

3 BEFORE OPERATION

A visual inspection of the machine is required to determine if any part of the material lift is worn or damaged. Testing the material lift before placing a load on the equipment will determine if there are any malfunctions.

If any worn or damaged components are observed or suspected, or if the equipment malfunctions, remove the material lift from service immediately. Repairs to the material lift should only be performed by authorized personnel according to the manufacturer's specifications.

An inspection of the work area will determine if the area is safe for operation of the material lift.

Prior to operation:

- Visually inspect the material lift for worn or damaged components
- Set up and test the material lift to determine if there are any malfunctions
- Inspect the work area

VISUAL INSPECTION

Before operating the material lift:

- Inspect the wheels and casters for excessive wear or damage
- Inspect the material lift for loose, damaged or missing fasteners
- Inspect the base, legs, stabilizers, mast sections, pulleys and forks for damage and improperly installed or missing components
- Inspect the cable for wear, frays, kinks or damage
- Verify that the cable is wrapped around the winch drum at least four times when the carriage is lowered
- Inspect the entire material lift for dents, damage, excessive rust or corrosion and cracks in welds or on structurally critical components, such as mast sections
- Verify that all decals are legible and correctly attached to the material lift

WARNING

If any worn or damaged components are observed or suspected, remove the material lift from service immediately. Repairs to the material lift should only be performed by authorized personnel according to the manufacturer's specifications.

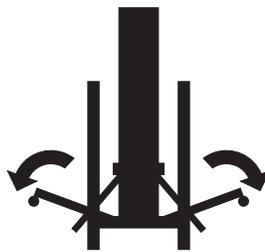
SET UP

- To set up the machine, select an area that is firm, level and clear of debris and overhead obstructions.

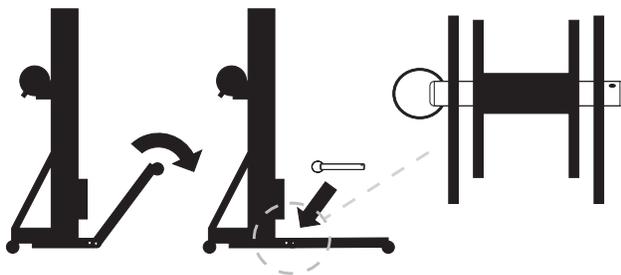
Follow these steps to set up the machine:

If the material lift is equipped with stabilizers:

- Push down on the stabilizer lock plates to release the stabilizers
- Lower the stabilizers until the casters are in contact with the ground
- Verify that the lock plates are engaged and the stabilizers are locked in the down position

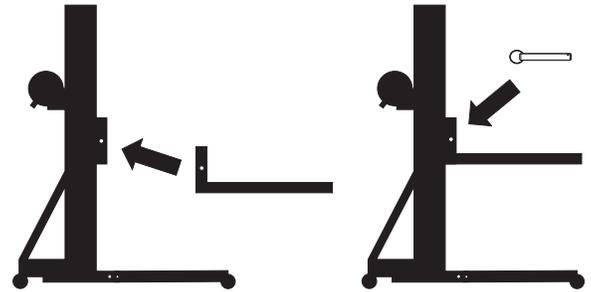


- Remove the leg retainer pin
- Lower the leg to the down position
- Insert the leg retainer pin through the leg and the base



- Repeat the above steps to lower and secure the other leg
- Place the desired load lifting attachment (standard forks, adjustable forks, boom) inside the carriage

- Insert the fork retainer pin through the load lifting attachment and the carriage



- Engage the locking toggle on the fork retainer pin
- Rotate the carriage hold-down bar up and away from the carriage

If the material lift is equipped with adjustable forks:

- Pull up on the snap pins
- Adjust the forks to the desired width
- Verify that the snap pins are properly inserted

To install fork extensions:

- Slide the extension tube onto the fork
- Adjust the extension tubes to the desired position
- Insert the retaining pins through the extension tube and the fork

If the material lift is equipped with a load platform:

- Place the load platform on the forks

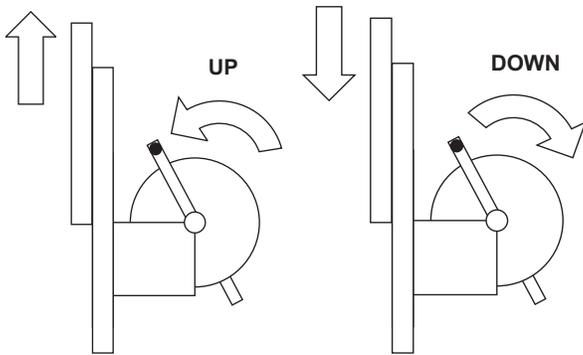
FUNCTION TEST

After the material lift is set up, perform the following test to verify that the equipment is not malfunctioning:

- Shift the winch to the slow speed
- Firmly grasp both winch handles
- Rotate the winch handles toward the mast to raise the carriage to its full height

The winch should operate smoothly, without hesitation or binding, and the motion should raise the carriage to the top of the first mast section followed in order by each consecutive mast section.

- Rotate the winch handles away from the mast to completely lower the carriage
- Rotate the winch handles one quarter-turn toward the mast - as if raising the carriage - to set the brake



The winch should operate smoothly, without hesitation or binding.

⚠ WARNING

If the equipment malfunctions, remove the material lift from service immediately. Repairs to the material lift should only be performed by authorized personnel according to the manufacturer's specifications.

WORK AREA INSPECTION

NEVER set up the material lift where any of the following hazards exist:

- Drop-offs
- Holes
- Debris
- Uneven or unstable surfaces
- Surfaces that will not support the forces imposed by the material lift, its operation and its load.
- Slippery surfaces
- Slopes
- Overhead obstructions
- Power lines or other electrical conductors
- High winds or inclement weather
- Moving vehicles

ALWAYS position the material lift on a firm, level surface.

4 OPERATION

The following section provides instructions for the safe and proper operation of the material lift. It is the responsibility of the operator to follow these instructions. Failure to follow these instructions, as well as all safety rules in this manual and attached to the material lift may result in serious injury or death.

During operation:

- Follow all of the safety rules provided in previous sections of this manual
- Follow all instructions provided in this section

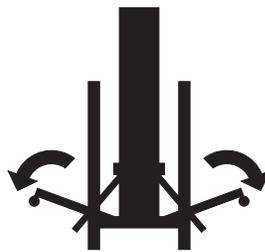
SET UP

- To set up the machine, select an area that is firm, level and clear of debris and overhead obstructions.

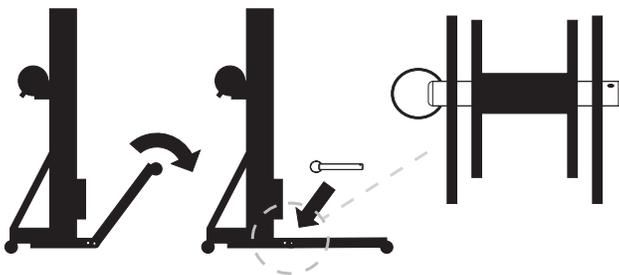
Follow these steps to set up the machine:

If the material lift is equipped with stabilizers:

- Push down on the stabilizer lock plates to release the stabilizers
- Lower the stabilizers until the casters are in contact with the ground
- Verify that the lock plates are engaged and the stabilizers are locked in the down position

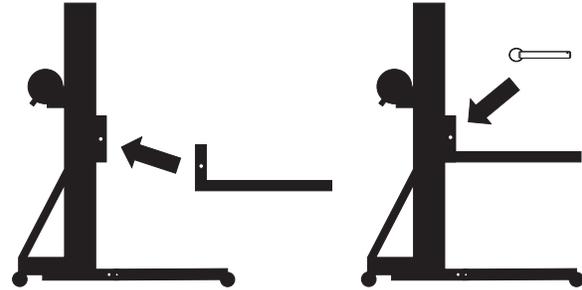


- Remove the leg retainer pin
- Lower the leg to the down position
- Insert the leg retainer pin through the leg and the base



- Repeat the above steps to lower and secure the other leg
- Place the desired load lifting attachment (standard forks, adjustable forks, boom) inside the carriage

- Insert the fork retainer pin through the load lifting attachment and the carriage



- Engage the locking toggle on the fork retainer pin
- Rotate the carriage hold-down bar up and away from the carriage

