



Material Handling (Hoists, Blenders, IBCs and Drums)

Stainless steel material handling solutions for safe and repeatable operation; designed for sanitary applications in the pharmaceutical, food and related industries.



Hoists

Technical Overview

Hanningfield Uni-Hoist lift systems are designed for the handling of containers such as Intermediate Bulk Containers (IBCs), drums, containers and bins. The lift column can also be used to manoeuvre process machinery such as vacuum conveyors, mills, lump-breakers etc.

With hundreds of installations worldwide, Hanningfield's stainless steel lift columns are engineered for safe and repeatable operation in hygienic environments. The hoist lift systems utilise either a lead-screw or chain lifting mechanism, with fail-safe features to prevent the load slipping in case of malfunction.

Hoists can be powered by electric, pneumatic or manual hand-operation. Meanwhile, the hoists can also be stationary (mounted to floor, wall, floor-to-ceiling etc.) or mobile on a trolley with castors.

The Uni-Hoist can be modified to accommodate any load type (lifting forks, clamp arm, squeeze cone, platform, hook etc.). As standard, hoists are manufactured from 304 stainless steel (150 grit) and are designed for use in hygienic GMP environments, with smooth surfaces and all aesthetic welds polished. All lift systems can be supplied with full validation documentation (FS/DS, FAT, SAT, IQ/OQ) and 3.1 mill certificates to EN10204 if required.

Features:

- Stainless steel construction for use in sanitary applications
- Various power options to suit site environment (manual, electric, pneumatic)
- ATEX (ex-proof) versions available

Benefits:

- Engineered for safe and repeatable operation in hygienic environments
- Eliminate operator strain
- 'Raise, Lower, Rotate, Invert, Dock' at the push of a button
- Versatile designs for handling drums, IBCs, machines - almost anything can be lifted

Product Images



Data Table

Criteria	HES	HEM	HMS	HMM	HPS	HPM
Light Duty (SWL ≤ 250kgs)	✓	✓	✓	✓	✓	✓
Medium Duty (SWL ≤ 750kgs)	✓	✗	✗	✗	✗	✗
Heavy Duty (SWL ≤ 2000kgs)	✓	✗	✗	✗	✗	✗
Raise and Lower (of Load)	✓	✓	✓	✓	✓	✓
Inversion (of Load)	✓	✓	✓	✓	✓	✓
Rotation (of Base)	✓	✓	✓	✗	✓	✗
Power Supply	Electric (3-phase)		None / Manual		Compressed Air	
Material of Construction	AISI 304 stainless steel (1.4301)					
Country of Design	United Kingdom					
Country of Manufacture	United Kingdom					

Typical Applications



Lift, Slew and Dock IBC above Tablet Press



Drum Lift and Invert



Raise and Lower of Mixer



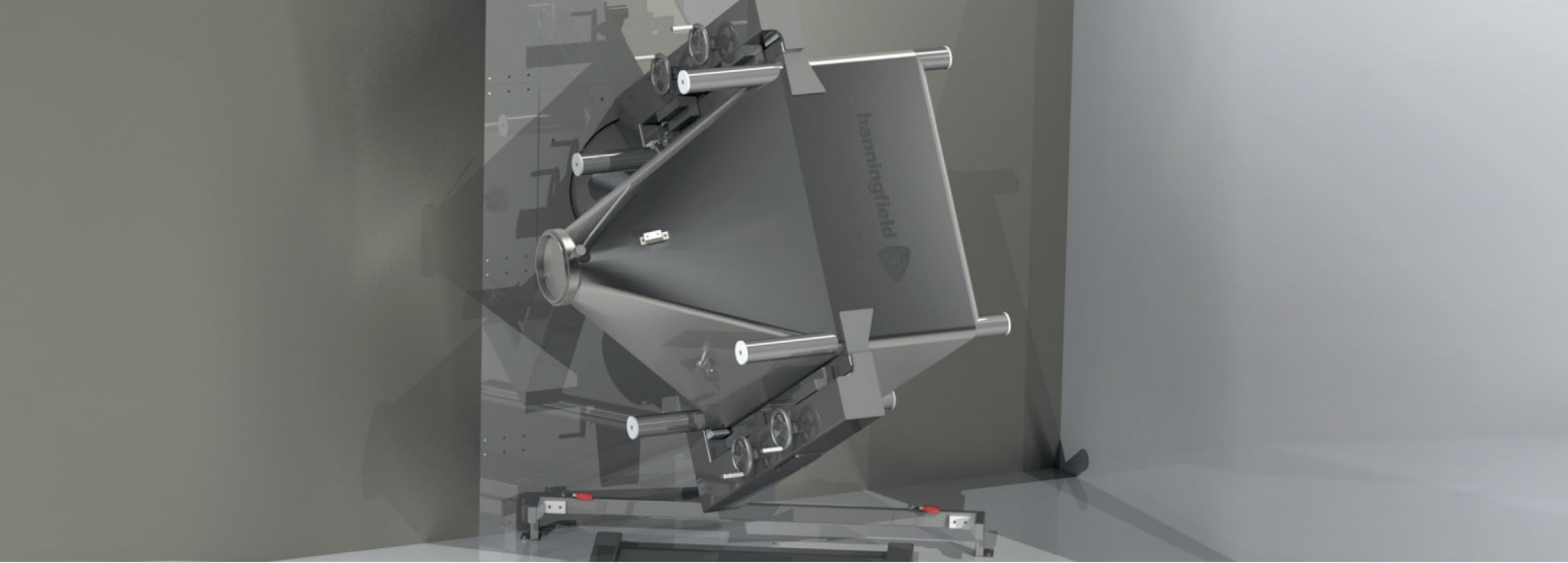
Mobile Vessel Lifter



Drum Tipper for Isolator Docking



Duplex Hoist for Fast IBC Changeover



Blenders

Technical Overview

The Hanningfield Uni-Blend Bin Blenders are designed for the gentle tumbling of IBCs and drums, helping to create uniform batches. The blender is available in various sizes, meaning we have a solution for every batch size, from small volumes (5L) up to large production runs (2000L).

