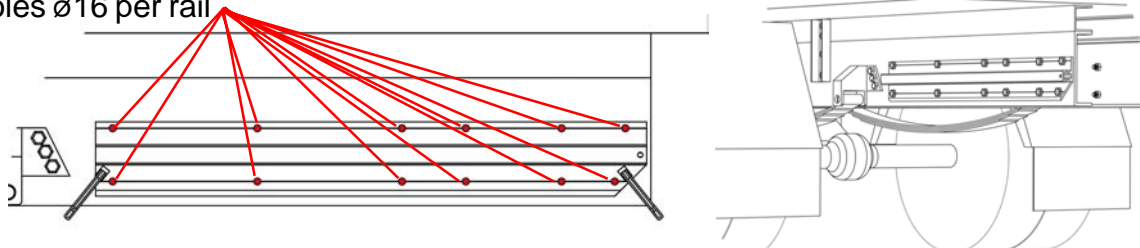
**WRONG** - The 2 checking devices are not parallel ==> The 2 rails are not parallel (See Page 5).



**NOT PARALLEL**

If all dimension are OK and the 2 rails are parallel, drill holes  $\varnothing 16$  in the truck frame (12 per rail)

12 holes  $\varnothing 16$  per rail



Drill 2 holes in the truck frame, put a bolt in each one and secure. Then drill all other holes.

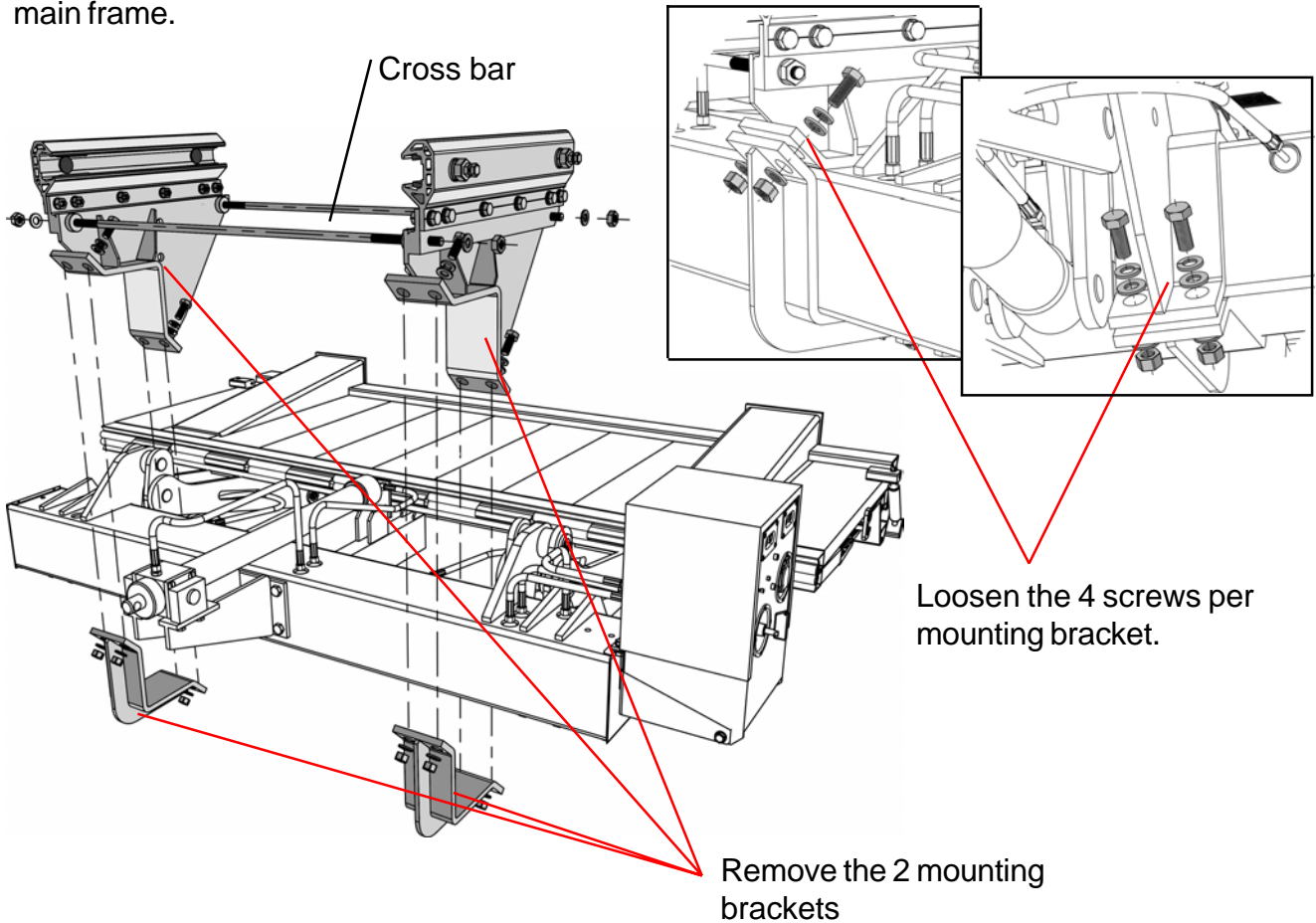
**NUMBER OF SCREWS PER RAIL: 12 pieces M16x50**

**THEN REMOVE ALL SCREW CLAMPS.**

# INSTALLATION INSTRUCTIONS

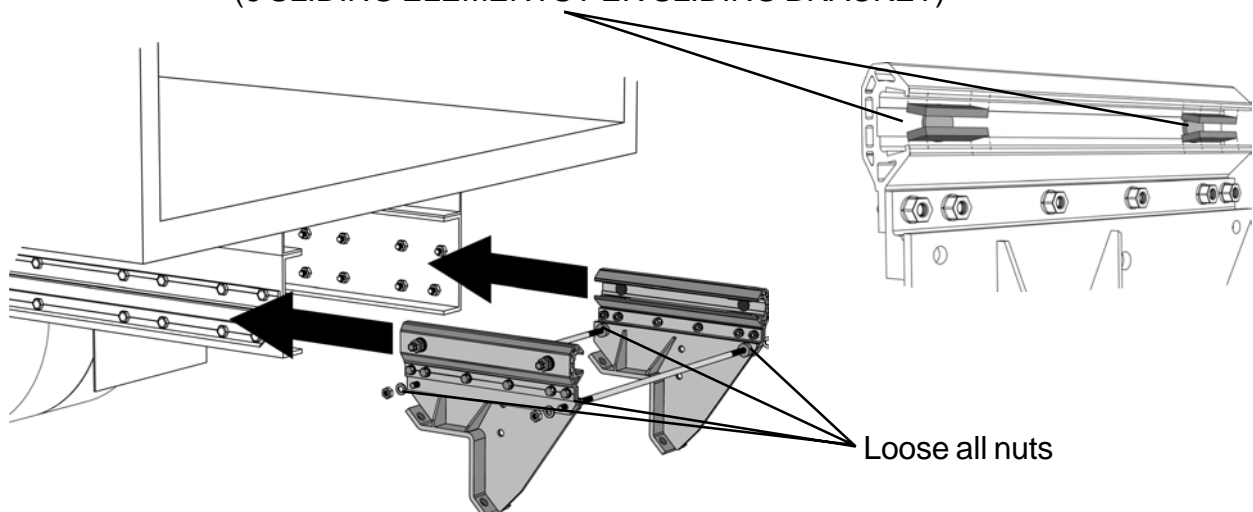
## Install the mounting brackets

Loosen the 4 screws per mounting bracket and remove the mounting brackets from the main frame.



Move the mounting brackets onto the rails.

**ATTENTION:** ALL SLIDING ELEMENTS MUST PLACE IN THE SLIDING BRACKETS (6 SLIDING ELEMENTS PER SLIDING BRACKET)

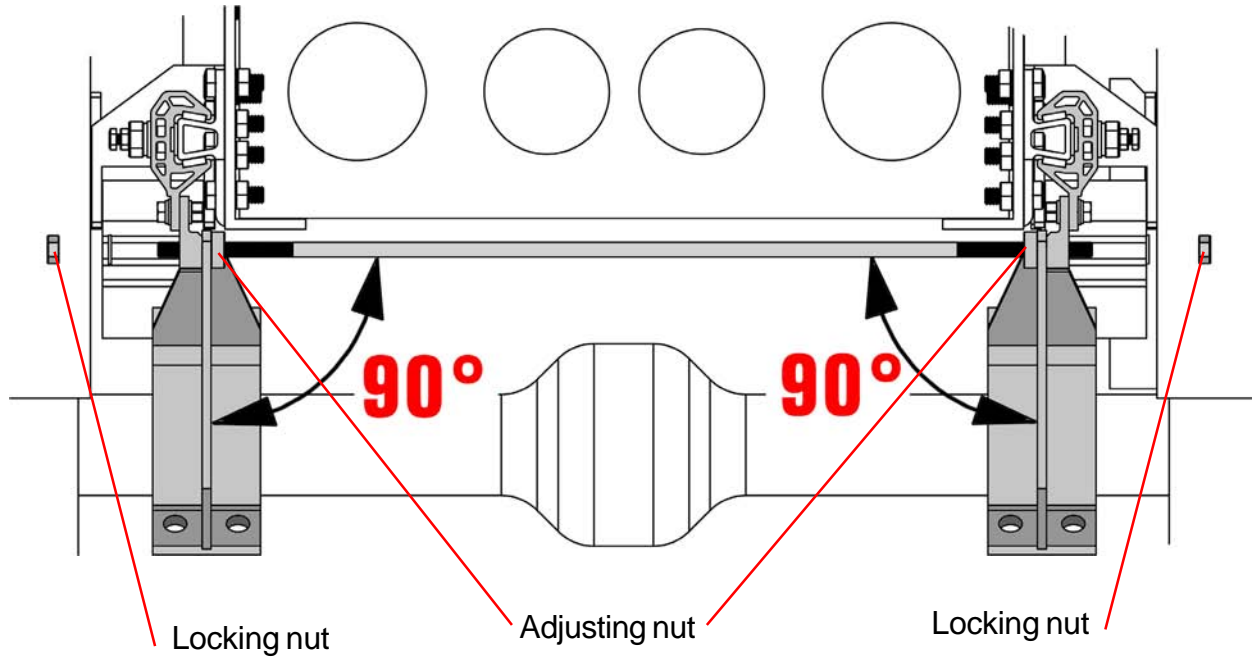




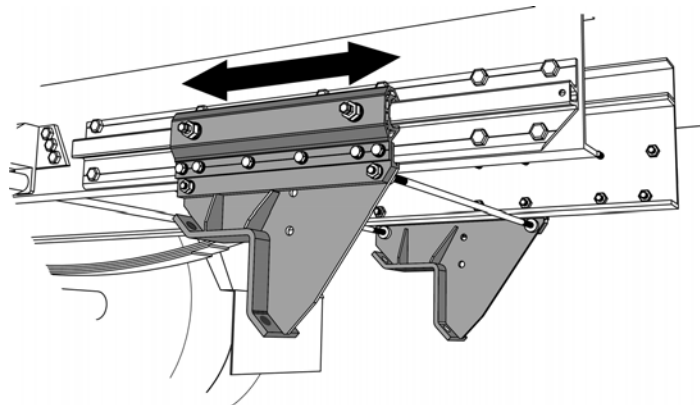
# INSTALLATION INSTRUCTIONS

## Install the mounting brackets

**ATTENTION:** The Angle between mounting bracket and cross bar must be  $90^\circ$   
You can adjust the angle with the 2 adjusting nuts on the inner side of cross bar.  
If the Angle is correct, you have to lock the 2 cross bars with the locking nut.



