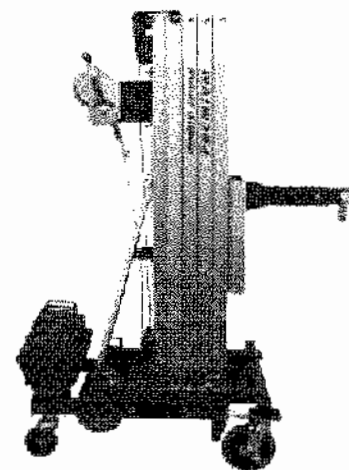


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WienoldLIFTE

Operation Manual



Wienold **Lift Universal**
PREMIUM



WLU 11 Premium



WLU 16 Premium



WLU 16s Premium

Important

Read, understand and obey these safety rules and operating instructions before operating this machine. Only trained and authorized 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.

Internet: www.wienold-lifte.de

E-Mail: info@wienold-lifte.de

Phone: +49 - 5903 - 93 94 0

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Safety Rules



Warning

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

Do Not Operate Unless:

- ☒ You learn and practice the principles of safe machine operation contained in this operator's 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.

- ☒ You read, understand and obey the manufacturer's instructions and safety rules, safety and operator's manuals and machine decals.
- ☒ You read, understand and obey employer's safety rules and worksite regulations.
- ☒ You read, understand and obey all applicable governmental regulations.
- ☒ You are properly trained to safely operate the machine.

Safety Rules

Fall Hazards

Do not use the machine as a personnel 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 stabilizers (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 lift.

Do not use blocks to level the lift.

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

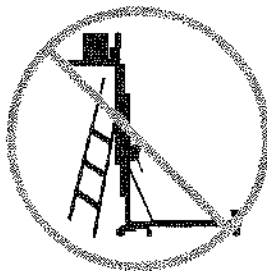
Do not operate the lift in strong or gusty winds. Increasing the load surface area will decrease machine stability in windy conditions.

Do not leave a load raised when windy conditions may occur unless the lift is properly guy-wired.

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

Safety Rules

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



Do not use the lift 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 lift with the legs folded up.

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

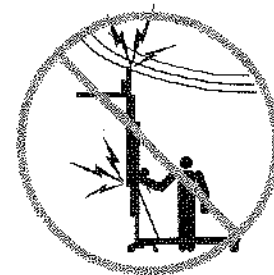
Lifting Hazards

Use proper lifting techniques to load or tip the lift.

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

Electrocution Hazards

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



Keep away from the lift if it contacts energized power lines. Personnel must not touch or operate the lift 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 to Phase		
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 lift as a ground for welding.

Bodily Injury Hazard

Do not grasp 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 lift 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.

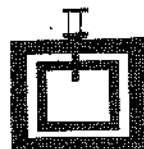
Maintain a firm grasp on the stabilizer when the lock plates are released. The stabilizer will drop.

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

Maintain a firm grasp 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.



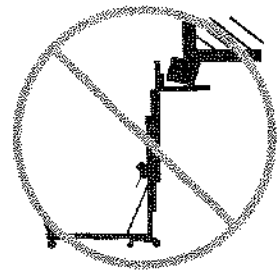
Fork Extensions

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 lift back unless the area is clear of personnel and obstructions.



Use common sense and planning when transporting the lift on an incline or slope.

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

Safety Rules

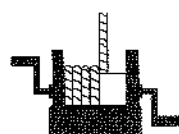
Damaged Lift Hazards



Do not use a damaged or malfunctioning lift.

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

Do not use a lift 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.

Be sure all decals are in place and legible. See Decals section.

Be sure that the operator's manual is complete, legible and in the storage container located on the lift.

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 lift unattended with a load.
Unauthorized personnel may attempt to operate the lift without proper instruction, creating an unsafe condition.

Decal Legend

Wienold product decals use symbols, color coding and signal words to identify the following:



Safety alert symbol—used to alert personnel to potential personal injury hazards. Obey 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:

- ☒ You learn and practice the principles of safe machine operation contained in this operator's 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 unauthorized variation from factory delivered condition is discovered, the lift must be tagged and removed from service.

Repairs to the lift 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 again before going on to the function tests.

Pre-operation Inspection

Pre-operation Inspection

- ☒ Be sure that the operator's manual is complete, legible and in the storage container located on the machine.
- ☒ Be sure that all decals are legible and in place. See Decals section.

