

# WienoldLIFTE



*Operators Manual*

**WLU**  
4 in 1

Wienold **Lifte Universal**

3' - 10.00"  
(1.17 m)



WLU



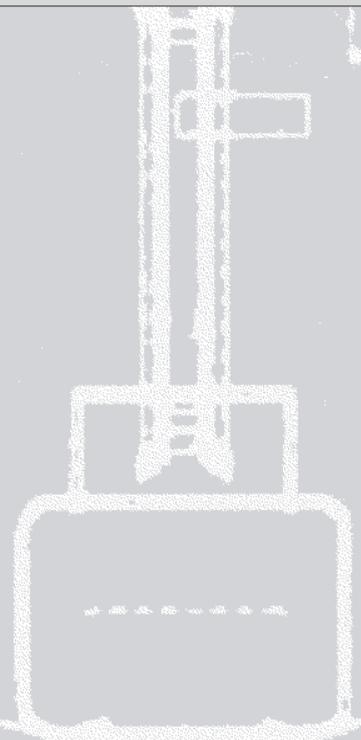
WLU /K



WLU /Ks



WLU /T



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## Important

Read, understand and adhere to these safety rules and operating instructions before operating this machine. Only trained and authorised personnel shall be permitted to operate this machine. This manual should be considered a permanent part of your machine and should remain with the machine at all times. If you have any questions, call Wienold in Germany.

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# Safety Rule



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## Warning

**Failure to adhere to the instructions and safety rules in this manual may result in death or serious injury.**

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## Do Not Operate Unless:

- Learn and practice the principles of safe machine operation contained in this operators' manual.
  - 1 Avoid hazardous situations.**
    - Know and understand the safety rules before going on to the next section.**
  - 2** Always perform a pre-operation inspection.
  - 3** Always perform the function tests prior to use.
  - 4** Inspect the workplace.
  - 5** Only use the machine as it was intended.
- Read, understand and adhere to the manufacturers' instructions and safety rules, safety and operators' manuals and machine labels.
- Read, understand and adhere to employer's safety rules and worksite regulations.
- Read, understand and adhere to all applicable governmental regulations.
- Ensure that personnel are properly trained to safely operate the machine.

SAFETY RULE

## Fall Hazards

Do not use the machine as a personal lifting platform or step.

Do not stand on the load handling attachments.

Do not climb on the mast.

## Tip-over Hazards

Do not raise the load unless the stabilisers (if equipped) and legs have been fully lowered and locked and the casters are in full contact with the ground.

Do not raise the load unless the leg retainer pins are properly inserted through the leg and the base.

Do not remove the leg retainer pins while the machine is loaded and/or raised.

Do not raise the load unless the machine is on a firm, level surface.

Prior to use, check the work area for drop-offs, holes, bumps, debris, unstable or slippery surfaces or other possible hazardous conditions.

Do not raise the load unless the load handling attachment is properly secured to the machine.

Do not use blocks to level the machine.

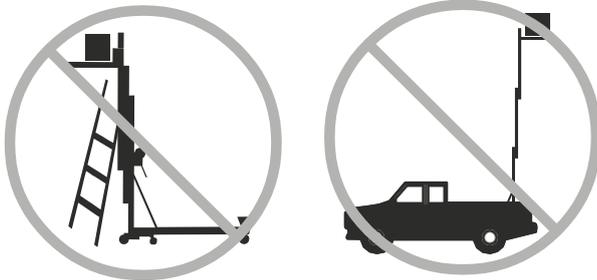
Do not move the machine with a raised load, except for minor positioning.

Do not operate the machine in strong or gusty winds. Increasing the load surface area will decrease machine stability in windy conditions.

Do not leave a load raised when windy conditions may occur unless the machine(s) are properly guy-wired.

Do not cause a horizontal force or side load to the machine by raising or lowering a fixed or overhanging load.

Do not place ladders or scaffolding against any part of the machine.



Do not use the machine on a moving or mobile surface or vehicle.

Do not exceed the rated load capacity. See Load Capacity Charts section.

Avoid debris and uneven surfaces while rolling a WienoldLifte Universal with the legs folded up.

Do not replace machine parts critical to stability or structure with items of different weight or specification.

