Storage Flexible Silos
Product Guide

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QUICK, COST EFFECTIVE SOLUTIONS TO IMPROVING MATERIALS HANDLING

MAQUIRE
Key Benefits

We manufacture flexible silos up to a standard size of almost 80m³.

The breathable polyester fabrics of the silos display extreme tear resistance, as a result of which a silo can be filled with up to 50 tons, depending on the fabric type. The strength calculations make provision for multiple safety factors. This makes the silo ideal for industrial use.

Low transport costs, a space-saving design, flexibility in location selection and installation without the need for approval make these silos an economical storage facility for your bulk materials.
Overview

We plan, manufacture and assemble silo systems that are tailored exactly to the customer’s needs.

We supply standardised pressure conveying for filling the silos. The filling pipes can be routed together at a central point. The pressure conveying communicates with the high-level indicators of the silos, thereby preventing overfilling.

Flexible silos are compact and easy to deploy being easy to move and reorganise as plant requirements expand or change, with a wide range of capacities according to different material stock requirements.

Filling and conveying is quick and easy to do, making central distribution simple to achieve.

Grounding Strip
Optional Low Level Sensor
Optional High Level Sensor
Aluminium Material Take Off Box
**Storage & Loading Options**

**Storage Options**

**BULK MATERIALS**
Standard solutions for normal bulk materials such as PE and PP

**ABRASIVE MATERIALS**
Thicker options on Flexible silos for abrasive materials such as glass fillednylons

**HYDROSCOPIC MATERIALS**
Control ambient moisture for hydroscopic materials with air dehumidification for materials such as PET grades

**POOR FLOWING MATERIALS**
Options for poor flowing materials such as bridge break-ers for Re grind

**FREE FLOWING POWDERS**
Powder Grade options for free flowing powders such as PVC

**Loading Options**

**AUTOMATICALLY LOAD**
Option to automatically load flexible silos can be from Octobins, Big Bags, and 25 kg bag splitting stations

**MATERIAL MOVEMENT**
Materials are blown up into the Flexible Silo by a 3 Phase Blower and Rotary Valve

**BLOWER OUTPUTS**
Blower outputs sized to fill Silos rapidly according to size of silo to allow quick and efficient loading – for example typical blower sized at 10 tones per hour for PE / PP

**SILO LEVELS**
Level Sensors control the full level of the silo

**SENSORS**
Sensors can also monitor low levels and signal to an alarm or plant control panel
### Technical Specifications

Six standard flexible silo series with over 35 models plus options to add on a range of filling pipes, conveyor connections, material suction boxes and pressure conveying units.

**1500 SERIES**

**Maximum Capacity (Up To)**

<table>
<thead>
<tr>
<th>TONNES</th>
<th>0</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
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**NOTE**: Tonnage is for guideline purposes only using an average Bulk Density estimate of cubic volume multiplied by density – for example 76.0 m³ x 0.6 = estimate of 45.6 tonnes.
Technical Specifications

Six standard flexible silo series with over 35 models plus options to add on a range of filling pipes, conveyor connections, material suction boxes and pressure conveying units.

1500 SERIES
2000 SERIES
2400 SERIES
3000 SERIES
4000 SERIES
4500 SERIES

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MAXIMUM CAPACITY (UP TO)

TONNES 0 5 10 15 20 25 30 35 40 45 50

Ø = 2000 x 2000 mm
H = from 3300 mm to 6300 mm

MORE SIZES · MORE OPTIONS · MORE CHOICES
Technical Specifications
Six standard flexible silo series with over 35 models plus options to add on a range of filling pipes, conveyor connections, material suction boxes and pressure conveying units.

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MAXIMUM CAPACITY (UP TO)

- Ø = 2400 x 2400 mm
- H = from 3300 mm to 6300 mm

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Accessories
A full range of optional components are available to suit your needs.

**FILLING PIPES**
Stainless steel filling bend for central filling, aluminium or stainless steel filling pipe, truck coupling.

**CONVEYOR CONNECTIONS**
Support structure central on the silo roof, flange connection in accordance with specifications.

**MATERIAL SUCTION BOXES**
All suction boxes are designed and manufactured for the respective application. Up to 6 suction points with diameters of between 38 and 76.1 mm are available as standard.

**PRESSURE CONVEYING**
The pressure conveying unit is used for the manual emptying of plastic pellets from 25kg bags and for filling silos by means of pneumatic pressure conveying. There is also an optional frame to hang big bags above the hopper also.

The complete system is all built on a single frame. The frame can be moved easily by forklift truck, or placed on wheels to move manually.

The system comes complete with material hopper, rotary valve, blower, controller and a 5 m filling hose with quick release coupling.

**MATERIAL LEVEL MONITORING**
We also can offer a range of options for monitoring material levels from sonic systems to load cells and options to connect to software packages.
Installation
Flexible silos are quick and easy to install.

The silos are prepared in simple to install kits that can be installed by a company’s own staff and positioned according to the initial specification and review.

Installation time is quick allowing for storage to be quickly achieved and connected to materials conveying systems.
Maguire Products offers one of the most comprehensive warranties in the plastics industry. We warrant all Maguire equipment to be free from defects in material and workmanship for 5 years from the date of delivery. In addition, we are committed to satisfying our customers in whatever manner is deemed most expedient to overcome any problems they may have in connection with Maguire equipment.

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OVERVIEW

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5-YEAR WARRANTY
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Product Guide
Storage Flexible Silos

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5-YEAR WARRANTY
Maguire Products offers one of the most comprehensive warranties in the plastics industry. We warrant all Maguire equipment to be free from defects in material and workmanship for 5 years from the date of delivery. In addition, we are committed to satisfying our customers in whatever manner is deemed most expedient to overcome any problems they may have in connection with Maguire equipment.

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