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

- ☒ Winch and related components
- ☒ Base components
- ☒ Legs
- ☒ Stabilizers and latch plates (if equipped)
- ☒ Mast columns
- ☒ Exterior plastic shim 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 lift for:

- ☒ Dents or damage
- ☒ Corrosion or oxidation
- ☒ Cracks in welds or structural components
- ☒ Be sure that all structural and other critical components are present and all associated fasteners and pins are in place and properly tightened.
- ☒ Be sure 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:

- ☒ You learn and practice the principles of safe machine operation contained in this operator's 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 lift is put into service. The operator must follow the step-by-step instructions to test all lift functions.

A malfunctioning lift must never be used. If malfunctions are discovered, the lift must be tagged and removed from service. Repairs to the lift 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 lift into service.

Installation

IMPOTANT NOTES:

a) Lateral Outrigger

The lateral Outrigger 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 procedere 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.

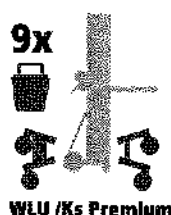
2.1 Lifts **WITHOUT** Counterbalance Weights (WLU /L Premium):

Install the LONG Outrigger-Legs at the front- and the SHORT T-Outrigger at the backend.



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

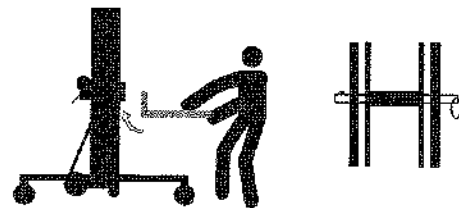
If the lift is used **WITH Counterbalance Weights**, the Outrigger-Legs for the Counterbalance-Weights-Box must be installed generally at the backend and the short T-Outrigger always at the frontend. Fix the Counterbalance-Weight-Box properly and fill it up with the correct number of Weights.



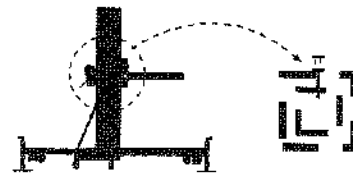
Load handling attachments

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.



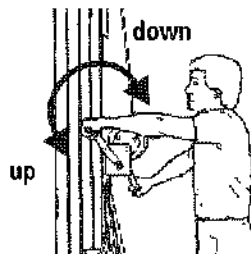
3. To fix the desired hight of the attachment, select the appropriate hole at the arm.

Installation

Test One-Speed Winch Operation

- 1 Install a load handling attachment.
- 2 Raise the carriage by firmly grasping 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 grasping 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.

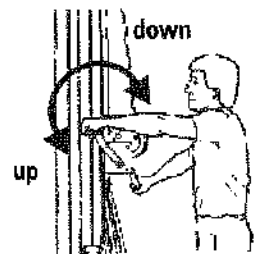


- ⊙ **Result: The winch should operate smoothly, free of hesitation or binding.**

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 grasping 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 grasping 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.



- ⊙ **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 grasping the winch handles and rotating them towards the mast.
- ⊙ **Result: The carriage should raise to the top of the front mast section, followed in consecutive 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) $\frac{1}{4}$ turn to set the brakes.

Workplace Inspection



Do Not Operate Unless:

- ☒ You learn and practice the principles of safe lift operation contained in this operator's 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 lift as it was intended.

Be aware of and avoid the following hazardous situations:

- ☒ drop-offs 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 operator's responsibility to read and remember the workplace hazards, then watch for and avoid them while moving, setting up and operating the lift.

Operating Instructions



Do Not Operate Unless:

- ☒ You learn and practice the principles of safe lift operation contained in this operator's 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 lift as it was intended.**
- Know 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 operator's responsibility to follow all the safety rules and instructions in the operator's manual.

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

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

Operating Instructions

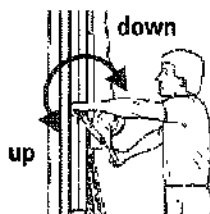
Setup

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 grasping 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 grasping 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 Lift with a Load

It is best to move the lift 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 lift with a raised load, understand and obey the following safety rules:

- ☒ Make sure the area is level and clear of obstructions
- ☒ Make sure the load is centered on the load handling attachment
- ☒ Make sure 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 lift 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 Obey:

- ☑ Failure to properly position the load may result in death or serious injury.
- ☑ Verify 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.