If the material lift is equipped with adjustable forks:

- Pull up on the snap pins
- Adjust the forks to the desired width
- Verify that the snap pins are properly inserted

To install fork extensions:

- Slide the extension tube onto the fork
- Adjust the extension tubes to the desired position
- Insert the retaining pins through the extension tube and the fork

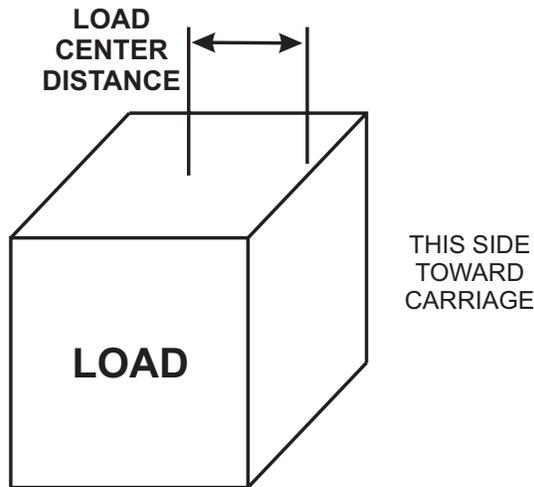
If the material lift is equipped with a load platform:

- Place the load platform on the forks

POSITIONING THE LOAD

Determine the following before placing a load on the material lift:

- Weight of the load
- Location of the load center
- Distance between the load center and the side of the load that will be closest to the carriage



NOTE: Load center refers to the center of gravity of the load and may not be its physical center. The heaviest side of an uneven load should always be positioned closest to the carriage on the material lift.

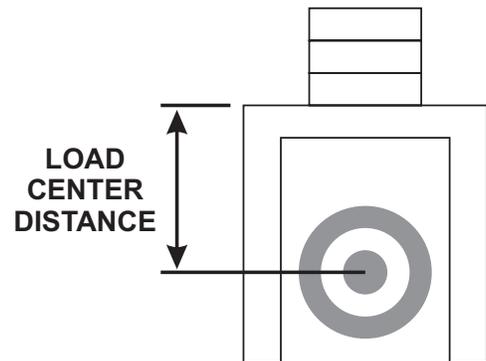
Refer to the chart below to determine if the material lift can lift the desired weight.

MODEL	Load Center		
	14 in 36 cm	24 in 61 cm	42 in 107 cm
MLC-12	750 lb 340 kg	450 lb 205 kg	200 lb 91 kg
MLC-18	700 lb 318 kg	440 lb 200 kg	185 lb 84 kg
MLC-24	650 lb 295 kg	430 lb 195 kg	175 lb 80 kg

⚠ WARNING

Raising a load that exceeds the rated lift capacity of the material lift creates a tip-over hazard, which may result in serious injury or death.

- Place the load on the load lifting attachment



- The load should be as close to the carriage as possible, and the load center should be centered between the forks

⚠ WARNING

Raising a load that is not properly centered on the material lift creates a tip-over hazard, which may result in serious injury or death.

- Secure the load to the load lifting attachment

⚠ WARNING

Raising a load that is not securely fastened to the load lifting attachment creates a tip-over hazard, which may result in serious injury or death.

TWO-SPEED SHIFT

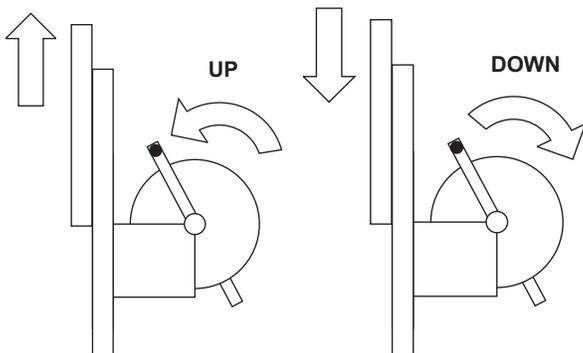
- ❑ To change the winch speed, push the winch handles sideways in the direction of the desired speed

←**SLOW** • **SPEED** • **FAST**→

- ❑ Push the winch handles to the left to shift the winch to the slow speed
- ❑ Push the winch handles to the right to shift the winch to the fast speed
- ❑ Turn the winch handles toward the mast until the winch locks