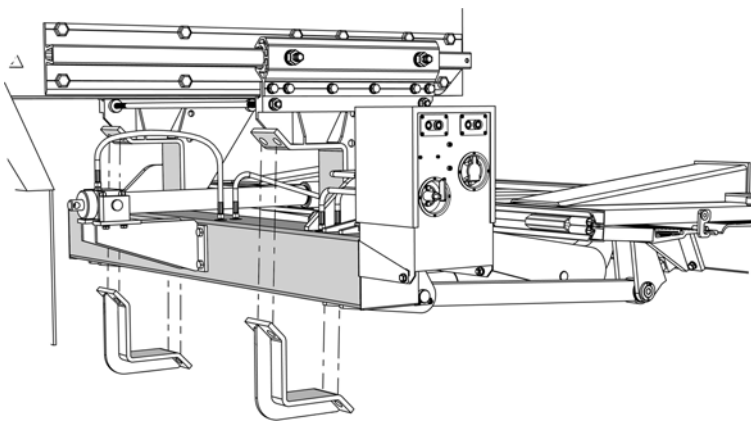
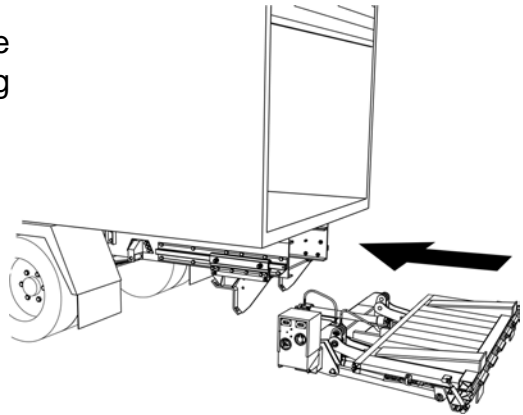
The mounting brackets must move easily with hand.



# INSTALLATION INSTRUCTIONS

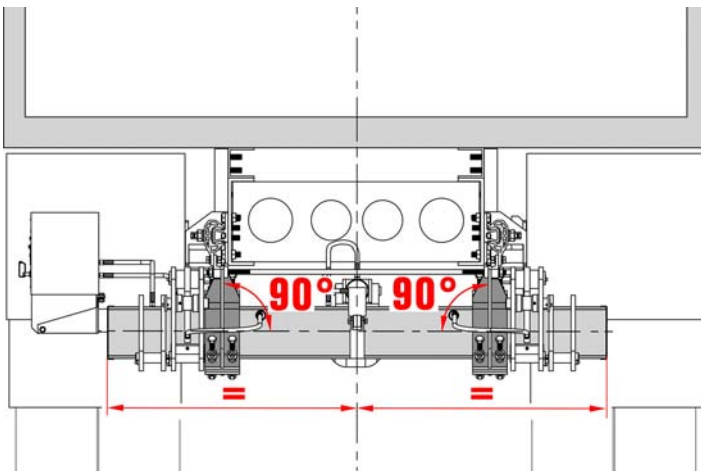
## Position the Tailgate

Place the tailgate with a fork lift under the truck. The mainframe of the tailgate must be under the mounting brackets. The tailgate must be centric to the truck.

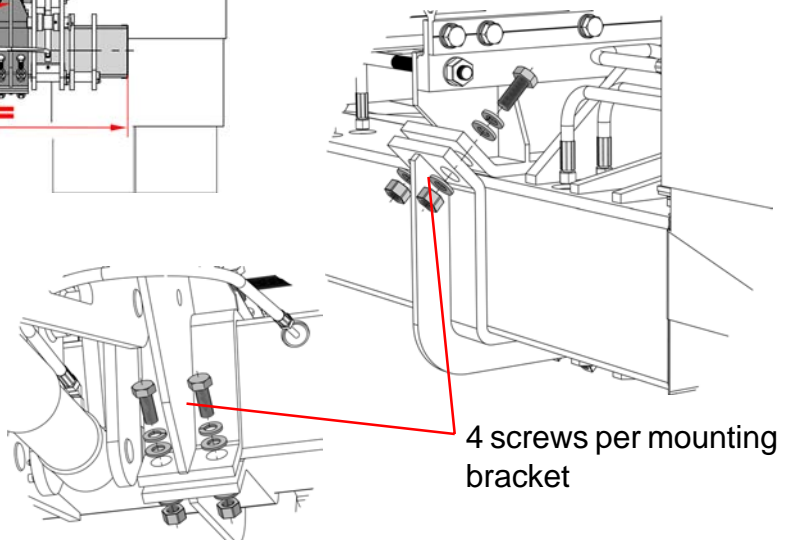


Raise the complete tailgate with a fork lift to the correct position and install the mounting brackets onto the main frame. Don't fasten the 4 screws per mounting bracket complete.

**ATTENTION:** THE ANGLE BETWEEN MOUNTING BRACKET AND MAIN FRAME MUST BE 90°. THE POSITION OF THE MAIN FRAME MUST BE CENTRIC TO THE TRUCK.



If the tailgate is in the correct position, fasten all screws at the mounting brackets. (4 per mounting bracket)



# INSTALLATION INSTRUCTIONS

## Energize the power pack

**CAUTION: REMOVE TRANSPORT FILLER CAP AND INSERT DIPSTICK:  
(There is no air hole in filler cap and the pump or reservoir will be destroyed)**

Be sure the vehicle and the liftgate are of the same voltage (12V or 24V).

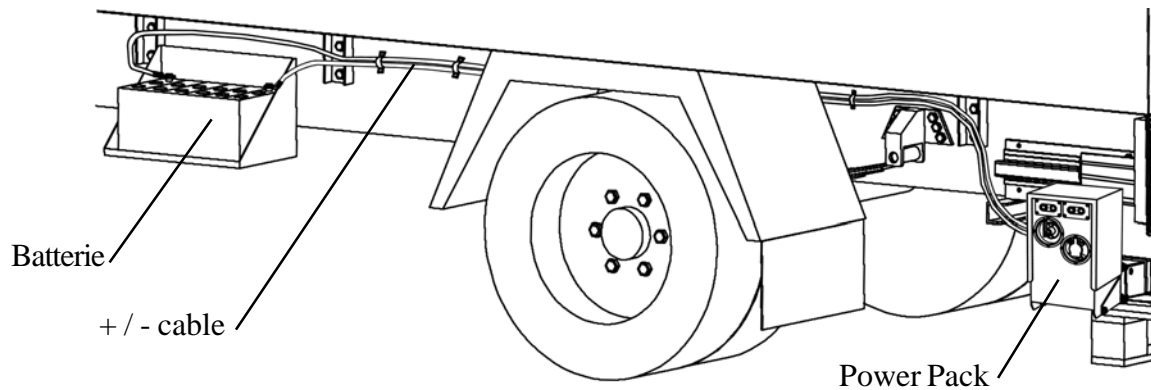
Fuse is in the power pack. (12V = 25 Amp and 24V = 16 Amp).

Connect the **positive cable, directly from the battery, to the starter solenoid.**

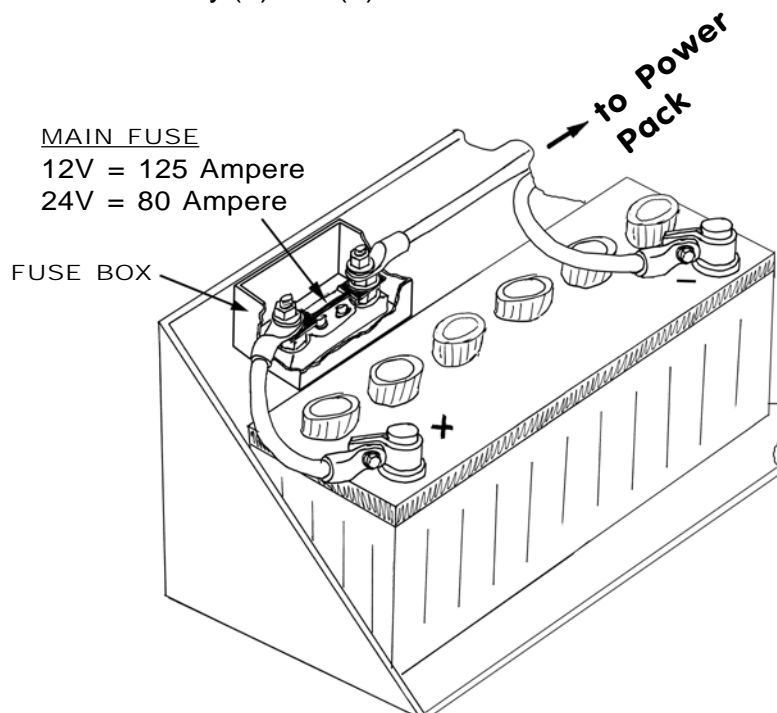
Connect the **negative cable, directly from the battery, to the motor ground.**

Complete all other electrical work. (Connect all control switches)

**CAUTION: REMOVE TRANSPORT FILLER CAP AND INSERT DIPSTICK:  
(There is no air hole in transport filler cap and the pump or reservoir will be destroyed)**



- Build in between Battery (+) and (+)-Cable the Main Fuse



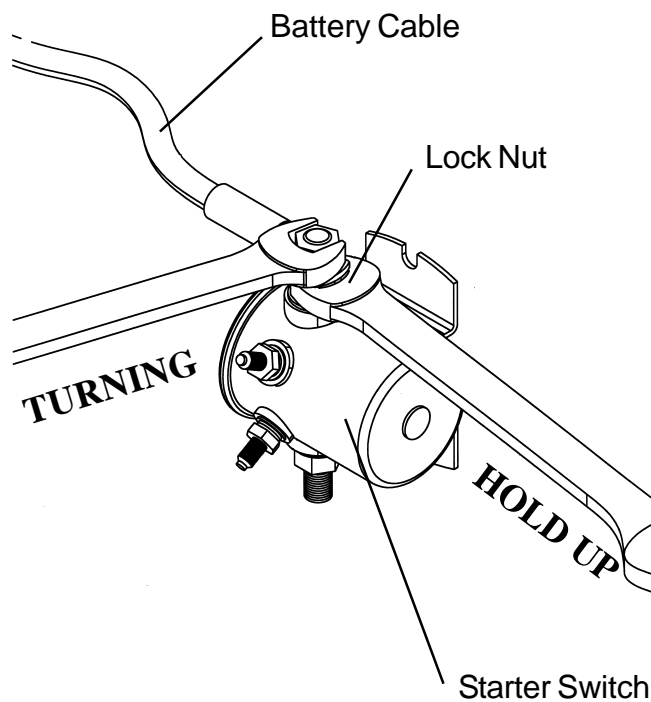
# INSTALLATION INSTRUCTIONS

## Correct wiring of the Power Pack

**NOTE:** All battery power leads must have a core area not less than 35mm<sup>2</sup> (at DC-Motor 2.0kW) and be double insulated.

Connect both battery cables (+ and -) directly from the battery to the power pack.

