

PROCESS HOPPERS

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Customised Powder Handling Solutions

Description

Process hoppers are an integral part of almost all powder transport systems. While they may appear quite similar, they are each designed for a particular area and to perform a specific task. They can serve as temporary storage vessels, weigh stations, buffer zones and even be used to introduce inert gas into a product to prolong its storage life if required.

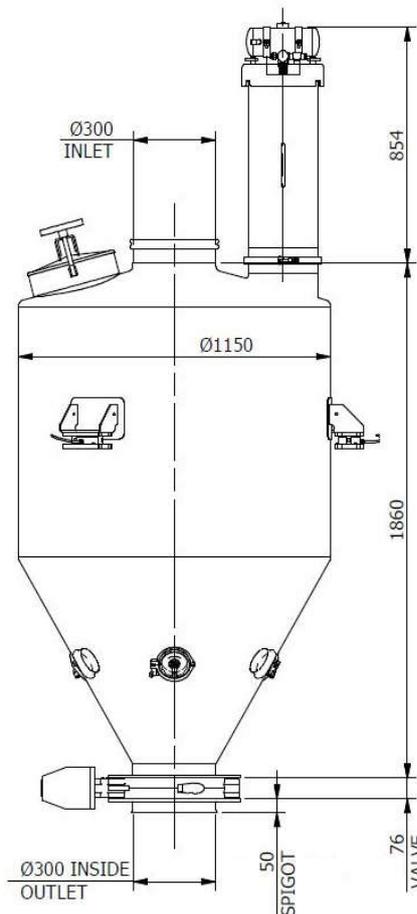
Techno Links can offer a range of standard size process hoppers and also customise hoppers to suit specific installation and process requirements.

Standard Hopper types available:

- ◆ Surge Hopper
- ◆ Weigh Hopper
- ◆ Gassing Hopper



Typical Process Hopper



1200L Weigh Hopper

Features

- ◆ Design and stainless steel construction to NZ Dairy standard.
- ◆ Solimar Fluidisers to maintain powder fluidity and assist with product discharge.
- ◆ Can be supplied with supports suitable for load cell mounting if required.
- ◆ Manway access hatch as standard.
- ◆ Ø300 Outlet with Butterfly Valve fitted as standard, with rotary valve or screw conveyor options available should metered outfeed be a requirement.
- ◆ Hoppers can be ordered in a pre-gassing configuration, where gassing nozzles are used to flood the hopper with CO₂ or N₂, thus reducing the residual oxygen in the product to a level suitable for packing.
- ◆ Single sock filter vent with Automated Reverse Pulse Jet filter cleaning system (not fitted to gassing hopper).
- ◆ Extensive range of filter media to suit varying environments and airflow requirements. A Hopper may utilise either filter bags or pleated cartridges depending on the specific application.
- ◆ Complete in-house design allows total unit customisation to suit specialty applications.

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Available Accessories

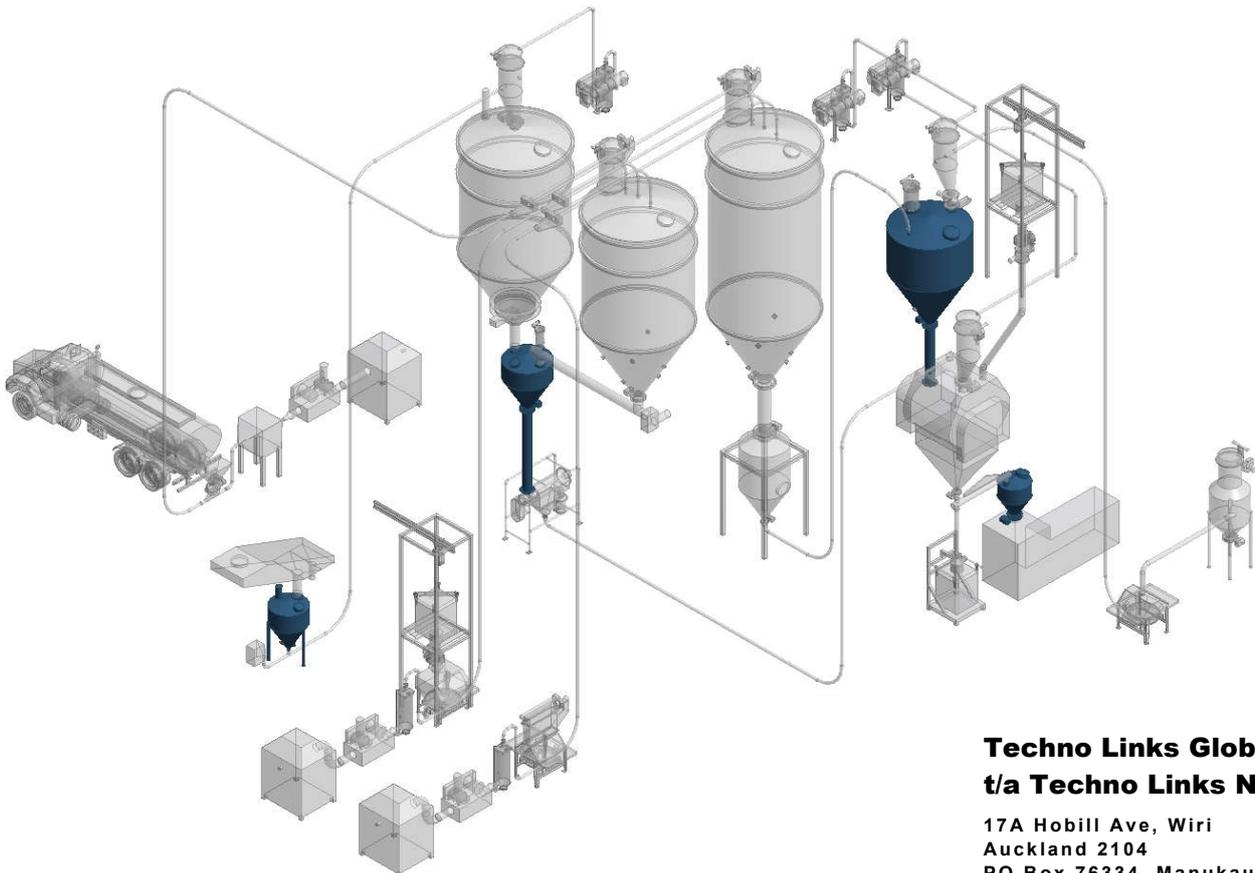
- ◆ Vacuum or Pressure conveying systems in Lean or Dense Phase configuration
- ◆ Load Cells and Weigh Scale Systems.
- ◆ Receiving Storage Bins/Silos.
- ◆ Metering Valves and Rotary Magnets.
- ◆ Inline Metal Detection and Reject System.
- ◆ Downstream Rotary or Vibrating Screen Sifters.
- ◆ 25kg Manual Bag Fillers and Bulk Bag Filling Units.
- ◆ Units can be customised to suit client specifications, including specialised construction materials and surface finishes.

Application and Typical Technical Features

Hopper Capacity	Hopper diameter (mm)	Hopper outlet diameter (mm)	Hopper height (mm) *	Hopper empty weight (kg)	Instantaneous air consumption (m ³ /h @ 6 barg)
1,200 litres	1150	300	2040	300	94

* Add 800mm to figure shown to include vent height

All technical details are subject to confirmation during detailed design and to suit application.



System schematic showing typical Process Hopper locations

**Techno Links Global
t/a Techno Links NZ Ltd**

17A Hobill Ave, Wiri
Auckland 2104
PO Box 76334, Manukau
Auckland 2241
NEW ZEALAND