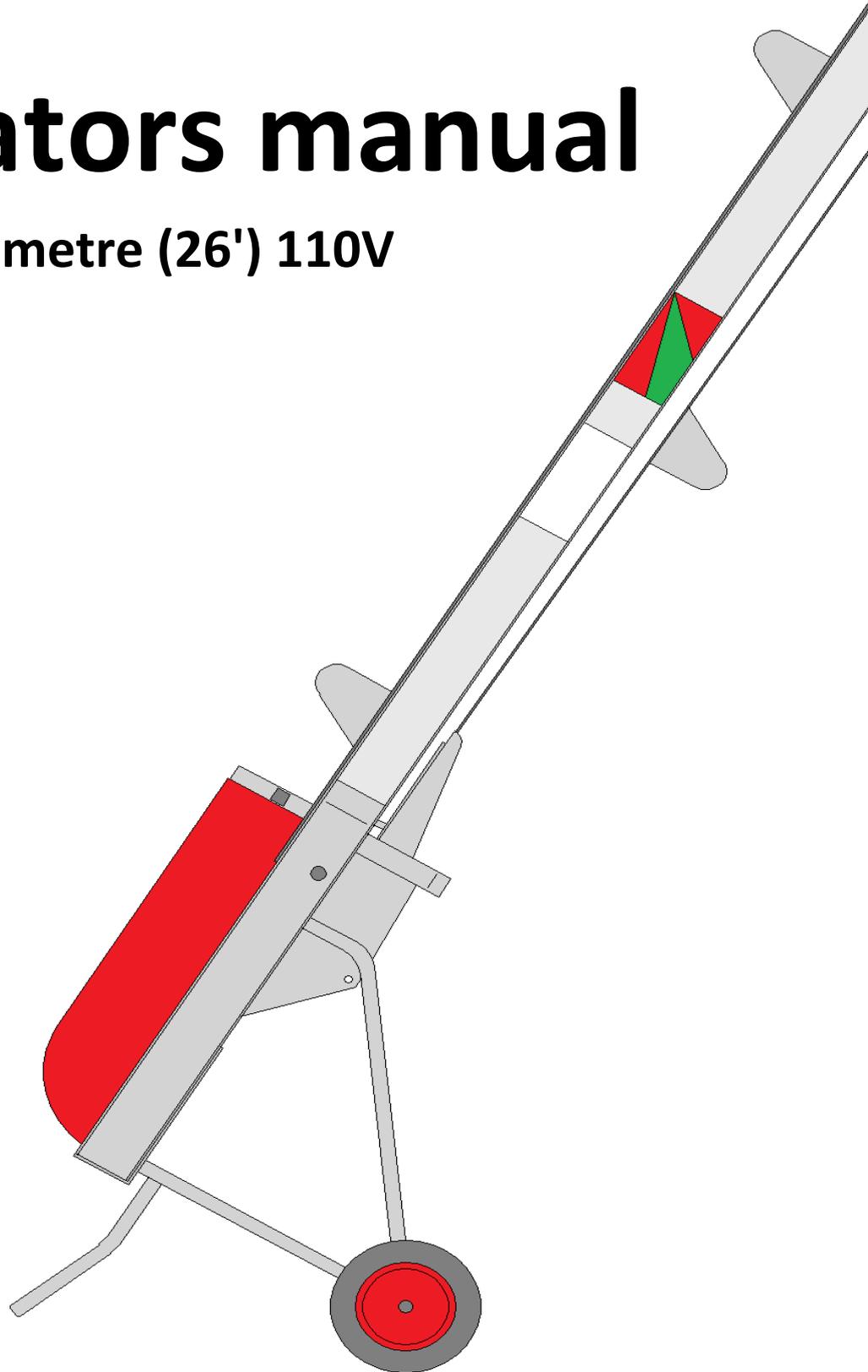




# Operators manual

**Bumpa 8 metre (26') 110V**



# SAFETY RULES

## Mk3 Bumpa Conveyor



## Danger

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

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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 function tests prior to use.