### Lifting Hazards

Use proper lifting techniques to load or tip the machine.

Use proper lifting techniques when installing or removing the load handling attachments.

### Electrocution Hazards

This machine is not electrically insulated and will not provide protection from contact with or proximity to electrical current.



Keep away from the machine if it contacts electrical power lines. Personnel must not touch or operate the machine until power lines are shut off.

Maintain safe distances away from electrical power lines and apparatus in accordance with applicable governmental regulations and the following chart.

Voltage	Minimum Safe Approach Distance	
	Feet	Meters
Phase toPhase		
0 to 300V	Avoid Contact	
300V to 50KV	10	3.1
50KV to 200KV	15	4.6
200KV to 350KV	20	6.1
350KV to 500KV	25	7.6
500KV to 750KV	35	10.7
750KV to 1000KV	45	13.7

Allow for mast movement and electrical line sway or sag and be aware of strong or gusty winds.

Do not use the machine as a ground for welding.

### Bodily Injury Hazard

Do not hold the cable.

SAFETY RULES

### Crushing Hazards

Do not raise if the load is not properly centered on the load handling attachment.

Do not raise unless the load is properly secured to the load handling attachment.

Do not stand under or allow personnel under the machine when the load is raised.

Do not stand under the load. The safety brake system (if equipped) will allow the load to drop 1 to 3 feet / 30 to 92 cm before locking the columns.

Do not lower the load unless the area below is clear of personnel and obstructions.

Keep hands and fingers away from folding legs and other potential pinch points.

Maintain a firm grip on the stabiliser when the lock plates are released. The stabiliser will drop.

Maintain a firm grip on the leg when the retaining pin is removed. The leg will drop.

Maintain a firm grip on the winch handles until the brake is locked. The brake is locked when the load will not cause the winch handles to turn.

### Adjustable Flat Forks

Do not raise the load unless the snap pins are properly inserted in the forks.



### Fork Extensions

Do not raise the load unless the fork extensions are properly secured to the forks.

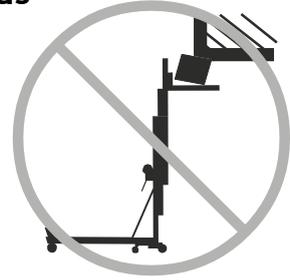
### Collision Hazards

Check the work area for overhead obstructions or other possible hazards.

Do not tilt the machine back unless the area is clear of personnel and obstructions.

Use **good judgement** and planning when transporting the machine on an incline or slope.

Do not load for transport unless the machine and vehicle are on a level surface. Use proper lifting techniques to load the machine.



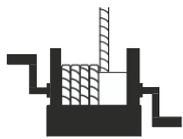
## Damaged Machine Hazards



Do not use a damaged or malfunctioning machine.

Do not use a machine with a worn, frayed, kinked or damaged cable.

Do not use a machine with less than 4 wraps of cable on the winch drum when the carriage is fully lowered.



Conduct a thorough pre-operation inspection prior to each use.

Ensure that all labels are in place and legible.  
See Labels section.

Ensure that the operators' manual is complete, legible and in the storage container located on the machine.

Maintain proper lubrication on the winch.  
Do not allow oil or grease on braking surfaces.

Do not use any type of lubrication on the column surfaces.

## Improper Use Hazard

Never leave a Wienold Lift unattended with a load. Unauthorised personnel may attempt to operate the machine without proper instruction, creating an unsafe condition.

## Label Legend

Wienold product labels use symbols, colour coding and signal words to identify the following:



Safety alert symbol—used to alert personnel to potential personal injury hazards. Adhere to all safety messages that follow this symbol to avoid possible injury or death.



Red—used to indicate the presence of an imminently hazardous situation which, if not avoided, will result in death or serious injury.



Orange—used to indicate the presence of a potentially hazardous situation which, if not avoided, could result in death or serious injury.



Yellow with safety alert symbol—used to indicate the presence of a potentially hazardous situation which, if not avoided, may cause minor or moderate injury.



Yellow without safety alert symbol—used to indicate the presence of a potentially hazardous situation which, if not avoided, may result in property damage.



