
MATERIAL LIFTER

INSTRUCTION BOOK

MODEL : BD1



SAFETY

**To maintain the operation safety,
make sure read and understand this
instruction book BEFORE operating
this equipment.**



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. If you have any questions, call Kou Sheng Feng CO., LTD.

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1. Safety Rules



This manual shall be put in the place easily to be taken and handed to all the users to read the details very carefully. Failure to obey the instructions and safety rules in this instruction may result in death or serious injury.

A. Do Not Operate Unless

1. Read, understand, and obey instruction
- 2..Keep workplace safety and clean. Avoid operate machine under unsteady or unbalanced place and all possible unsafe conditions.
3. Do not use parts which are not recommend by manufacture.
4. Do not move machine when it is raising.
5. Put accessories at right position.
6. Check machine carefully before operating.
7. Avoid machine slanted when operate machine.



8. Storage machine properly.
9. Check machine regularly.
10. Repairs to the machine may only be made by a qualified service technician. After repairs are completed, the operator must perform a pre-operation inspection again before using.

B. Qualified personnel

Only the qualified personnel is allowed to install and use this equipment .The qualified personnel is authorized to move, install and operate the machinery according to the setup Safety Practice and Standard.

C. Correct usage

This equipment only can be used by the methods described in the Specification List of this index. This equipment can be operated correctly and safely only under the careful and right operation and maintenance.

D. Fall Hazards

1. Do not use as a personnel lifting platform or step.
2. Do not stand or sit on the load platform.
3. Do not climb on the machine.



E. Tip-over Hazards

1. Do not exceed the rated load capacity. The maximum capacity is 180kgs.
2. Do not travel the machine with a raised load or under slope.
3. Do not tilt the machine back with a raised load.
4. Do not use blocks to level the machine.
5. Do not raise the load unless the legs have been fully locked.
6. Do not place ladders or scaffolding against any part of the machine.
7. Do not replace machine parts critical to stability or structure with items of different weight or specification.
8. Do not cause a horizontal force or side load to the machine by raising or lowering a fixed or overhanging load.
9. Do not use the machine on a moving or mobile surface or vehicle.
10. Do not operate the machine in strong or gusty winds.
11. MAKE SURE the area is level with raised load.

F. Collision Hazards

1. Do not raise if the load is not properly centered on the load platform.
2. Do not lower the load unless the area below is clear of personnel and obstructions.
3. Use common sense and planning when transporting the machine on an incline, slope or stairs.
4. Do not move the machine when it is raised.
5. Do not stand under or allow personnel under the machine when the load is raised.

G. Lifting Hazard

Use proper lifting techniques to load or tip the machine, or to move the machine on stairs.

H. Improper Use Hazard

Never leave a machine unattended with a load.

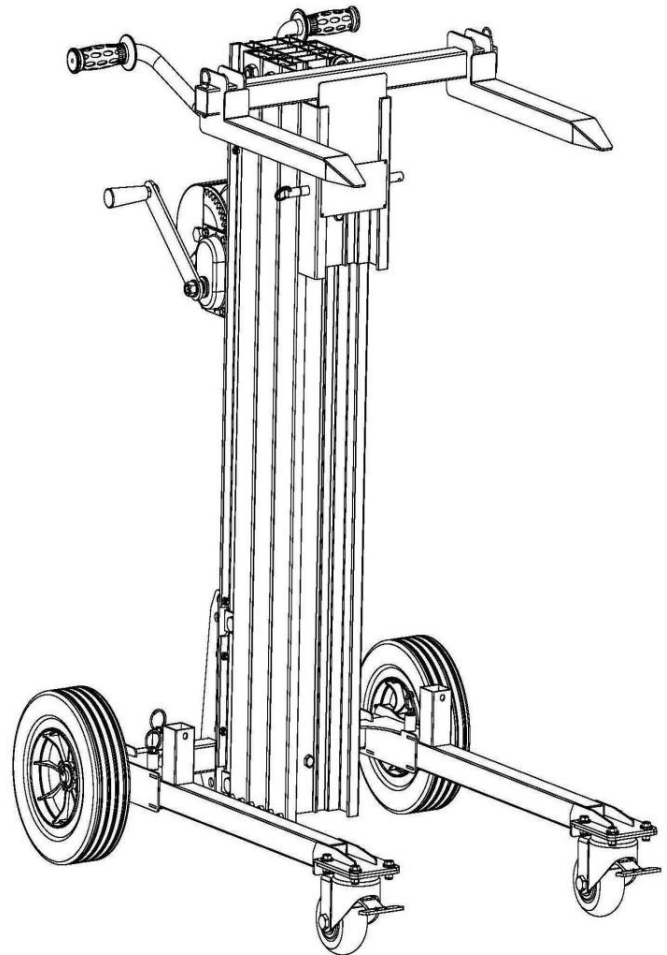
Unauthorized personnel may attempt to operate the machine without proper instruction, creating an unsafe condition.





J. Bodily Injury Hazards

1. Do not grasp the steel wire.
 2. Do not allow the platform to drop during setup.
 3. Keep hands and fingers away from folding legs, pulleys, the carriage and other potential pinch points.
 4. Do not place arms, hands or fingers through the frame.
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2. Specifications

Spec / Model	BD1
Lifting Height	303 cm
Max. Load capacity	180 kg
Dimension	92 x 78 x 117cm
Rear wheel dimension	10" (250mm)
Front wheel dimension	3" (76mm)
Machine Weight (without accessories)	60 kg
Package size	113x64x55cm

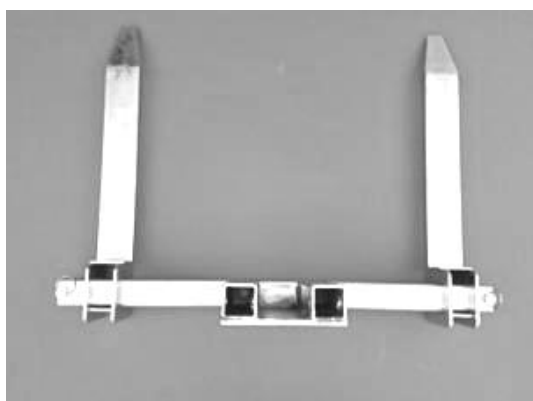
● WINCH CAPACITY

LIFTING CAPACITY (LBS/KG)			Gear
1ST LAYER	3RD LAYER	LAST LAYER	Ratio
800 / 360	560 / 254	400 / 180	4.1:1

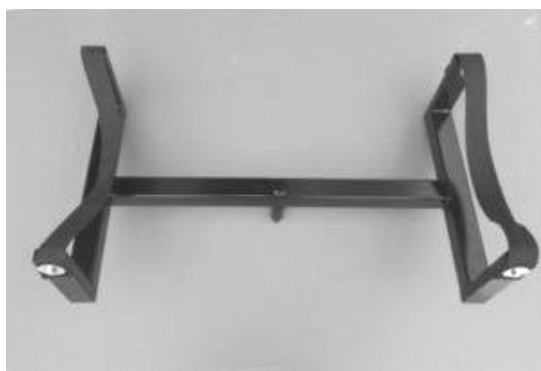
3. Accessories:



Hook & Jib (Accessory)
Weight :1.95kg/set
Capacity: 180 kg (396 lbs)



Fork (Accessory)
Weight: 8.0kg/set
Capacity: 180 kg (396 lbs)



Pipe Cradle (Accessory)
Weight: 15kg/set
Capacity: 180 kg (396 lbs)

4. Products feature:

The BD1 is perfect for lifting and transporting heavy loads, with a maximum load capacity up to 180kg With Fork - from ground level to 3030mm.

