FulFiller – MFF Container Loading System

Application
The FulFiller container loading system is used to load bulk granular materials into standard ISO containers. The MFF, Mobile Forklift Frame version is used where customers require maximum flexibility in operation as the unit is designed to be moved by forklift. This allows the FulFiller to be hung on the rear of the container to be loaded before the container is moved under the loading silo or hopper.

The use of ISO containers for shipping bulk products is wide spread. Typical industries are Polyolefin plants, Sugar refiners / shippers, the Grain and Soya industries and Chemical plants.

Construction
The FulFiller MFF comprises three main parts:
- The belt thrower assembly comprising: drive, main pulleys and idlers, throwing belt, inlet hopper and material baffle, outlet section and liner inflation fan.
- Materials contact parts are supplied in stainless steel or food grade rubber, other parts are painted carbon steel.
- The control system comprising main panel containing all necessary power and a control circuits, plus a Siemens PLC 3 phase power socket for ancillary equipment.
- A fitted 10 mcable and plug allows power connection to a local 3 phase supply.
- A heavy duty carbon steel painted frame complete with access platform and railing is supplied to match your required height safely.

Operating Principle
The FulFiller uses a throwing belt which is supported on two rollers and rotates at high speed. The material being loaded falls onto the belt, is accelerated through 90 degrees and thrown from the loader into the container.

The throwing action does not damage the material and is therefore ideal for all pellets and granules.

- High-speed bulk loading system for ISO Containers
- Maximum flexibility in operation for new and existing outload facilities
- Simple operation, low power consumption, easy maintenance
- Maximises container loads and minimises loading time
**Dimensions (mm)**

For containers using liners, the design should utilise these dimensions:

**Container Liner Information**

For containers using liners, the design should utilise these dimensions:
Technical Data

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Maximum loading rate</td>
<td>240 m³/hr dependant on material and physical arrangement</td>
</tr>
<tr>
<td>Main drive motor</td>
<td>11 kW</td>
</tr>
<tr>
<td>Control</td>
<td>Siemens PLC</td>
</tr>
<tr>
<td>Operating conditions</td>
<td>0° – 45°C ambient</td>
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<tr>
<td>Weight</td>
<td>1140 kg</td>
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<tr>
<td>Utility requirements</td>
<td>3 phase 380 – 460V 50/60 Hz supply. Unit supplied with cable and plug.</td>
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Product Suitability

Most granular or pellet products can be loaded using the FulFiller depending on particle size and material density. Particles should ideally be homogeneous and in the range of 1 – 25mm. Bulk density of the material should lie within the range 400 – 1200 kg/m³. Very dusty materials will not be loaded satisfactorily.

Typical materials are Plastic Pellets, Refined Sugar, Grains, Soya Beans, Animal Meal (pellets), Wood Chips / Pellets, Rice, Clay Pellets.

Special Requirements

For special applications, the FulFiller can be adapted. Please contact us to discuss applications where the standard product may not be suitable.
Enquiry / Order Data

In order to process your order please provide the following information:

- Material details including bulk density, particle size, moisture content and operating temperature
- Details of feed arrangement
- Required loading rate (lorry turnaround time)
- Sizes of container to be loaded
- Any special environmental factors