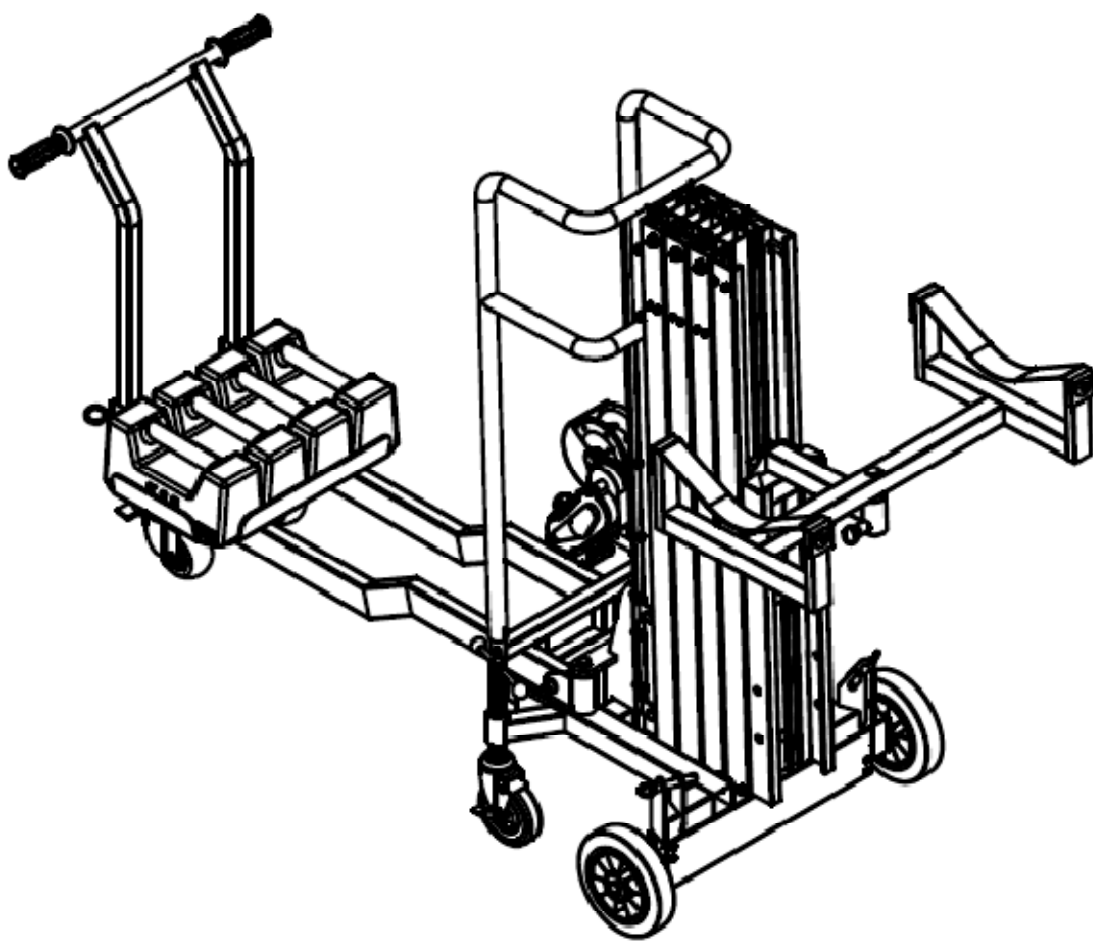


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# ***MATERIAL LIFTER***

## **INSTRUCTION BOOK**

### **MODEL : BD400**



### **SAFETY**

To operate this machine safely, this  
**INSTRUCTION BOOK** must be read  
and understood **BEFORE** operating  
this machine.



# 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*



### ***Important***

It is of paramount importance that these instructions have been read and understood before operating this machine. Only authorized and trained personnel should operate this machine.

This manual must be placed in an easily accessible location for authorized operators to use as required. Failure to obey the instructions and safety rules in this INSTRUCTION BOOK may result in death or serious injury.

---

### **A. Do Not Operate Unless**

- Instructions have been read and understood
- Machine is in a fixed position on even terrain
- Machine has been checked for any faults
- Accessories have been installed correctly
- Machine has all necessary parts present and only official parts from the manufacturer are installed.



As well as this, users must ensure that:

- The machine is stored properly
- The machine is checked regularly
- Repairs to the machine are only made by a qualified service technician. At the completion of these repairs, the operator must perform a pre-operation inspection before using.

### **B. Qualified personnel**

Only qualified personnel are allowed to install and operate this equipment. Qualified personnel are authorized to move, install and operate the machinery in accordance with safe practice and this INSTRUCTION BOOK. – Operators must be familiar with this machine and capable of operating it properly and must be correctly trained.

### **C. Correct usage**

This equipment can only be used within the constraints described in this INSTRUCTION BOOK. This machine must be operated correctly and safely under careful and correct operation and maintenance.

### ***D. Fall Hazards***

1. Do not exceed the rated load capacity. The maximum capacity is 250kgs. Ensure the load is centered on the platform.
2. Do not use to lift persons.
3. Do not stand or sit on the load platform.
4. Do not climb on the machine.
5. Tip Over Hazards – Due to the weight of the BD400 and possible additional weight the operator has added, it can be unstable. Precautions must be used to avoid unsteadiness in the machine.

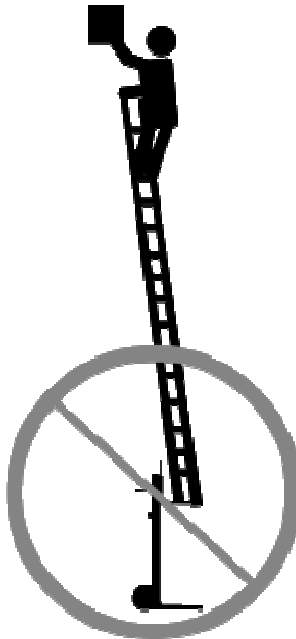


### ***E. Tip-over Hazards***

1. Do not move the machine if it contains a raised load or is on a slope.
2. Do not tilt the machine back with a raised load.
3. Do not use blocks to level the machine.
4. Do not raise the load unless the legs have been fully locked.
5. Do not place ladders or scaffolding against any part of the machine.
6. Do not replace machine parts critical to stability or structure with items of different weight or specification. Only official parts are to be used on the machine at all time
7. Do not introduce a horizontal force or side load to the machine by raising or lowering a fixed or overhanging load.
8. Do not use the machine on a moving or mobile surface or vehicle.
9. Do not operate the machine in strong or gusty winds.
10. MAKE SURE the area is level when raising a load.

### ***F. Collision Hazards***

1. Do not rise a load unless the load is properly centered on the load platform.
2. Use common sense and planning when transporting the machine on an incline, slope or stairs.
3. Do not move the machine when the load is raised.
4. Once the machine has been positioned and the load has been raised safely, ensure:
  - The area below the lifter is clear of any personnel and/or obstructions.
  - Ensure any mobile objects nearby do not pose any threat of interference with the lifter.
  - The area in which the load will be raised is clear of any obstructions.



### ***G. Lifting Hazard***

Use proper lifting techniques when loading or moving the machine.

### ***H. Improper Use Hazard***

Never leave a machine unattended with a load. Unauthorized personnel may attempt to operate the machine without proper instruction, violating safety precautions and creating an unsafe environment.






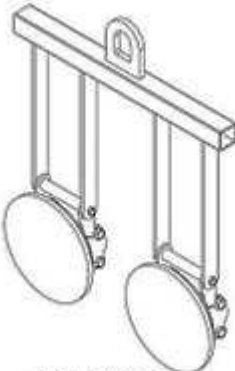
### ***I. Bodily Harm***

1. Do not touch 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 pinching points.
  4. Do not place arms, hands or fingers through the frame.
-

## ***2. Specifications***

Spec / Model	BD400
Lifting Height	415 cm
Basic Height	130 cm
Max. Load capacity	250 kg, 3 m 250 kg, 4 m
Machine Weight ( without accessories )	100kg
Package size	138 X 81 X 88cm

### 3. Optional Accessories

<p>PART NO. 3029294</p>  <p>5.1KG</p>	<p><i>Hook &amp; Jib (Accessory)</i></p> <p><i>Weight :5.1kg/set</i></p> <p><i>Capacity: 250 kg (551 lb)</i></p>
<p>PART NO. 3029399</p>  <p>8KG</p>	<p><i>Fork (Accessory)</i></p> <p><i>Weight: 8.0kg/set</i></p> <p><i>Capacity: 250 kg (551 lb)</i></p>
<p>PART NO. 3029287</p>  <p>9.3KG</p>	<p><i>Pipe Cradle (Accessory)</i></p> <p><i>Weight: 9.3kg/set</i></p> <p><i>Capacity: 180 kg (396 lbs )</i></p>
<p>PART NO.3027002</p>  <p>17.7KG</p>	<p><i>2 Vacuum cups Hanging Crane (Accessory)</i></p> <p><i>Weight: 17.7kg/set</i></p> <p><i>Capacity: 90 kg (198lbs )</i></p>

## **4. Products feature**

The BD400 is perfect for lifting heavy loads, with a maximum load capacity of up to 250kg with Fork, lifting from ground level to 4163mm.

The BD400 is a multi-purpose lifting device with a range of accessories, including the pipe cradle, fork or hook jib, that can be used anywhere where traditional bending, transporting and lifting is required.