The bin blenders are manufactured in stainless steel and designed to conform to the GMP requirements of the pharmaceutical, food and allied industries. They are available in various executions including hoist-type, through-the-wall, fixed base and mobile.

All equipment can be supplied with full validation documentation (FS/DS, FAT, SAT, IQ/OQ) and 3.1 mill certificates to EN10204 if required.

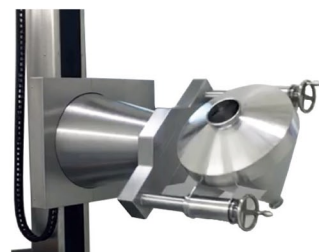
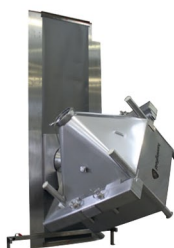
Features:

- Stainless steel construction for use in sanitary applications
- Suitable for various container sizes, up to 2000 litres
- Can be supplied as pedestal (stand-alone), through-the-wall or post hoist mounted

Benefits:

- Maximise productivity with 'Blend-in-the-Bin', enabling immediate batch switchover without washdown
- Charging and discharging can be undertaken offline, minimising downtime
- For full compliance, controls can be supplied to meet 21 CFR Part 11

Product Images

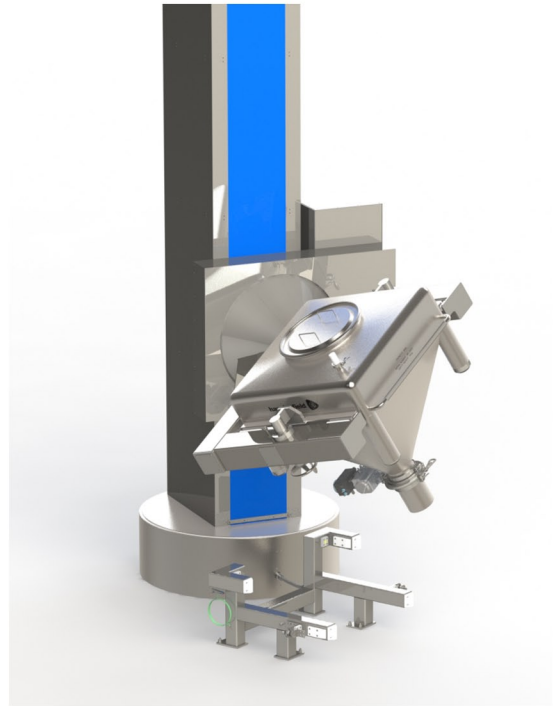


IBC Blending

Blending in an IBC offers many advantages over traditional blending methods (e.g. V-blender, double cone blender).

Since the blending occurs inside the container itself, 'blending in the bin' can significantly reduce downtime, by enabling fast changeover between batches. Since cleaning of the blender itself is no longer required (clean in the bin rather than the blender), it removes blending as the process bottleneck. This is especially useful for changeover between critical products.

IBC blending also allows various batch sizes to be performed on a single blender since you can switch from a small IBC to a large IBC, all while using the same mechanical blending device.



R&D Blenders

Perform multiple blending functions on a single drive unit, available in lab (up to 5L capacity) and pilot (5 – 50L capacity):

- IBC
- V-Shell
- Double Cone
- Drum

R&D blenders provide a space and cost-effective solution for lab and pilot applications (up to 50L capacity).

Interchange vessels via Tri-Clamp in <1 minute. Available with vessel loading trolley for easy and ergonomic operator handling.

Simply unclamp the V-shell vessel, and place an IBC, double cone or drum on the drive unit instead.



IBCs

Technical Overview

Hanningfield is able to supply stainless steel Intermediate Bulk Containers (IBCs) for use in the pharmaceutical, food and allied industries. The containers are designed for the safe and contained transport, storage and handling of material. Typically, the IBCs are supplied with capacity of 150 litres – 2000 litres but can be custom made to suit any process requirement.

For the gentle handling of tablets, Hanningfield offer a specifically designed Tablet IBC. The design uses a shallow body angle and a flexible-vane outlet valve to minimise risk of tablet breakage and damage. The IBC can be supplied with an outlet chute for transferring the tablets into a coater.

The IBCs can be executed in various designs, including castors for mobility, corner stacking profile and lifting loops for handling via forklift or post hoist.

Features:

- Stainless steel construction with 316L contact parts and FDA compliant seals
- Various capacities and shapes available
- Custom design available (or ability to replicate existing design)

Benefits:

- Safe and contained method for storing and transporting powder
- Highly flexible, with various methods for dust-tight charging and discharging

Product Images





Stainless Steel Drums

Technical Overview

Hanningfield supplies a wide range of stainless steel drums for the contained, convenient and reusable storage of high-value powders. Drums are available in various capacities from 5 litres up to 200 litres (larger sizes available on request).

The drums are designed for hygienic applications with a smooth, crevice-free construction. All drums are made from stainless steel, with a FDA compliant lid seal. To minimise storage footprint, the drums are suitable for stacking.

Features:

- Hygienic design and construction
- 5L to 200L sizes (larger sizes available on request)
- Easy clean design
- Quick release clamp-band
- 180 grit satin polished finish
- Light and durable construction
- Supplied with side handles
- Crevice-free interior
- Optional: add etching detail to your requirements

Product Images





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