**FulFiller – DMF Container Loading System**

**Application**

The FulFiller container loading system is used to load bulk granular materials into standard ISO containers. The DMF, Dedicated Mobile Frame version is designed for flexible loading operations. The Fulfiller is positioned under the required silo before the container trailer is reversed into position, connections are made and the loading commences.

For variable container / trailer heights, an optional lift can be supplied to adjust the thrower height. Mis-alignment of the Container and FulFiller can be prevented by use of an optional turntable.

The use of ISO containers for shipping bulk materials is widespread – typical industries are Polyolefinplants, Sugar Refiners / Shippers, the Grain and Soya Industries and Chemical Plants.

**Construction**

The FulFiller DMF 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. Material 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 control circuits, plus a Siemens PLC a 3 phase power socket for ancillary equipment. A 10 m cable and plug allows power connection to a local 3 phase supply. A heavy duty carbon steel painted frame complete with access platform, railing and wheeled chassis supplied to match your required height and location safety.

**Operating Principle**

The FulFiller uses a throwing belt that is supported on two rollers and rotates at high speed. The material being loaded falls onto the belt, is accelerated through 90° 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.
- Mobile wheeled frame for flexibility in operation.
- 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

* These dimensions can change to suit customer’s requirements
## Technical Data

<table>
<thead>
<tr>
<th>Field</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum loading rate</td>
<td>240 m³/hr dependent 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>
</tr>
<tr>
<td>Weight</td>
<td>1140 kg</td>
</tr>
<tr>
<td>Optional Item – Hydraulic Lift</td>
<td>Hydraulic lift table to allow adjustment of the thrower height to suit varying trailer / container configurations. Powered from the standard control panel.</td>
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<tr>
<td>Optional Item – Turntable</td>
<td>Slewing turntable to allow adjustment of throwing direction when the container and FulFiller are not ideally positioned.</td>
</tr>
<tr>
<td>Utility requirements</td>
<td>3 phase 380 – 460V 50/60 Hz supply. Unit supplied with cable and plug.</td>
</tr>
</tbody>
</table>

## 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.
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
- Dimensions required for frame height – and any variability
- Any special environmental factors