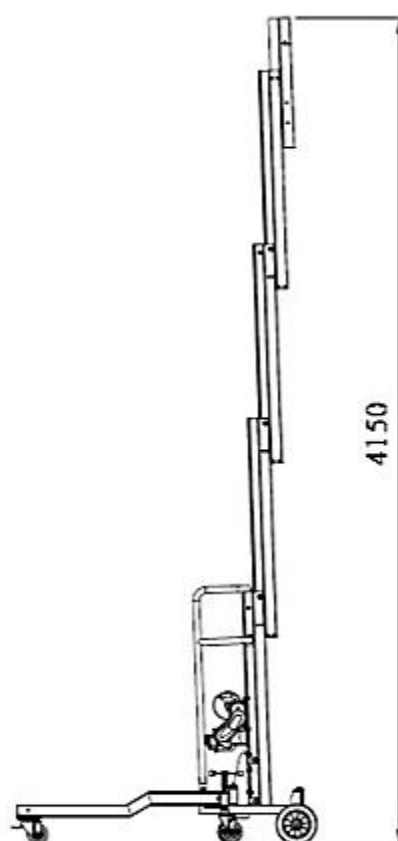
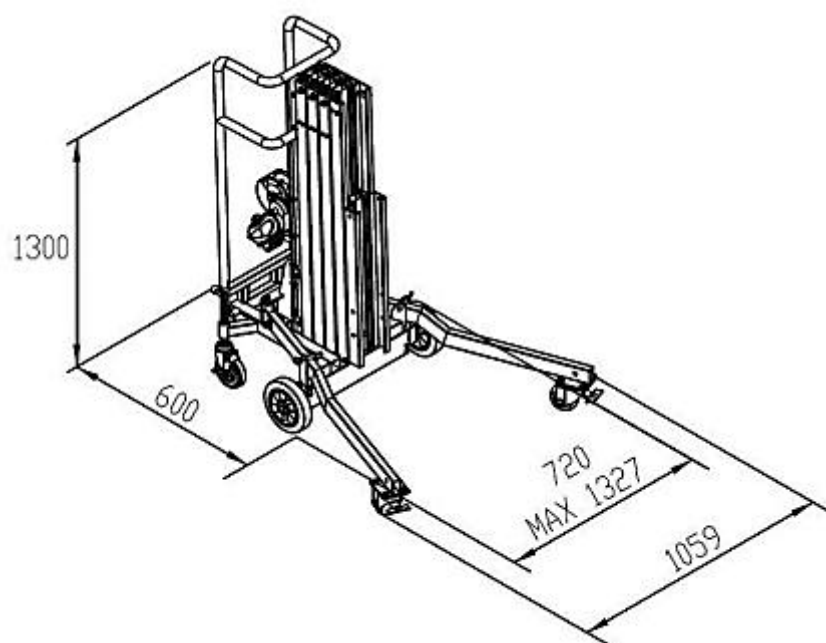
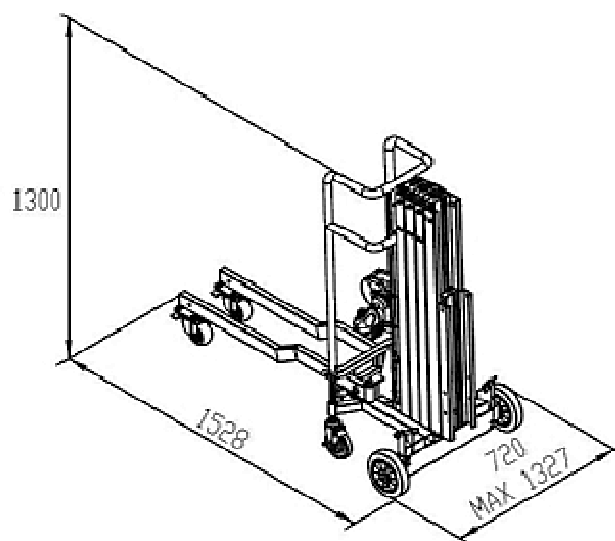
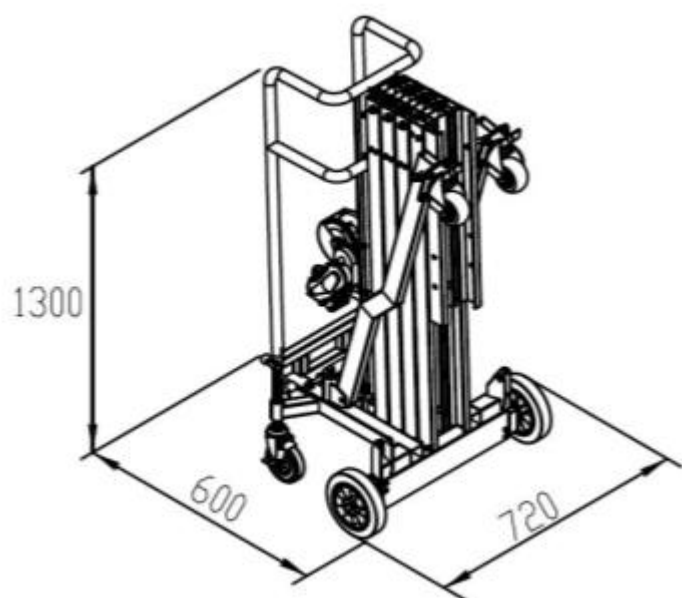
It offers a safer working environment and a reduction in potential muscle strain such as back.

The BD400 offers

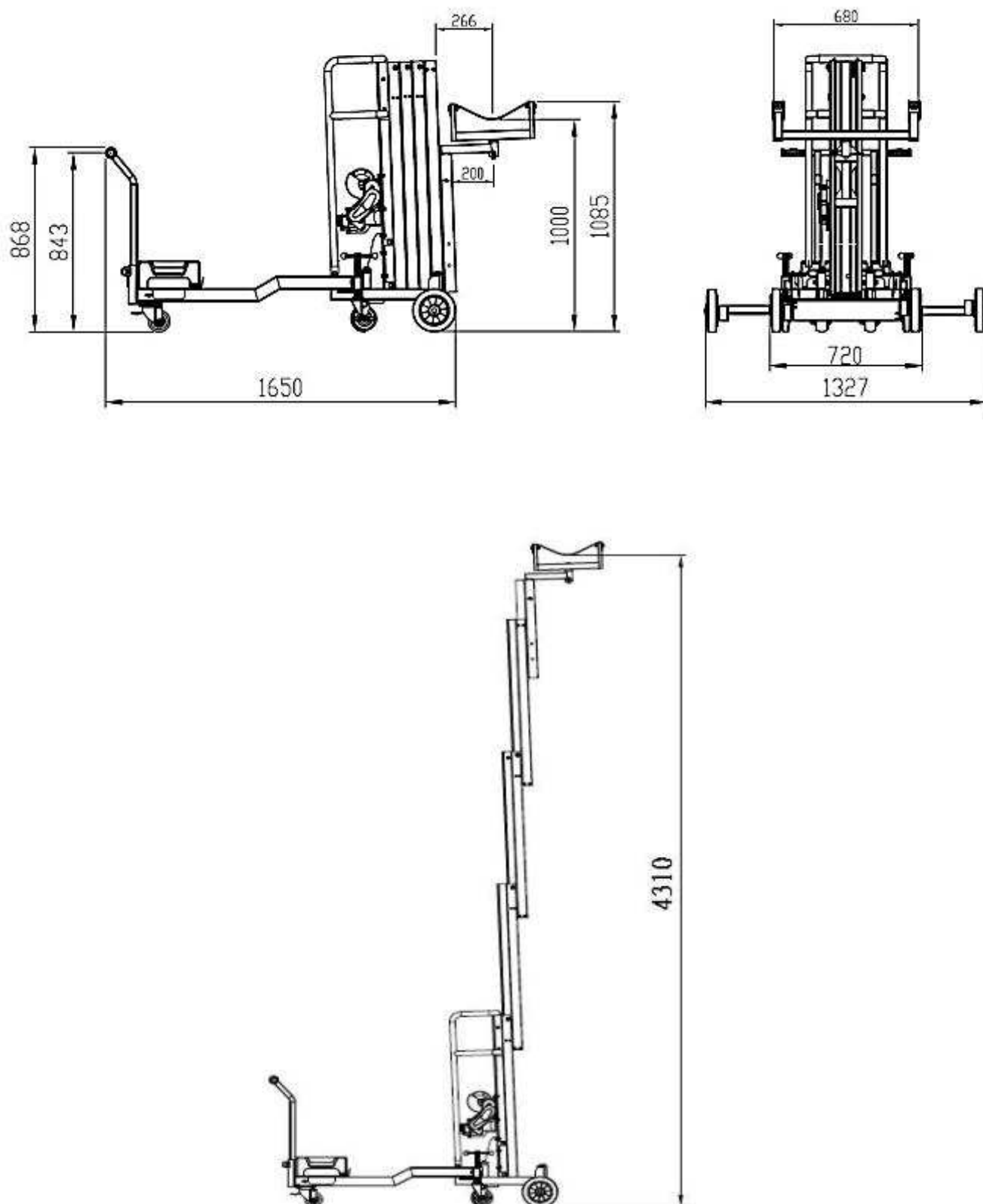
- 1 Aluminum lifting rails; compact and very strong.
2. Universal lift and multipurpose abilities thanks to the variety of accessories that can be used for beam installation, shutters, blinds, air conditioners etc.
3. Compact and removable construction for easy transport in vehicles and storage in a workshop
4. Virtually immediate use once out of the vehicle.