4 Inspect the workplace.

5 Only use the machine as it was intended.

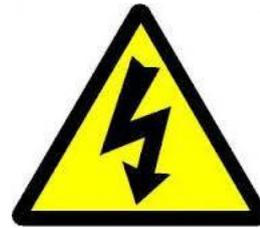
You read, understand and obey:

Manufacturer's instructions and safety rules—safety and operator's manuals and machine decals employer's safety rules and worksite regulations applicable governmental regulations.

You are properly trained to safely operate the machine

## Electrocution Hazards

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



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

### Voltage Minimum Safe Phase to Phase Approach Distance

Voltage	Feet	Metres
0 to 300V	Avoid Contact	Avoid contact
300V to 50KV	10	3.05
50KV to 200KV	15	4.60
200KV to 350KV	20	6.10
350KV to 500KV	25	7.62

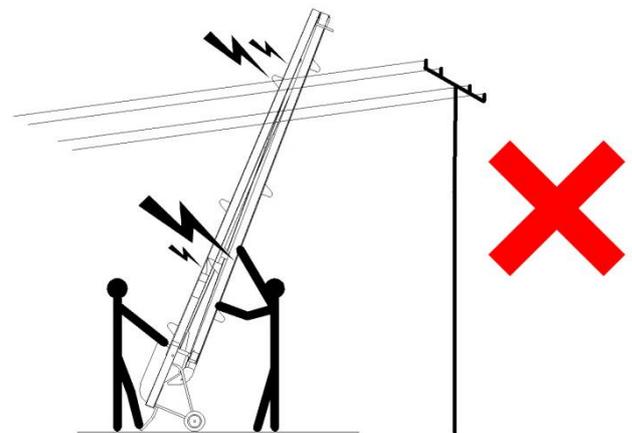
Allow for machine movement, electrical line sway or sag and beware of strong or gusty winds.

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

Do not operate the machine during lightning or storms.

Do not use the machine as a ground for welding.

Ensure safe routing of power cable to minimise risk of electrocution.



## Setup Hazards

Check work area for overhead obstructions or other possible hazards.

Do not use when under the influence of alcohol or drugs.

Ensure machine is securely fastened at the top and brakes are on before use.

Do not alter or disable machine components that in any way affect safety and stability.

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

Be aware of ground surface prior to installation.

Do not place ladders or scaffolds against any part of this machine.

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

Ensure all tyres are in good condition and cotter pins are properly installed.

Do not ride on machine.

Do not alter or disable limit switches or remote handset.

Do not operate the machine in strong or gusty winds.

When erecting the machine, ensure shackles and/or ties are secure.

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## Fall Hazards

Always erect a safety barrier to prevent access through underside of machine. Failure to do so could result in serious injury.



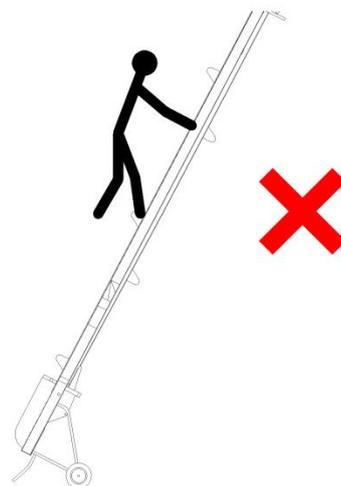
Do not lean over discharge head of machine whilst loading/ unloading.

Ensure loading guides are set central to load and machine frame.

Do not ride on machine.

Keep the loading platform/ scaffold free from debris.

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## Component Damage Hazards

When using a generator, ensure it is fitted with a voltage regulator before use.

Do not over load the machine **175lb MAX** belt load.

Do not over load individual carriers **44lb MAX** per carrier.

Do not use machine as a ground for welding.

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## Explosion and Fire Hazards

Do not operate the machine in hazardous locations or locations where potentially flammable or explosive gases or particles may be present.

