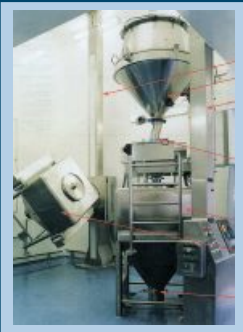




Pharmatech
Innovation in Pharmaceutical Engineering

Integrated System Solutions

Range Brochure



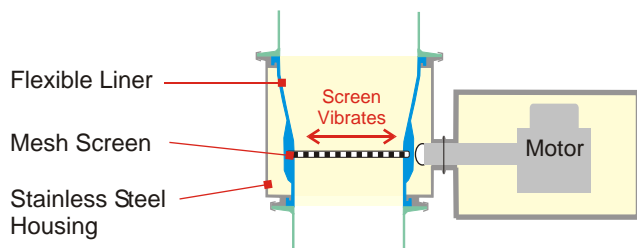
Innovative Processing &
Handling Solutions.

Pharmatech FlexiSieve™

Dust Free In-line Sieving

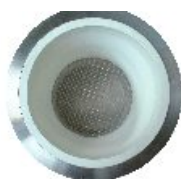
- Compact design
- Clamped directly to charging ports etc.
- High through-put
- Ideal for safety screening
- Two models available

How it works



The concept behind the FlexiSieve is to vibrate a mesh screen that is housed in a flexible silicone liner.

The silicone liner is clamped in place and so the sieve is completely dust tight during operation.



Standard FlexiSieve



The Pharmatech FlexiSieve™ is different to other type of sieving machines. With the FlexiSieve the mesh screen is supported by a flexible silicone liner. Only the mesh screen and liner are vibrated by the motor.

The device is designed to be clamped *in-line* and is designed to be *dust-free* during operation. The FlexiSieve only requires a small motor and so is quiet during operation.

The silicone liner and mesh (the product contact parts) are designed to be quickly and easily changed between batches.

Flexisieve-QR

The Quick Release FlexiSieve allows the sieve head to be quickly disconnected from the drive unit.



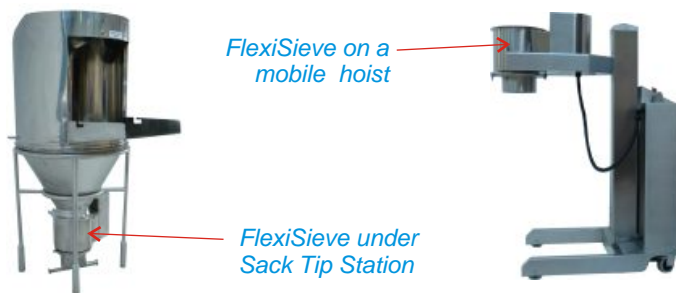
Contaminated parts can be easily bagged and removed for cleaning and **sterilising**

Standard FlexiSieve



The sieving head and drive unit are a single unit.

Typical Applications



Notice
Pharmatech Flexicone and Pharmatech Flexisieve are trade marks belonging to Pharmatech Ltd. Patent application number 2302535A.



Drums & Drum Systems

- Specially designed as processing containers
- All stainless steel construction (usually 316ss)
- FDA acceptable gasket/seal polymers
- Crevice Free Interiors
- Available in any volume (1 to 500 litres)
- Range of finishes (240 grit, bright polish, 2B, bead blasted and pickled & passivated)
- Material Certificates

Drums and Discharge Cones



Drum Blending Systems



200 litre drum on a Pharmatech Drum Blender



500 litre drum with a special 250 litre blending cone on a Pharmatech Drum Blender

Drum Features

Pharmatech drums are high quality containers that have been specifically designed so that they can be easily cleaned and reused.

Our Processing Grade Drums include many features that make them ideally suited for the demands of a modern GMP environment.

Drum Washing

Pharmatech Drum Washing Systems are individually designed and constructed to meet the exact requirements of the customer.

- Internal wash systems
- Internal & external wash systems
- Drum wash and dry systems



Drum Hoists



Drum Hoists allow drums to be safely and accurately lifted and positioned.

Inverting the drum allows processing machines to be fed by gravity.

Drum Transport

Special Pallets for Air Transport - allow drums to travel in depressurised cargo holds on aircraft. Drums are hermetically sealed.



IBCs & IBC Systems

- Available in any size from 1 to 3000 litres
- 316 stainless steel construction (for product contact parts)
- Seals and gaskets available in FDA acceptable polymers
- GMP correct construction
- Quick release hygienic valves used for product discharge



15 litre and 10 litre IBCs
- ideal for laboratory scale work



1000 litre IBCs

IBC Blenders

Pharmatech manufacture blenders to suit all sizes of IBC. The great advantage of an IBC blender is that the IBC can be filled and emptied away from the blender.