## 5. Overall Dimensions

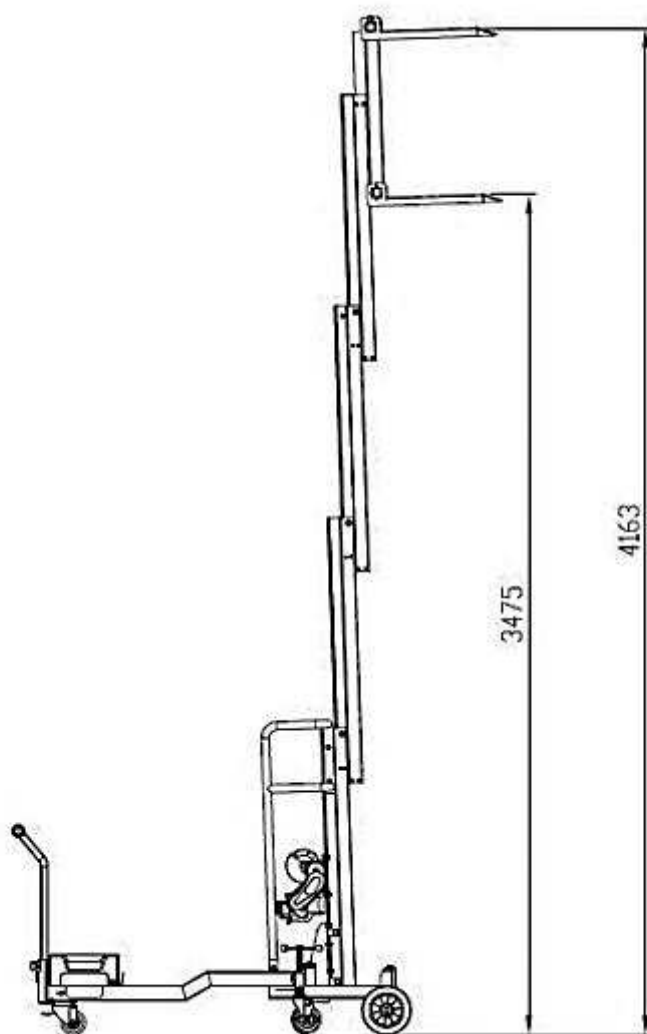
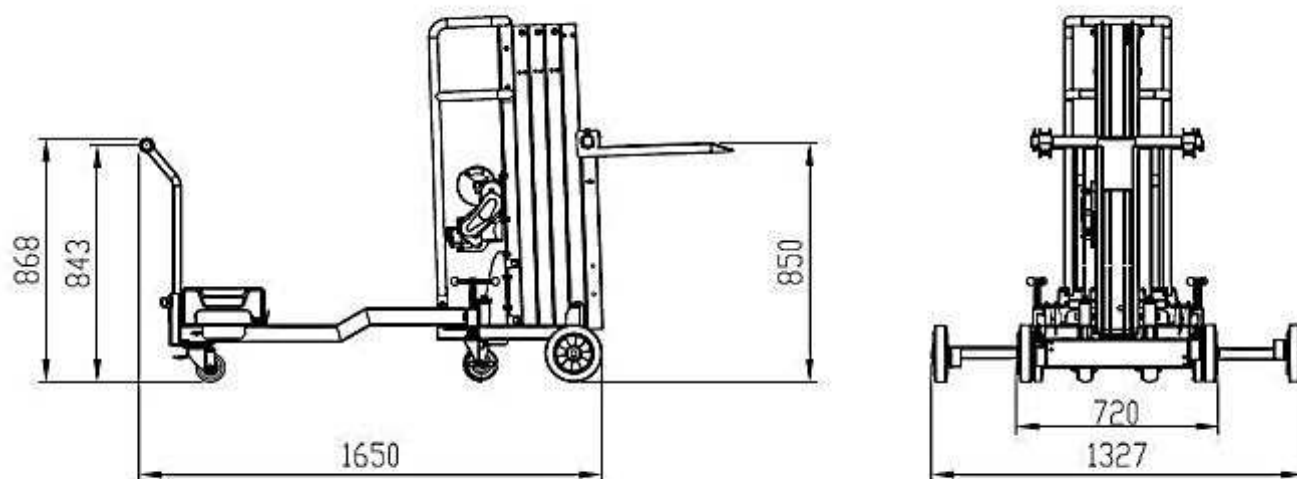
WITHOUT ACCESSORIES



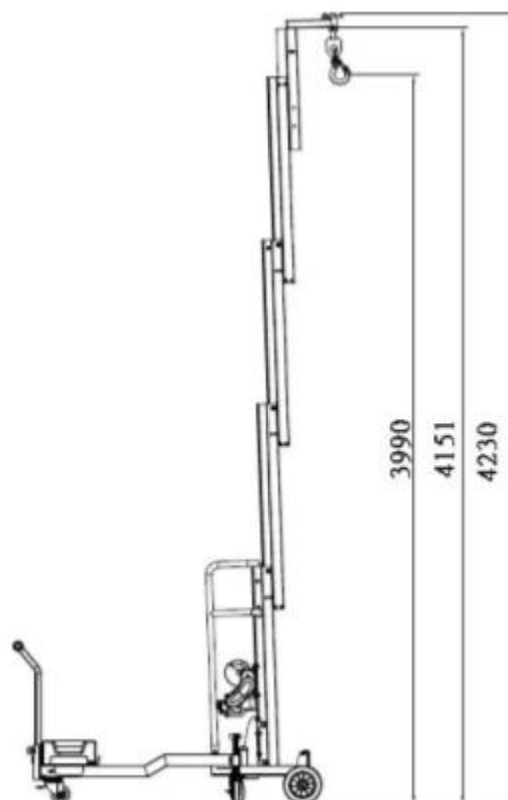
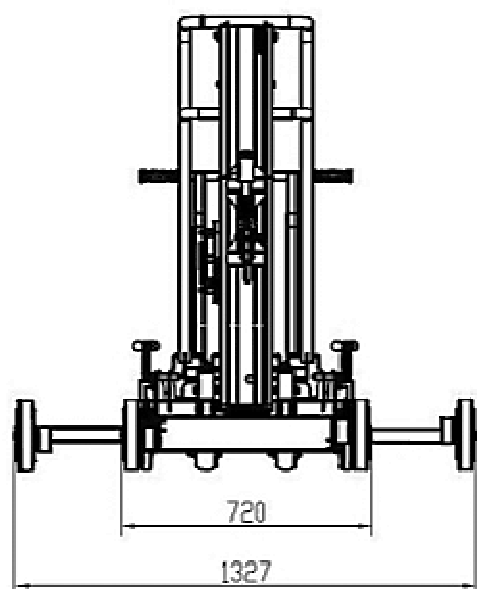
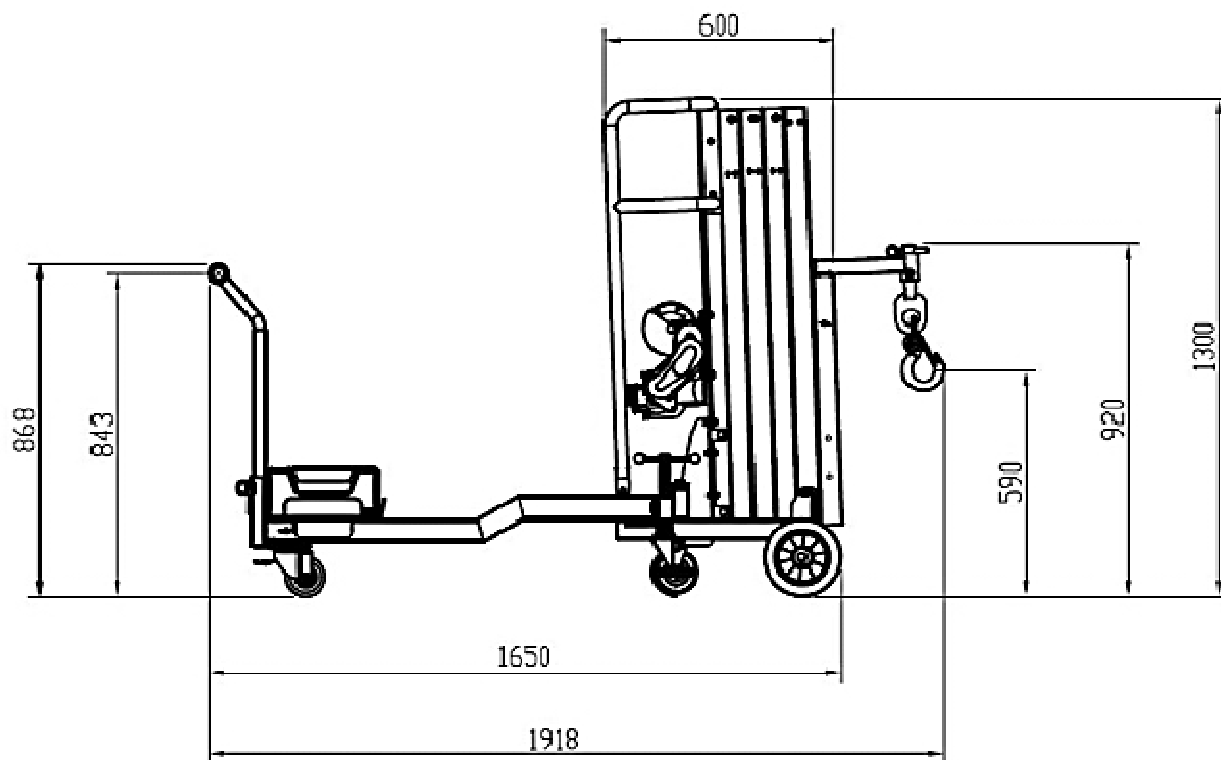
# WITH PIPE CRADLEACCESSORY