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## Bodily Injury Hazard

Use common sense and planning when installing and operating the machine.

Keep hands and limbs away from moving belt.

Always wear correct PPE.

## Damaged Machine Hazards

Do not use a damaged or malfunctioning machine.

Conduct a thorough pre-operation inspection of the machine and test all functions before each work shift. Immediately tag and remove from service a damaged or malfunctioning machine.

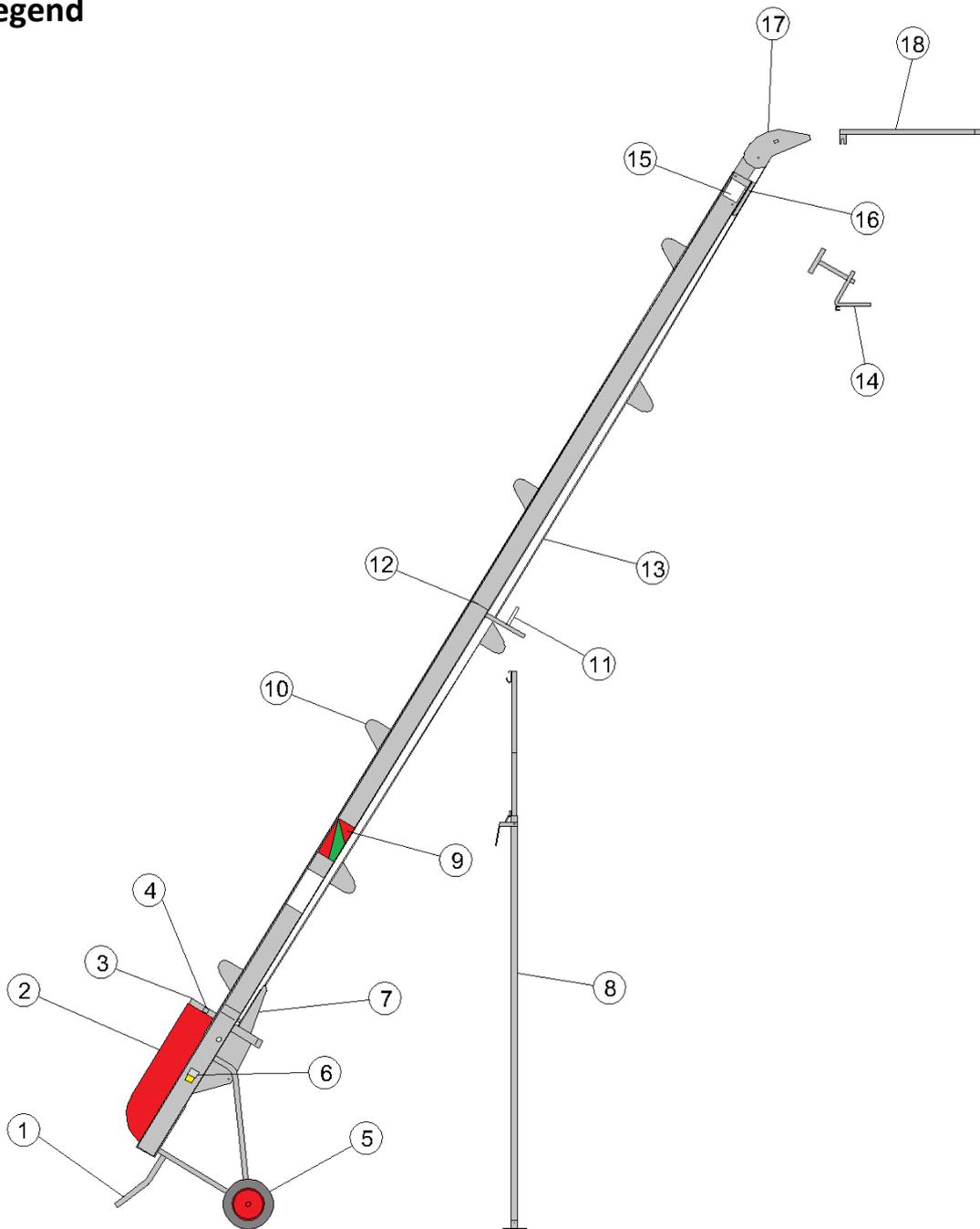
Be sure all maintenance has been performed as specified in this manual and the appropriate Mace Industries service manual.