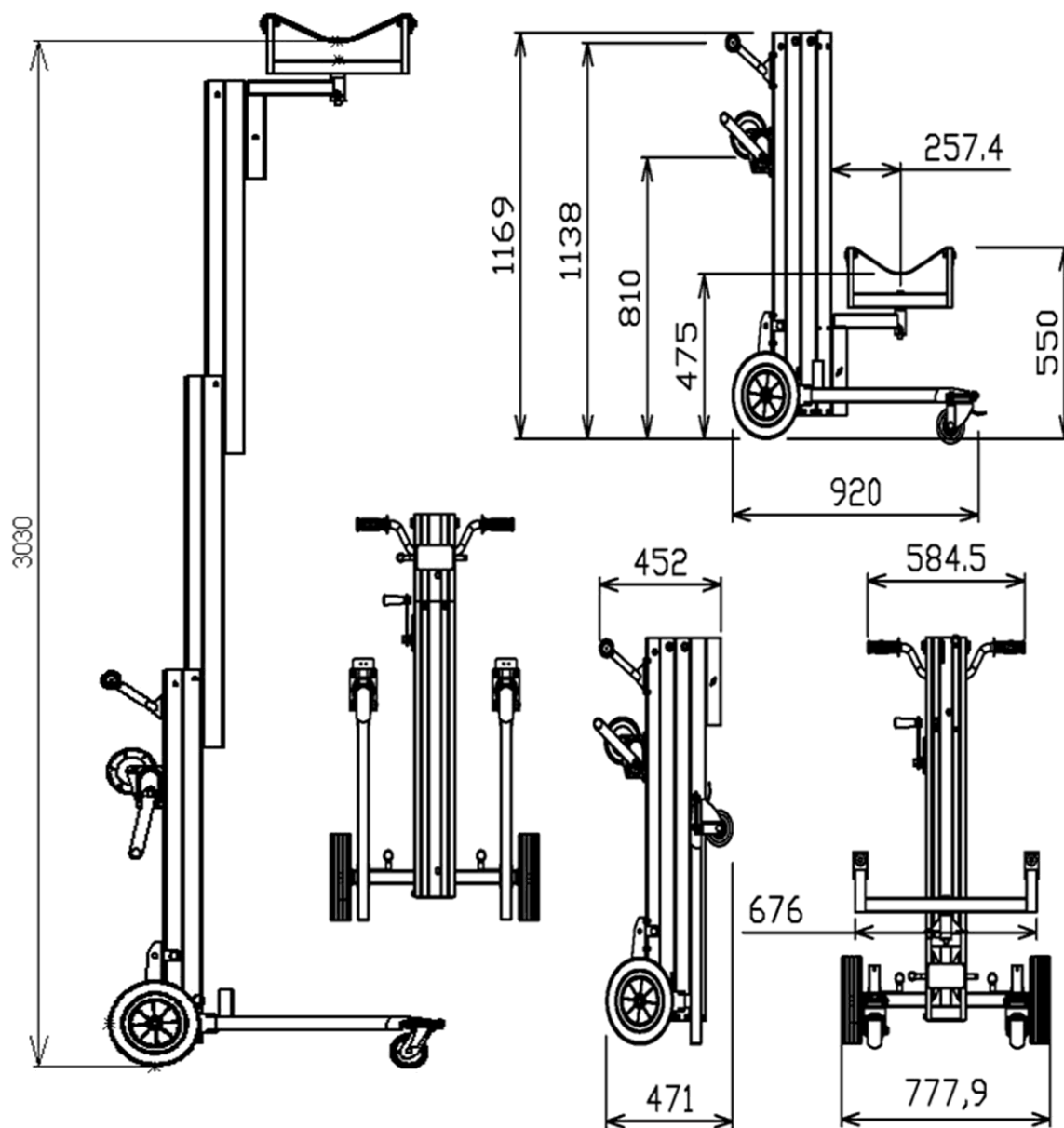
It is a multi-purpose lifting device using various accessories, including the pipe cradle, fork or hook jib, that can be used anywhere where traditional bending, transporting and lifting is required.

It offers a safer working environment and no more back pain from the job site.