# WITH FORK ACCESSORY

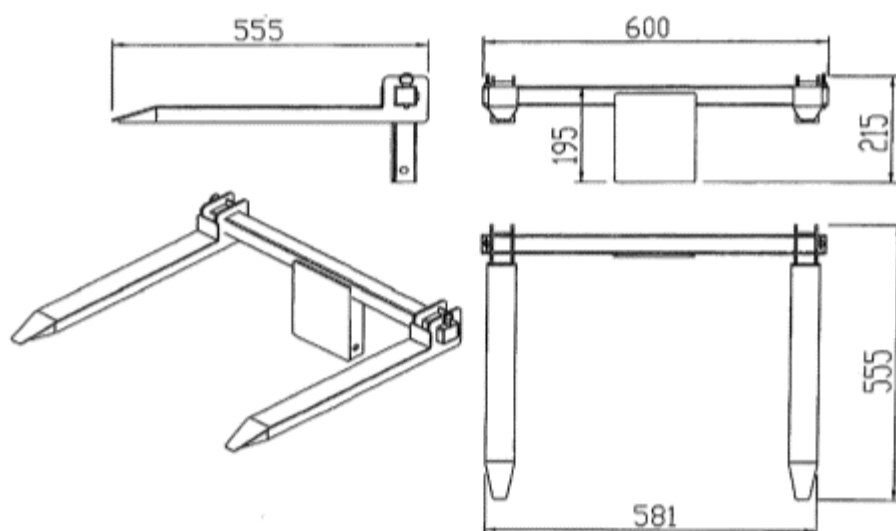


# WITH HOOK & JIB ACCESSORY

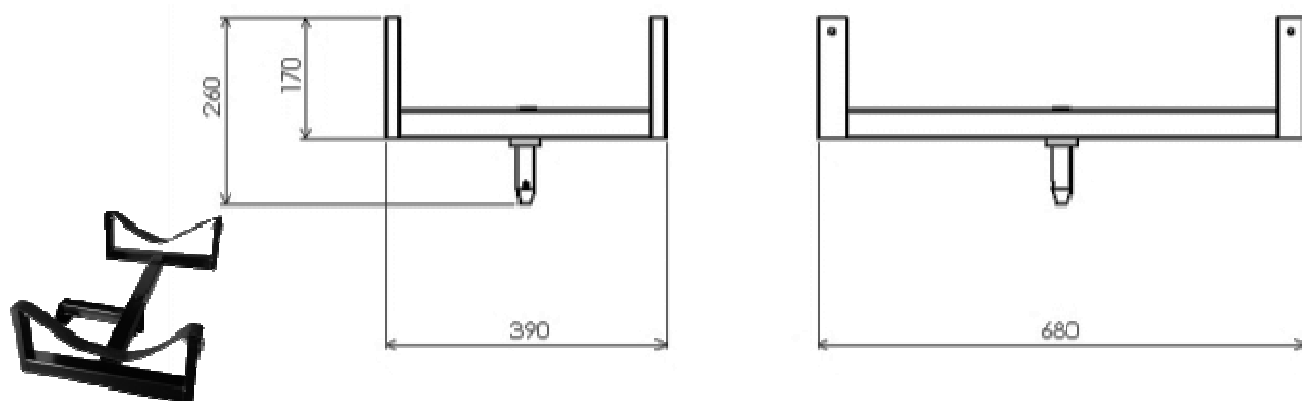


## ACCESSORY DIMENSIONS

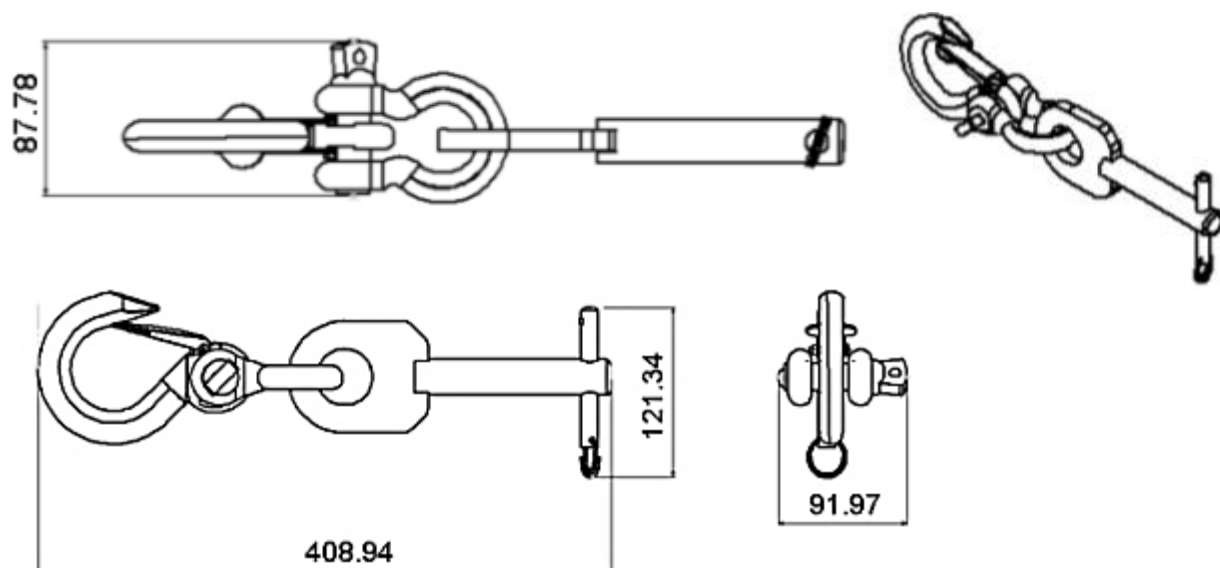
### FORKS



### PIPE CRADLE



### HOOK & JIB



## 6. Assembly Instructions-Option A / Option B

### Setting up the BD400

Before starting, ensure all required safety precautions have been addressed. Then:

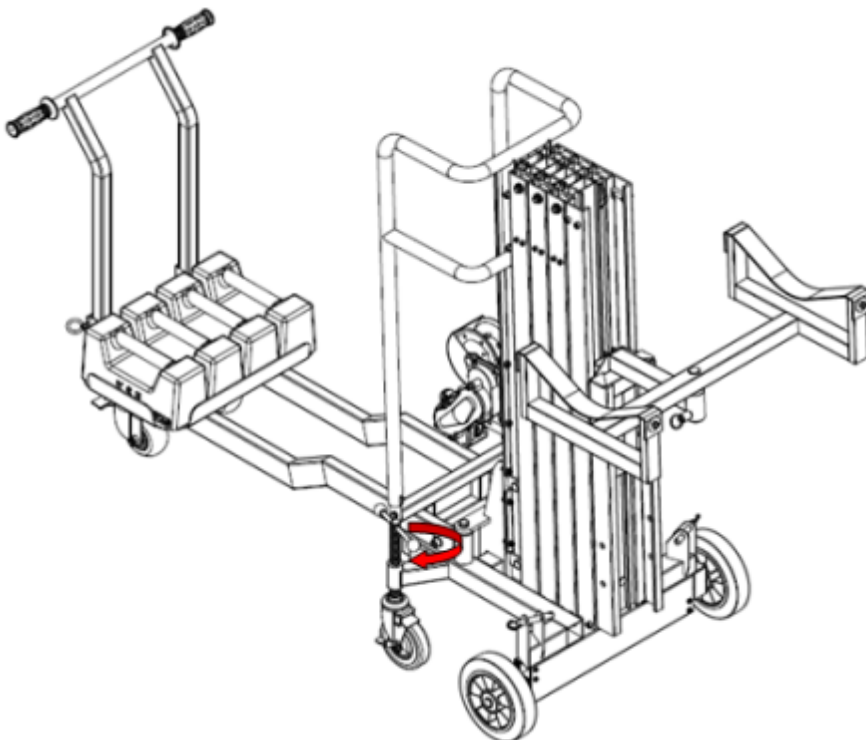
- 1) Unpin both pins that are attaching the legs to the (shaft).
- 2) Lower the legs into the desired position, in accordance with the options below:

There two assembly types:

**Option A) – Close to the wall** **Option B) – Legs out towards the front**

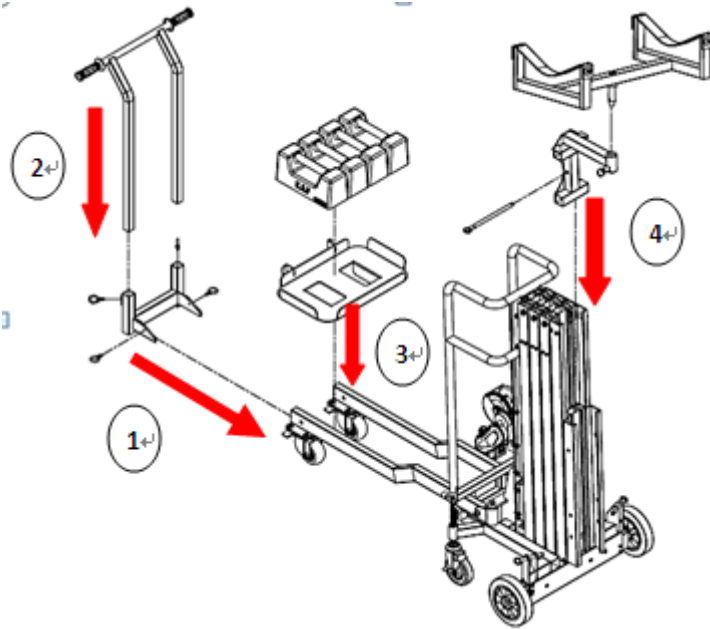
#### A) If Option A is desired

1. Adjust the height of stabilizing wheels by turning the handle, this will stabilize the machine whilst you maneuver the legs.