Be sure all decals are in place and legible.

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## Legend



**1. Bogey**

**2. Controls**

**3. Stop gate**

**4. Loading guides**

**5. Wheel**

**6. Power socket**

**7. Bottom belt guide**

**8. Prop**

**9. Angle indicator**

**10. Belt carrier**

**11. Machine trestle**

**12. Hinge**

**13. Main Belt**

**14. Scaffold stand**

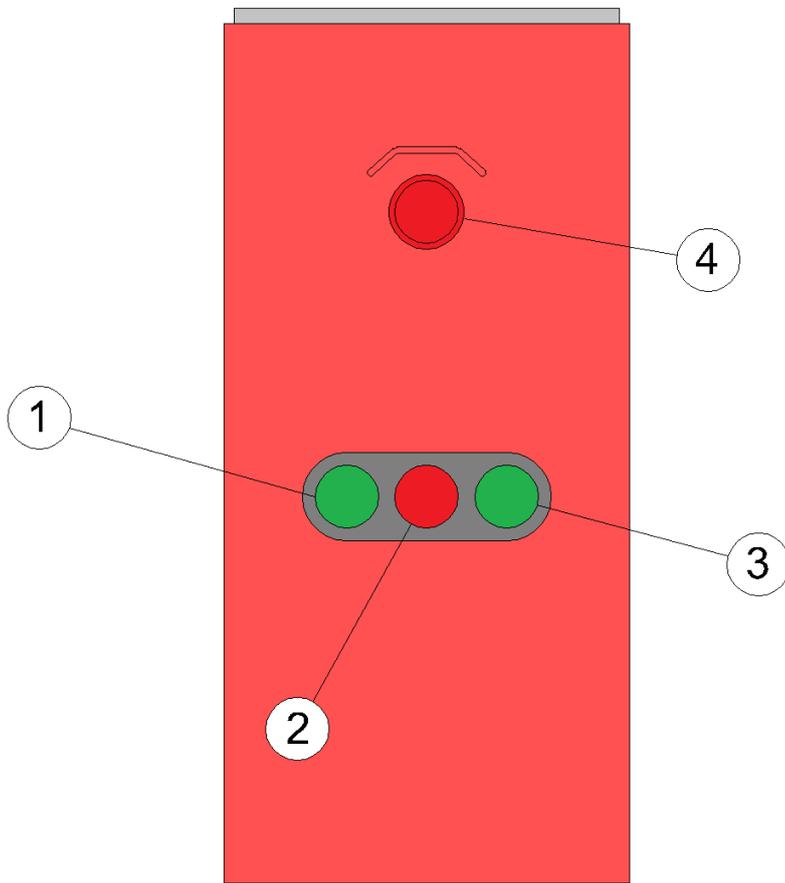
**15. Belt adjustment**

**16. Top belt guide**

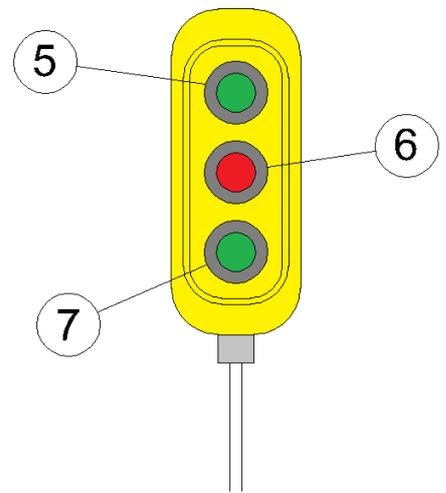
**17. Adjuster head**

**18. Chute**

## Controls



**Top Cover**



**Handset**

- 1. Reverse**
- 2. Stop**
- 3. Forward**
- 4. Emergency stop**

- 5. Forward**
- 6. Stop**
- 7. Reverse**

# 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 function tests prior to operation.**

**Know and understand the function tests 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 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.