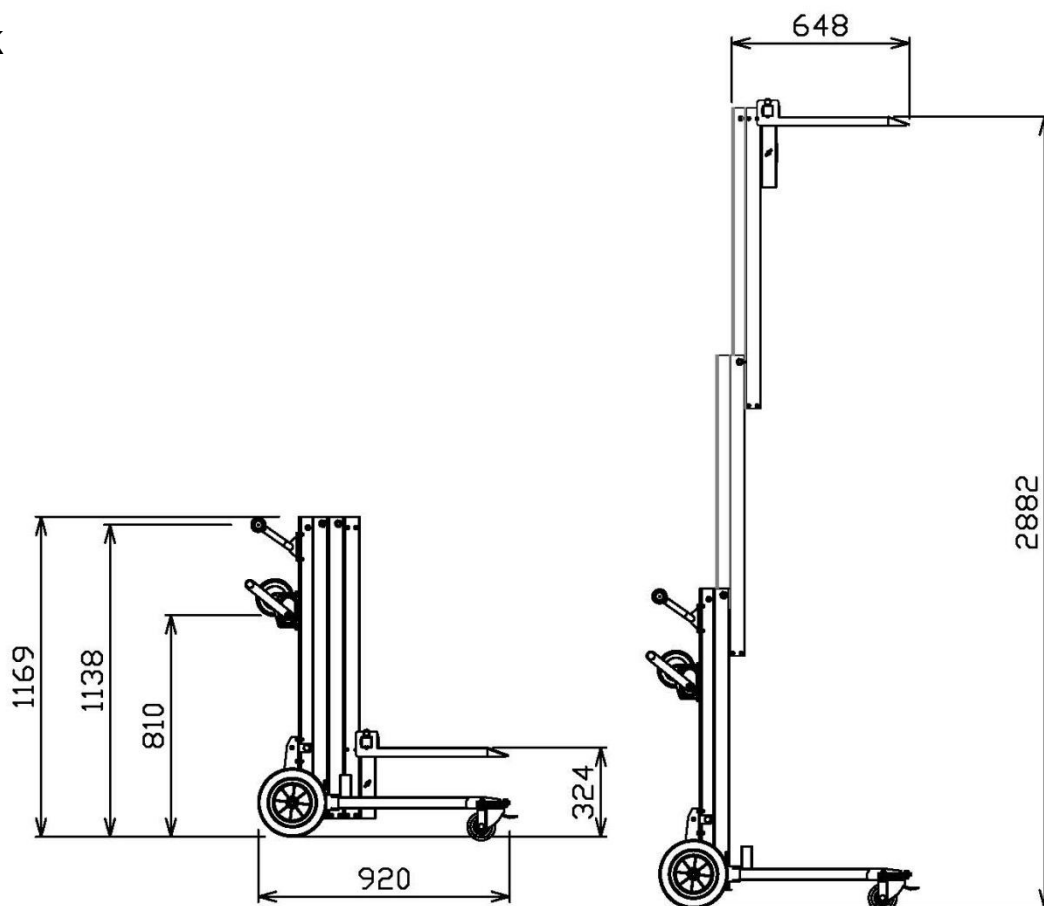
- 1 Aluminum lifting rails, compact and very strong.
2. Universal lift and multipurpose thanks to the variety of accessories for beam installation, shutters, blinds, air conditioners ...
3. Compact and removable construction for easy transport in vehicle and storage in workshop
4. Virtually immediate use right out of the vehicle.
5. 250 mm diameter wheels for easy rolling on site.
6. Near to use in 30 seconds