Green—used to indicate operation or maintenance information.

# Pre-Operation inspection



## Do Not Operate Unless:

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- ☑ Learn and practice the principles of safe machine operation contained in this operators' manual.

1 Avoid hazardous situations.

**2 Always perform a pre-operation inspection.**

**Know and understand the pre-operation inspection before going on to the next section.**

3 Always perform function tests prior to use.

4 Inspect the workplace.

5 Only use the machine as it was intended.

## Fundamentals

The pre-operation inspection is a visual inspection performed by the operator prior to each work shift. This inspection is designed to discover if anything is apparently wrong with a machine before the operator tests it.

Refer to the list on the next page and check each of the items.

If damage or any unauthorised variation from factory delivered condition is discovered, the machine must be tagged and removed from service.

Repairs to the machine may only be made by a qualified service technician, according to the manufacturers specifications. After repairs are completed, the operator must perform a pre-operation inspection again before going on to the function tests.

## Pre-operation Inspection

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- Ensure that the operators' manual is complete, legible and in the storage container located on the machine.
- Ensure that all labels are legible and in place. See Labels section.

Check the following components or areas for damage, improperly installed or missing parts and unauthorised modifications:

- Winch and related components
- Base components
- Legs
- Stabilisers and latch plates (if equipped)
- Mast columns
- Exterior plastic trim for safety brake (if equipped)
- Carriage hold-down bar
- Cable anchor
- Cable and pulleys
- Wheels and casters
- Load handling attachments
- Nuts, bolts and other fasteners
- Cable (kinks, frays, abrasions)

Check the entire machine for:

- Dents or damage
- Corrosion or oxidation
- Cracks in welds or structural components
- Ensure that all structural and other critical components are present and all associated fasteners and pins are in place and properly tightened.
- Ensure that there is a minimum of 4 wraps of cable around the winch drum when the carriage is fully lowered.

# Function Tests



## Do Not Operate Unless:

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- You learn and practice the principles of safe machine operation contained in this operators' manual.
  - 1 Avoid hazardous situations.
  - 2 Always perform a pre-operation inspection.
  - 3 Always perform function tests prior to use.**

**Know and understand the function tests before going on to the next section.**

  - 4 Inspect the workplace.
  - 5 Only use the machine as it was intended.

## Fundamentals

The function tests are designed to discover any malfunctions before the machine is put into service. The operator must follow the step-by-step instructions to test all machine functions.

A malfunctioning machine must never be used. If malfunctions are discovered, the machine must be tagged and removed from service. Repairs to the machine may only be made by a qualified service technician, according to the manufacturer's specifications.

After repairs are completed, the operator must perform a pre-operation inspection and function tests again before putting the machine into service.

**IMPOTANT NOTES:****a) Lateral Outrigger**

**The lateral Outriggers have to be used generally starting from a vertical lift of 5 meters!**

In order to fix the outriggers, pull the snap pins and insert the Outrigger until its engaged audibly.

- b) Insert the Outrigger-Legs always into the basis until the pins are locked. Repeat this procedure for each Outrigger-Leg.
- c) Do not use the lift with unlocked snap pins.

**INSTALLATION**

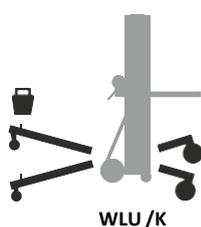
1. Place the lift at the intended job.
2. Take the Outrigger-Legs from the admission and put it beside the basis before the installation.

**2.1 Lifts WITHOUT Counterbalance Weights (WLU /L):**

Install the LONG Outrigger-Legs at the front- and the SHORTT-Outrigger legs at the backend.

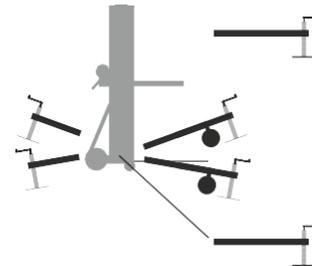
**2.2 Lifts WITH Counterbalance Weights (WLU /K and WLU /Ks):**

If the lift is used WITH Counterbalance Weights, the Outrigger-Legs for the Counterbalance-Weights-Box must be installed, generally at the back and the ShortT-Outrigger always at the front. Fix the Counterbalance-Weight-Box properly and fill it up with the correct number of Weights.