# Workplace inspection



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## Do not operate unless:

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

## 4 Inspect the workplace.

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

- 5 Only use the machine as it was intended.

## 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 machine.

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## Workplace Inspection

Be aware of and avoid the following hazardous situations:

- Bumps, floor obstructions or debris
- Slopes
- 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
- The presence of unauthorized personnel
- Other possible unsafe conditions

# Operating instructions



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## 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 function tests prior to operation.
- 3 Always perform function tests prior to use.
- 4 Inspect the workplace.
- 5 Only use the machine as it was intended.**

## 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, safety and responsibilities manuals.

Using the machine for anything other than lifting bricks, blocks, tiles, lead and materials in an approved Mace bucket is unsafe and dangerous.

Only trained and authorized personnel should be permitted to operate a machine. If more than one operator is expected to use a machine at different times in the same work shift, they must all be qualified operators and are all expected to follow all safety rules and instructions in the operator's safety and responsibilities manuals. That means every new operator should perform a pre-operation inspection, function tests, and a workplace inspection before using the machine.

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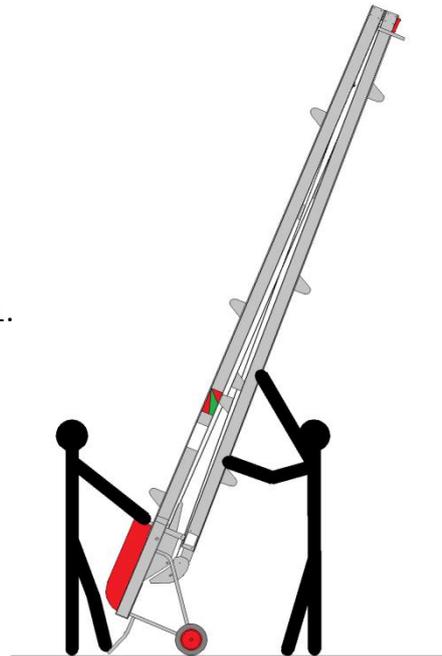
## Operating instructions:

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**1.** To prevent risk of injury or damage to the machine, first select a suitable level area to open machine. Always check for overhead obstructions i.e. branches, cables etc. prior to opening the machine.

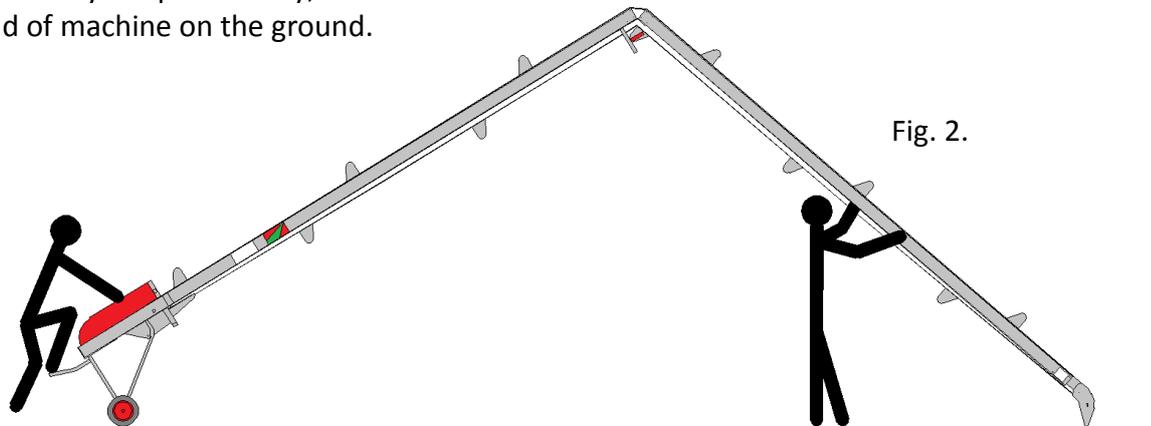
**2.** Lock wheel brakes on, then with man 1 standing on the hoop at the base of machine to counterbalance weight, (man 1 must remain in position to counterbalance machine throughout opening sequence). Man 2 raises the opposite end until machine bottoms on base hoop. (fig 1)