5. Dimension

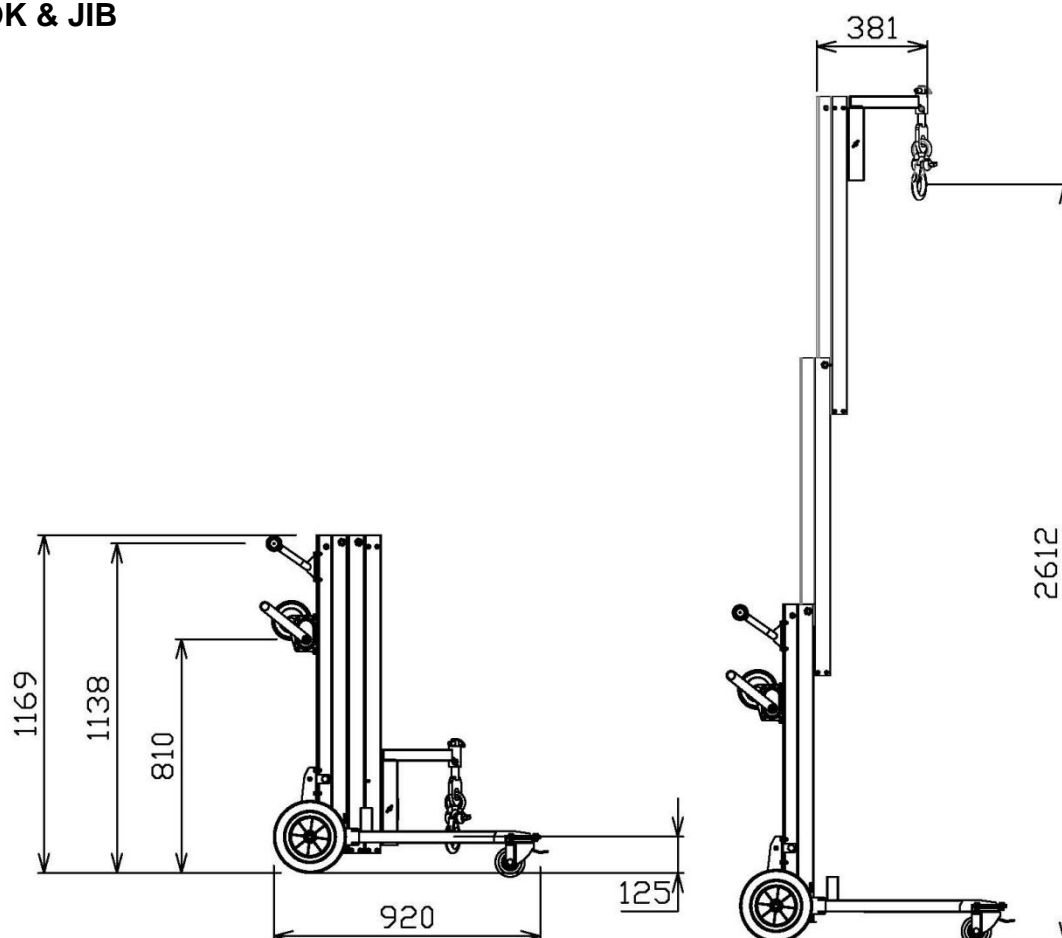
WITH PIPE CRADLE



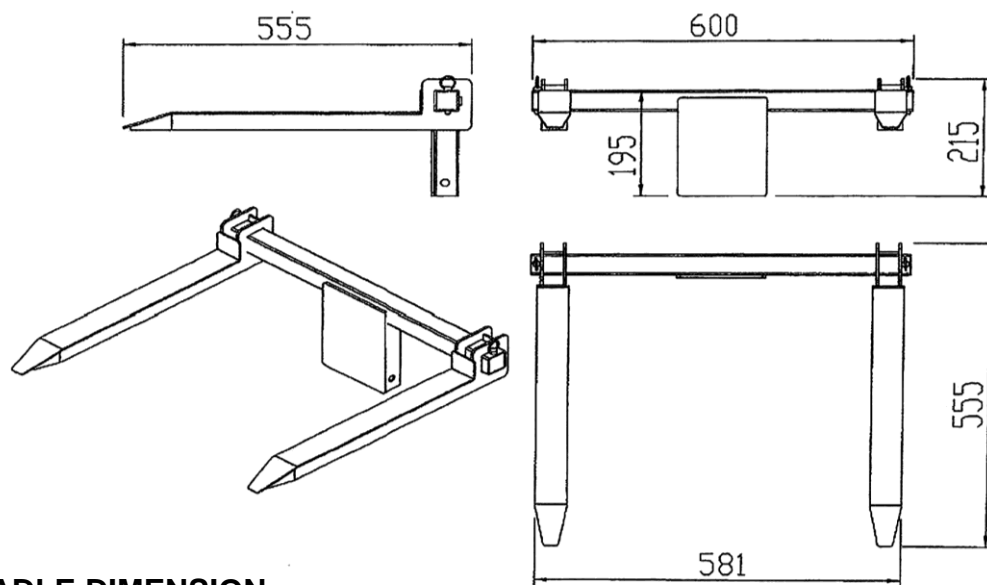
WITH FORK



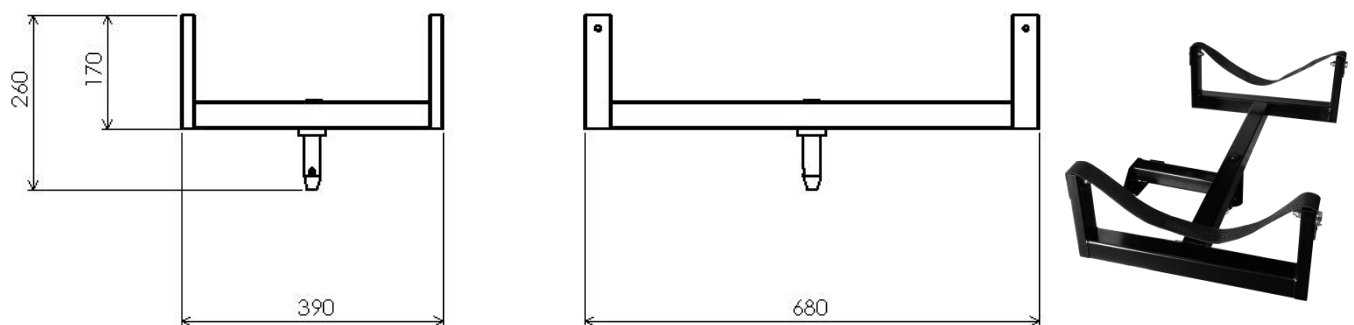
WITH HOOK & JIB



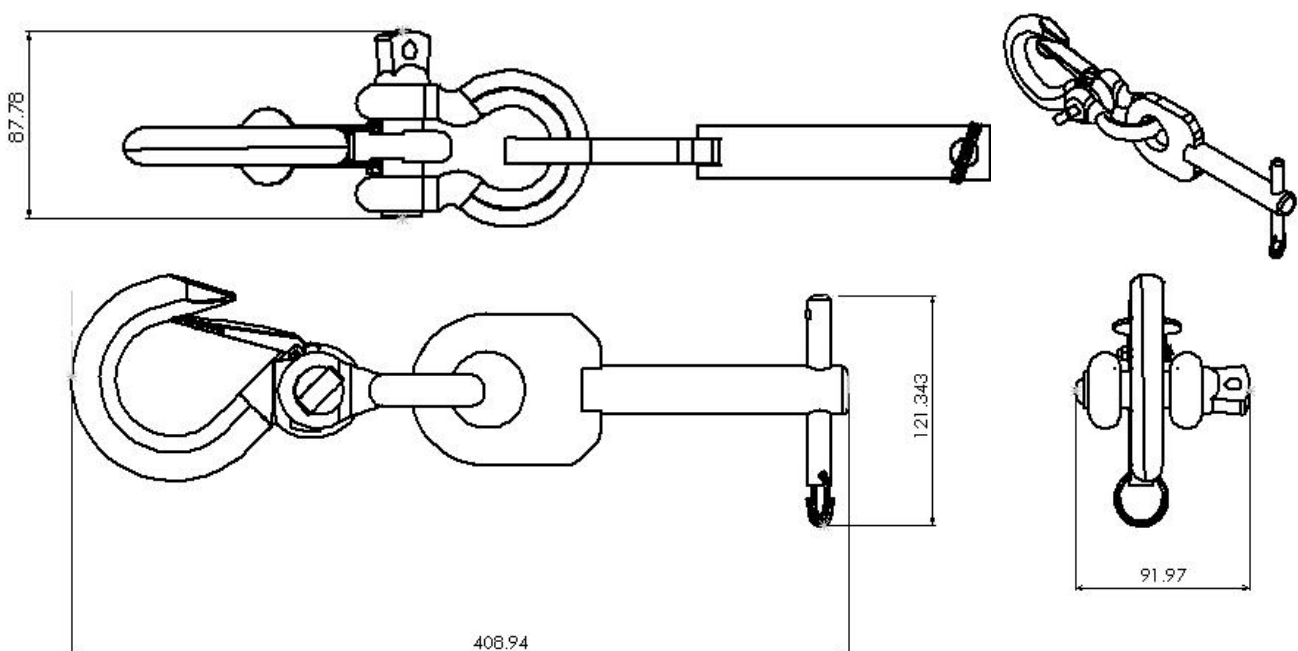
