

# Easyflo

The Easyflo is a free standing mobile screw elevator with an integral loading hopper.

The hopper base is fitted with a rotating paddle which acts to loosen up the hopper contents, keeping them moving and encouraging their entry into the screw elevator section. The screw then elevates the material for discharge into packaging or processing machinery as desired. This assisted feed action makes the Easyflo ideal for handling materials with poor flow characteristics or those which compact or bridge easily.

Pellets, flakes, powders and granules can all be easily handled, in particular cornflour, milk powder, pvc, salt, starch, coffee, melamine, talc and carbon black are all examples of suitable materials.

Easy cleaning, maintenance and operation were the main design objectives and the Easyflo has many unique design features.

- **Free standing mobile unit**
- **Paddle assisted feed**
- **70° incline angle adjustable to 65° or 75°**
- **316 stainless steel contact parts**
- **Modular screw and tube design for flexibility**
- **Screw tube clamps allow easy release for cleanout**
- **Drive components and shaft seals designed for easy access**



*The transparent section of elevating screw is for illustrative purposes only.*

## Guttridge

**Bulk Materials Handling**

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## Construction

- The Easyflo machine is sturdily constructed, using high quality materials throughout. All components are precision punched and fabricated for ease of assembly and interchangeability.
- All contact parts are manufactured from 316 grade stainless steel, external surfaces polished with a uniform grained finish to 180 grit.
- Non-contact parts are manufactured from stainless steel or mild steel with external surfaces powder coated for maximum durability and long life.
- The base frame is constructed from box section for maximum rigidity and mounted on wheels for manoeuvrability.
- The main drive is from a standard 6 pole motor, rated to IP55, with a Vee belt to the screw and an auxiliary Vee belt drive to the assister paddle.
- Conventional flange bearings support the stainless steel drive shaft which rotates in a packing gland seal to provide an effective seal against most types of products.
- The head shaft runs in a nylon bush, essential for many applications.



**Hydraulic Tipping System to aid disassembly (at safe working height)**

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## Operation

- Careful attention has been paid to the design of the Easyflo machine to ensure ease and safety of operation.
- A single Allen key is the only tool necessary for a typical clean-down operation between batches.
- The main tube sections are joined by a special tube clamp which provides a strong and secure joint that can be easily disassembled by undoing a single captive set screw.
- A hinged access door is provided at the base of the screw to allow this area to be easily cleaned out.
- The drive shaft and screw sections are connected using special slip-fit couplings which require no gudgeon bolts making disassembly remarkably quick and easy.
- The Easyflo is designed for use at an incline angle of 70 degrees but fixing holes are provided to allow the machine to be tilted forward to 65 degrees or back to 75 degrees to give added versatility in use.



**FIBC Discharger discharging directly into Easyflo**

## Maintenance

- The Easyflo machine has been designed to be reliable and easy to maintain so that non-productive downtime is kept to a minimum.
- The bottom cover is a one-piece fabrication which is easily removed with the machine in an upright position. Once the cover is removed all the drive components are easily accessible.
- A quick release access door is provided to allow rapid and easy access for drive belt inspection and packing gland adjustment.
- The main motor is uniquely mounted within the unit so as to allow quick and easy access to both sets of Vee belts for tensioning and replacement.
- The screw and assister paddle are mounted on stainless steel shafts running in packing gland seals - the seal housings are not only adjustable from beneath, but are also removable from above to facilitate re-packing.

# Easyflo

## Features at a glance

The Easyflo is a free-standing mobile screw elevator with an integral loading hopper.

- Unique machine - handles most materials
- Ideal for automatic top-up of feed hoppers
- Modular screw and tube design
- 316 stainless steel contact parts
- Designed for easy clean down

## Typical Capacity

- 75mm dia – 1.25m<sup>3</sup>/hr
- 100mm dia – 3.5m<sup>3</sup>/hr
- 125mm dia – 7.5m<sup>3</sup>/hr



**Dust Extraction Hood**  
Allows extraction of dust from tipping process\*

**Heating / Cooling**  
Jacketed hopper and screw tubes\*

**Hopper Capacity**  
Standard:- 70 litre  
Optional:- 100 litre\*



**Easy Release Tube & Screw Joints**  
Allows easy strip down for cleaning

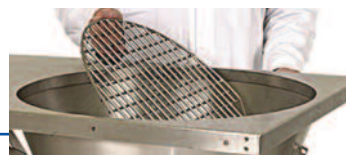


**Pre-wired Electrics**

- Integral start/stop controls
- Variable speed drive\*
- Relay circuit to allow autocontrol of easyflo from a level probe\*
- Hopper low level probe\*