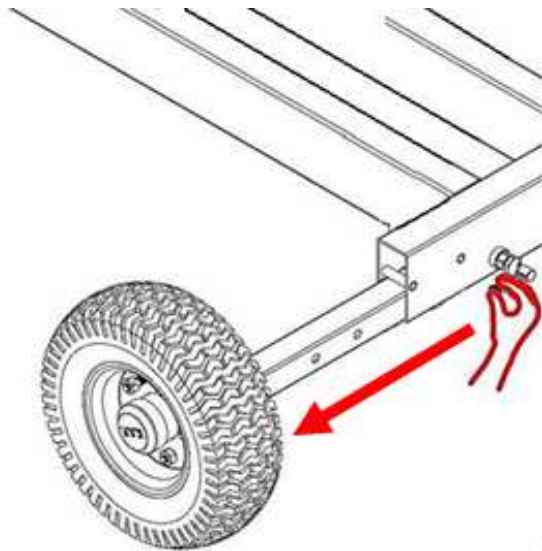


2. Turn the legs towards the back of the lifter and lower them into the correct position.

3. Slot in the carry handle and base. Then, put counterweight base over both legs as shown below :

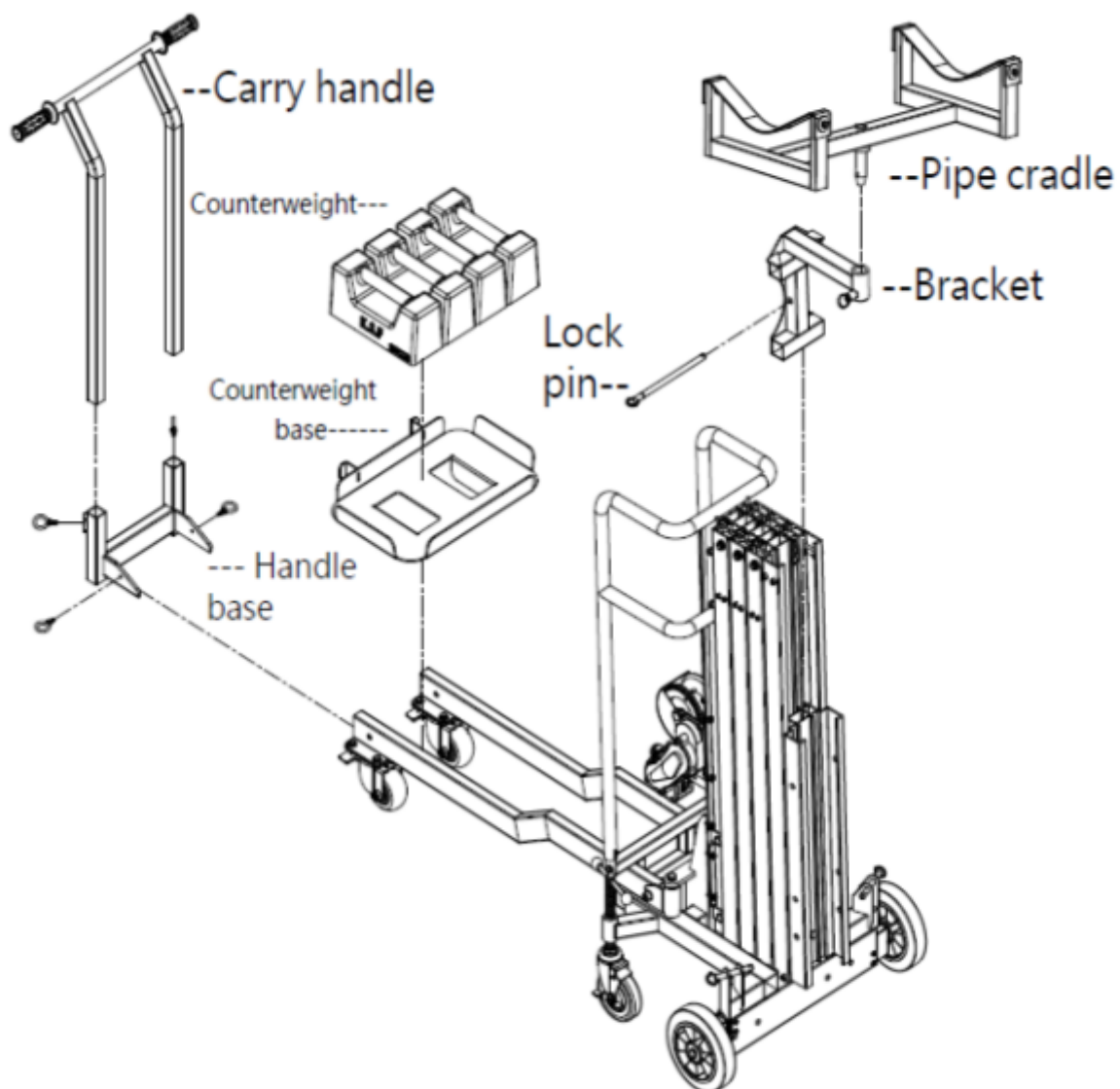


4. Place the required amount of counterweight on the base.
5. Rotate the black pins for the main wheels 180 degrees upwards as below figure.

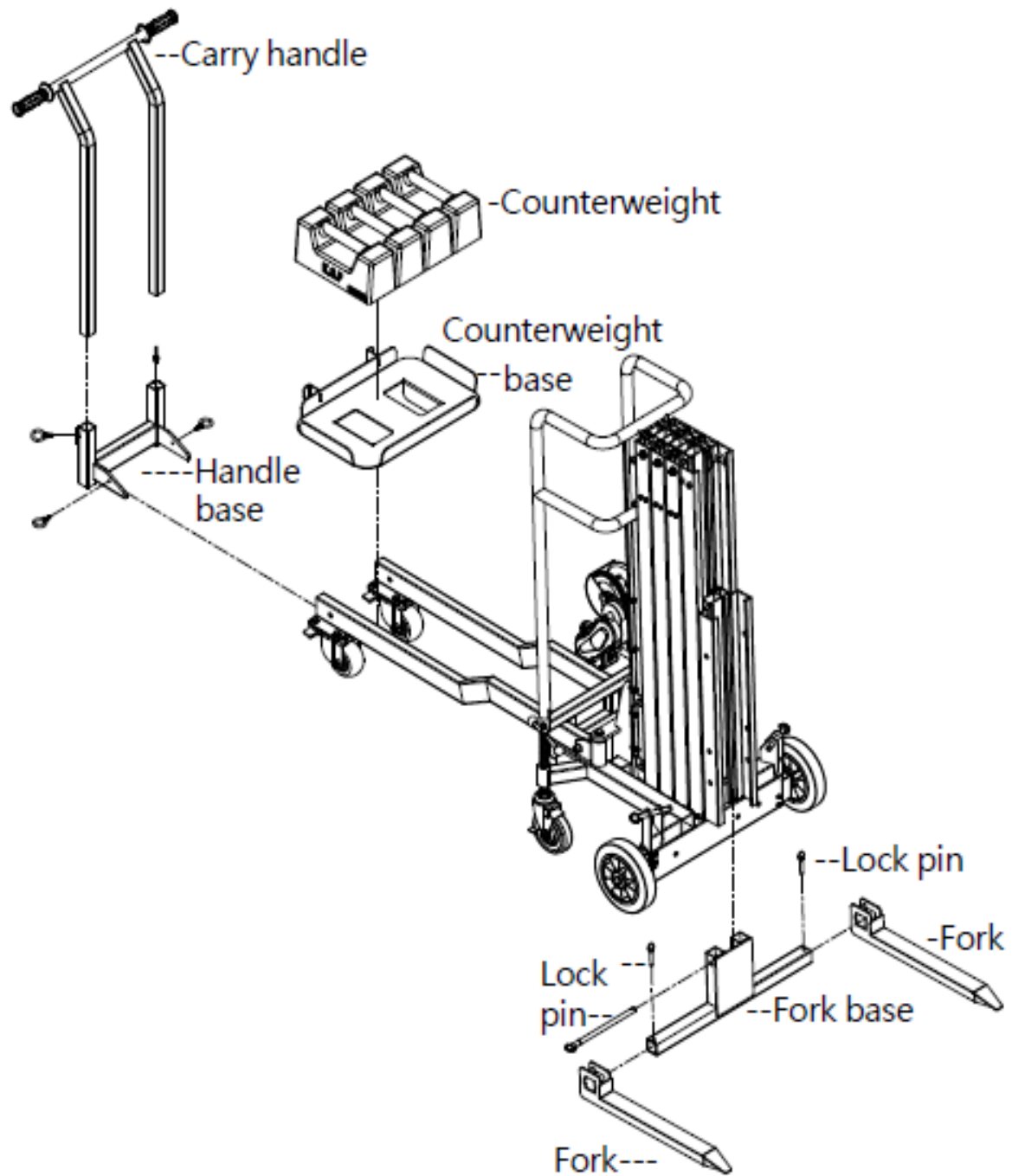


6. Slide the wheels outwards until the desired length has been reached. Once this has been achieved rotate the black pins into the initial position.
7. Plug in the BD400 to a power source.

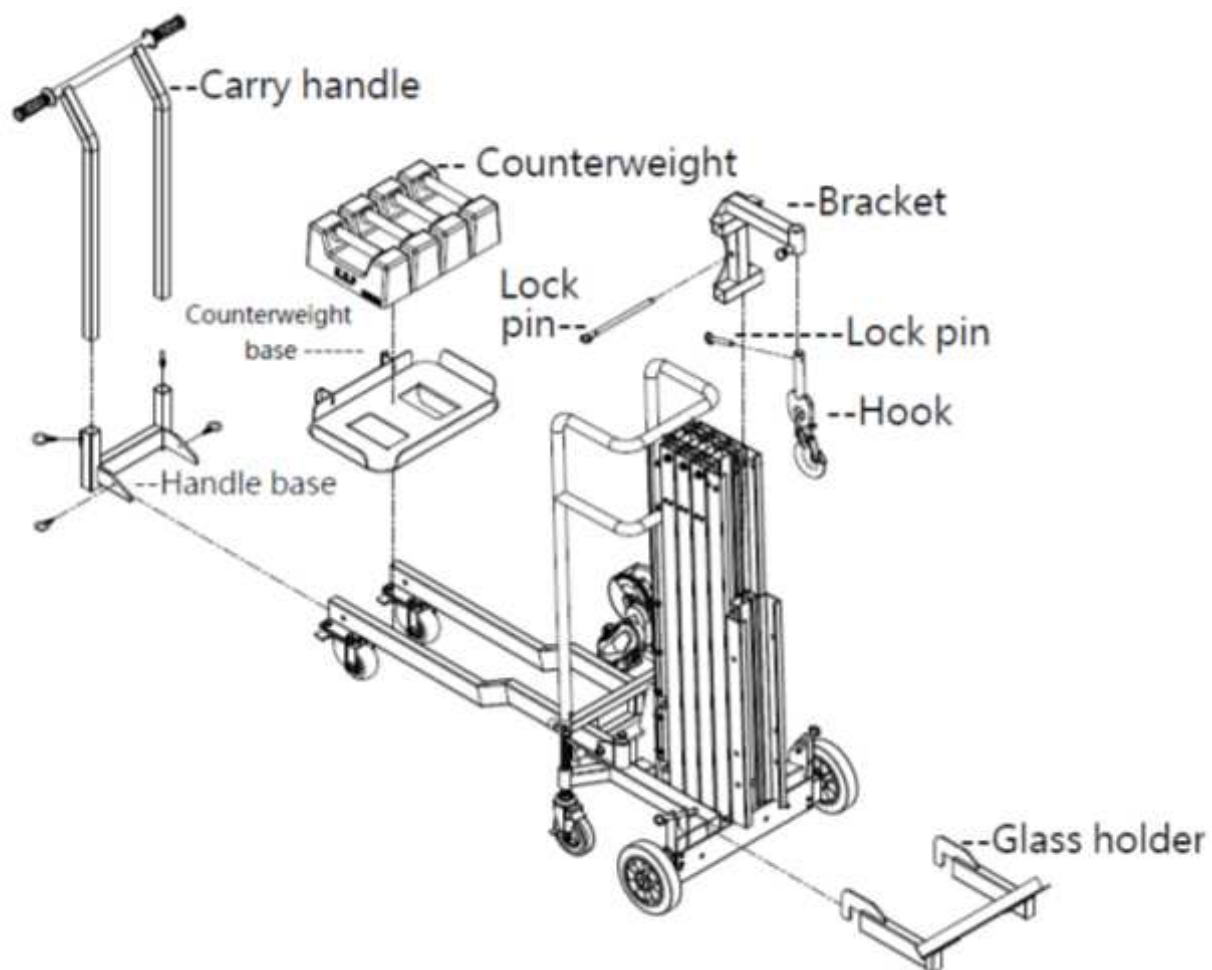
**Option A) – Close to the wall – With Pipe Cradle**



