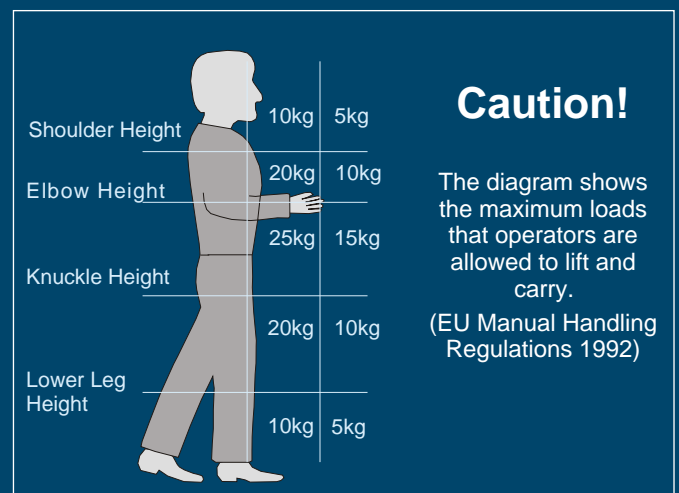




Drum & Keg Tippers

Tippers



Controlled and ergonomic tipping of drums and kegs

Pharmatech Drum Tippers

Pharmatech supply a range of Tippers that are designed to minimise the amount of manual handling that is required when working with drums and kegs. Pharmatech Tippers incorporate the following features:

- Designs available to suit all sizes and styles of drums and kegs (inc. metal, plastic and fibre-board)
- Capacities up to 250kg
- Stainless steel casing
- Robust construction
- GMP correct enclosed design reduces cleaning time
- Quiet in operation
- Low maintenance
- Ex rated models available
- Machines customised to meet user's requirements
- CE Marked
- Local or remote controls
- Axis of rotation up to 1.5m from floor level
- Lifting cradle bases to allow drums of different heights to be used in the same cradle
- Through-wall installations for clean applications

180° Tippers

This style of machine rotates the container through 180° from the vertical. The container is able to be emptied under gravity into a receiving machine or hopper. During emptying the container is completely inverted. It therefore needs to either be fitted with a cone and valve or else the discharge chute on the tipper needs a cone and valve.

Typical applications for 180° Tippers include:

- ✓ Loading reactors
- ✓ Discharging into Through-Floor-Feeders
- ✓ Discharging into Vacuum Transfer or Spiral Conveyor hoppers

For further applications contact Pharmatech for a copy of our design datasheets

Dust Containment

Dust Cap seals - for general dust containment
Split Butterfly Valves - for high containment systems

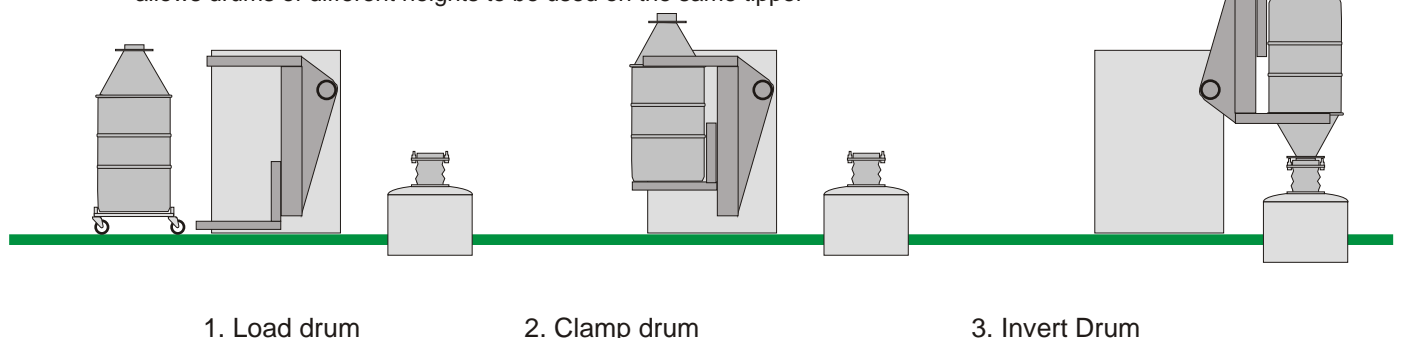
For further information about Pharmatech Dust Cap Seals and their use see our brochure **Dust Free Transfer**.



Drum Washer (180° Tipper) -
The machine shown is used to invert containers over a washing lance, which then sprays the inside

180° Drum Tipper loading a reactor -

NB. this style of tipper clamps the drum from underneath - this allows drums of different heights to be used on the same tipper





135° Tippers

This style of machine rotates the container through 135° from the vertical. The container is emptied under gravity into a receiving machine or hopper. Ideal for loading hoppers, coating machines, inspection tables etc.