600 litre IBC on a Multiblend
MB1200A IBC Blender



MB005 Laboratory
Scale Blender with
a 1 litre IBC



1500 litre IBC
being blended on a
Pharmatech Hoist
Blender

Washing System

Pharmatech IBC Washing Systems are individually designed and constructed to meet the exact requirements of the customer.

- Internal wash systems
- Internal & external wash systems
- IBC wash and dry systems

See page 9 for further information about washing Stations



Pharmatech IBC
Wash Station

IBC Hoists

Pharmatech hoists can be used to lift and position the IBC.



Typical hoist applications are:

- Move IBCs between floors of the factory
- Hold an IBC above a processing machine

Through Floor Feeder



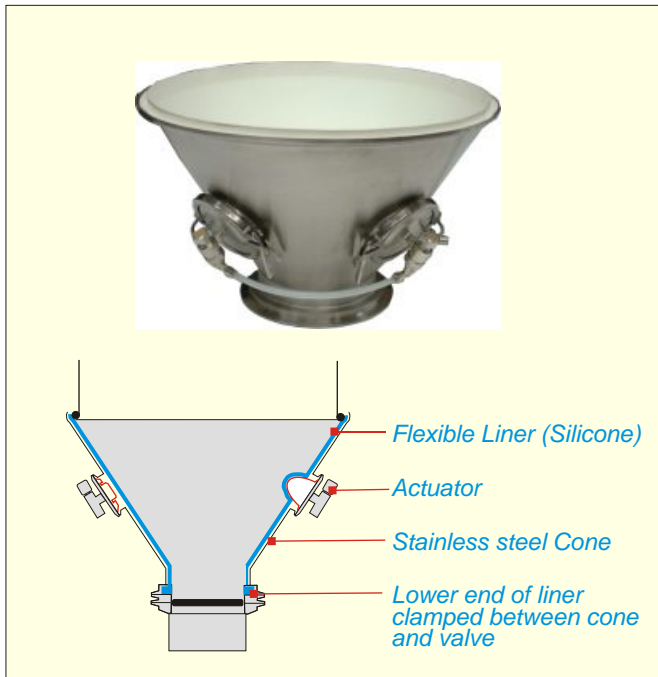
Through Floor Feeders are ideal for conveying the contents of an IBC to a processing machine on the floor below.



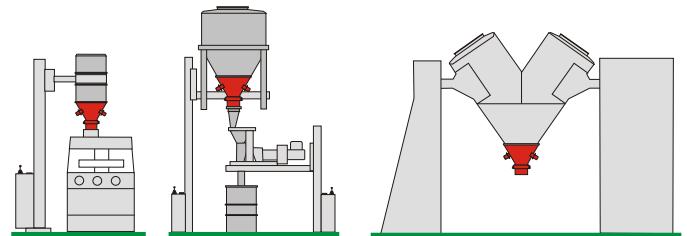
Pharmatech FlexiCone™

GMP correct device for breaking powder bridges

- High performance - ensure complete product discharge
- GMP correct design
- Total containment of product
- No moving parts within the product
- Liner made from FDA acceptable silicone rubber
- Quick to dis-assemble for easy cleaning
- Allows operators to be sure that containers have been completely discharged



*Pharmatech FlexiCone™
fitted to a special
Pharmatech IBC*



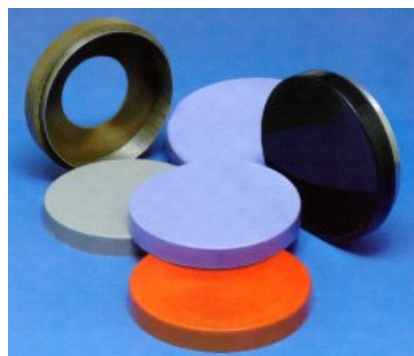
Pharmatech FlexiCone™ applications

Notice

Pharmatech FlexiCone and Pharmatech Flexisieve are trade marks belonging to Pharmatech Ltd. Patent application number 2302535A.

Dust Free Transfer

- Simple and effective dust and fume tight transfer systems
- FDA acceptable construction materials
- Increase productivity
- Protect Operator health
- Simple and quick to install
- Low set up cost
- Next day delivery on many items



Dust Cap Seals



*Drum loading system using
Dust Cap Seals*



*Dust Cap Seals being used to
provide Dust free milling and
charging of an IBC*

A complete range of Blenders

- Blenders to suit containers from 1 litre up to 6500 litres
- Suitable for laboratory or production use
- Special machines with Agitators, Jackets, Vacuum and Liquid addition available
- Blending containers of any shape
- Blending containers either fixed to the drive unit or removable
- Bench top models
- Free standing models
- Hoist mounted models
- Through-wall installations
- GMP Correct Design
- Validation Documentation