FORK DIMENSION



PIPE CRADLE DIMENSION



HOOK & JIB DIMENSION

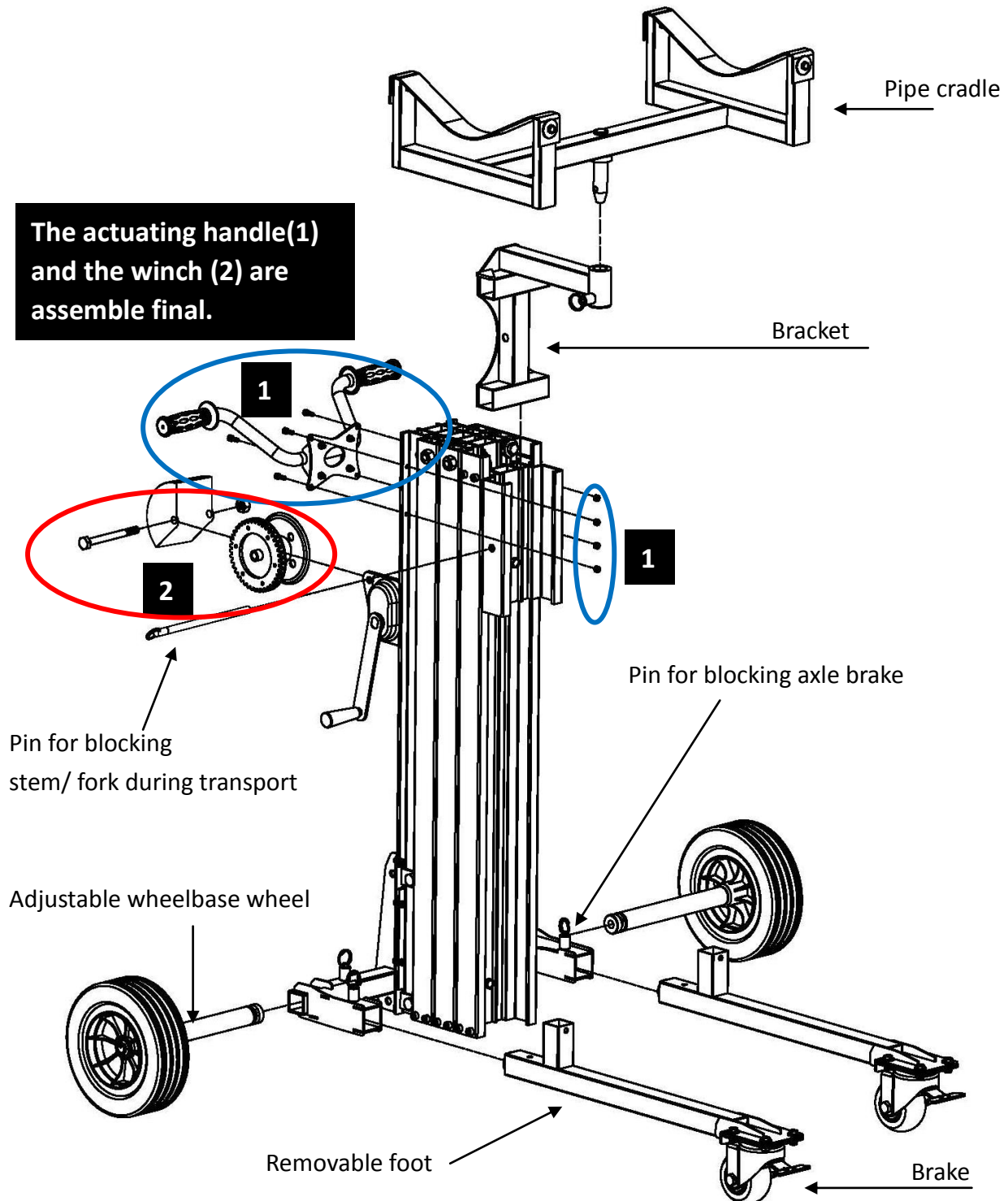


6. Assembly Instruction

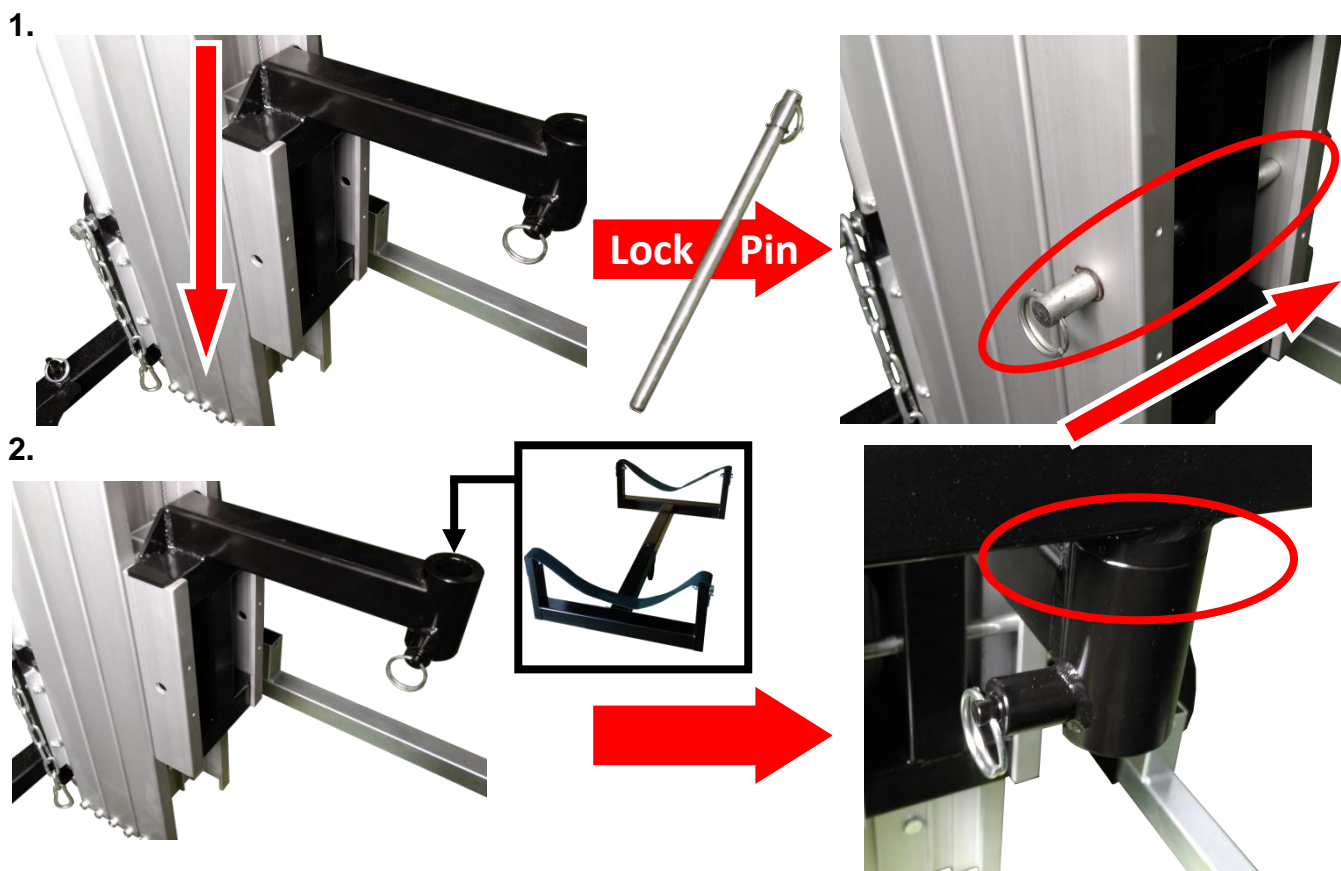
For transport reasons the lifter comes partially assembled