**ATTENTION:** By fixing the battery cable on the starter switch, you must hold up the lock nut.

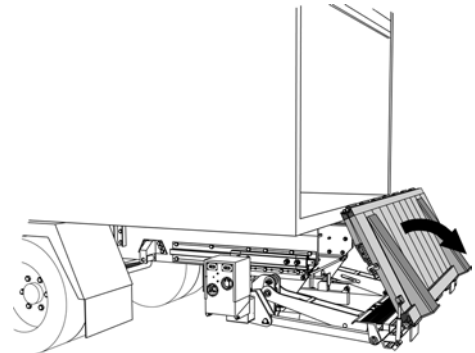
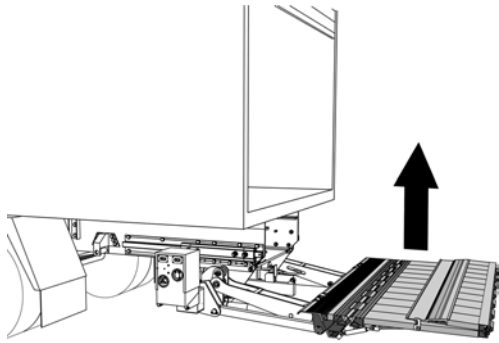


- \* Energize the power pack and actuate each of the valves to be sure they are operating properly.
- \* Please check the operating temperature regularly. It should not increase by more than -20°C to +70°C.
- \* Check a new power pack for leakage after a short period of time. Tighten any fittings that may be leaking.

# INSTALLATION INSTRUCTIONS

## Install the endstop cube

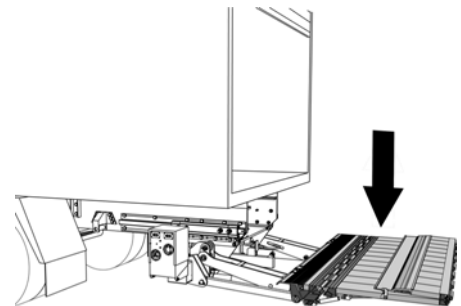
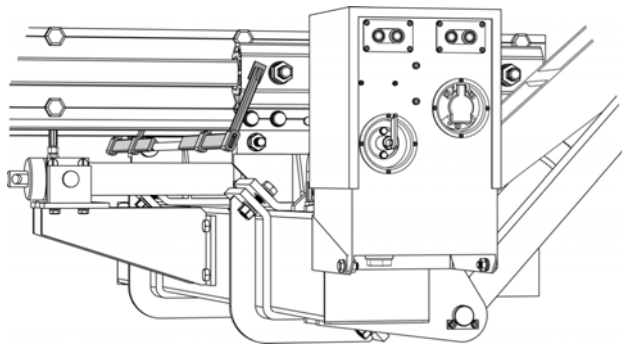
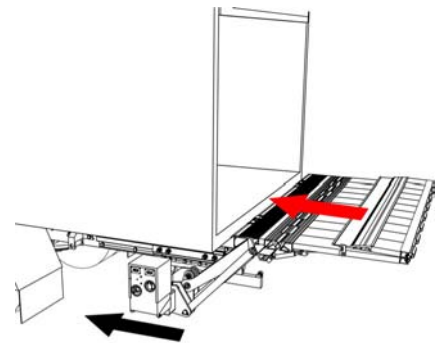
Manually slide the tail lift out to the end of the rail.  
Unfold the platform manually (1x time - not complete)



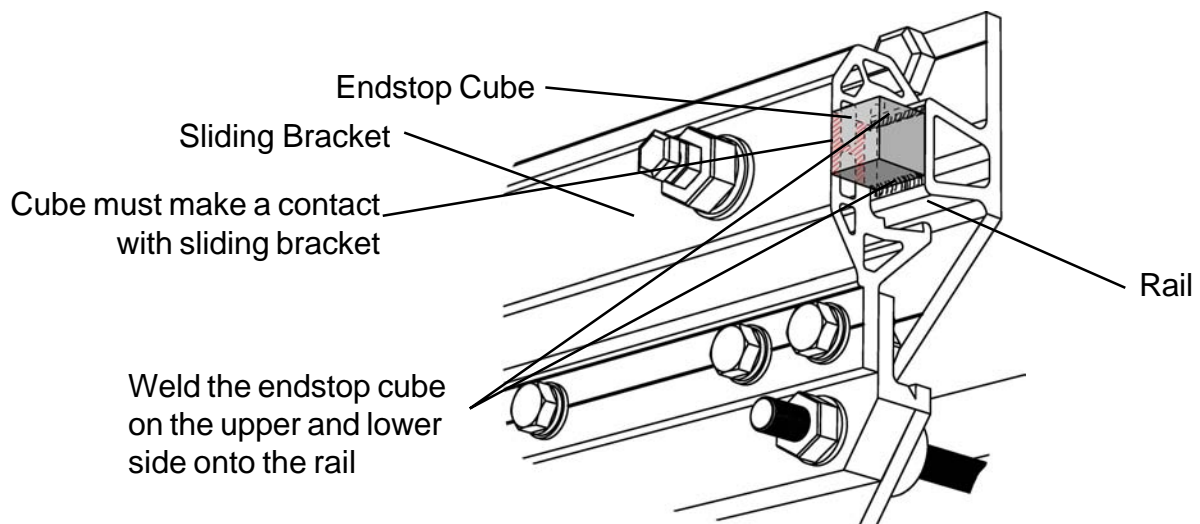
Now raise the platform to the truck floor level by pressing the "RAISE"-Button.

Move in the complete tailgate unit with the help of a fork lift, until the 2 lifting arms attach the truck.

Clamp the mounting bracket with a screw clamp onto the rail. Then lower the platform by pressing the "LOWER"-Button.



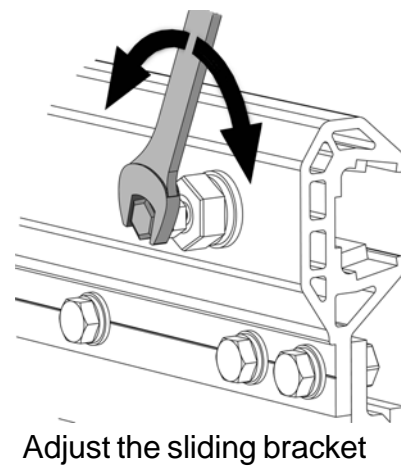
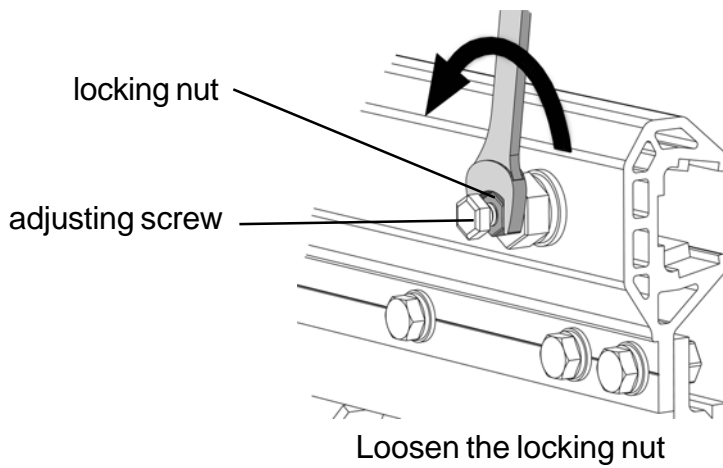
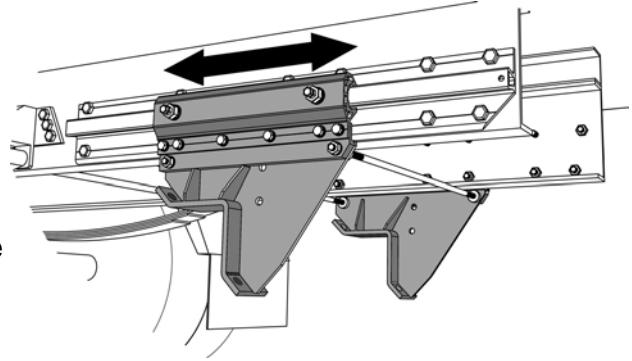
Weld the endstop cube onto the rail as shown in the picture below. (on both sides)



# INSTALLATION INSTRUCTIONS

## How to adjust the mounting brackets

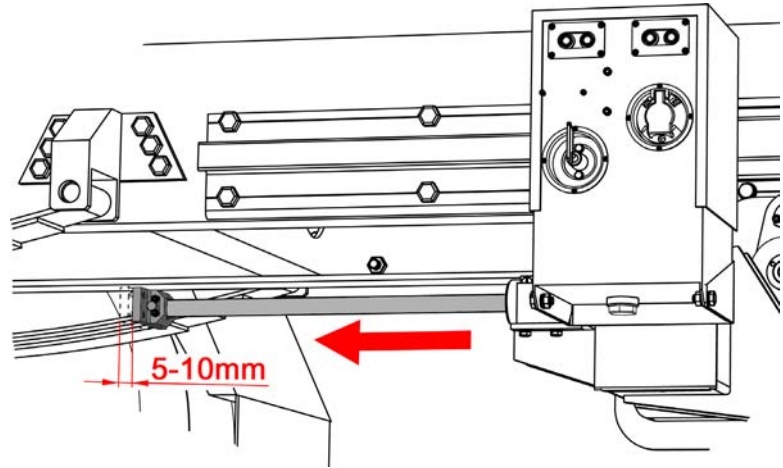
- Loosen the locking nut
- Adjust the easy movement of the mounting brackets by turning the adjusting screw.  
**ATTENTION:** The mounting brackets must move easily, but they don't have any clearance.
- Hold the adjusting screw and fasten the locking nut.



# INSTALLATION INSTRUCTIONS

## Install the cross beam for feed cylinder

Move out the feed cylinder completely by pressing the „OUT“-Button.

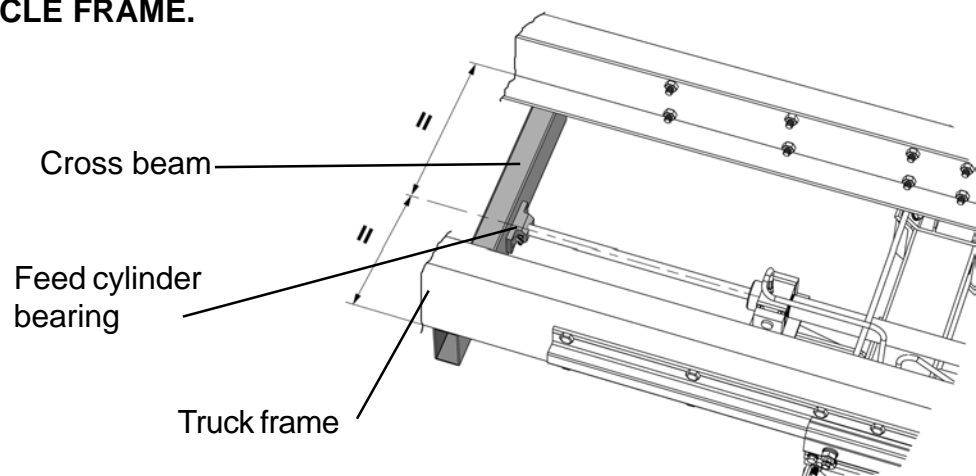


Then move in the feed cylinder for approximately 5-10mm.

Install a cross beam on the truck frame and screw on the feed cylinder bearing.

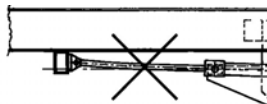
**ATTENTION: COVER THE PISTON ROD OF THE FEED CYLINDER BEFORE WELDING.**

**IT IS VERY IMPORTANT THAT THE FEED CYLINDER BE ABSOLUTELY PARALLEL WITH THE VEHICLE FRAME.**

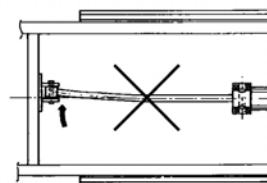


The pictures below show some problems that could happen if not installed properly.