**2.3 TOWER Lifts (WLU /T):**

If you use the lift as Tower-Version, you have to use **OUTRIGGER WITH SPINDLES ONLY.**

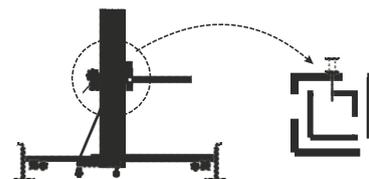
Fix the Spindle-Outrigger-Legs first at the frontend, second at the backend, third install the lateral Spindle-Outrigger. Align the lift by using the spindles and a bubble level.

**Load handling attachments****Adjustable Forks**

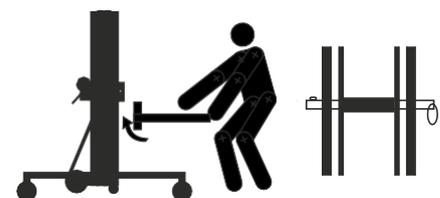
1. Put the forks into the carriage.
2. Fix the forks with the attaching pin.



3. Adjust the forks width and check the fitting for each attaching pin.

**Lifts with Standard Attachment**

1. Put the forks into the carriage.
2. Fix the forks with the attaching pin.



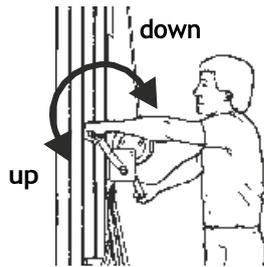
3. To fix the desired height of the attachment, select the appropriate hole at the arm.

FUNCTIONTESTS

**Test One-Speed Winch Operation**

- 1 Install a load handling attachment.
- 2 Raise the carriage by firmly gripping the winch handles and rotating them towards the mast.
- ⊙ **Result:** The winch should operate smoothly, free of hesitation or binding.

- 3 Lower the carriage by firmly gripping the winch handles and rotating them away from the mast. After lowering to the desired position, turn the winch handles toward the mast (raise the load) 1/4 turn to set the brakes.

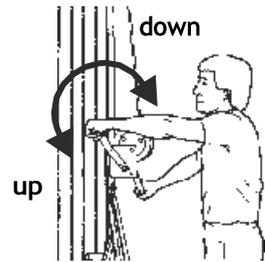


- ⊙ **Result:** The winch should operate smoothly, free of hesitation or binding.

**Test Two-Speed Winch Operation**

- 1 Install a load handling attachment.
- 2 Shift the winch to the slow speed.
- 3 Raise the carriage by firmly gripping the winch handles and rotating them towards the mast.
- ⊙ **Result:** The winch should operate smoothly, free of hesitation or binding.

- 4 Lower the carriage by firmly gripping the winch handles and rotating them away from the mast. After lowering to the desired position, turn the winch handles toward the mast (raise the load) 1/4 turn to set the brakes.



- ⊙ **Result:** The winch should operate smoothly, free of hesitation or binding.
- 5 Shift the winch to the fast speed and repeat steps 3 and 4.

**Test Mast Sequencing**

- 1 Install a load handling attachment.
- 2 Raise the carriage to full height by firmly gripping the winch handles and rotating them towards the mast.
- ⊙ **Result:** The carriage should rise to the top of the front mast section, followed in sequential order by each mast section.
- 3 Fully lower the carriage. After lowering to the desired position, turn the winch handles toward the mast (raise the load) 1/4 turn to set the brakes.

# Workplace Inspection



## Do Not Operate Unless:

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- You learn and practice the principles of safe machine operation contained in this operators' manual.

1. Avoid hazardous situations.
- 2 Always perform a pre-operation inspection.
- 3 Always perform function tests prior to use.

### 4 Inspect the workplace.

**Know and understand the workplace inspection before going on to the next section.**

- 5 Only use the machine as it was intended.