RAISING AND LOWERING THE LOAD

- ❑ Set up the material lift and position the load according to the procedures on the previous pages
- ❑ Verify that the load is secured to the load lifting attachment
- ❑ Shift the winch to the desired speed
- ❑ Firmly grasp both winch handles
- ❑ Rotate the winch handles toward the mast to raise the load
- ❑ Rotate the winch handles away from the mast to lower the load



- ❑ After lowering the load to the desired position, rotate the winch handles one quarter-turn toward the mast - as if raising the carriage - to set the brake

AFTER USE

Reverse the set up procedure to prepare the material lift for storage.

Store the material lift on a firm, level surface that is protected from the weather, dirt and other hazards that could reduce the lifespan of the equipment.

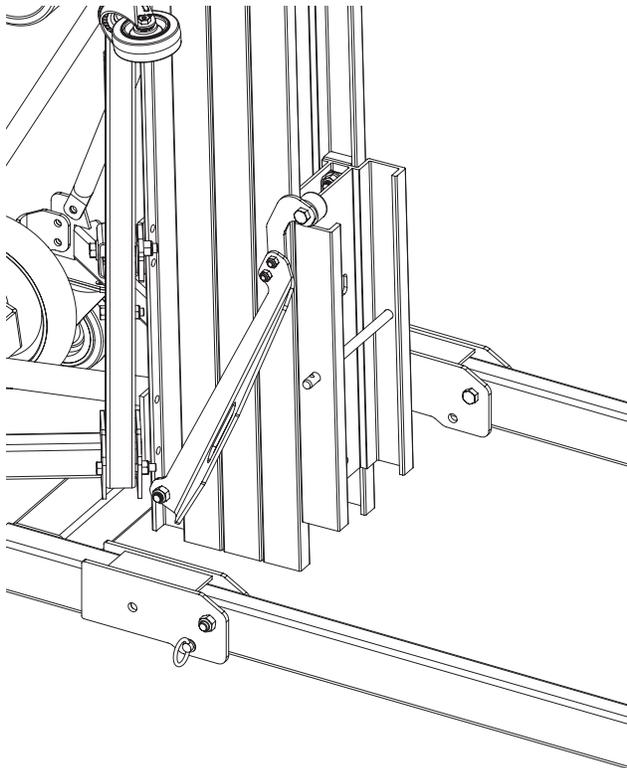
TRANSPORT

To transport the material lift:

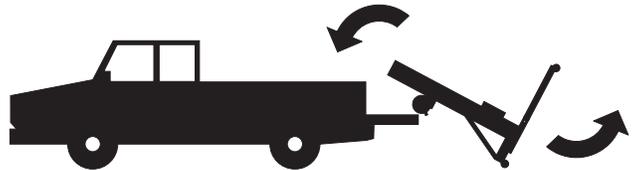
- Remove the fork retaining pin to remove the load lifting attachment from the carriage
- Turn the winch away from the mast until the carriage is fully lowered

If the material lift is equipped with stabilizers:

- Push down on the stabilizer lock plates to release the stabilizers
- Raise the stabilizers to the stowed position
- Verify that the lock plates are engaged and the stabilizers are locked in the stowed position
- Rotate the carriage hold-down bar down
- Raise the carriage until it contacts the carriage hold-down bar



- Adjust the loading wheel to the height of the truck or trailer bed using the Smart-Set adjustment system; no pin is needed
- Lock the rear base casters
- Place the material lift against the transport vehicle, with the loading wheels facing the truck or trailer bed
- Tilt the material lift towards the transport vehicle until the loading wheels touch the truck or trailer bed



- Lift the material lift at the base and push it forward to roll it onto the truck or trailer bed
- Secure the material lift by placing at least one chain or strap over the mast

CAUTION

Placing the chain or strap over the legs may damage the material lift. Always place the chain or strap over the mast only.

NOTE: Transport of the material lift does not require the legs to be placed in the stowed position. To raise the legs, remove the leg retainer pin and swing the legs into the stowed position. Insert the leg retainer pin.

Reverse the loading instructions to unload the material lift.