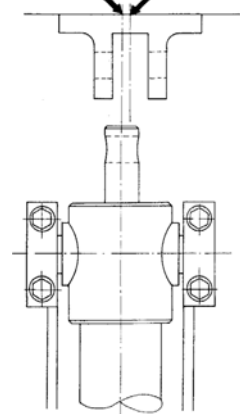
**WRONG**



**WRONG**



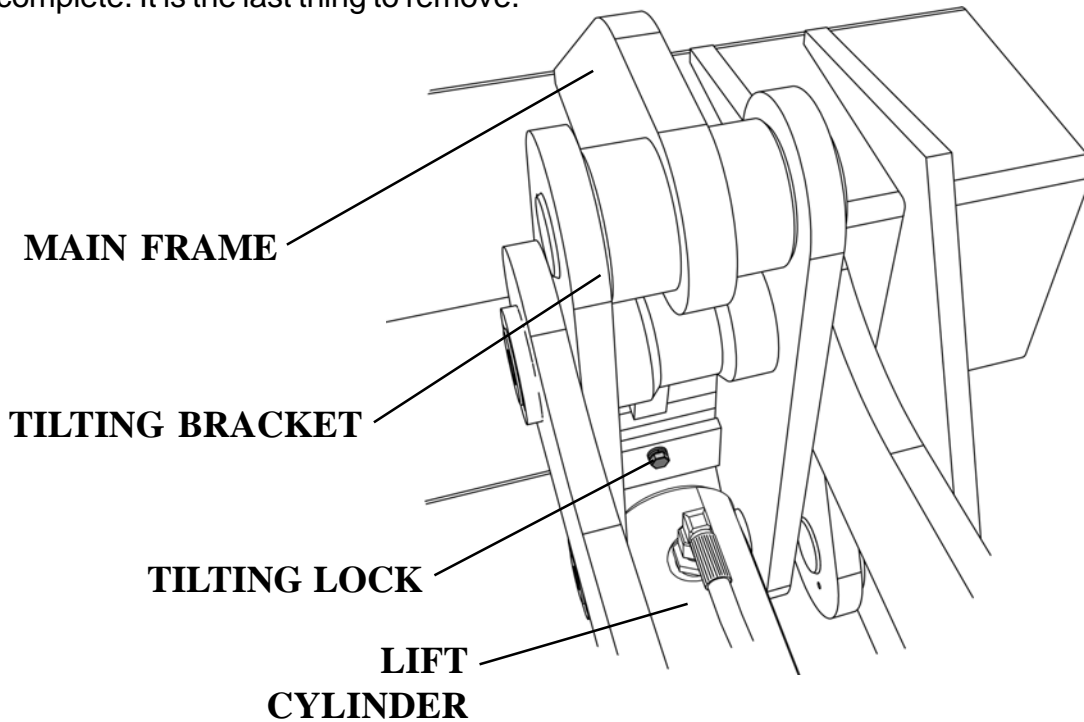
**WRONG**



# INSTALLATION INSTRUCTIONS

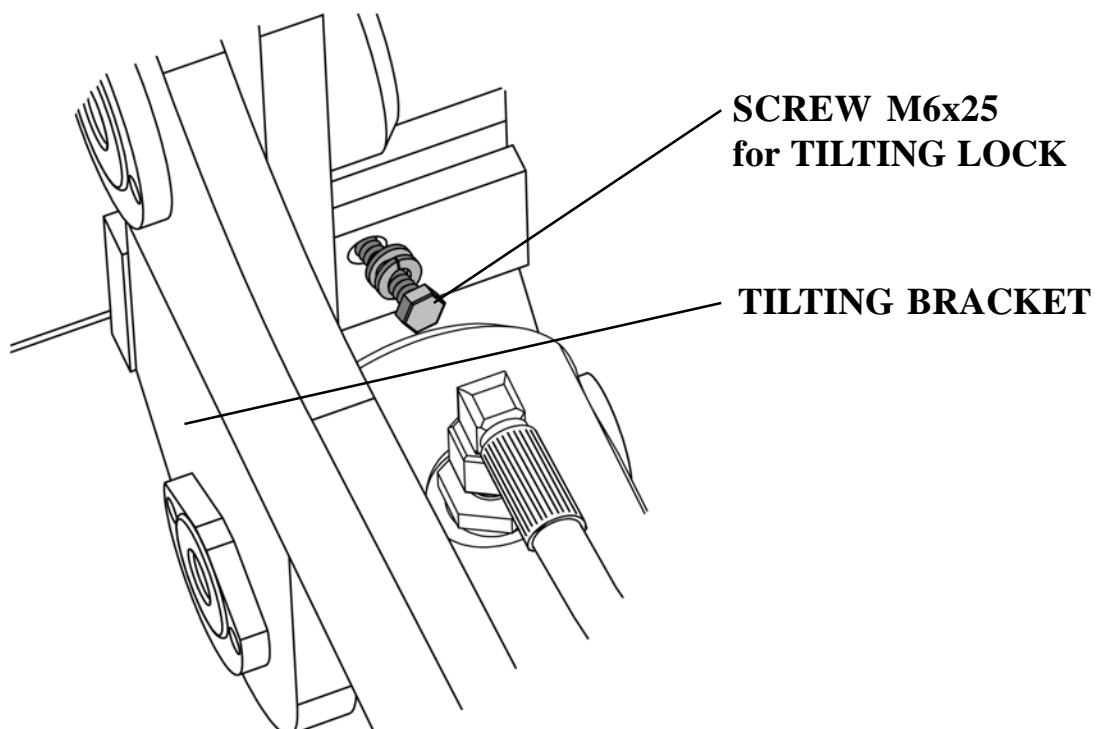
## Remove Tilting Lock

The tilting lock prevents the automatic leveling from working until the installation is complete. It is the last thing to remove.



Remove the screw M6x25 on both sides.

(Before removing the screw M6x25 the platform must be raised from ground)

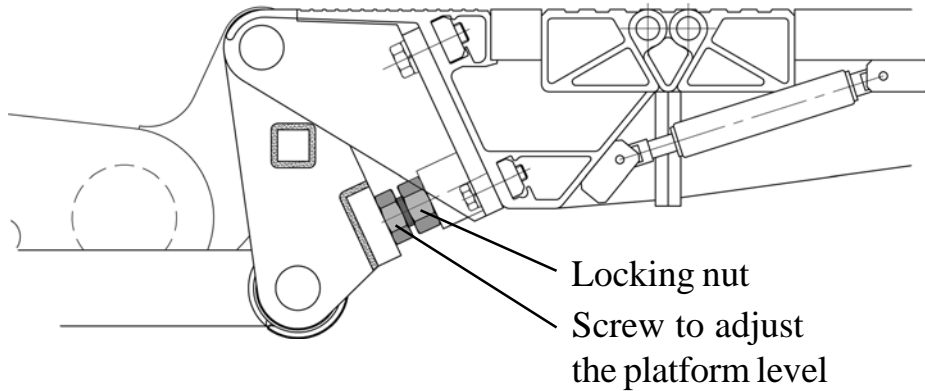




## FINISHING THE INSTALLATION

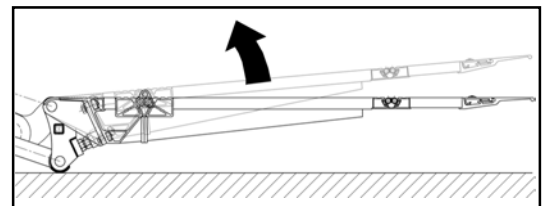
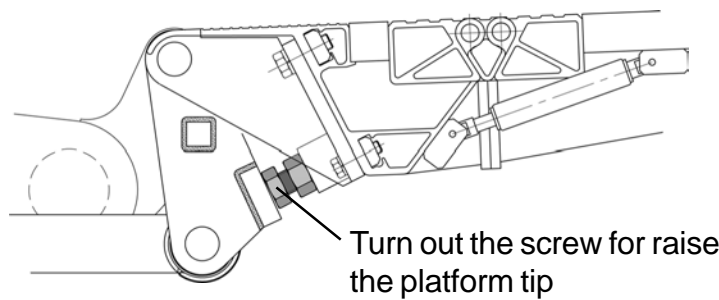
### How to adjust the platform level

- 1) Unfold the platform completely.
- 2) Loosen the locking nut on both sides.

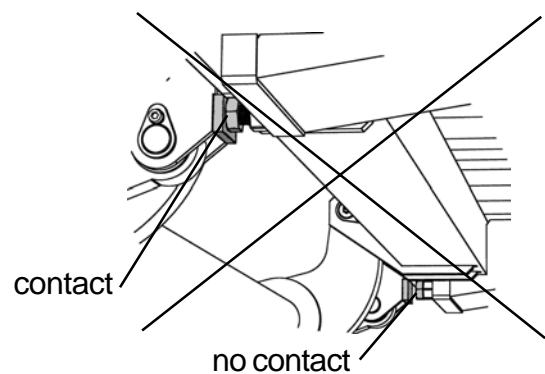
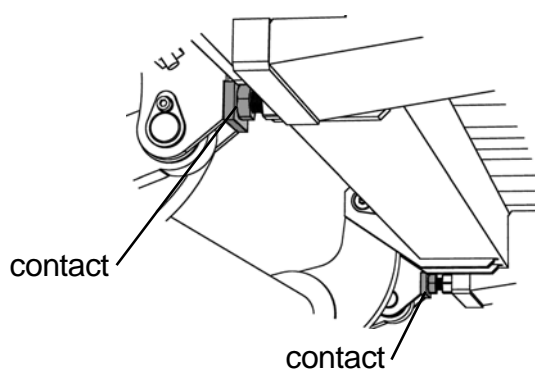
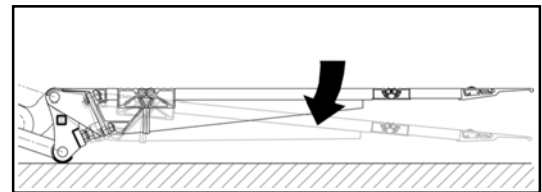
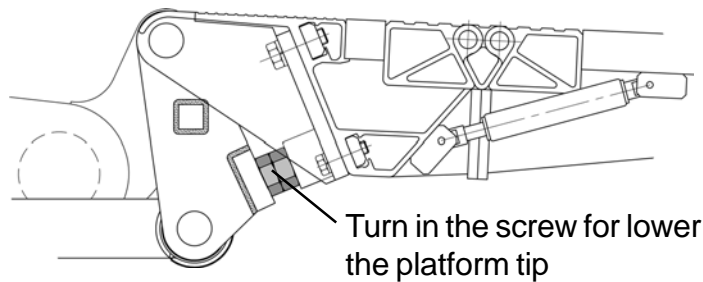


#### Adjust the platform:

- Turn **out** the screw for **raise** the platform tip.



- Turn **in** the screw for **lower** the platform tip.

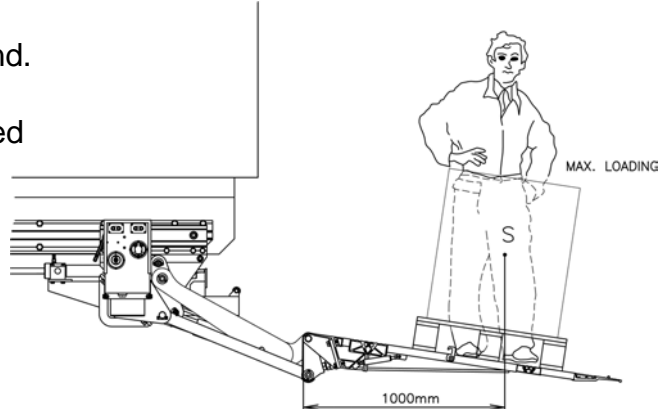


- 3) If the platform level is correct, fasten the locking nut on both sides.

