

# Sieveflo

The Guttridge Sieveflo comprises an Easyflo mobile screw elevator with a vibratory sieve screening section built in to the integral 70 litre loading hopper. The machine is designed to be used for transferring materials from bags, drums, boxes or IBCs into processing or packaging machinery, but its integral check sieve also allows materials to be properly check screened for oversized particles and foreign objects. A rotating paddle in the base of the hopper pushes material into the elevating screw, allowing materials with poor flow characteristics to be successfully elevated.

## Typical Uses

- check sieving products prior to processing or packaging
- minimising airborne dust (with optional dust hood)
- feeding, mixing, processing or packaging



- Free standing mobile unit with integral elevating screw
- Loading hopper with integral vibratory check sieve section
- A wide range of optional screen mesh sizes available to suit most applications
- Paddle assisted feed for handling difficult materials
- Easily dismantled for cleaning - minimises downtime between batches
- Many available options including dust hood 316 stainless steel contact parts

# Guttridge

**Bulk Materials Handling**

[www.guttridge.com](http://www.guttridge.com)

## Construction

- The Sieveflo 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)**

# Guttridge

## Bulk Materials Handling



**Close-up of vibratory check-sieve system**

## Operation

- Careful attention has been paid to the design of the Sieveflo 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.

## Maintenance

- The Sieveflo 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.

# Sieveflo

## Features at a glance

The Sieveflo is a free-standing mobile screw elevator with an integral check sieve.

- This unique machine is rarely surpassed – handles most materials
- Perfect for check sieving ingredients prior to processing
- 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

Note: Capacity depends on sieve throughput



### Dust Extraction Hood

Allows extraction of dust from tipping process\*

### Discharge Height

- Upto 5 metres
- Extended frame for stability\*



### Easy Release Tube & Screw Joints

Allows easy strip down for cleaning

### 70° screw incline

Compact, small footprint



### 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\*



### Easy Screen Change

- Hinged sack table for quick screen change and easy clean down
- Vibratory check sieve with choice of mesh size



### Paddle Assisted Feed

- Agitates hopper contents, pushing material into the screw.
- Allows a huge range of products to be handled.
- Special paddles available for difficult materials\*
- Hinged safety grill with electrical interlock for easier hopper cleanout\*



### Vibratory Sieve System

- Adjustable out of balance motor
- Quick release catches secure the screen

### Construction

- Machine frame and covers painted as standard
- Stainless steel throughout\*
- Hopper cover\*
- Quick release access door for drive maintenance

### Shaft Seals

Packing glands seal the screw and paddle shafts



### 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\*

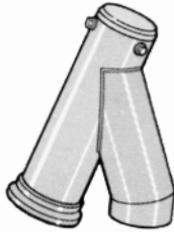
\* Optional Equipment

# Optional Outlet Configurations

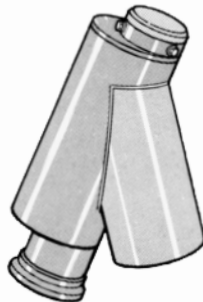
## Available Outlet Modules



Type 'A'



Type 'B'



Type 'C'

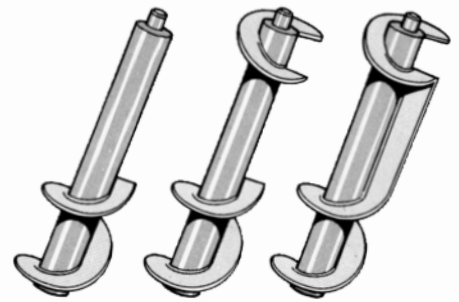


Type 'D'

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

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

## Screw Flight Modules

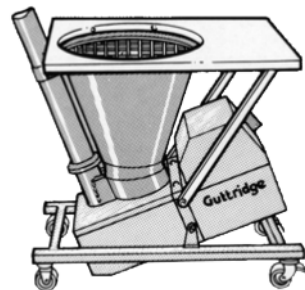


Type 'X' Type 'Y' Type 'Z'

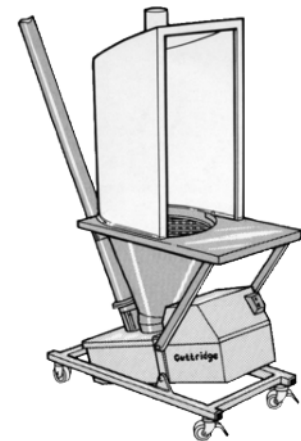
These represent three of the most commonly specified outlet screw flight styles. Type 'X' is supplied as standard and is suitable for most free flowing materials. Types 'Y' and 'Z' are available for materials with poor flow characteristics.

## 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.
- Optional half pitch start to screw.
- Flexible outlet tubing.

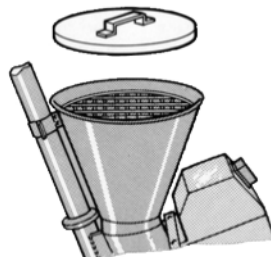


Sack Support Table



Dust Control Hood

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



Hopper Cover

# Guttridge

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