After assembly, check that all nuts are tight

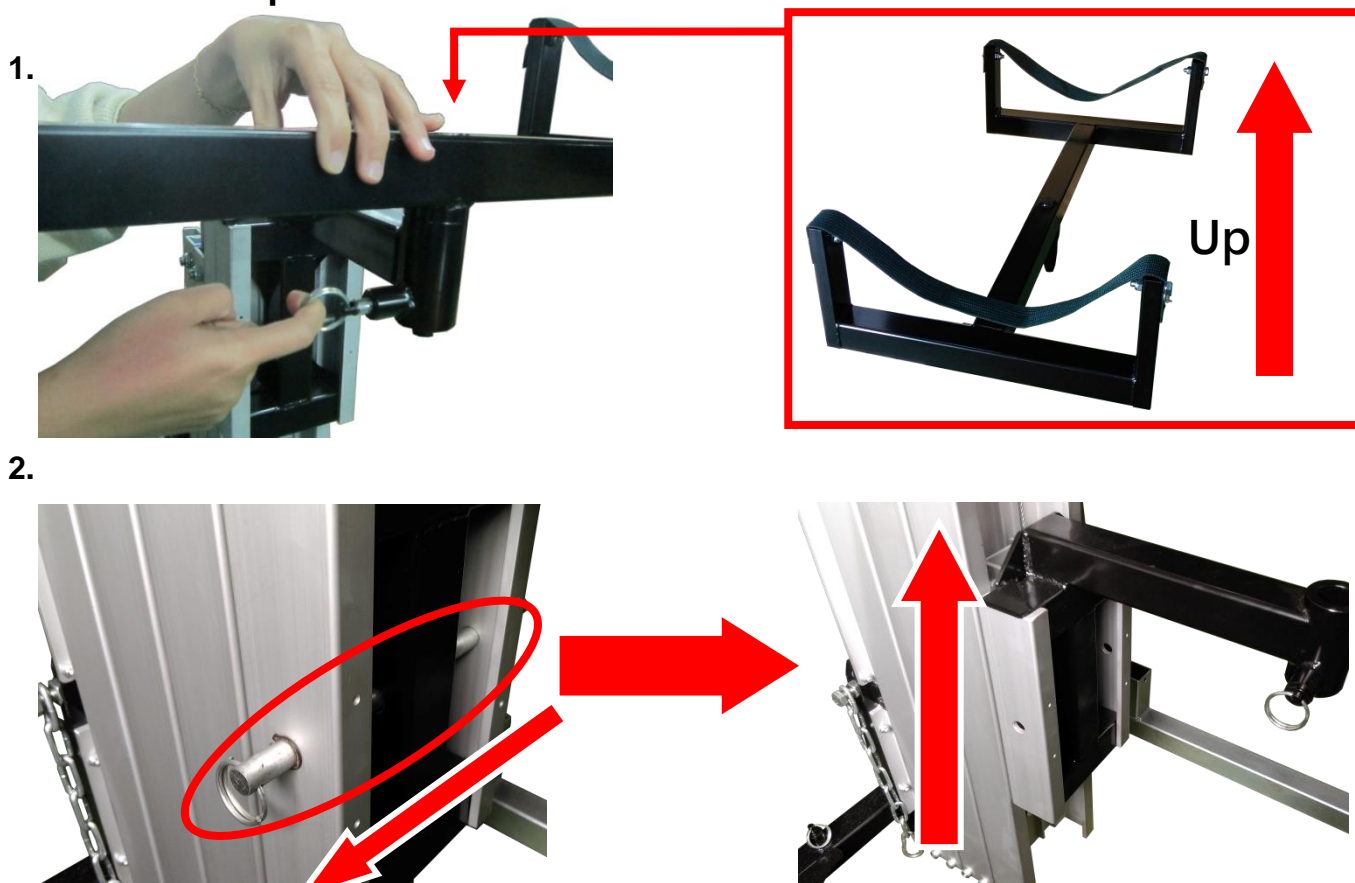
The actuating handle (1) and the winch (2) are assembling final.



Assembly Instruction - Pipe Cradle

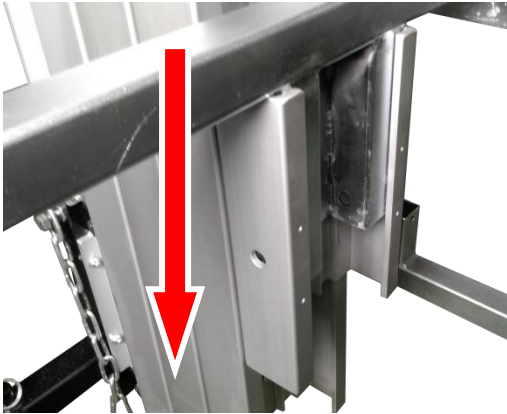


Disassemble - Pipe Cradle



Assembly Instruction - FORK

1.



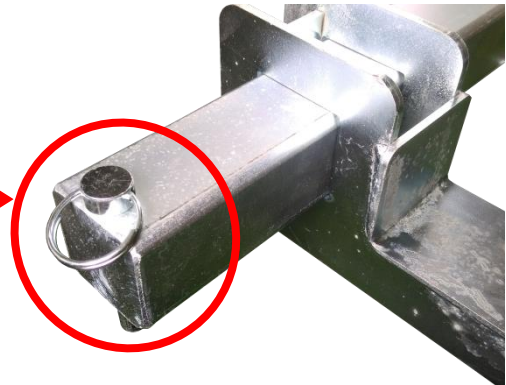
Lock Pin



2.