Be aware of and avoid the following hazardous situations:

- Edges or holes
- bumps and floor obstructions
- debris
- sloped surfaces
- unstable or slippery surfaces
- overhead obstructions and high voltage conductors
- hazardous locations
- inadequate surface support to withstand all load forces imposed by the machine
- wind and weather conditions
- all other possible unsafe conditions

## Fundamentals

The workplace inspection helps the operator determine if the workplace is suitable for safe machine operation. It should be performed by the operator prior to moving the machine to the workplace.

It is the operators' responsibility to read and remember the workplace hazards, then watch for and avoid them while moving, setting up and operating the machine.

# Operating Instructions



## Do Not Operate Unless:

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You learn and practice the principles of safe machine operation contained in this operators' manual.

- 1 Avoid hazardous situations.
- 2 Always perform a pre-operation inspection.
- 3 Always perform function tests prior to use.
- 4 Inspect the workplace.
- 5 Only use the machine as it was intended.**

**Learn and understand the operating instructions before going on to the next section.**

## Fundamentals

The Operating Instructions section provides instructions for each aspect of machine operation. It is the operators' responsibility to follow all the safety rules and instructions in the operators' manual.

Using the machine for anything other than lifting material is unsafe.

If more than one operator is expected to use a machine at different times in the same work shift, each operator is expected to follow all safety rules and instructions in the operators' manual. Ensure that every new operator must perform a pre-operation inspection, function tests and a workplace inspection before using the machine.

## Setup

Select an area that is firm, level and free of obstructions.

Follow the Setup procedures in the Function Tests section.

## Raising and Lowering Load

- 1 Center the load on the load handling attachment. See Load Capacity Charts section.
- 2 Secure the load to the load handling attachment.
- 3 Raise the load by firmly gripping the winch handles and rotating them toward the mast. Do not allow the cable to wind unevenly onto the drum.
- 4 Lower the load by firmly gripping the winch handles and rotating them away from the mast. After lowering to the desired position, turn the winch handles toward the mast (raise the load)  $\frac{1}{4}$  turn to set the brakes

## Moving Machine with a Load

It is best to move the machine on the worksite with no load. Moving a raised load should be restricted to positioning for loading and unloading. If it is necessary to move the machine with a raised load, understand and adhere to the following safety rules:

- Ensure the area is level and clear of obstructions
- Ensure the load is centered on the load handling attachment
- Ensure the load is secured to the load handling attachment
- Avoid sudden starts and stops
- Travel with the load in the lowest possible position
- Keep personnel away from the machine and load

## After Each Use

To prepare the WienoldLifte Universal for storage, follow the Setup procedure in reverse order.

Select a safe storage location - firm level surface, weather protected, clear of obstruction and traffic.

# Load Capacity Charts



## Observe and Adhere to:

- Failure to properly position the load may result in death or serious injury.
- Ensure that the load you wish to raise does not exceed the maximum load for your load center. See the Load Capacity Chart on the next page.

**WARNING** Tip-over hazard. Raising a load that exceeds the machine capacity may result in death or serious injury.

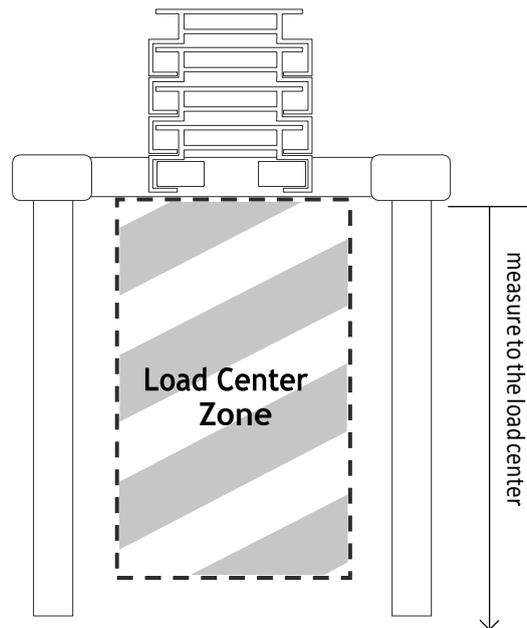
- A load center is defined as the balancing point (center of gravity) of a load and must be positioned within the load center zone.

**WARNING** Tip-over hazard. Failure to position the load center within the load center zone may result in death or serious injury.