Fig. 1.



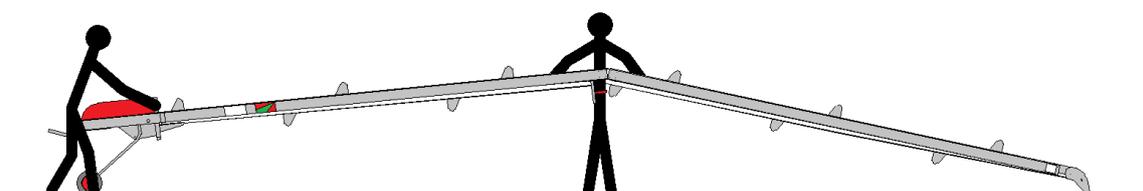
**3.** Release anti-luce catches and walk top boom approximately 5-6 paces away, then rest head of machine on the ground. (fig 2)

Fig. 2.

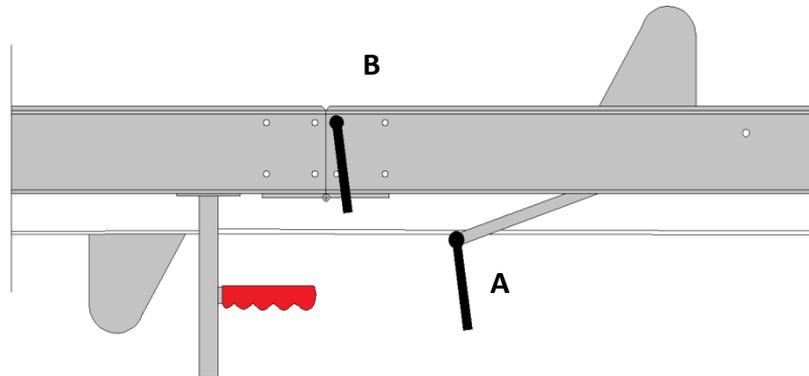


**4.** With man 2 supporting the machine at centre, (fig 3). Man 1 releases the brakes and walks the base backwards until the machine is fully open.

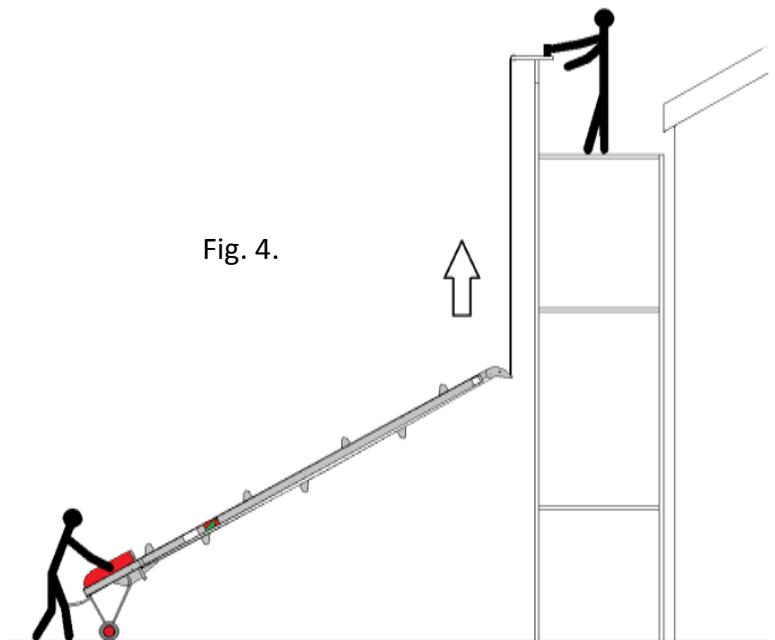
Fig. 3.