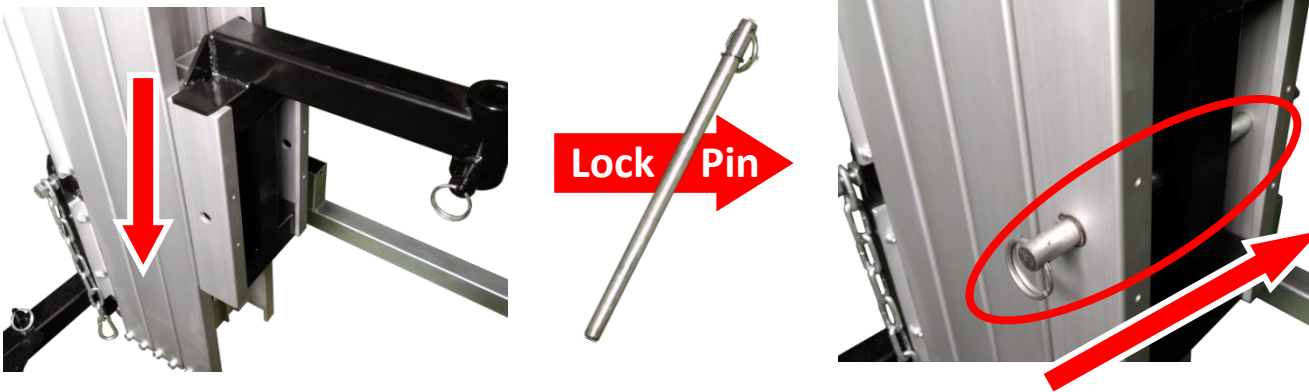

Lock Pin



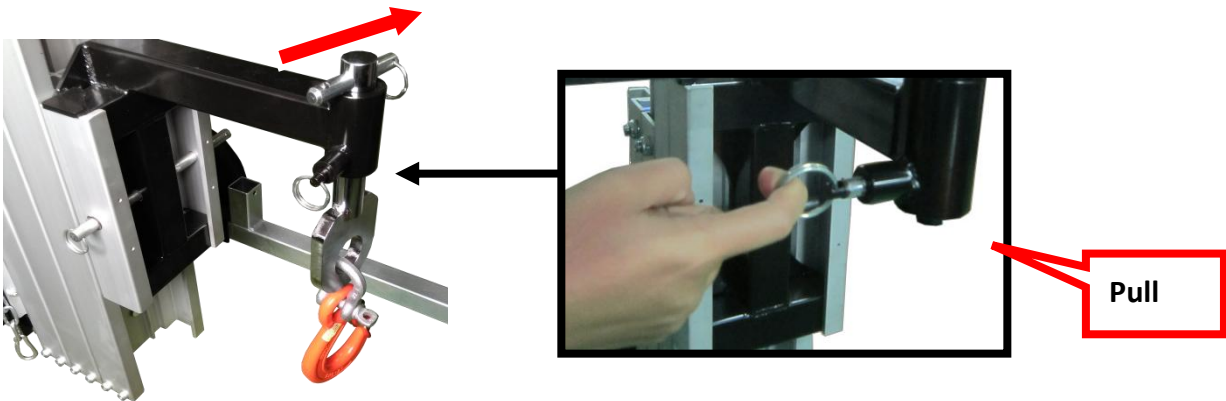
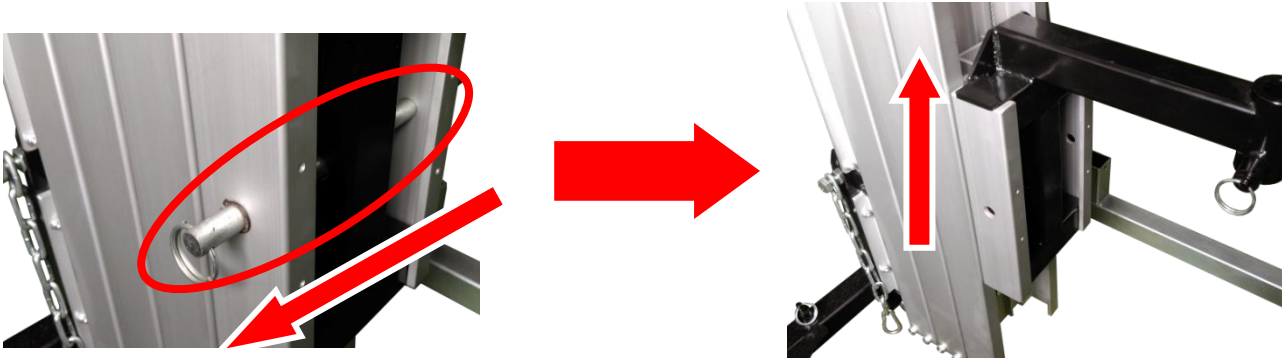
Disassemble - FORK



Assembly Instruction - Hook & Jib

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Disassemble - Hook & Jib

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7. Check before starting

The control before the initiation is a visual inspection performed by the operator prior to each working day. This inspection is designed to discover defects apparent on the machine before the operator do the tests. Inspect the machine to detect damaged, loose or missing.

- Never use a damaged or modified machine.

If damage or modifications to the factory machine are identified, place a sign on the machine and remove from service.

Only a qualified technician should perform repairs on the machine, according to manufacturer's specifications. Once repairs are completed, the operator must perform a new control before startup before starting to test the functions.

Do not use without:

You learn and practice the principles of using the machine safely contained this operator's manual.

- 1 - Avoid risky situation.
- 2 - Always perform a pre-operation inspection route.
- 3 - Always perform function tests prior to use.
- 4 - Inspect the workplace.
- 5 - Do not use the machine for the applications for which it was designed.

Before getting started

- Ensure that the operator's manual is complete and legible.
- Ensure that all decals are legible and in place.
- Check the following components or areas have been damaged, altered or improperly installed they have loose or missing parts:
 - Components of stabilizers,
 - Mast columns
 - Lifting accessories retaining pin (gallows-fork)
 - Cable anchor
 - Cable and pulleys
 - Wheels and Castors

Perform complete control of the machine and check:

- No dents or damage
- The absence of corrosion or oxidation
- For cracks in welds or structural components
- Ensure that all construction components and other critical components are present and all associated fasteners and pins are in place and properly tightened.
- Ensure that there are at least 3 wraps of cable around the winch drum when the carriage is fully lowered.

8. Function Tests

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

Function Tests

- 1 - Choose a firm test surface, flat and unobstructed.

Start-up

- 1 - Position 2 feet
- 2 - Put the fork or the gallows in working position
- 3 - Ensure their assembly with the pin
- 5 - Adjust the wheel base if necessary
- 6 - Check that the axle pin wheels are fully inserted
- 7 - To mount cranked in the direction of clockwise
- 8 - To descend, turn the crank in the opposite direction to clockwise.

Work Place Inspection

The workplace inspection helps the operator determine if the workplace is suitable for use sure the machine. It should be performed by the operator before the machine is fed onto the place of job. It is up to the operator to be aware of potential risks in the workplace and remember, then make sure to avoid over driving, installation and use of the machine.

Consider the following risk situations and avoid them:

- Drop-offs or holes
- Bumps and obstacles on the ground
- Overhead obstructions and high voltage conductors
- Hazardous locations
- Insufficiently firm ground to withstand all load forces imposed by the machine
- Wind force and weather
- Other potential risk situations

Instructions

Using the machine for any purpose other than lifting material is unsafe and dangerous.

If it is expected that several operators use a machine at different times of a day of work, each operator must comply with all safety regulations and instructions in this manual.

So every new operator should perform checks before the commissioning, testing and functions monitor workplace before using the machine.

Moving Machine with a load

It is best to move the machine on the workplace without load. The machine must not be moved with a load lifted only when it is positioned for loading and unloading. If he is necessary to move the machine with a raised load, understand and follow the safety rules following:

- Ensure that the area is flat and free of obstacles
- Ensure that the load is centered and securely attached to the forks
- Avoid sudden starts and stops
- Move the machine with the minimum height load
- Keep personnel away from the machine and load

Start-up

Select a firm, level surface without obstacles.

Follow the Quick Start procedures of the Function Tests section.

Lifting and lowering of the load

- 1 - Center the load on the forks.
- 2 - Secure the load on the forks, always as close as possible masts
- 3 - Raise the load by turning the winch handle
- 4 - Lower the load by turning the winch handle

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

Check that the load to be lifted does not exceed the maximum load for the center of gravity.