## FINISHING THE INSTALLATION

### How to adjust the maximum Lifting Pressure

- 1) Turn on the Main Switch
- 2) Open the platform and lower to the ground.
- 3) Lower the platform tip to the ground.
- 4) Load the platform with the maximum rated load and one person. Be sure to place the load in the center of platform and at 1000mm from the vehicle. (Check the vehicle data plate)
- 5) Press the "Raise"-Button. If the platform does not raise, the relief valve is set too low.



### How to adjust the relief valve:

The relief valves are sealed at the factory. The seals **must not** be removed unless authorized by the factory. **Warranty is void if seal is broken.**

There are 2 different places to adjust the hydraulic pressure:

Relief Valve 3A is to adjust the **LIFTING** pressure. Factory setting is 220bar (3190PSI).

Relief Valve 3B is to adjust the **SLIDE IN** and **SLIDE OUT** pressure. Factory setting is 100bar (1450PSI).

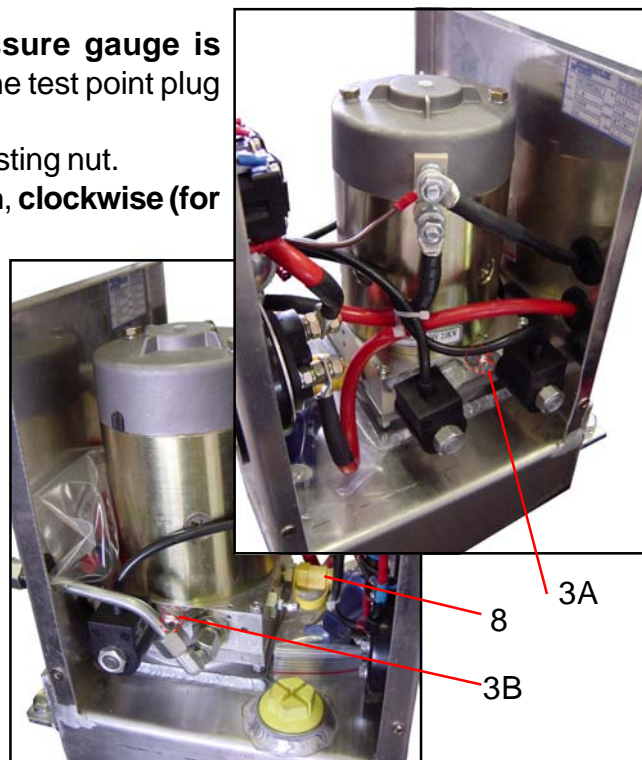
All 2 relief valves are adjustable from 50-250bar (700-3600PSI).

\* Adjustment of the relief valve:

- a) To adjust pressure, a **calibrated pressure gauge is required** and it should be connected at the test point plug (8). **NOTE: 1bar equals 14.5PSI**
- b) Remove the seal and cover from the adjusting nut.
- c) Turn the adjusting screw with a hex wrench, **clockwise (for higher pressure)** or **counter-clockwise (for lower pressure)**. Be sure to keep an eye on the pressure gauge. The maximum pressure should be 220bar (3190PSI).
- d) When pressure is correct, lock the cap screw and **check the pressure again** to be sure it has not changed. Seal the cover.

**Caution: Never bottom the relief valve. The power pack and/or hydraulic system could be damaged.**

- 6) Turn the main switch off.



## FINISHING THE INSTALLATION

### How to adjust the Flow Control Valve

Adjustable flow control valve:

The Lifting speed is not adjustable.

The In and Out speed is not adjustable.

The lowering speed is adjusted by position 7.

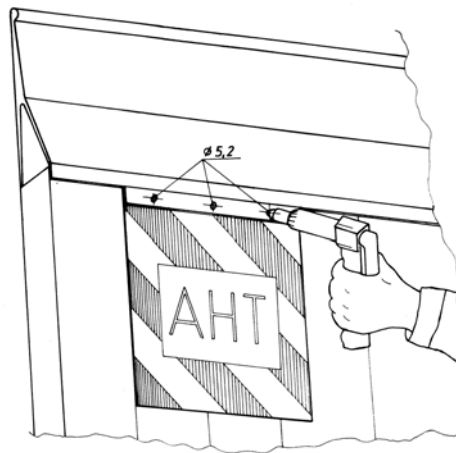
How to adjust the flow control valve:

- Be sure the adjustable flow control valves are not closed. To regulate the lowering speed, first carefully loose the M4 lock nut at the adjustable throttle.
- Turn the cap nut to the right to lower the speed and turn the cap nut to the left to increase the speed. Turn the screw one quarter turn at a time until the desired speed is reached.
- When the desired speed is reached, hold the cap nut and tighten the M4 lock nut (max. 1.5Nm).
- The **lowering speed** should be as follows:  
Maximum lowering speed should be 6" (150mm) per second. (Maximum lowering speed is 40" in 7 seconds). (1 m in 7 seconds)



7

### Install the warning flags



Mount the warning flags with 3 rivets on each flag.

### Finishing the Installation

- Lubricate all grease fittings.
- Check all Locking brackets.
- Check the oil level.
- Check all hydraulic hoses and cylinders for tightness.

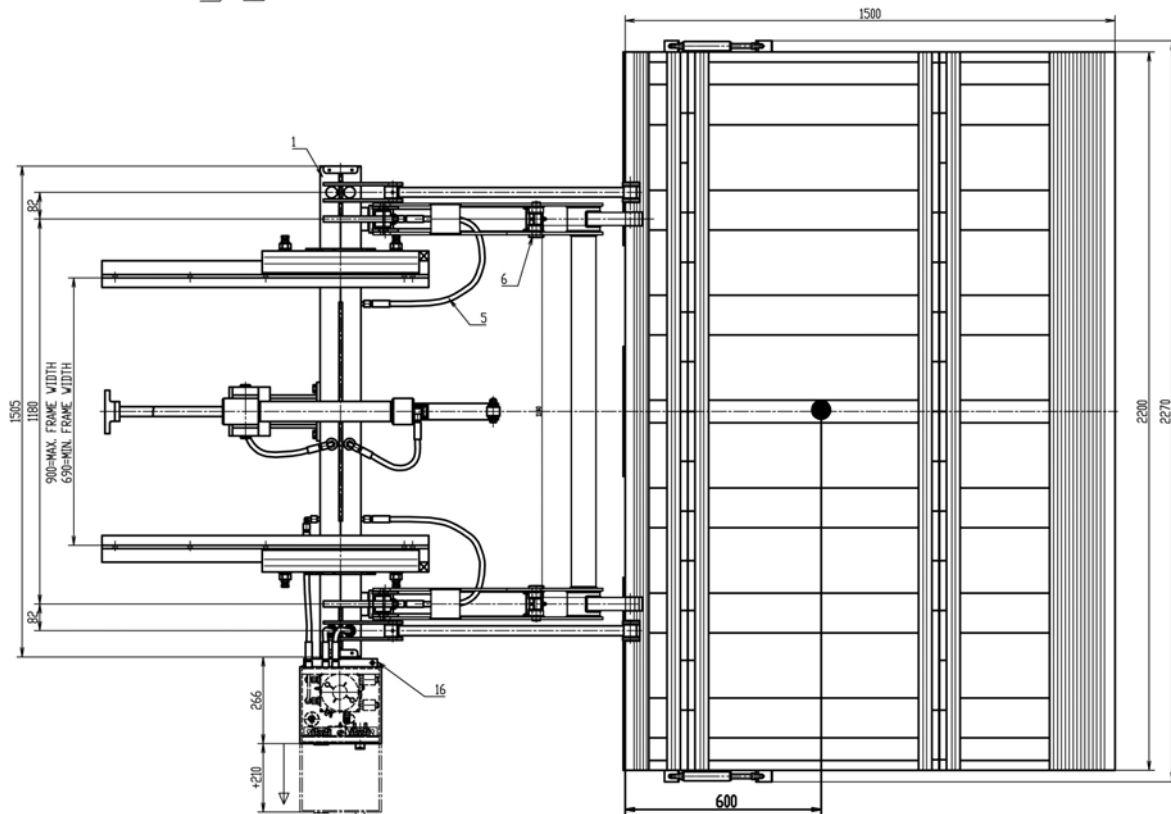
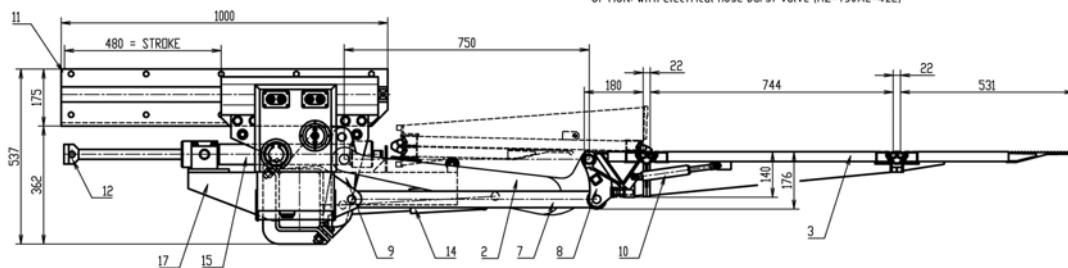
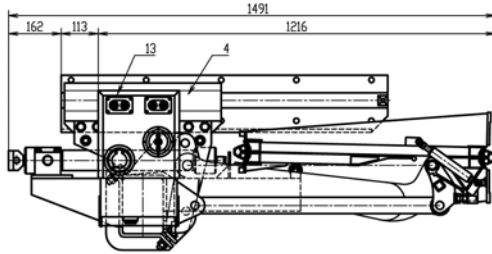
**MODEL: UTK-1000ST/AL**  
with double-acting feed cylinder

# BASIC DIMENSIONS

for Liffarm: L=750mm and Platform: L=1500mm



PART No.	PCS.	DESCRIPTION	DRAWING No.	WEIGHT
1	1	CROSS BEAM	UTK-1002ST-1-MT/1180	47kg
2	1	LIFT ARM	ATK-752ST-2L/1180	36.5kg
3	1	PLATFORM ALUMINIUM 2200x1500	UTK-1001AL-3	120.0kg
4	2	SLIDING BRACKET	UTK-1001ST-4L(R)	37.0kg
5	1 SET	HYDRAULIC HOSE, OIL, + and - (CABEL; ADDITIONAL PARTS)	UTK-1000ST/AL-5	12.0kg
6	1 SET	BOLT ASSEMBLY	ATK-751ST/AL-6	6.5kg
7	2	LEVER ARM	ATK-752ST-7L	10.0kg
8	2	JOINT PLATE	ATK-1002ST-8R	3.5kg
9	2	TILTING BRACKET	ATK-1001ST-9	6.0kg
10	2	GAS SPRING	GS-28-100	1.5kg
11	2	RAIL (ALUMINIUM)	UTK-1000AL-11L(R)	14.5kg
12	1	FEED CYLINDER BEARING	ULB-VZL-2000	0.5kg
13	1	POWER PACK	MHW-UTK-2000ST-SS	12.5kg
14	2	LIFT CYLINDER $\phi 42$ with mech. hose burst valve	HZ-750AL-42M **	6.0kg
15	1	FEED CYLINDER (Double Acting)	DW 50/30/480	9.0kg
16	1	SLIDING BRACKET FOR POWER PACK	UTK-1002ST-14	6.0kg
17	1	FEED CYLINDER BEARING	UTK-1000ST-VZL-1	7.5kg



\* READY FOR WORK

\*\* OPTION: with electrical hose burst valve (HZ-750AL-4ZE)

