



## Heliflows

Pneuvay Engineering's Heliflow is a very attractive alternative to cumbersome screw conveyors.



Photo shows standard Heliflow with hopper

Heliflows are an ideal means of conveying powders and granuals from a hopper.

### How it Works

The Heliflow operates by means of an open pitch spring which rotates within a flexible nylon tube. This spring is directly connected to a motor (attached at the discharge end); The product in the hopper is loaded into the hopper where it flows into the path of the helix. This then conveys the product along the length of the tube. Pneuvay Engineering's Heliflow is constructed as a whole unit and is designed to allow

companies enormous flexibility for conveying materials. It has the ability to convey product vertically, (to a distance of 5 metres, depending on the type of product) and horizontally at the same time!

### Uses

Companies typically use Heliflows to control the flow of material in processing operations. Alternatively, the Heliflow can also be used as a mixer, agitator or stirrer to mix and blend dry or fluid materials during conveying.

**Pneuvay Engineering provides full test facilities for clients to trial their various materials prior to purchase.**

### Features Include;

- Extremely flexible- allows product to be conveyed vertically, horizontally, or at any point in between
- No air used – therefore, no filters required.
- No separation of mixed materials
- Occupies minimal floor space
- Simple to install
- Low noise levels
- Dust-free conveying
- Low energy requirement



## Heliflow Details

**Models:** Two Spring models are available – T4 H3 (57mm I.D.) and T7 H3 (66mm I.D.) – chosen to suit the product and required flow rates

**Hopper Volume:** Standard capacities are 80 and 140 litres. Available in other shapes and sizes on request.

**Electric Motor:** Fixed speed, variable speed, or geared motors are available. Motor sizes available to suit all applications.

**Capacity:** Heliflows can convey at rates up to 3m<sup>3</sup> per hour

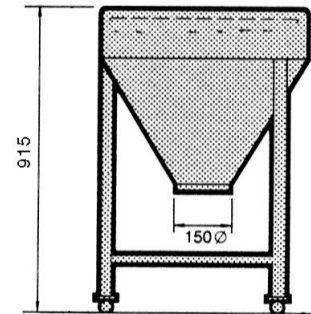
**Material:** Choice of either mild steel or stainless steel

**Spring length:** Available in any length

**Modifications:** Variations of both the inlet and outlet assemblies are available (see diagram below)

### Materials suitable for use with Heliflows include:

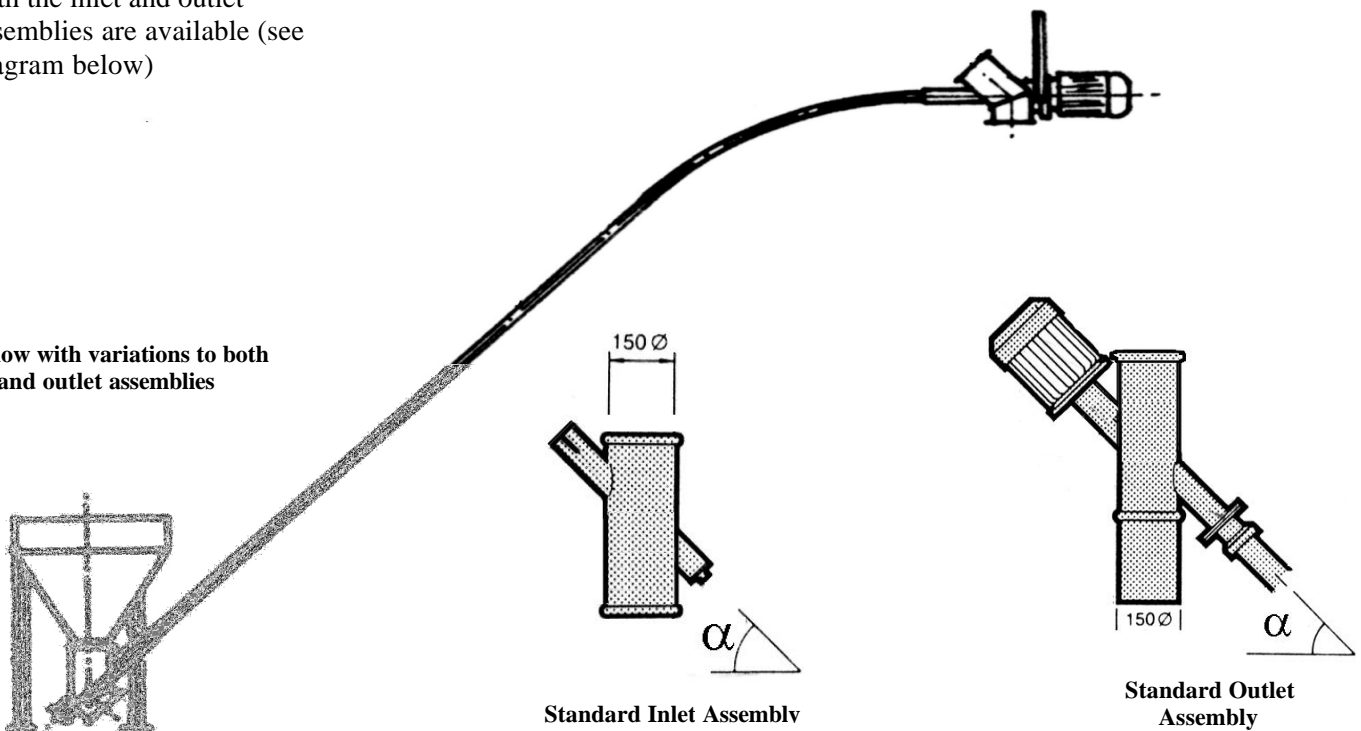
- Char
- Dust
- Flour
- Grains (wheat, oats)
- Limestone
- Omya
- Paint pigment
- Paper pulp
- Phosphate powder
- Plastic regrind
- Polyethylene pellets
- PVC powder/ granuals
- Silica
- Soap Powder
- Soda Ash
- Starch
- Stockfeed
- Sugar



Standard Hopper

For more information regarding Heliflows or any other aspect of pneumatic conveying, please call Pneuvay Engineering.

Heliflow with variations to both inlet and outlet assemblies



Standard Inlet Assembly

Standard Outlet Assembly