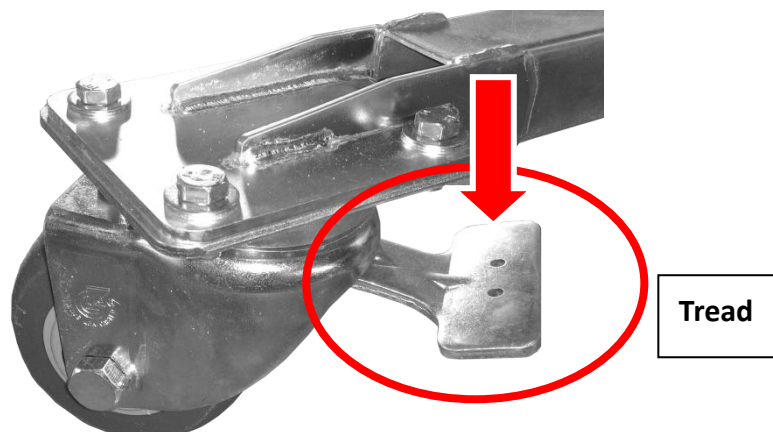
- Rollover Risk:

The lifting a load exceeding the capacity of the machine can cause serious injury.

The positioning of the load center outside the area of the center of gravity can cause injury or death.

9. Raising and Lowering load

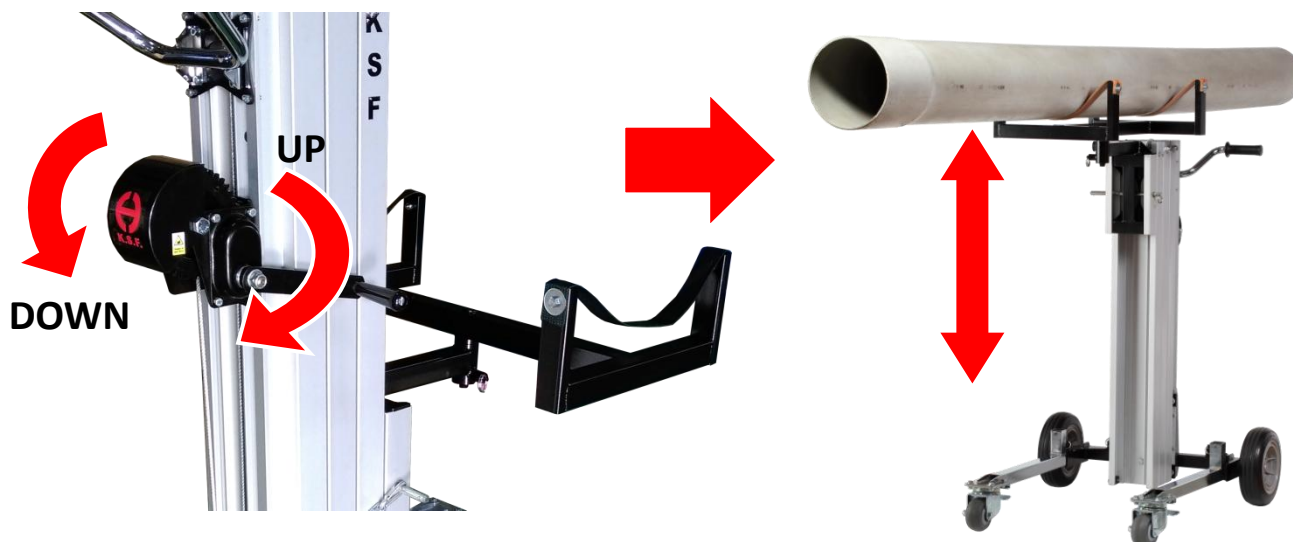
1.Set the break.



2.Place the load



3. Rotating winch handles firmly towards the mast for raising.



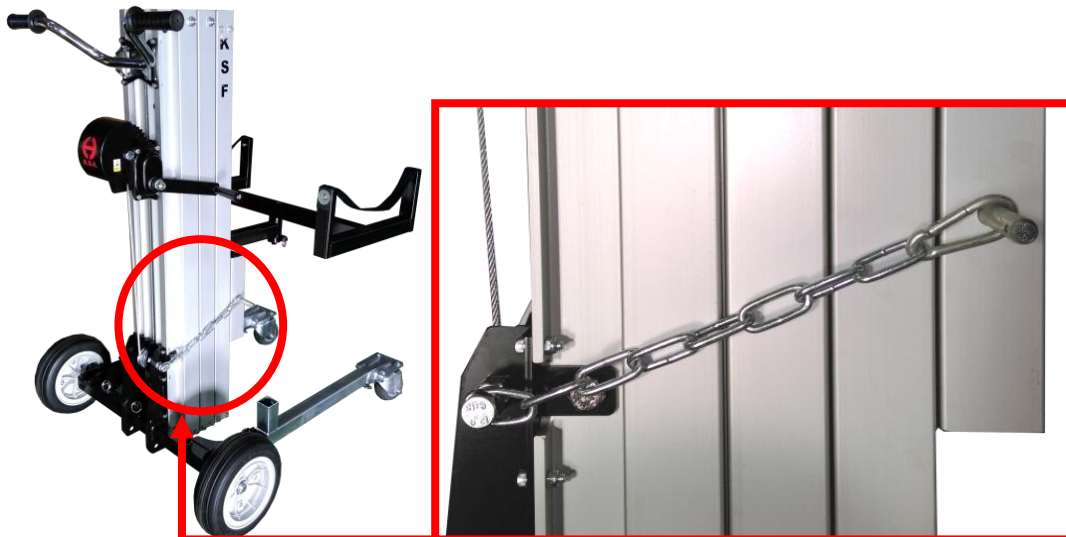
Rotating the winch handles firmly away from the mast for lowering.

10. Disassemble



Make sure off load before disassemble the unit.
Be sure maintaining the safety distance from the authorized personnel.

1. Place the lock pin chain to the Carriage prevent it slide from transportation.



2. Please grasp firmly the push handle before pull out the legs and position it back to the holder as shown.



11. Transport Instructions

The transport vehicle must be parked on a level surface.

The transport vehicle must be secured to prevent rolling when loading the machine.

Ensure the load capacity, the rolling surfaces, slings or lashing straps capable of supporting the weight of the machine. The machine must be secured to the transport vehicle using slings or straps of sufficient load capacity.

Only remove the machine feet and place them in their homes, monitor their storage be well assured.

Fully lower the fork carriage to lock for transport. secure fixing with the chain set on the pin, stretch the chain by actuating the lifting winch to place the machine against the vehicle.

Use proper lifting techniques to load the machine onto the transport vehicle.

Ensure that the carriage remains locked in the down position

Use 2 or webbing slings minimum to secure machine during transport.

12. Responsibility Statement

We are very appreciated for your adopting BD1. Our company is insisted in High Quality and Excellent Technology to manufacture all types of professional equipment to help the customers to create high profits and high quality products. Any suggestion to improve it will be very much welcome

13. Explosion View