## Forks

### Load Positioning Instructions

- 1 Determine the weight of the load and the location of its load center.
- 2 Measure to the load center from the side of the load that will be closest to the carriage.
- 3 Place the load so that it rests on the forks, as close to the carriage as possible.
- 4 Position the load so that the load center is within the load center zone.
- 5 Secure the load to the forks.



See the chart on the next page for maximum load centers for standard forks, adjustable forks and flat forks.

# Load Capacity Charts

## Boom

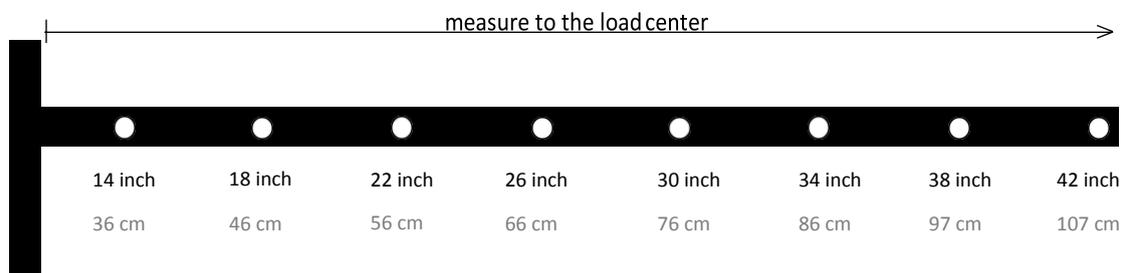
### Load Positioning Instructions

- 1 Determine the weight of the load and the location of its load center.
- 2 Refer to the chart below to determine if the machine is capable of lifting the weight at the location on the boom.
- 3 Secure the load to the lifting shackle on the boom.

### Maximum Load Centers

(measure from the front of the carriage)

Standard Forks:	61 cm	24 inch
Adjustable Forks:	61 cm	24 inch
Boom:	107 cm	42 inch
Flat Forks:	71 cm	27 inch
Load Platform:	61 cm	24 inch
Pipe Cradle:	46 cm	18 inch
Fork Extensions:	107 cm	42 inch



Load Capacity Chart									
Load Center									
inch		14	18	22	26	30	34	38	42
Model									
WLU 3.5	lbs	551	473	385	319	264	220	176	143
WLU 5.0	lbs	551	473	385	319	264	220	176	143
WLU 6.5	lbs	551	473	385	319	264	220	176	143

Load Capacity Chart									
Load Center									
cm		36	46	56	66	76	86	97	107
Model									
WLU 3.5	kg	250	215	175	145	120	100	80	65
WLU 5.0	kg	250	215	175	145	120	100	80	65
WLU 6.5	kg	250	215	175	145	120	100	80	65

# Transport and Lifting Instructions



## Observe and Adhere to:

- ☑ The transport vehicle must be parked on a level surface.
- ☑ The transport vehicle must be secured to prevent rolling while the machine is being loaded.
- ☑ Ensure the vehicle capacity, loading surfaces and chains or straps are sufficient to withstand the machine weight. See the serial plate for machine weight.
- ☑ The machine must be secured to the transport vehicle with chains or straps of ample load capacity.

## Loading the Machine

Ensure that the load handling attachment is removed from the machine and place the stabilisers in the stored position.

- 1 Fully lower the carriage, to lock for transport.
- 2 Rotate the carriage hold-down bar over the carriage.
- 3 Raise the carriage until it contacts the carriage hold-down bar.
- 4 Adjust the loading wheels to the desired position. Ensure the pins are properly inserted.

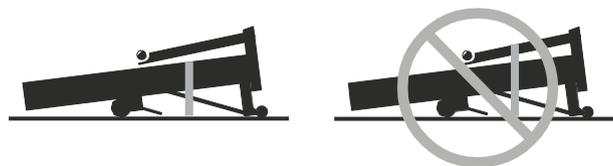
5 Place the machine against the vehicle. Use



proper lifting techniques to load the machine into the transport vehicle. Ensure that the carriage is locked in the lowered position.



- 6 Use a minimum of 1 chain or strap to secure the machine to the truck bed. Place the chain or strap over the mast. Placing the chain or strap over the legs can damage the legs.



