

SAFETECH

Welcome to an introduction to one of Safetech's many materials handling products. This attachment provides a product overview and should assist you to make a more informed purchasing decision.

Below you will find:

- Detailed product information
- Technical Specifications
- Product pictures
- A link to the Safetech website for further information



SAFETECH PALLET INVERTERS

Safetech designed Pallet Inverters are robust and proven in a variety of environments.

By eliminating manual stacking of pallets customers benefit by reducing double handling and diminished injury risk to workers.

Safetech pallet inverters handle widely varying load dimensions and capacities up to 2000kgs.

Robust construction ensures a long work life and Safetech have manufactured inverters that have performed more than 1,000,000 rotations.

WHAT DO PALLET INVERTERS DO?

Pallet Inverters are used for the rotation of pallet loads where exchange of pallets or inversion of product is required.

Without a pallet inverter it is necessary to load and unload pallets by hand which is difficult, slow, and a source of potential worker injury. Pallet Inverters eliminate the need for manual handling and therefore eliminate the injury risk whilst increasing cycle times and productivity.



HOW DO PALLET INVERTERS WORK?

- Pallet inverters consist of a rotating box incorporating a clamping mechanism attached to a fixed base frame.
- The clamp is hydraulically actuated and the sensor bars prevent any product damage.
- Rotation occurs around the large precision bearing and is powered by a torque boosted electric drive motor.
- Inverter function is controlled the on-board PLC controller which provides consistent, trouble free operation.
- The operator (usually the forklift driver) needs to press only one button to initiate a full cycle.



APPLICATIONS

- Food manufacturers who wish to eliminate wooden pallets from the processing floor. The timber pallet can be swapped for an in-house plastic or steel pallet, which conforms to “clean room” standards.
- To reduce pallet hire costs by transferring from expensive hire pallets to in-house pallets.
- In automated storage and retrieval systems where pallets are routinely checked and defective pallet loads are flagged for exchange.
- When goods earmarked for export are sitting on rental or in-house pallets and must be transferred to another pallet (or slip-sheet) suitable for export.
- Pallet loads which need to be straightened and “squared up” on the pallet



OPTIONS

Inverter installations often include features or accessories such as

- Full height fencing to prevent personnel from inadvertently standing too close during operation.
- RF or IR Remote Control.
- Remote control to minimise the need for the forklift driver to leave his seat.



- Light curtain with interlock in addition to safety fencing.
- High speed operation.
- Forklift bump edge.
- Customisation of the opening clamp dimensions is available for larger or smaller pallet sizes.



SAFETY

Pallet inverters can operate automatically and operators and other workers in the vicinity need to be protected from any contact with the inverter as it rotates. Safety fences are essential and interlock electronic curtains add extra security to workplaces.

LIMITATIONS

- As pallet inverters are large they require dedicated floor space to allow rotation and the placement of the safety fences around the inverter.
- The pallet inversion cycle takes 25 - 40 seconds, depending on the product weight, so this must be taken into account in high volume applications.
- Pallet loads with irregular sides or tops may not invert well.
- Bagged product can be inverted but care must be taken to ensure that the sensors in the clamp see the load.
- Generally inverters operate smoothly. If the load is placed correctly, there should be no movement during the cycle so even delicate items can be inverted with confidence.



SPECIFICATIONS

INV2000

Capacity	2000kg
Access Dimensions	Width 1300mm Depth 1300mm
Maximum load height	1800mm
Minimum load height	700mm
Overall height	2800mm (3000 at rotation peak)
Rotation	180 degrees
Operation	Bi-directional clamp
Pallet Height Sensing	Automatic
Cycle time	25-35 seconds
Power	3 phase 415 volt
Controls	Full function pedestal c/w Man/Auto & Emerg. stop



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SAFETECH

PRODUCT RANGE

Safetech manufacture a wide range of materials handling and pallet wrapping equipment. If you would like more information about products in the following categories then please contact us.

LIFTING AND LEVELLING



OVERHEAD HANDLING SYSTEMS

COMPLETE STRETCH WRAPPING



PALLET HANDLING

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