**Option A) – Close to the wall – With Fork**

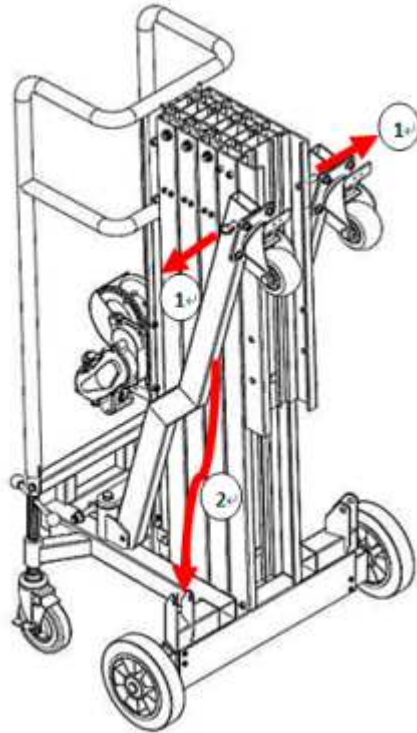


**Option A) – Close to the wall – With Hook**

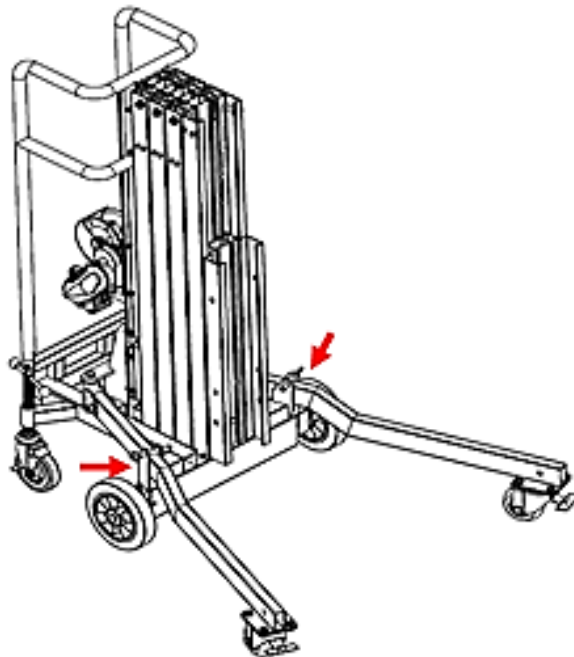


**B) If Option B is desired**

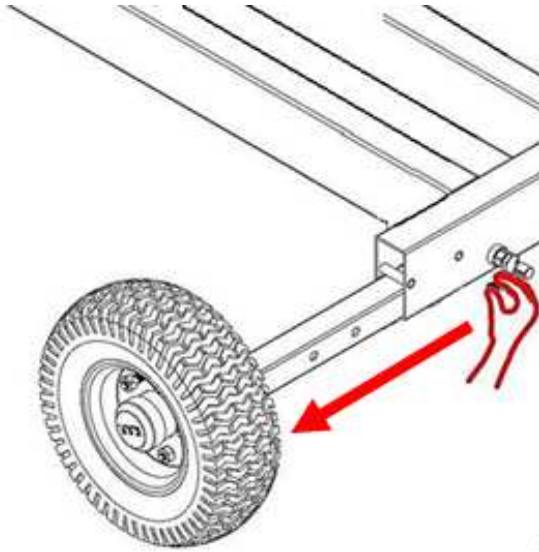
1. Pull the pin to release legs. Lower the legs into the slots holes as below:



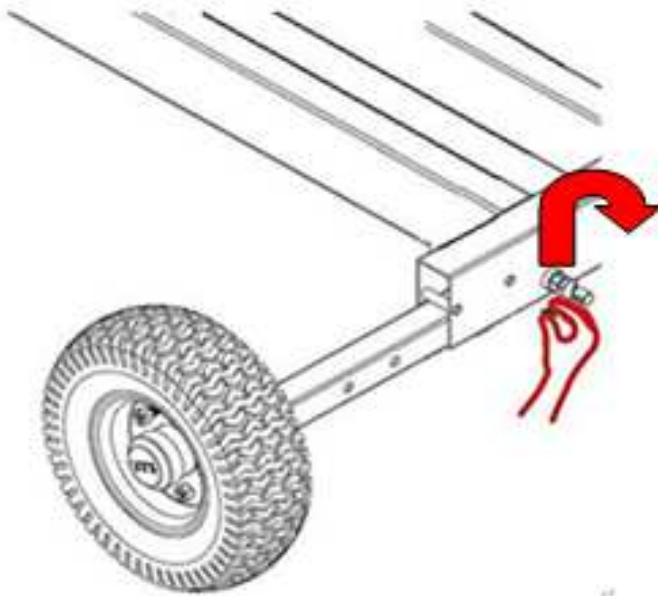
2. Place the pins in the holes.



3. Rotate the black pins for the main wheels 180 degrees upwards.

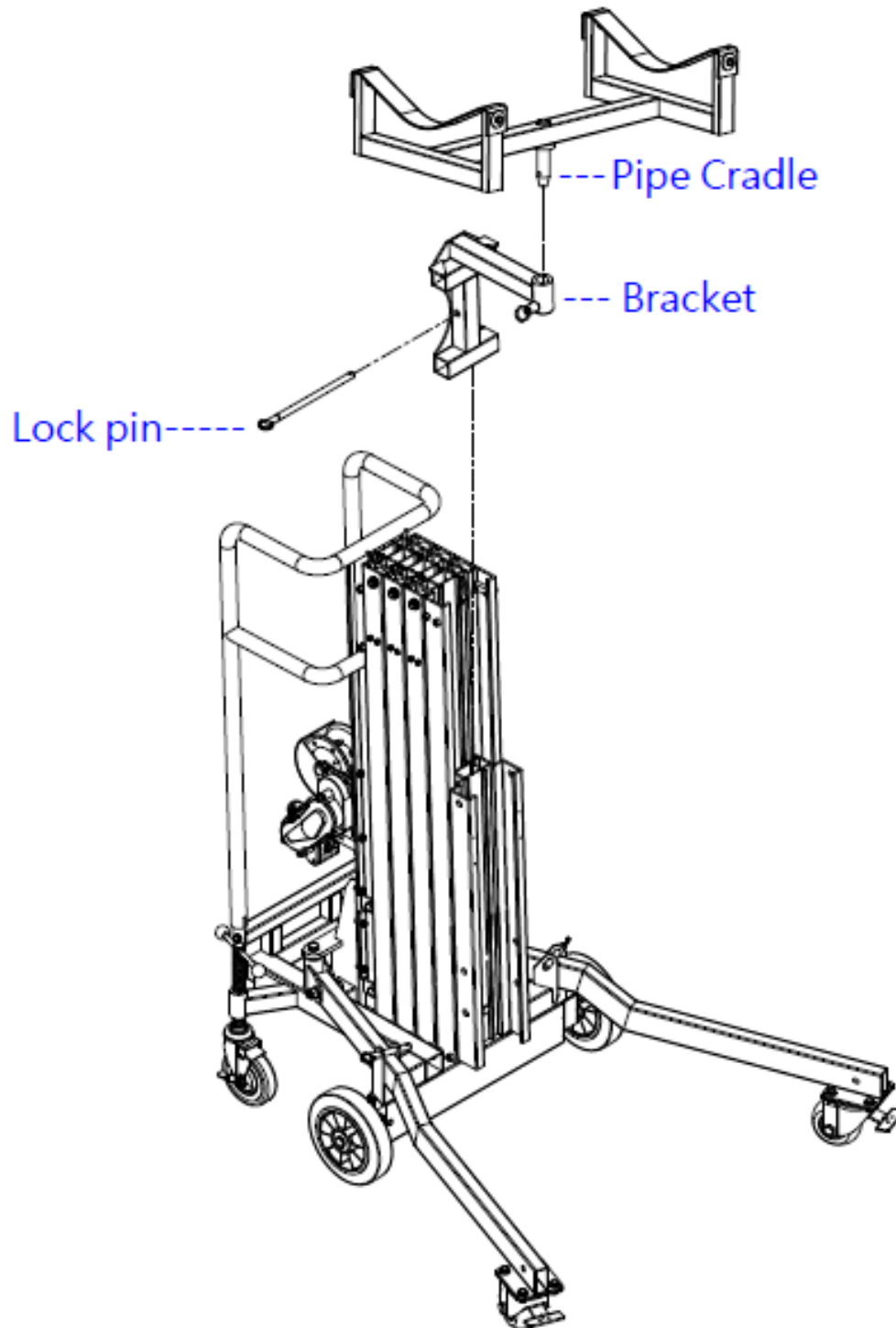


4. Slide the wheels outwards until the desired length has been reached.
5. Lock the pin back in place by rotating it back down 180 degrees.