- Cradles with a full cone and flow control valve
- Adjustable drum restraint systems



Drum Tipper - with an open chute & no valve



Mobile Tipper with cone chute - no valve



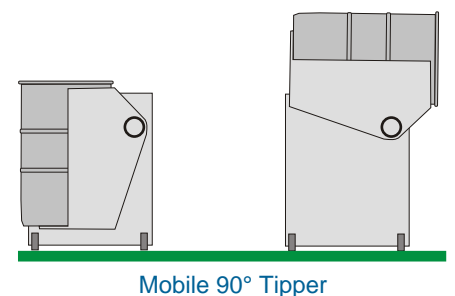
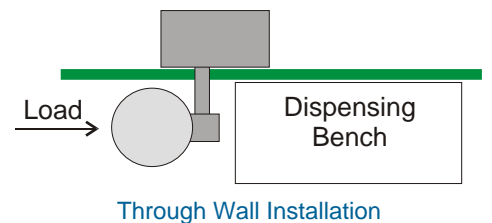
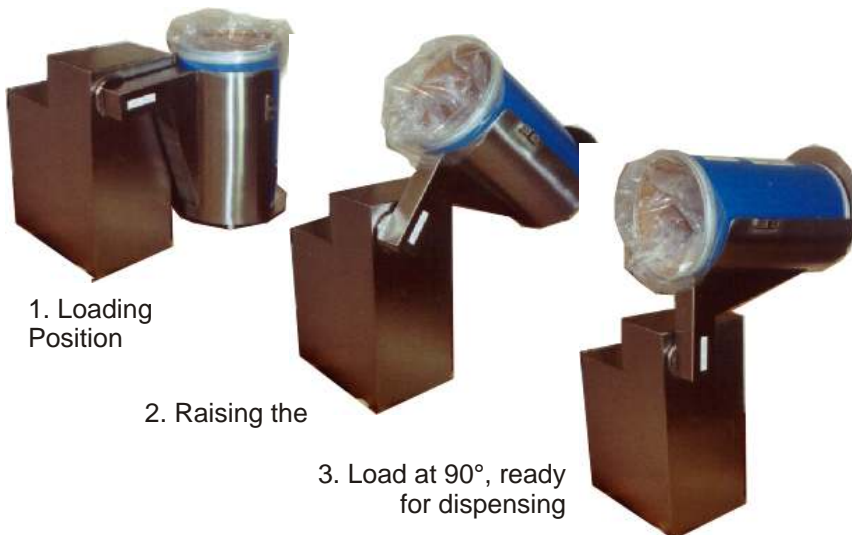
Mobile Tipper with cone chute & a chute extension

Customised Design

All Pharmatech Tippers are individually designed and constructed to meet your exact requirements. Each Tipper is designed to fit in with the existing transport containers and processing equipment. Datasheets are available showing the principal design options. CAD drawings are also available for planning-in. Contact Pharmatech for details.

90° Tippers

This style of machine rotates the container through 90° from the vertical. They are ideal for presenting drums and kegs at the correct height for manual emptying eg. at a weighing bench



Case Study - Special 180° Tipper

The Tipper shown below was supplied, by Pharmatech, as part of a complete processing station. The product is supplied in a fibre keg with a polythene liner. The requirement was to mill the product whilst keeping dust creation to a minimum. The milled product is weighed into stainless steel drums which are then removed to the next processing stage.



Fibre Keg pick up



Fibre Keg discharging through the mill into a stainless steel drum

- Built in Cone Mill
- Tipper loaded from a roller conveyor
- Large inversion hopper - prevents polythene liner from entering mill
- Fibre keg clamps to hopper
- Dust Cap Seals used for dust tight connections
- Pre-conditioning breaks down the largest lump prior to milling



Discharge and weighing station

Tipper Datasheets



Tipper Design Datasheets have been prepared, by Pharmatech, to provide more detailed information about:

- Methods of loading tippers
- Methods of clamping drums etc.
- Mobile tippers
- Ex rated tippers
- Methods of discharging from tippers
- Special Systems

Contact Pharmatech for further information about tippers or for copies of the data sheets.

Tippers can be easily customised to meet your exact requirements.

Special tippers for loads larger than 250kg and for other shapes of containers

Pharmatech Hoists



For applications where a Tipper may not be the best solution Pharmatech supply a range of hoists - ask for details.

- Loads up to 4 Tonnes
- Columns up to 17m in height
- Able to handle loads of any shape
- Each machine designed to meet customer requirements
- Hydraulic or electro-mechanical operation
- Validation documentation