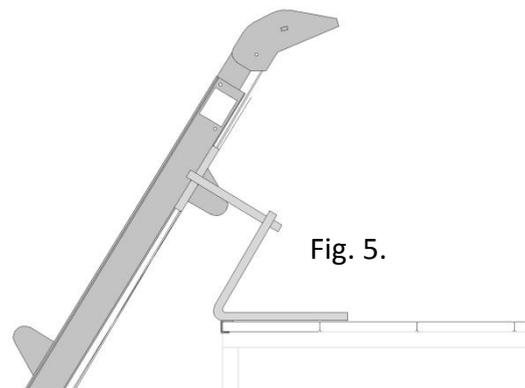
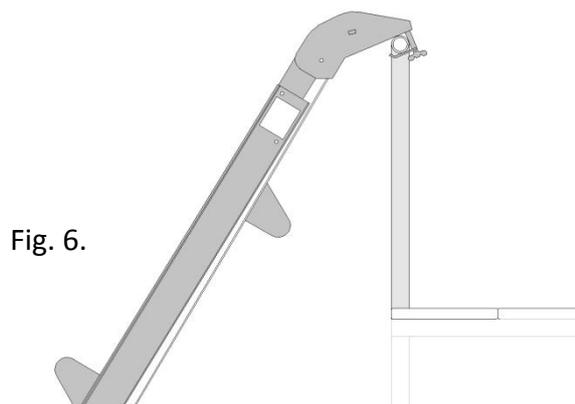
5. Detach clip and remove hinge pin from belt retaining device **A** then locate pin through the hinge **B** and replace clip.



6. The head of the machine is now ready to be raised on to the roof/ scaffold by block and tackle or rope. Ensure lifting device is secure and safe. The base is guided and positioned by man 1. (fig. 4)



7. Once the machine head is on the scaffold, the stand can be positioned and fixed either to the scaffold boards or roof. (Fig. 5.) Alternatively the head can be clamped to the handrail using the clamp provided. (Fig. 6.) Ensure returning belt carriers clear scaffold before starting machine.



8. With the machine secured on to the scaffold. The delivery chute is now fitted by slotting in to the head lugs. Then rotate and extend as required. (Fig. 7.)