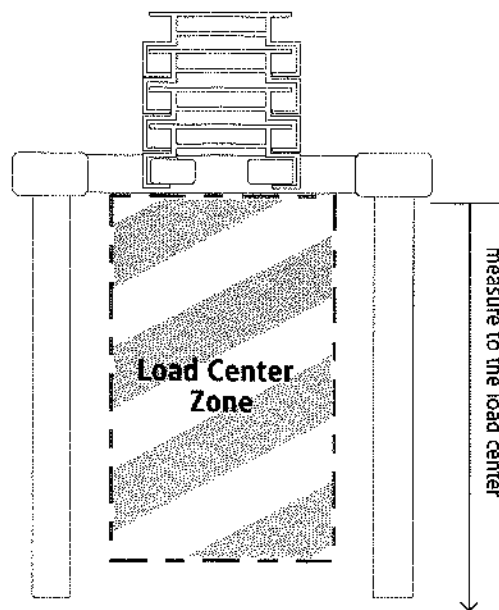
- ☑ A load center is defined as the balancing point (center of gravity) of a load and must be positioned within the load center zone.

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.

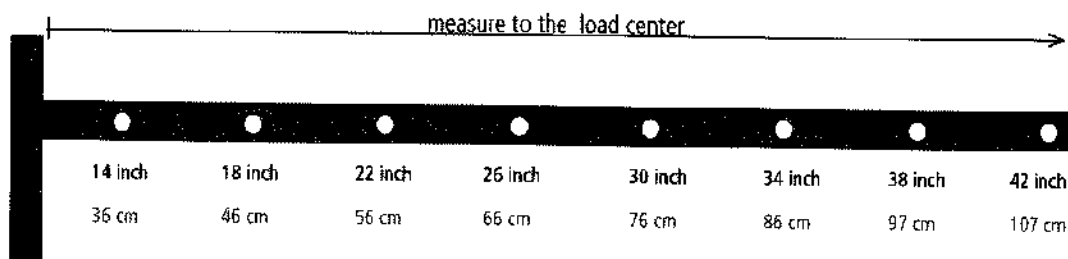


Load Capacity Charts

Boom

Load Positioning Instructions

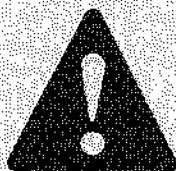
- 1 Determine the weight of the load and the location of its load center.
- 2 Refer to the chart below to determine if the machine is capable of lifting the weight at the location on the boom.
- 3 Secure the load to the lifting shackle on the boom.



Load Capacity Chart									
Load Center									
inch		14	18	22	26	30	34	38	42
Modell									
Premium 1.7	lbs	881	723	593	487	399	326	268	220
Premium 2.8	lbs	881	723	593	487	399	326	268	220
Premium 4.0	lbs	881	723	593	487	399	326	268	220
Premium 5.1	lbs	881	650	533	436	359	293	240	198

Load Capacity Chart									
Load Center									
cm		36	46	56	66	76	86	97	107
Modell									
Premium 1.7	kg	400	328	269	221	181	148	122	100
Premium 2.8	kg	400	328	269	221	181	148	122	100
Premium 4.0	kg	400	328	269	221	181	148	122	100
Premium 5.1	kg	360	295	242	198	163	133	109	90

Transport and Lifting Instructions



Observe and Obey:

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

Loading the Lift

Be sure to remove the load handling attachment from the lift and place the stabilizers 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. Be sure the pin is properly inserted.



- 5 Place the lift against the vehicle. Use proper lifting techniques to load the lift into the transport vehicle. Be sure to check that the carriage is locked in the lowered position.



- 6 Use a minimum of 1 chain or strap to secure the lift to the truckbed. 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 Lift with a Crane

Be sure to place the legs and stabilizers in the stored position.

Be sure to inspect the lift 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 lift.



Technical Data

Wienold **Lift Universal /L** **PREMIUM**



	WLU /L PREMIUM 1.7	WLU /L PREMIUM 2.8	WLU /L PREMIUM 4.0	WLU /L PREMIUM 5.1
Working height - standard fork up:	1,70 m	2,85 m	4,00 m	5,15 m
- standard fork down:	1,31 m	2,46 m	3,60 m	4,76 m
- adjustable fork up:	1,70 m	2,85 m	4,00 m	5,15 m
- adjustable fork down:	1,31 m	2,46 m	3,60 m	4,76 m
- boom:	1,60 m	2,75 m	3,90 m	5,06 m
Storage measures - height:	1,68 m	1,68 m	1,68 m	1,68 m
- length:	0,63 m	0,63 m	0,63 m	0,63 m
- width:	0,50 m	0,50 m	0,50 m	0,50 m
Working position - height:	1,74 m	1,74 m	1,74 m	1,74 m
- length:	1,77 m	1,77 m	1,77 m	1,77 m
- width:	0,75 m	0,75 m	0,75 m	0,75 m
- clearance:	0,05 m	0,05 m	0,05 m	0,05 m
Loading height min.:	0,37 m	0,37 m	0,37 m	0,37 m
Pay load:	881 lbs (400 kg)	881 lbs (400 kg)	881 lbs (400 kg)	793 lbs (360 kg)
Dead weight (without outrigger, weights, etc.)	214 lbs (97 kg)	250 lbs (113 kg)	285 lbs (129 kg)	320 lbs (145 kg)
Weight outrigger:	75 lbs (34 kg)	75 lbs (34 kg)	75 lbs (34 kg)	75 lbs (34 kg)