**Discharge Height**

- Upto 5 metres
- Extended frame for stability\*



**Hinged Safety Grill**  
Microswitch interlock for easy hopper cleanout\*



**Paddle Assisted Feed**

- Agitates hopper contents, pushing material into the screw.
- Allows an extensive range of products to be handled.
- Special paddles available for difficult materials\*

**70° screw incline**  
Compact, small footprint



**Construction**

- Machine frame and covers painted as standard
- Stainless steel throughout\*
- Special connection spigot\*
- Hopper cover\*



**Maintenance Access**  
Quick Release Door

**Shaft Seals**  
Packing glands seal the screw and paddle shafts

\* Optional Equipment



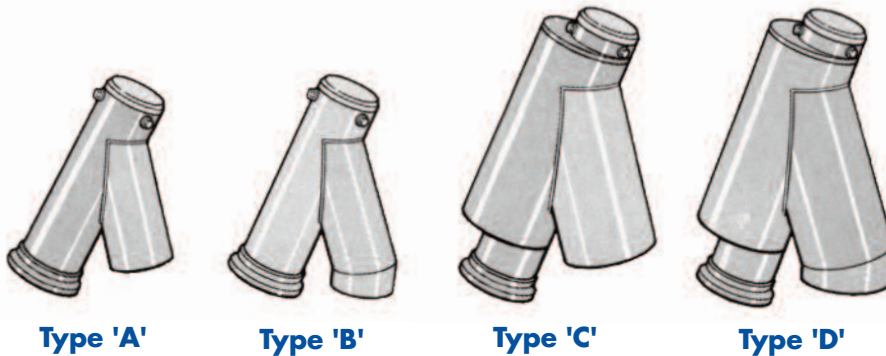
**Cleaning & Reclaim**

- Reclaim chute - minimises wastage by allowing easy reclaim of residual product\*
- Access door allows thorough clean out
- Quick release access door - minimises downtime for cleaning\*



## Optional Outlet Configurations

### Available Outlet Modules

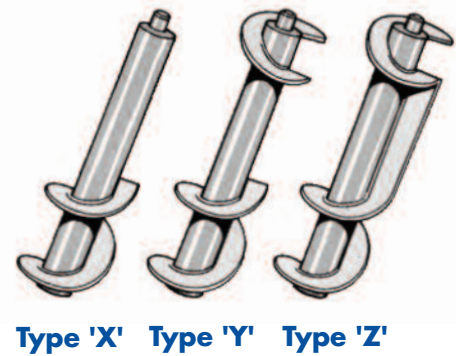


These are the most commonly specified types of outlet and are normally used for free flowing materials with good handling characteristics.

*Please seek technical advice before specifying.*

These types of outlet are sometimes specified for sticky or low density materials with poor flow characteristics.

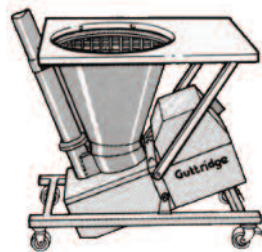
### Screw Flight Modules



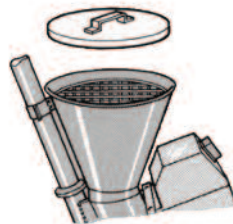
These represent three of the most commonly specified outlet screw flight styles. Type 'X' is supplied as standard and is suitable for most free flowing materials. Types 'Y' and 'Z' are available for materials with poor flow characteristics.

### Optional Extras

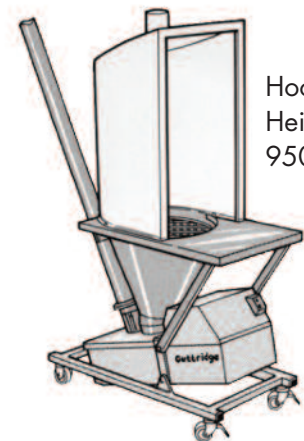
- Fully wired unit with DOL starter
- Variable speed inverter drive fully wired with on/off switch and speed control potentiometer
- Big bag discharge frame
- Jacketted screw tubes for temperature control
- Extended base frame for machines with discharge height over 3m
- Stainless steel construction throughout, including non-contact parts
- Stainless steel polished to special requirements
- Integral check sieve
- Larger capacity 100 litre hopper
- Optional half pitch start to screw
- Flexible outlet tubing
- Bag splitter



**Sack Support Table**



**Hopper Cover**



Hood Height  
950mm

### Dust Control Hood

Supplied with 114mm dia. spigot for connection to dust extraction system

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CERTIFICATE NUMBER: 143734-1

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