- 7 To unload, follow the loading instructions in reverse order.

## Loading Machine with a Crane

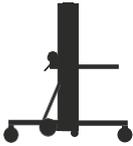
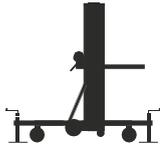
Ensure that the legs and stabilisers are placed in the stored position.

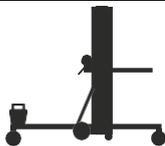
Ensure that the machine is inspected and remove any loose or unsecured items.

Use the lifting bracket on the top of the rear mast column.

Always place the lifting hook through the lifting bracket so that it points away from the machine.



Technical data	WLU /L "Lift"			WLU /T "Tower"		
						
Model	WLU /L 3.5	WLU /L 5.0	WLU /L 6.5	WLU /T 3.5	WLU /T 5.0	WLU /T 6.5
Working height - standard fork up:	3,50m	5,00m	6,50m	3,50m	5,00m	6,50m
- standard fork down:	3,00m	4,50m	6,00m	3,00m	4,50m	6,00m
- adjustable fork up:	3,50m	5,00m	6,50m	3,50m	5,00m	6,50m
- adjustable fork down:	3,00m	4,50m	6,00m	3,00m	4,50m	6,00m
- outrigger:	3,30m	4,80m	6,30m	3,30m	4,80m	6,30m
Storage height:	1,96m	1,96m	1,96m	1,96m	1,96m	1,96m
Storage length:	0,63m	0,63m	0,67m	0,63m	0,63m	0,67m
Working position length:	1,77m	1,77m	1,77m	1,77m	1,77m	2,35m
Storage width:	0,50m	0,50m	0,50m	0,50m	0,50m	0,50m
Working position width:	0,75m	0,75m	1,70m	0,75m	0,75m	1,70m
Clearance working position:	0,05m	0,05m	0,05m	0,05m	0,05m	0,05m
Loading height min.:	0,37m	0,37m	0,37m	0,37m	0,37m	0,37m
Pay load:	250kg	250kg	250kg	250kg	250kg	250kg
Dead weight (without outriggers, weights etc.)	83kg	110kg	125kg	83kg	110kg	125kg
Weight outriggers complete:	25kg	25kg	25kg	30kg	30kg	30kg

	WLU /K with counter balance weights			WLU /Ks with counter balance weights "Short"		
						
Model	WLU /K 3.5	WLU /K 5.0	WLU /K 6.5	WLU /Ks 3.5	WLU /Ks 5.0	WLU /Ks 6.5
Working height - standard fork up:	3,50m	5,00m	6,50m	3,50m	5,00m	6,50m
- standard fork down:	3,00m	4,50m	6,00m	3,00m	4,50m	6,00m
- adjustable fork up:	3,50m	5,00m	6,50m	3,50m	5,00m	6,50m
- adjustable fork down:	3,00m	4,50m	6,00m	3,00m	4,50m	6,00m
- outrigger:	3,30m	4,80m	6,30m	3,30m	4,80m	6,30m
Storage height:	1,96m	1,96m	1,96m	1,96m	1,96m	1,96m
Storage length:	0,63m	0,63m	0,67m	0,63m	0,63m	0,67m
Working position length:	1,77m	1,77m	1,77m	1,06m	1,06m	1,06m
Storage width:	0,50m	0,50m	0,50m	0,50m	0,50m	0,50m
Working position width:	0,75m	0,75m	1,70m	0,75m	0,75m	1,70m
Clearance working position:	0,05m	0,05m	0,05m	0,05m	0,05m	0,05m
Loading height min.:	0,37m	0,37m	0,37m	0,37m	0,37m	0,37m
Pay load:	250kg	250kg	250kg	250kg	250kg	250kg
Dead weight (without outriggers, weights etc.)	83kg	110kg	125kg	83kg	110kg	125kg
Counter balance weights (3x16kg / 7x16kg)	48kg	48kg	48kg	112kg	112kg	112kg
Weight outriggers complete:	25kg	25kg	25kg	21kg	21kg	21kg

Technical changes, mistakes and misprint reserved.

Product specifications are subject to change without notice or obligation.

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