\* TOTAL WEIGHT

336kg

**MODEL: UTK-1000ST/AL**  
with double-acting feed cylinder

**TAILGATE SPECIFICATIONS**  
for Liffarm: L=750mm and Platform: L=1500mm



**STANDARD SPECIFICATIONS**

CAPACITY kg	<b>1000kg at 500mm Gravity Center</b>
NOMINAL PLATFORM SIZE mm	2200 Width x 1500 Length x 140 Depth
INSTALLED WEIGHT kg	336
FITTING REQUIREMENTS mm	1150 Max. Height Unloaded 1040 Min. Height Loaded 1370 Min. Underbody Clearance Required*
ADDS TO VEHICLE mm	---

**OTHER SPECIFICATIONS**

<b>WEIGHT</b>	Unit & Cylinder kg	324		
	Installation Kit kg	12		
<b>PLATFORM</b>	Aluminum Extrusion Profile	30mm thick		
	Execution	folding 2x		
	Trolley Stops	OPTION		
	Platform Angle	6.3°		
<b>LIFT ARMS</b>	Construction	2x8mm Steel Plate		
		40mm Steel Plate on the Platformside		
	Arm Depth mm	96		
	Arm Length mm	750		
	Re-Bushable	Yes		
	Overall width mm	1276		
<b>MAIN FRAME</b>	Construction	125mm x 170mm x 5		
	Bracket Thickness mm	12		
	Guiding Rails	Special Extrusion Aluminium Profil		
<b>PINS</b>	Material	Ø25; Ø30mm Hard Chrome Plated		
	Grease Nipples	Yes		
	Pinlock and Srews	Stainless steel		
<b>BUSHES</b>		Steel Teflon Coated		
<b>HYDRAULIC</b>	Power Pack	M.H.W.		
	Weather Proof Alum Enclosure and Sound Proof	Included		
	Motor Size	2.0kW		
	All Aluminum Cylinder:	Quantity	Two (2) Lift	One (1) Feed
		Size	Ø42mm; max. Stroke:222mm	Ø50/Ø30mm; max.Stroke:480mm
	Quality	Cylinder are all Aluminium Piston are all Ceramic plated and Teflon Sealed for Long Life	Piston Is Hard Chrome Plated Rod Is Steel	
	Hose Burst Valve	one mechanical Valve on each Lift Cylinder		
	Leak Proof Check Valve	Included		
	Hoses	Ø6mm (1/4") Thermo Plastic 3pcs. L=750mm; 4pcs. L=350mm		
	Flow Control	Pressure Compensating		
Oil Type	Hydraulic Oil 22cSt			
<b>OPERATION</b>	Lift Operation	Power up/Gravity down		
	Tilting Operation	automatical mechanical Tilting on the ground floor		
	Out/In Operation	Power Out/ Power In		
	Closing Operation	Manual Closing		
	Locking Device	Lock between Truck Frame and folded Platform		
<b>CONROLS</b>	Battery Isolation Switch	Integral to Power Pack		
	Fixed Control	4 Button on Power Pack		
	Removable Remote Push Button	2 Button Hand Held c/w 3m Lead		
	Safety Plug	Yes		
	Base	Yes (Flush Mounted)		

\* Subject to Vehicle Type & Floor Height

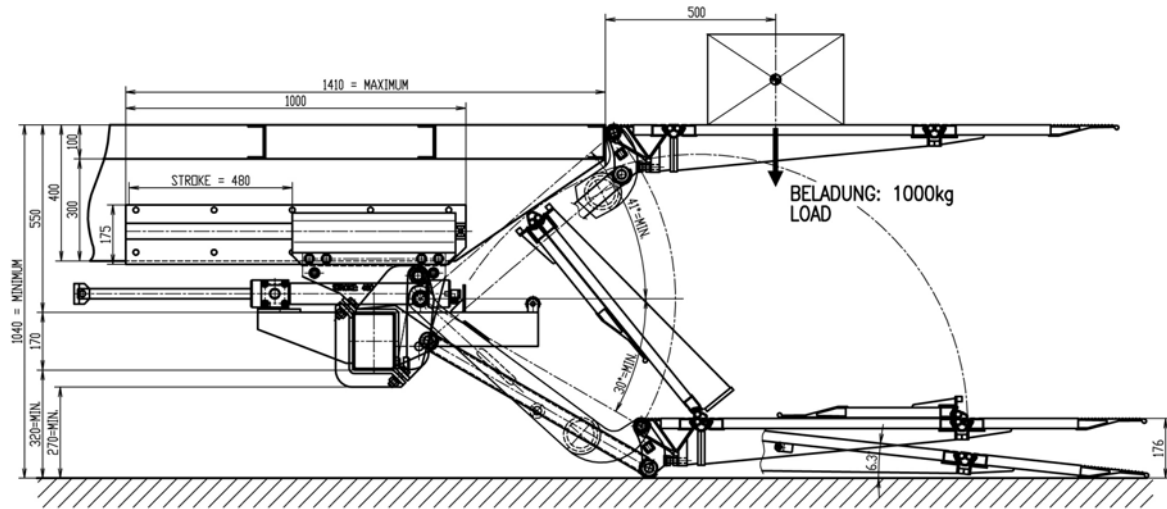
MODEL: UTK-1000ST/AL

# TAILGATE KINEMATICS

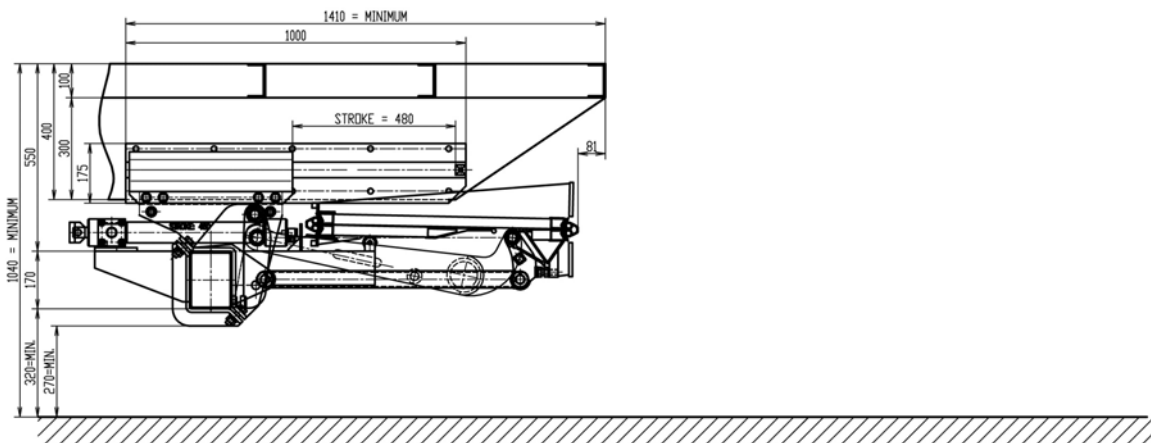
for Liftarm: L=750mm and Platform: L=1500mm



## MINIMUM MEASUREMENTS - WORKING POSITION



## MINIMUM MEASUREMENTS - TRANSPORT POSITION



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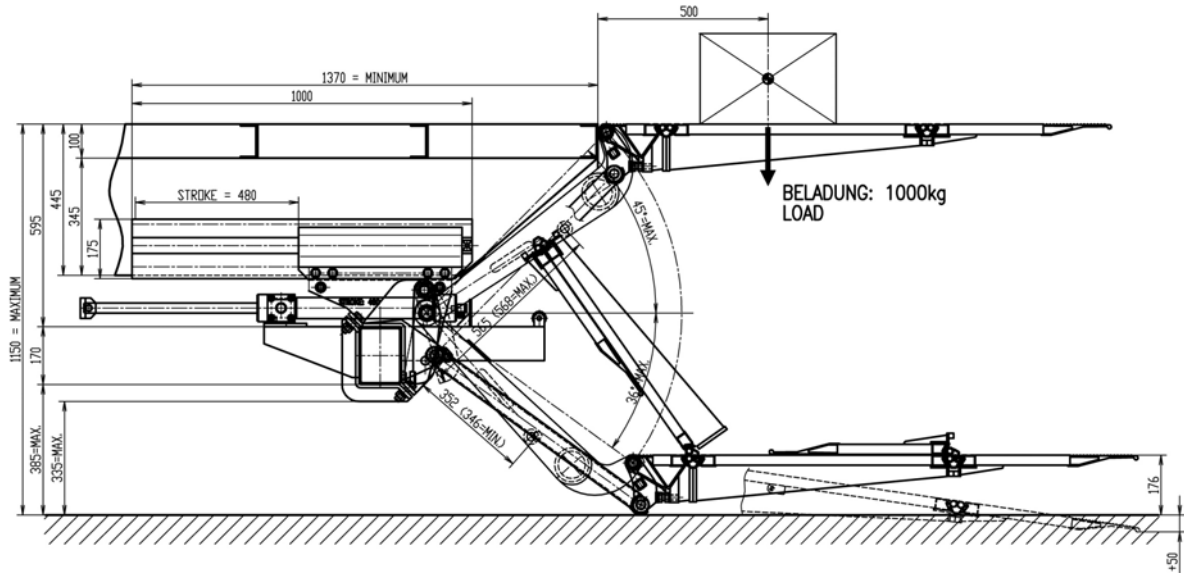
MODEL: UTK-1000ST/AL

# TAILGATE KINEMATICS

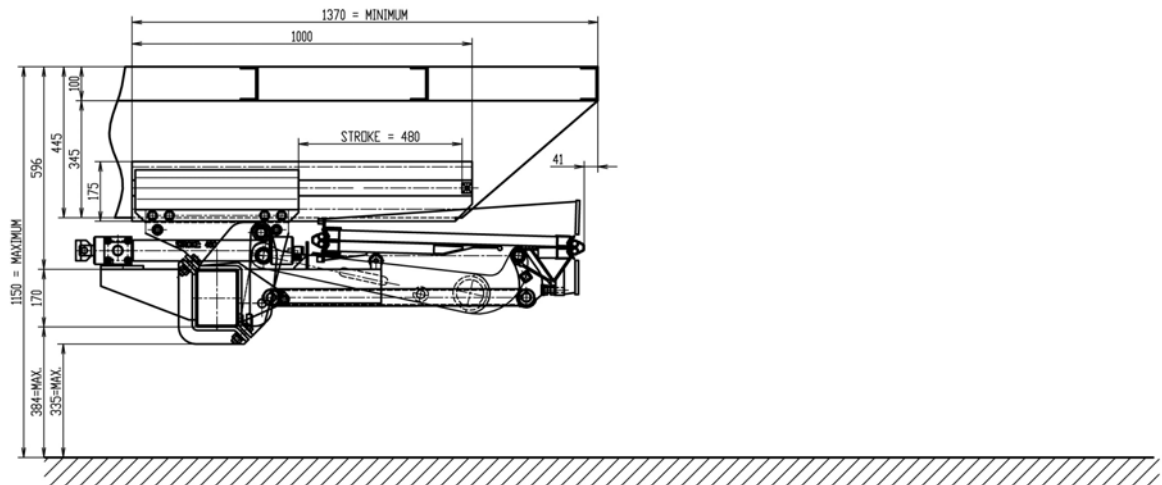
for Liftarm: L=750mm and Platform: L=1500mm



