

RENMAR Box Lifter/Tipper Ver 1

The **Renmar** box lifter is designed to lift small to medium component boxes from floor level to a maximum height of 1400mm and tip the contents into a hopper or bowl feeder.

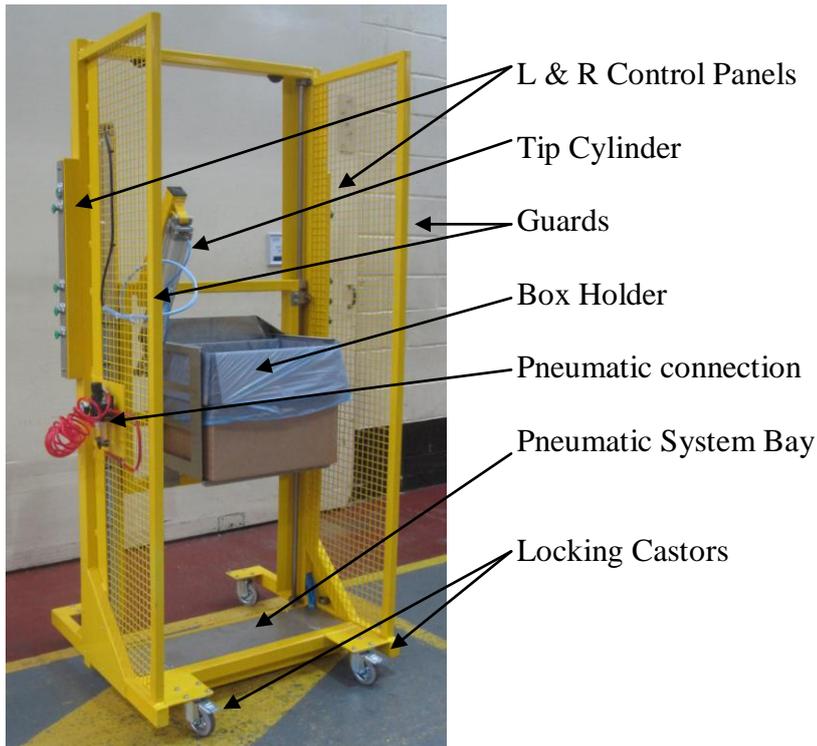


Fig 1: Renmar Pneumatic Box Lifter

Supplies and Controls:

The Box Lifter is a mobile unit mounted on lockable castors with anti-tip legs to allow it to be positioned under hopper supports and is powered by a single pneumatic supply of <7bar through a M8 spiral tube. The Box Lifter has a capacity of approximately 80l and a maximum lift load of 30Kg to a lift height of up to 1400mm. The box is retained during the tipping process by a pair of retaining rails .

Safety:

The Box Lifter is guarded by steel mesh guards with personnel operating the unit from a safe location at the side, but with a full view of the loading area. The ON button is separated from the function buttons by sufficient distance to require two handed operation, preventing the operator from interfering with the lift area whilst the box is in motion.

The box is securely retained by 2 side rails, whilst the extended legs and locking castors provide stability and prevent movement in use.

The variable loading height and “slide in – slide out” loading method minimises operator strain or fatigue when loading and removing boxes.



**Fig 2:
Control
Panel**

Function:

The controls are doubled, allowing the unit to be readily operated from either side and comprise a Side Selection button (ON), Run button and Lift Up, Lift Down and Tilt buttons. The Run button and the desired operation button must be operated simultaneously to permit the operation to begin. This ensures that the unit requires two hands to operate for safety reasons. All functions require the operator to hold both the operation and the interlock pushbuttons in for the duration of the operation. Releasing either will cause the operation to cease and the box to remain in the stopped position until both buttons are again pressed simultaneously.

Non Return valves prevent the box from returning to its down or untipped position if it is left raised or tipped. Disconnecting the air supply will not cause the box to return under gravity.

Operating Instructions

Positioning

Ensure the castors are unlocked.

Position the Box Lifter in the desired position to ensure the contents tip into the correct hopper.

When correctly positioned, lock the castors.

Connect the pneumatic supply to a suitable outlet and turn the air on.

Loading

Load a Box <30Kg into the appropriate sized box holder and slide into the box carriage .

Ensure the Box lid flaps are secured by the box holder and that the box is entirely contained within the Box carrier.

Select the operating side by pressing the appropriate ON button.

Raising

To raise the Box, ensure that the loading area and box carrier are clear of personnel and debris.

Simultaneously press and hold the RUN and LIFT UP buttons and the Box will start to rise.

When it reaches the desired height, release the buttons.

Lowering

To lower the Box, ensure that the loading area and box carrier are clear of personnel and debris.

Simultaneously press and hold the RUN and LIFT DOWN buttons and the box will start to lower. When it reaches the desired height, release the buttons.

To restart the lowering process, simultaneously press and hold the RUN and LIFT DOWN buttons.

Raising

To tip the Box, ensure that the discharge area and box carrier are clear of personnel and debris.

Simultaneously press and hold the RUN and TILT buttons and the Box will start to tip. When it reaches the desired angle, release the buttons.

To reverse the tip, follow the instructions for Lowering above.

Maintenance

Daily

Visually inspect the pneumatic hoses to ensure they are undamaged and that the connections are properly made and secure.

Examine the castors to ensure that the wheels are undamaged and the castors swivel and lock correctly. Visually examine the structure for damage.

Monthly

Inspect the unit to ensure that the structure, guards and box holders are intact and undamaged.

Functionally test the unit to ensure that there are no sticking points or incorrectly functioning controls.

Annually

Inspect the slides and tilt swivels and the pneumatic pipes and hoses for wear or damage. Repair or replace as appropriate.

Appendices:

1. Pneumatic Circuit and parts list.
2. Certificate of conformity.

Appendix 1 – Pneumatic System