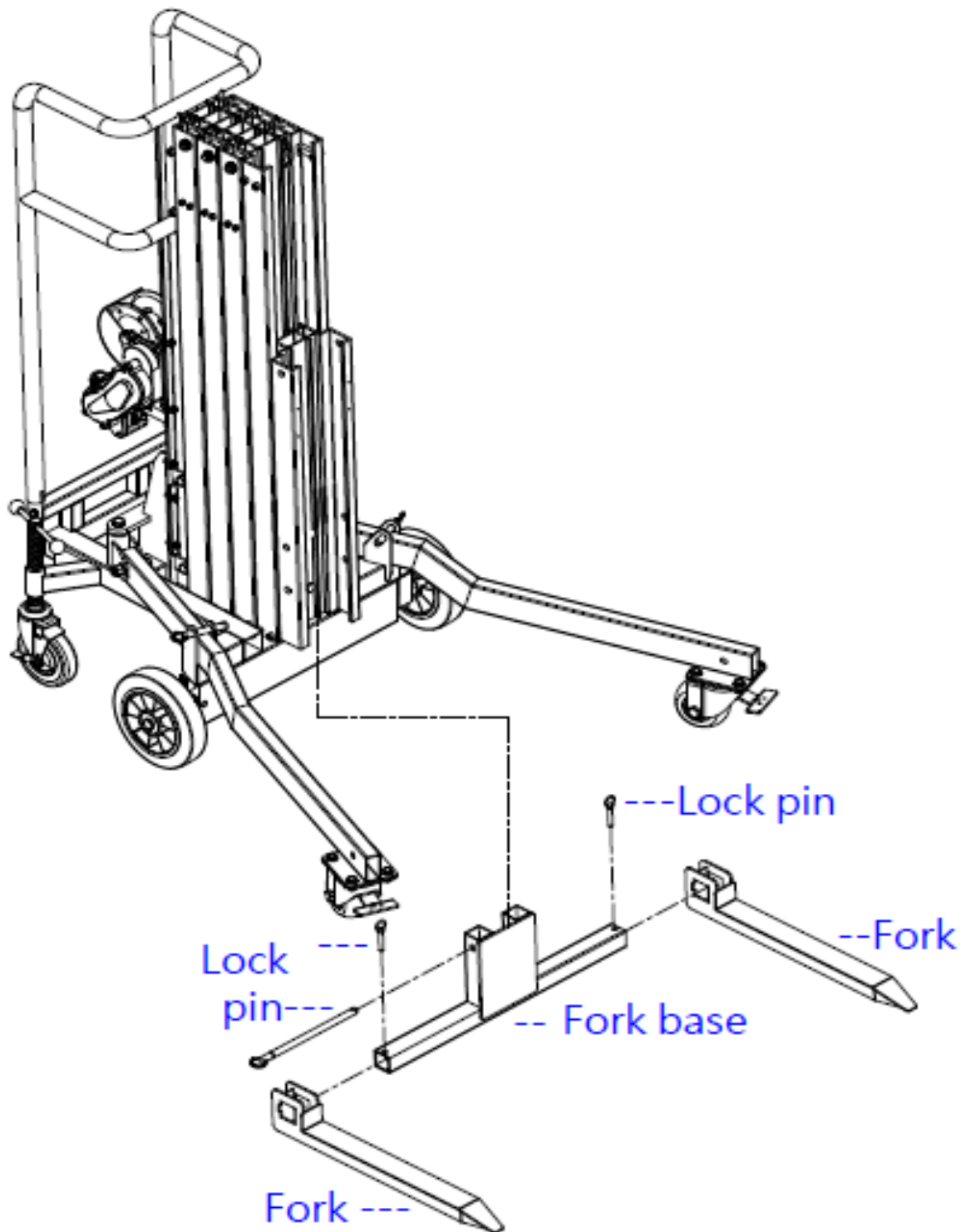


Note: Whilst adjusting the main wheels or placing the legs the stabilizing wheels may have to be adjusted.

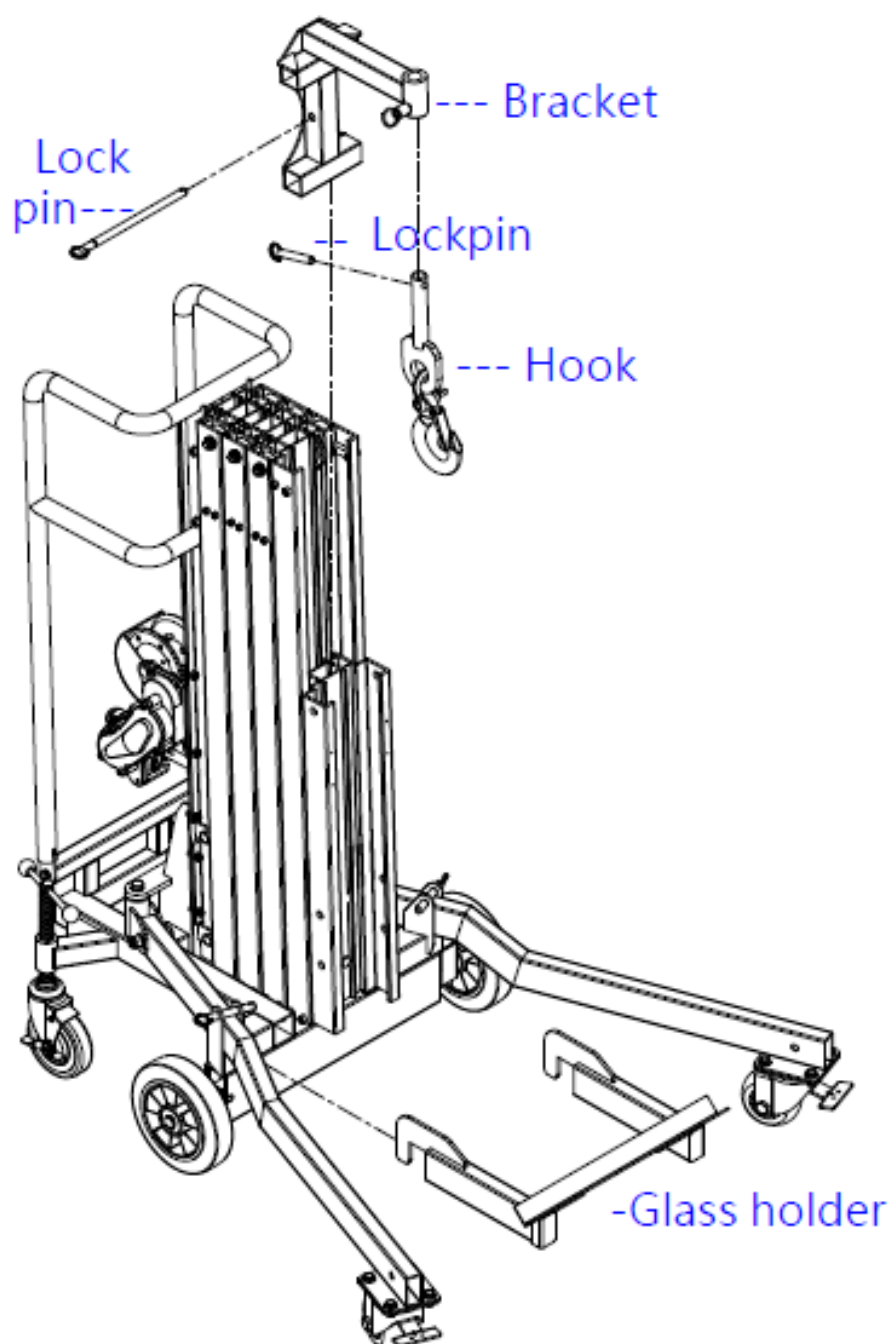
**Option B) – Legs out towards the front -With Pipe Cradle**



**Option B) – Legs out towards the front -With Fork**



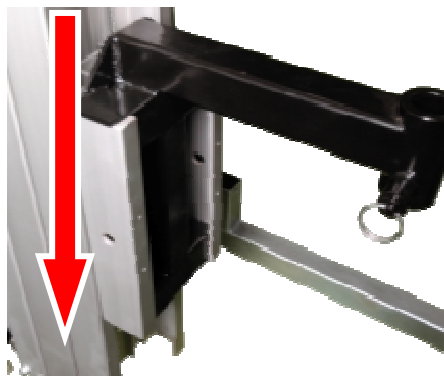
**Option B) – Legs out towards the front - With Hook**



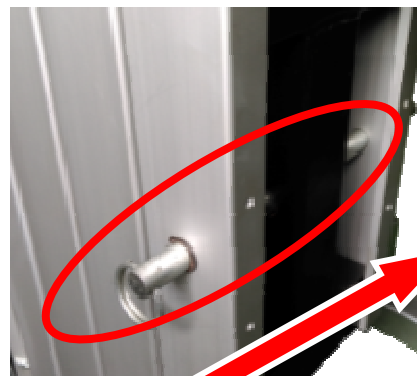
## 6.Assembly Instruction

### Assembly Instruction - Pipe Cradle

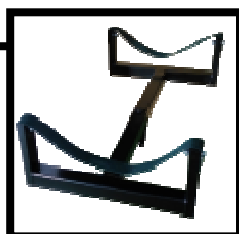
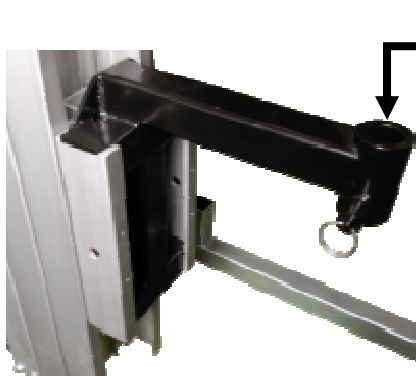
1.



Lock Pin

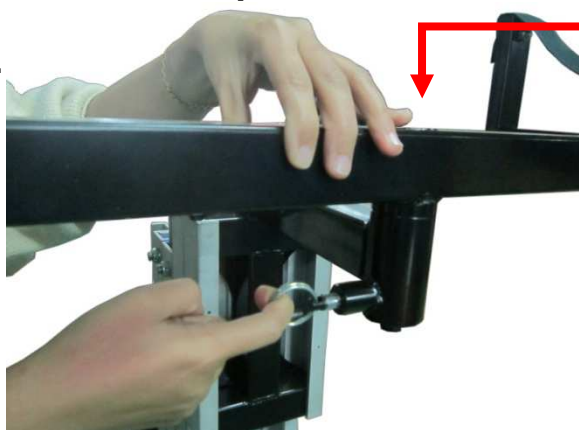


2.

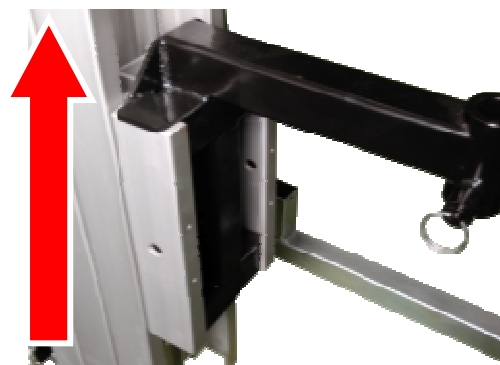


### Disassemble - Pipe Cradle

1.