## MAXIMUM MEASUREMENTS - WORKING POSITION



## MAXIMUM MEASUREMENTS - TRANSPORT POSITION



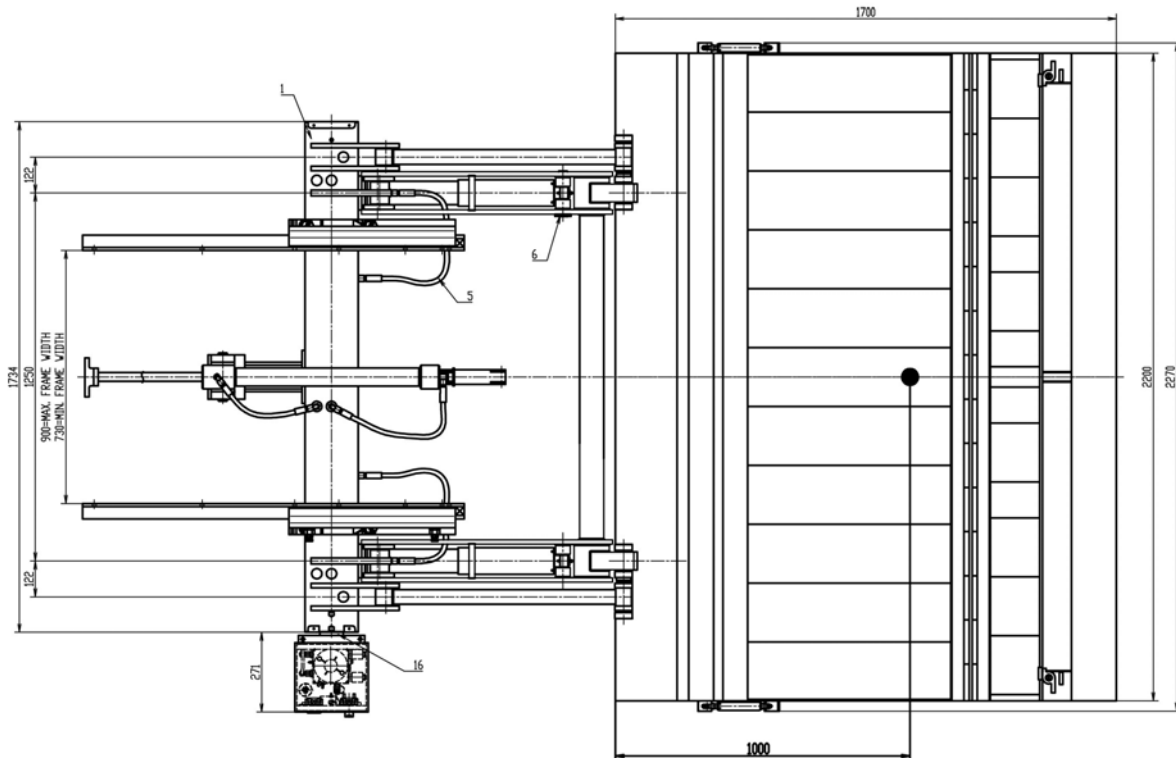
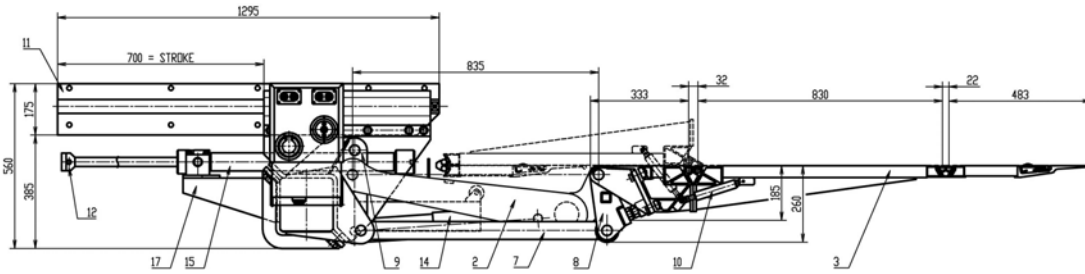
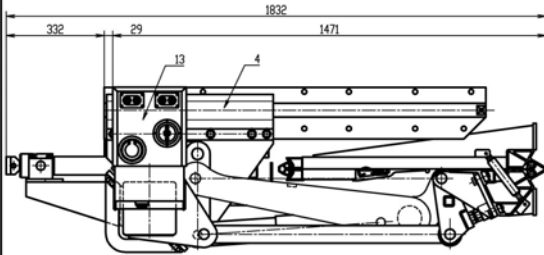
**MODEL: UTK-2000ST/AL-SS**  
with double-acting feed cylinder

# BASIC DIMENSIONS

for Liffarm: L=835mm and Platform: L=1700mm



PART No.	PCS.	DESCRIPTION	DRAWING No.	WEIGHT
1	1	CROSS BEAM	UTK-2000ST-SS-IVZ-MT/1250	103kg
2	1	LIFT ARM	ATK-2000ST-SS-2/835/1250	77.0kg
3	1	PLATFORM ALUMINIUM 2200x1700	UTK-2000ST-SS-3AR	193.0kg
4	2	SLIDING BRACKET	UTK-2000ST-SS-4L(R)	62.0kg
5	1 SET	HYDRAULIC HOSE, OIL, + and - CABEL, ADDITIONAL PARTS	UTK-2000ST-SS-5	15.0kg
6	1 SET	BOLT ASSEMBLY	ATK-2000ST-SS-6	14.5kg
7	2	LEVER ARM	ATK-2000ST-SS-7/835	16.0kg
8	2	JOINT PLATE	ATK-2000ST-SS-8AL(R)	13.2kg
9	2	TILTING BRACKET	ATK-2000ST-SS-9L(R)	16.7kg
10	2	GAS SPRING	GS-28-100	1.5kg
11	2	RAIL (ALUMINIUM)	UTK-2001AL-11L(R)	18.0kg
12	1	FEED CYLINDER BEARING	ULB-VZL-2000	0.5kg
13	1	POWER PACK	MHW-UTK-2000ST-SS	12.5kg
14	2	LIFT CYLINDER Ø60 with mech. hose burst valve	HZ-2000AL-60M**	13.4kg
15	1	FEED CYLINDER (Double Acting)	DW 50/30/700	11.5kg
16	1	SLIDING BRACKET FOR POWER PACK	ATK-2000ST-14	2.4kg
17	1	FEED CYLINDER BEARING	UTK-2000ST-SS-VZL-1	8.0kg



\* READY FOR WORK \* TOTAL WEIGHT 578kg  
 \*\* OPTION: with electrical hose burst valve (HZ-2000AL-60E)



**MODEL: UTK-2000ST/AL-SS**  
with double-acting feed cylinder

**TAILGATE SPECIFICATIONS**  
for Liffarm: L=835mm and Platform: L=1700mm



**STANDARD SPECIFICATIONS**

CAPACITY kg	<b>2000kg at 1000mm Gravity Center</b>
NOMINAL PLATFORM SIZE mm	2200 Width x 1700 Length x 185 Depth
INSTALLED WEIGHT kg	578
FITTING REQUIREMENTS mm	1435 Max. Height Unloaded 1100 Min. Height Loaded 1490 Min. Underbody Clearance Required*
ADDS TO VEHICLE mm	---

**OTHER SPECIFICATIONS**

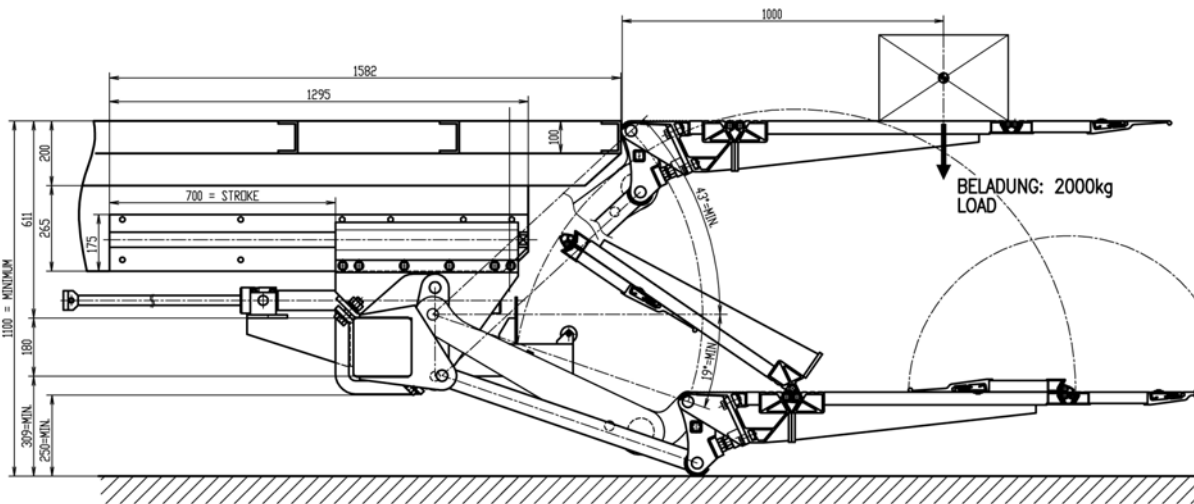
<b>WEIGHT</b>	Unit & Cylinder kg	563		
	Installation Kit kg	15		
<b>PLATFORM</b>	Aluminum Extrusion Profile	40mm; 35mm thick		
	Execution	folding 2x		
	Trolley Stops	Yes		
	Platform Angle	16% or 9'		
<b>LIFT ARMS</b>	Construction	2x15mm Steel Plate		
		60mm Steel Plate on the Platformside		
	Arm Depth mm	144		
	Arm Length mm	835		
	Re-Bushable	Yes		
	Overall width mm	1324		
<b>MAIN FRAME</b>	Construction	180mm x 180mm x 8		
	Bracket Thickness mm	10		
	Guiding Rails	Special Extrusion Aluminium Profil		
<b>PINS</b>	Material	ø30; ø35mm Hard Chrome Plated		
	Grease Nipples	Yes		
	Pinlock and Screws	Stainless steel		
<b>BUSHES</b>		Steel Teflon Coated		
<b>HYDRAULIC</b>	Power Pack	M.H.W.		
	Weather Proof Alum Enclosure and Sound Proof	Included		
	Motor Size	2.0kW		
	All Aluminum Cylinder:	Quantity	Two (2) Lift	One (1) Feed
		Size	ø60mm; max. Stroke:310mm	ø50/ø30mm; max.Stroke:700mm
		Quality	Cylinder are all Aluminium Piston are all Ceramic plated and Teflon Sealed for Long Life	Piston Is Hard Chrome Plated Rod Is Steel
		Hose Burst Valve	one mechanical Valve on each Lift Cylinder	
		Leak Proof Check Valve	Included	
		Hoses	ø6mm (1/4") Thermo Plastic 2pcs. L=750mm; 5pcs. L=350mm	
		Flow Control	Pressure Compensating	
	Oil Type	Hydraulic Oil 22cSt		
<b>OPERATION</b>	Lift Operation	Power up/Gravity down		
	Tilting Operation	automatical mechanical Tilting on the ground floor		
	Out/In Operation	Power Out/ Power In		
	Closing Operation	manual Closing		
	Locking Device	Lock between Truck Frame and folded Platform		
<b>CONROLS</b>	Battery Isolation Switch	Integral to Power Pack		
	Fixed Control	4 Button on Power Pack		
	Removable Remote Push Button	2 Button Hand Held c/w 3m Lead		
	Safety Plug	Yes		
	Base	Yes (Flush Mounted)		