Wienold **Lift Universal /K** **PREMIUM**



	WLU /K PREMIUM 1.7	WLU /K PREMIUM 2.8	WLU /K PREMIUM 4.0	WLU /K PREMIUM 5.1
Working height - standard fork up:	1,70 m	2,85 m	4,00 m	5,15 m
- standard fork down:	1,31 m	2,46 m	3,60 m	4,76 m
- adjustable fork up:	1,70 m	2,85 m	4,00 m	5,15 m
- adjustable fork down:	1,31 m	2,46 m	3,60 m	4,76 m
- boom:	1,60 m	2,75 m	3,90 m	5,06 m
Storage measures - height:	1,68 m	1,68 m	1,68 m	1,68 m
- length:	0,63 m	0,63 m	0,63 m	0,63 m
- width:	0,50 m	0,50 m	0,50 m	0,50 m
Working position - height:	1,74 m	1,74 m	1,74 m	1,74 m
- length:	1,77 m	1,77 m	1,77 m	1,77 m
- width:	0,75 m	0,75 m	0,75 m	0,75 m
- clearance:	0,05 m	0,05 m	0,05 m	0,05 m
Loading height min.:	0,37 m	0,37 m	0,37 m	0,37 m
Pay load:	881 lbs (400 kg)	881 lbs (400 kg)	881 lbs (400 kg)	793 lbs (360 kg)
Dead weight (without outrigger, weights, etc.)	214 lbs (97 kg)	250 lbs (113 kg)	285 lbs (129 kg)	320 lbs (145 kg)
Weight outrigger:	75 lbs (34 kg)	75 lbs (34 kg)	75 lbs (34 kg)	75 lbs (34 kg)
Counterbalance weights (6x16kg)	212 lbs (96 kg)	212 lbs (96 kg)	212 lbs (96 kg)	212 lbs (96 kg)

Product specifications are subject to change without notice or obligation.

Technical Data

Wienold Lift Universal /Ks **PREMIUM**



	WLU /Ks PREMIUM 1.7	WLU /Ks PREMIUM 2.8	WLU /Ks PREMIUM 4.0	WLU /Ks PREMIUM 5.1
Working height - standard fork up:	1,70 m	2,85 m	4,00 m	5,15 m
- standard fork down:	1,31 m	2,46 m	3,60 m	4,76 m
- adjustable fork up:	1,70 m	2,85 m	4,00 m	5,15 m
- adjustable fork down:	1,31 m	2,46 m	3,60 m	4,76 m
- boom:	1,60 m	2,75 m	3,90 m	5,06 m
Storage measures - height:	1,68 m	1,68 m	1,68 m	1,68 m
- length:	0,63 m	0,63 m	0,63 m	0,63 m
- width:	0,50 m	0,50 m	0,50 m	0,50 m
Working position - height:	1,74 m	1,74 m	1,74 m	1,74 m
- length:	1,06 m	1,06 m	1,06 m	1,06 m
- width:	0,75 m	0,75 m	0,75 m	0,75 m
- clearance:	0,05 m	0,05 m	0,05 m	0,05 m
Loading height min.:	0,37 m	0,37 m	0,37 m	0,37 m
Pay load:	881 lbs (400 kg)	881 lbs (400 kg)	881 lbs (400 kg)	881 lbs (360 kg)
Dead weight (without outrigger, weights, etc.)	214 lbs (97 kg)	250 lbs (113 kg)	285 lbs (129 kg)	320 lbs (145 kg)
Weight outrigger:	58 lbs (26 kg)	58 lbs (26 kg)	58 lbs (26 kg)	58 lbs (26 kg)
Counterbalance weights (9x16kg)	318 lbs (144 kg)	318 lbs (144 kg)	318 lbs (144 kg)	318 lbs (144 kg)

Product specifications are subject to change without notice or obligation.

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