2.



## Assembly Instruction - FORK

1.



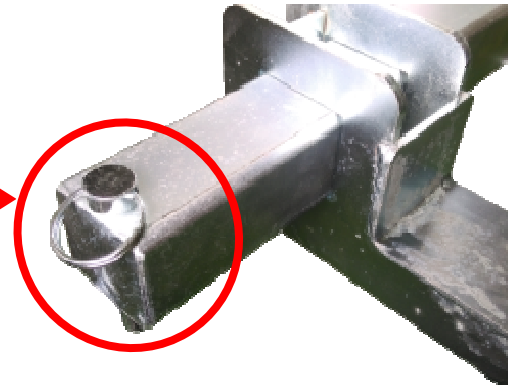
Lock Pin



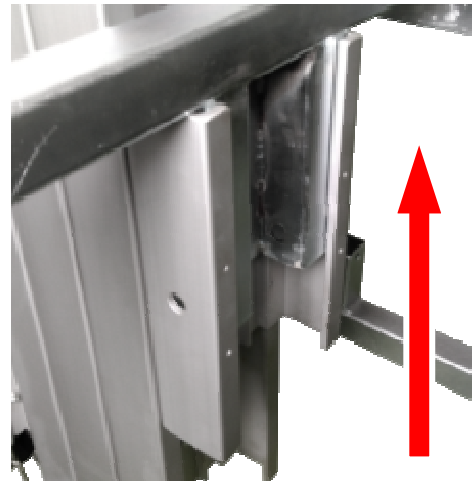
2.



Lock Pin



## Disassemble - FORK



## Assembly Instruction - Hook & Jib

1.

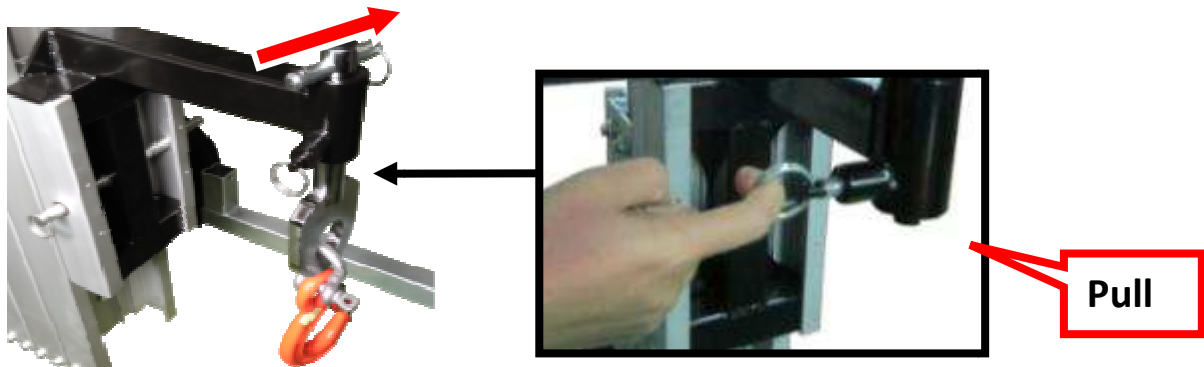


2.

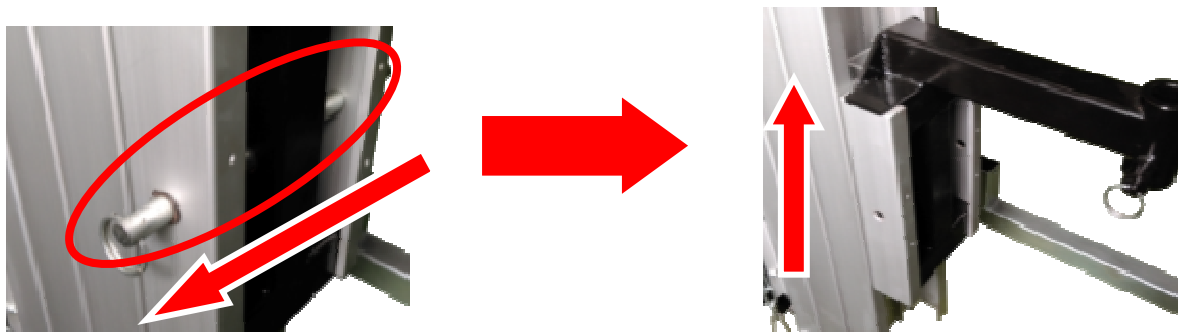


## Disassemble - Hook & Jib

1.



2.



## ***7. Inspecting the machine 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 does the tests. Inspect the machine to detect damaged, loose or missing parts. **Never use a damaged or modified machine.**

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

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

### **Do not use without:**

User must learn and practice the principles of using the machine safely contained in this operator's manual. They must also:

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

### **Before getting started**

- Ensure that the operator's manual is complete and legible.
- Ensure that all decals are legible and in place.
- Check whether the following components or areas have been damaged, altered, improperly installed or 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 that there is:

- No dents or damage
- The absence of corrosion or oxidation
- No cracks in welds or structural components
- The presence of all construction components and other critical components and that all associated fasteners and pins are in place and properly tightened.

## **8. Function Tests**

These 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**

Choose a firm test surface - flat and unobstructed.

#### **Start-up**

- 1 - Position 2 legs
- 2 - Put the fork or the cradle hooks in working position
- 3 - Ensure their assembly with the lock pin
- 5 - Adjust the wheel base if necessary
- 6 - Check that the axle pin wheels are fully inserted

### **Work Place Inspection**

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

Consider the following risk situations as examples of hazards to avoid:

- 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.

Several operators are to use a machine at different times of the day, each operator must comply with all safety regulations and instructions in this manual.

Every new operator should perform checks such as commissioning, testing functions and monitoring the workplace before using the machine.

## **Moving Machine with a load**

It is best to move the machine around the workplace without a load. The machine must not be moved whilst the load is being lifted. If it is necessary to move the machine with a raised load, understand and follow the following safety rules:

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

## **Lifting and lowering of the load**

- 1 - Center the load on the forks or cradles.
- 2 - Secure the load on the forks or cradles, always as close as possible to the masts
- 3 - Raise the load by press the “UP” button of the switch
- 4 - Lower the load by press the “DOWN” button of the switch

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 of 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.

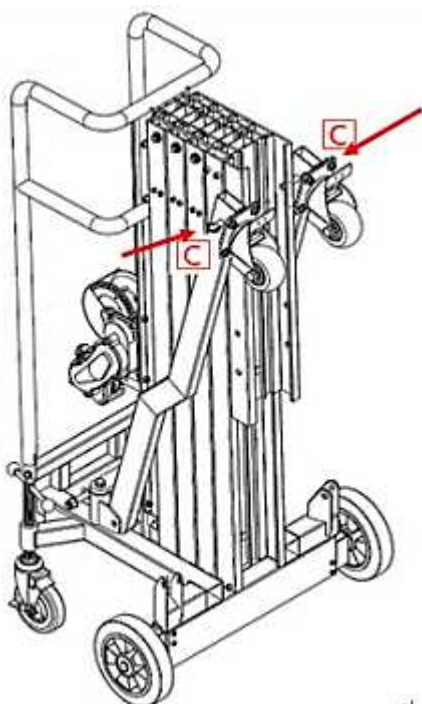
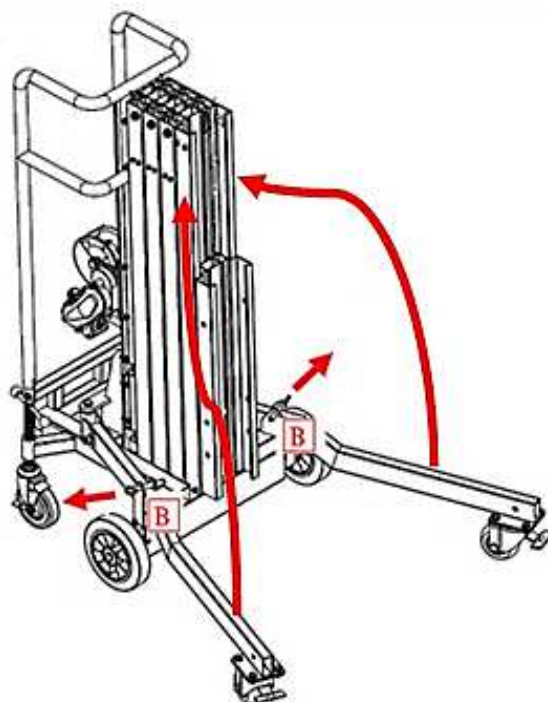
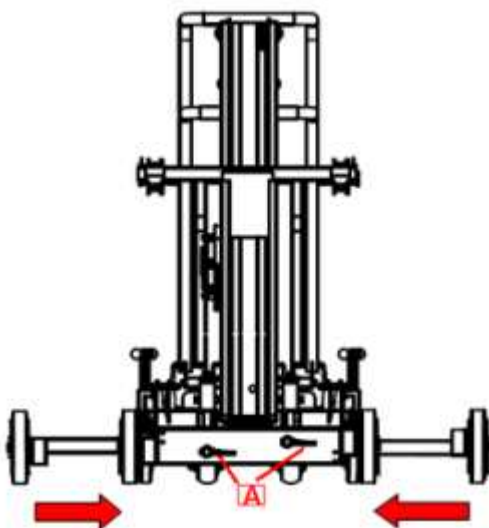
## 9. Disassemble

Be



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

1. Remove the lock pin of pipe cradle, fork, and hook. Take them off from mast.
2. Press the handle as shown in figure A to retract the wheel.
3. Pick up the pin as shown in figure B, fold two legs up.
4. Insert the lock pin as shown in figure C to fix the two legs.



## ***10. Transport Instructions***

The transport vehicle must be parked on a level surface before loading or unloading this machine.

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

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

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

Ensure that the carriage remains locked in the down position.

Use a minimum of 2 webbing slings to secure the machine during transport.

## **11. ResponsibilityStatement**

-----  
We appreciate your adopting of the BD400.  
Our company is insistent in high quality and  
excellent technology to manufacture all  
types of professional equipment to help  
customers create high quality products that  
generate high profits. Any suggestion of  
improvements will be very much welcome.  
-----

## 12. Explosion View