\* Subject to Vehicle Type & Floor Height

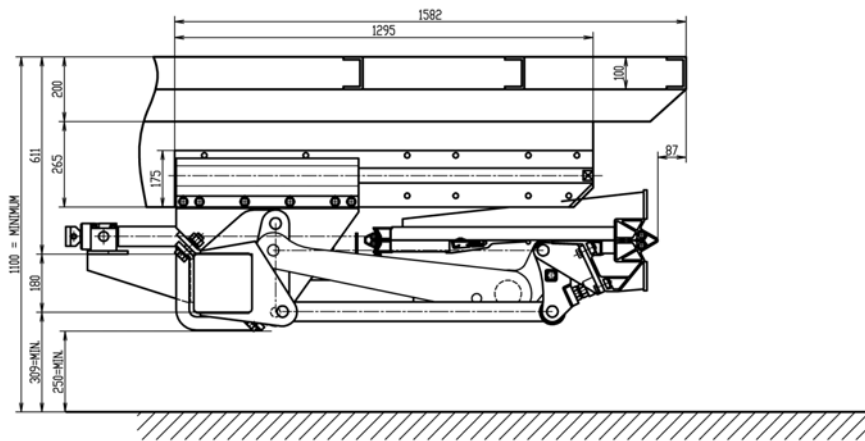
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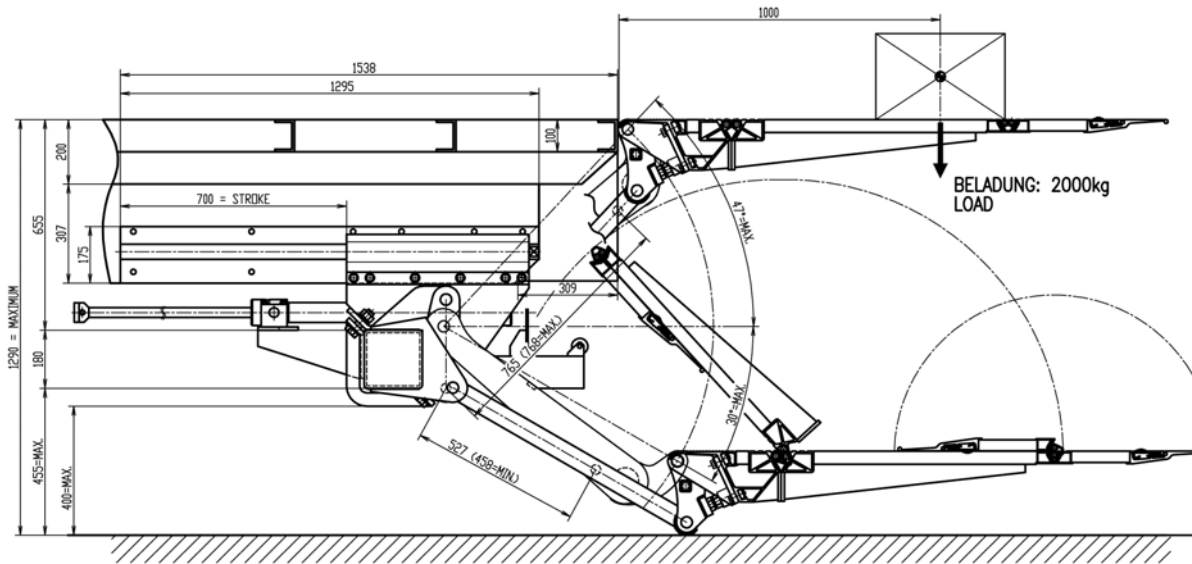
MINIMUM MEASUREMENTS - WORKING POSITION



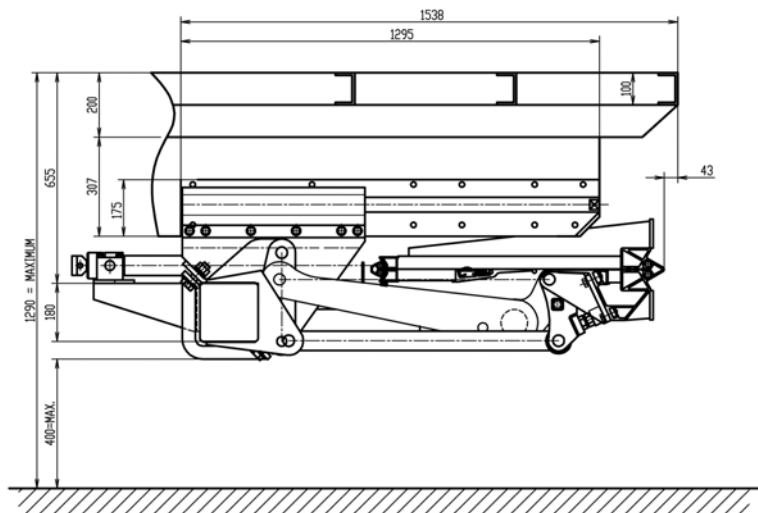
MINIMUM MEASUREMENTS - TRANSPORT POSITION



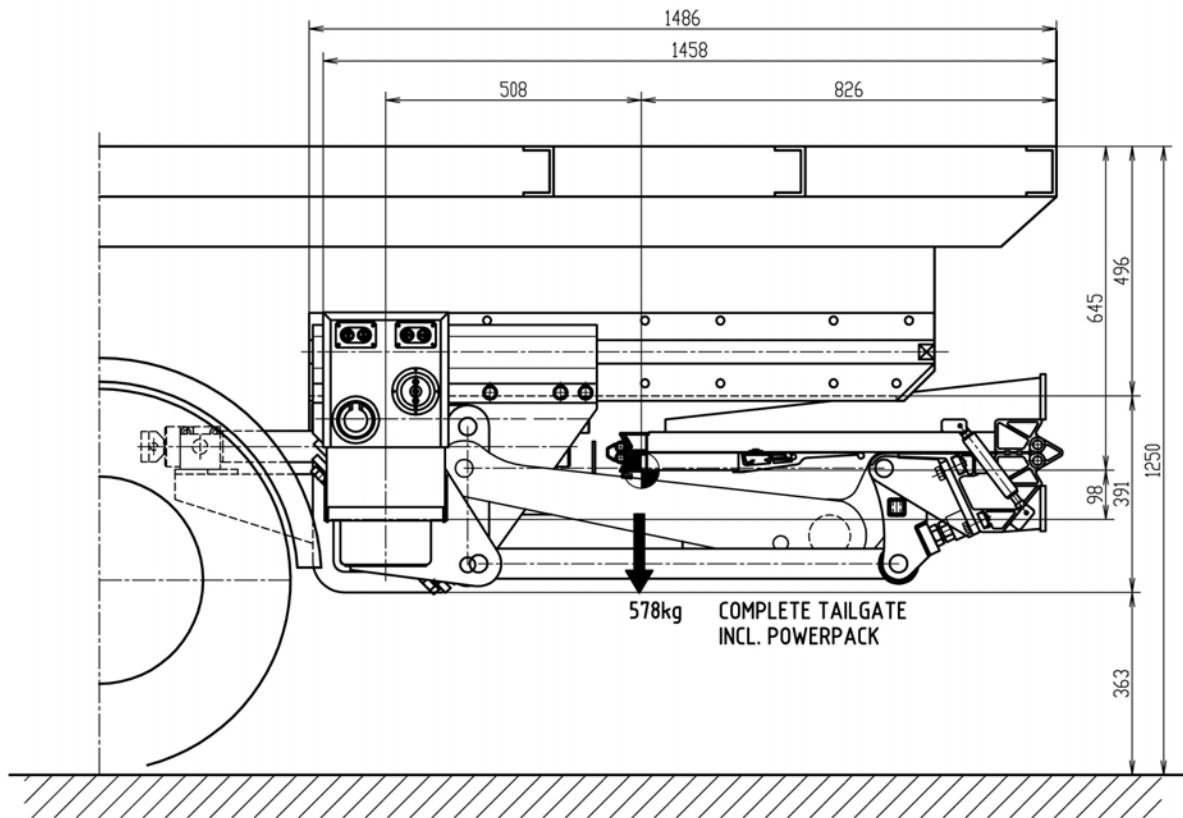
MAXIMUM MEASUREMENTS - WORKING POSITION



MAXIMUM MEASUREMENTS - TRANSPORT POSITION

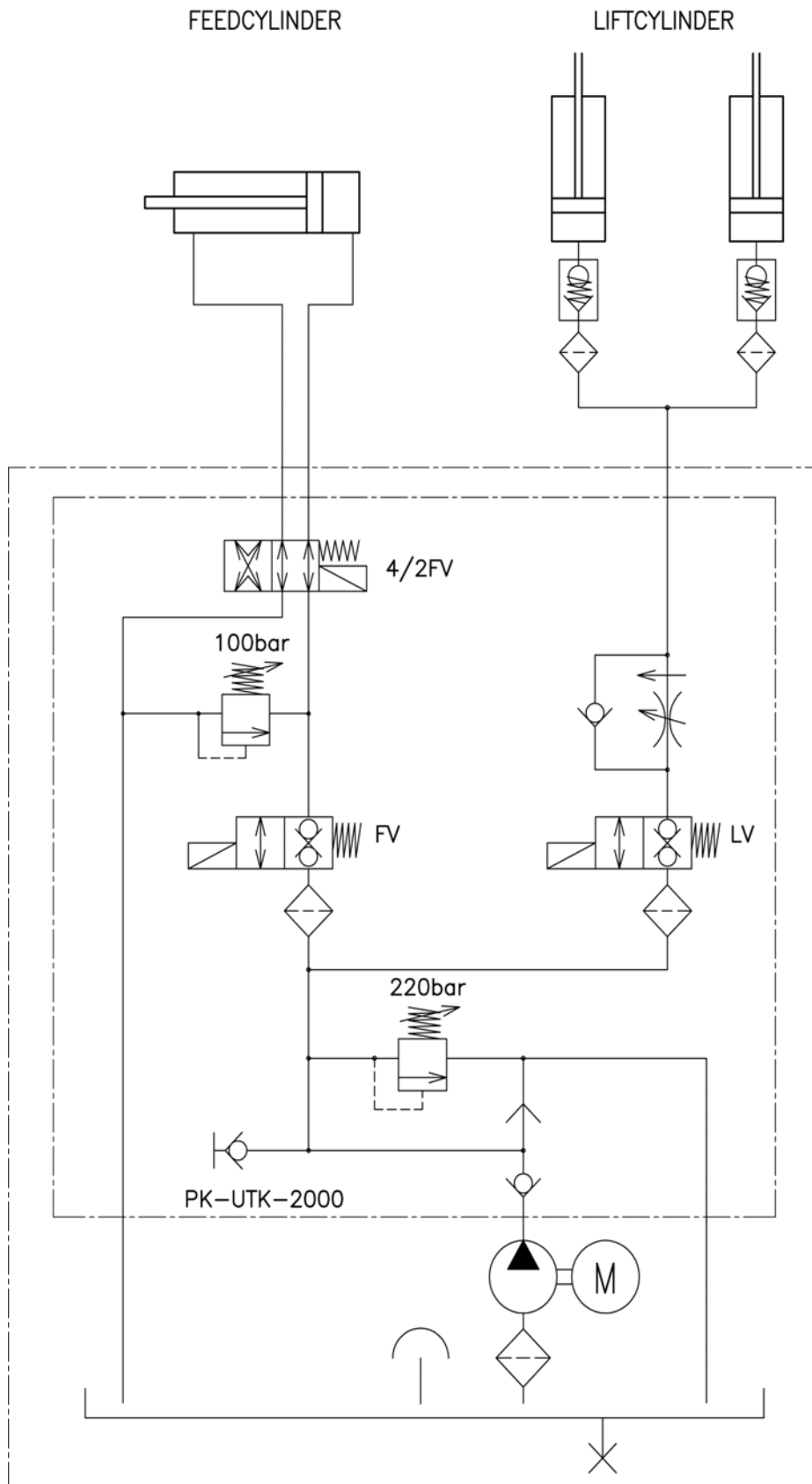


**CENTRE OF MASS FOR UTK-2000ST/AL-SS IN TRAVELING POSITION**



# HYDRAULIC-SCHEMATIC

for pump head PK-UTK-2000  
for double-acting feed cylinder



# ELECTRIC-SCHEMATIC

with 2-Button-Remote Control