MB005 with 3 litre V Shell



MB030 with a 15 litre IBC



MB100 with built in guards



MB1200A with 500 litre drum and 250 litre Top Hat

Hoists & Tippers for all applications

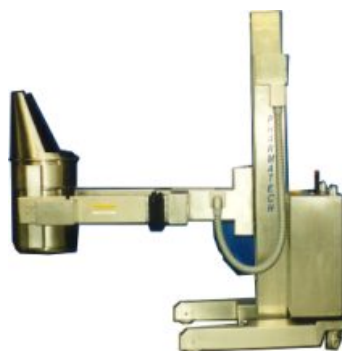
- Loads up to 6 Tonnes
- Columns up to 17m in height
- Able to handle loads of any shape
- Each machine designed to meet customer requirements
- Hydraulic or electro-mechanical operation
- Validation documentation



Mobile 135° Tipper fitted with a discharge chute



Mobile 90° Tipper



Mobile hoist with powered clamping, inversion and slewing of the column



Fork lift Hoist with powered slewing



A complete range of Blenders



Self-sterilising Double Cone Blender. Designed to be installed through wall.



Hoist Blender with 1500 litre IBC



1500 litre V shell blender with operator gantry-loads by vacuum from Pharmatech IBCs

Hoists & Tipplers for all applications



Drum Hoist with powered clamping and inversion



Drum Hoist - to lift and invert drums of different sizes. Powered clamping and inversion



Fork Lift IBC Hoist with IBC weighing system



Fluid Bed Dryer Bowl Inverter with Mill. NB. unit connects to FBD bowl, lifts inverts and then mills the product

Diosna Range



- Latest technology from the acknowledged market leader
- **Mixer Granulators** - all sizes available laboratory (1-60 litres) to large scale production (up to 1250 litres)
- **Fluid Bed Driers** - all sizes available laboratory to large scale production
- **Tablet Coater** - revolutionary new tablet coater - fast and efficient and yet very gentle
- Fully installed systems



Mixer Granulators

Diosna were the originators of the Mixer Granulator and they have been developing and improving their designs ever since. Whatever your batch size there is a machine to suit.



Laboratory Scale Mixer Granulator - bench top model



Production Scale Mixer Granulator

Fluid Bed Driers

Diosna Fluid Bed Driers make use of a special tangential airflow system which improves the efficiency of machine compared to a standard Fluid Bed Drier.

- High Efficiency
- Available in a range of sizes



Installation showing a Diosna Mixer Granulator discharging in to a Diosna Fluid Bed Drier



CA-T 300 Fluid Bed Drier

Tablet Coaters

New

The Vertical Centrifugal Coater (VCC) is a new type of tablet coater.

- **Very gentle** action - ideal for friable tablet cores
- **Fast and efficient** - up to twice as fast as conventional tablet coater
- **Compact** - more compact than an equivalent drum coater
- **Very High Quality Tablet Coat** - contact us for a demonstration.



Diosna VCC Tablet Coater



The Coating System of the Future



Bench Top Fluid Bed Drier

Pharmatech are the representatives for Diosna Dierks & Söhne GmbH in the UK and Ireland



Cream Making Machines

Brogtec are world leaders in the manufacture of high quality cream making machines for the pharmaceutical and cosmetic industries.

- Extensive range of mixers and homogenisers
- All stainless steel construction
- WIP & CIP systems
- Fully installed systems
- GMP correct design & construction



SDM1000 Cream Making Machine



MH2000 Cream Making Machine

NB. Pharmatech are the representatives for Brogtec Mischtechnik GmbH in the UK and Ireland

Washing Systems

- The most advanced washing systems available on the market
- Suitable for GMP applications
- Custom built according to the application requirements
- Validatable washing cycles



Mobile Washing Station



Internal IBC Washer



IBC Wash Booth

NB. Pharmatech are the representatives for AVS Technic GmbH in the UK and Ireland



Samplers

Specialist Sampling Equipment and Accessories

- Samplers from **Sampling Systems Ltd** (a member of the **Pharmatech** group of companies)
- Solid Sampling - models for sampling free-flowing powders, cohesive powders, granules
- Liquid Sampling - models for sampling low medium and high viscosity products
- Designed for use in GMP areas
- Unit Dose Samplers
- Manual and automatic samplers
- Custom Samplers - special design service available
- Full range of accessories - bottles, bags, adhesive labels etc.
- Next day delivery on many standard items



Sampling from a Pharmatech Blender



In-line Powder Sampler



Liquid Pump Sampler



Sampling taken from a 200 litre Pharmatech drum

Installation, Servicing & Maintenance

- Planned maintenance programs individually tailored to your equipment
- Qualified personnel
- Comprehensive documentation packages to cGMP, FDA or internal company standards
- Work carried out by fully trained Pharmatech staff and not agency staff
- Equipment and installations to the latest ATEX directives
- Dye penetrant testing on stress welds



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Blenders



Hoists



Dust Free Transfer



Drum & Keg Tippers



**Processing
Grade Drums &
IBCs**



**Powder Handling
Aids**



**Sampling
Equipment**



Dispensing Ware

Local Distributor

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