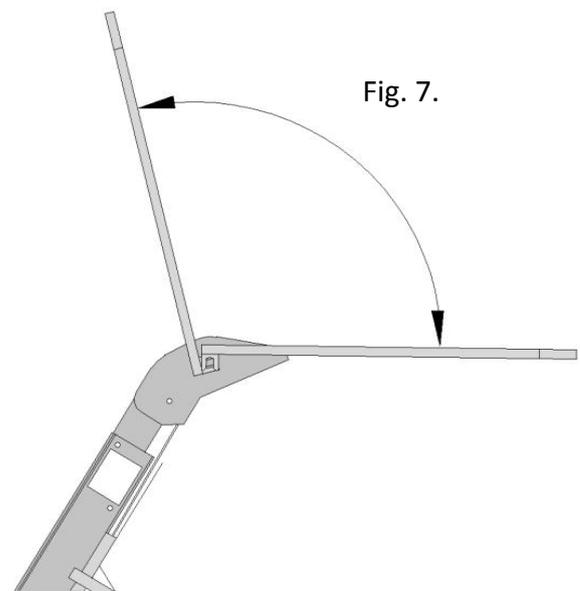


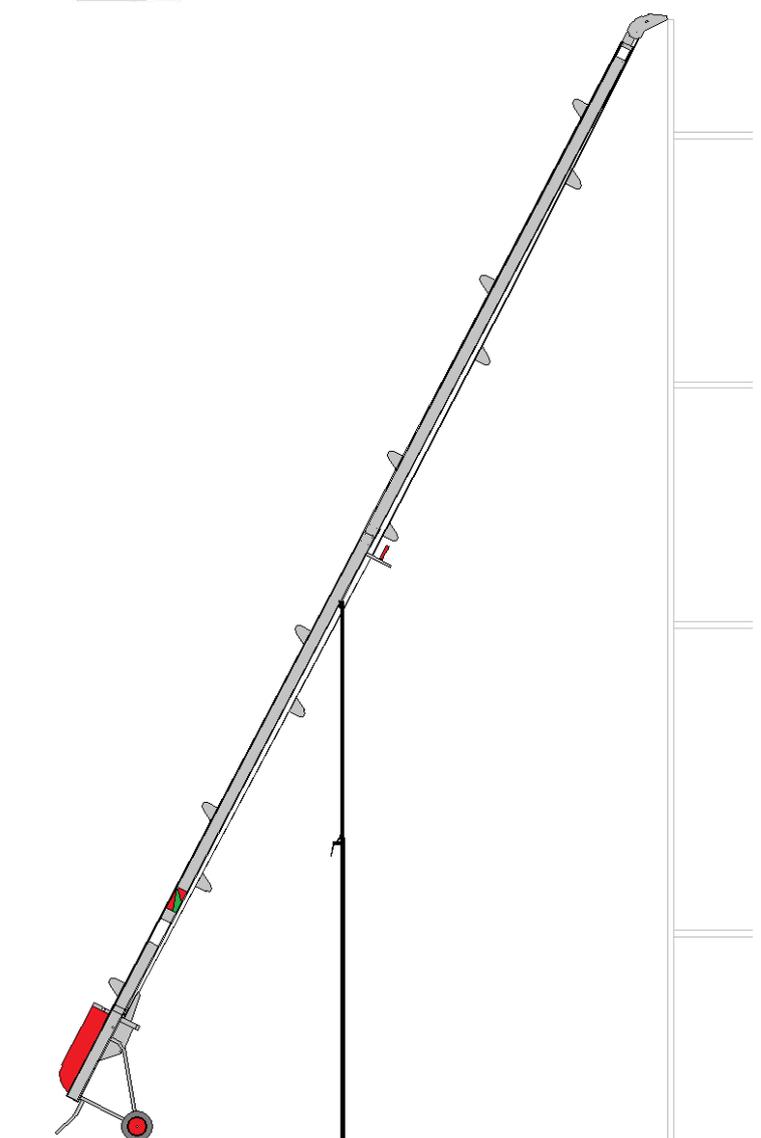
Fig. 7.

9. Fitting center prop. Hook center prop over prop rest on machine then push up adjust with lever until prop is vertical with machine straight. Prop is self-locking when extended, however lever must be lifted to retract.

**Never operate machine without prop in place as machine will be unstable. Periodically check prop positioning during operation.**

10. When machine is erect, place first load onto loading hoop. Centralise loading guides and tighten to minimise un-even loading.

11. Plug in handset at head of machine. Plug in power supply. Start pre-operation checks.



# Transport instructions



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## Observe and Obey:

Common sense and planning must be applied to control the movement of the machine when moving it with a forklift.

The transport vehicle must be parked on a level surface.

The machine's brakes must remain on whilst being transported.

## Securing to Truck or Trailer for Transit:

Always check the machine wheel brakes are on in preparation for transport.

Use the tie-down points on the boom for anchoring down to the transport surface.

Use chains or straps of ample load capacity.

Inspect the entire machine for loose or unsecured items.

## DO NOT OVER TIGHTEN STRAPS.

**Excessive tension of the straps will cause damage to the machine.**

