

Dust controlled mobile ingredient handling



FLOWEASY 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 Floweasy 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 Floweasy 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

If you think your business can benefit from some of Clark's handling products and solutions, or you have any other general factory problems we can help you with, call us now on 0845 602 9663.

Clark

**HANDLING
& STORAGE
EQUIPMENT**

**CALL US NOW
0845 602 9663
FOR YOUR LOCAL AGENT**

Workshop and Factory handling solutions.

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Construction

- The Clark Handling 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 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.

Operation

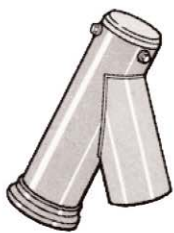
- Careful attention has been paid to the design of the Clark Handling machine to ensure ease and safety of operation.
- A single Allen key is the only tool necessary for a typical clean-down operation between batches.
- The main tube sections are joined by a special tube clamp which provides a strong 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 machine 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.

Maintenance

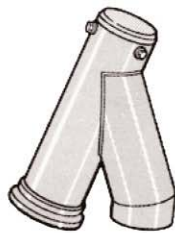
- The Clark machine has been designed to be reliable and easy to maintain so that non-productive downtime is kept to a minimum.
- The bottom cover is a one-piece fabrication which is easily removed with the machine in an upright position. Once the cover is removed all the drive components are easily 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.

Optional Outlet Configurations

Available Outlet Modules



Type 'A'



Type 'B'



Type 'C'

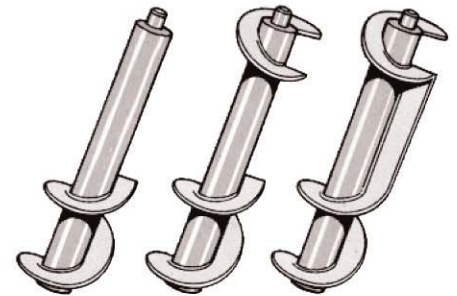


Type 'D'

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



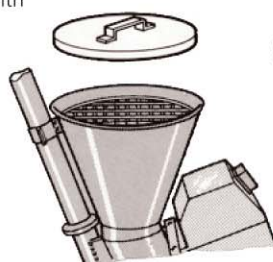
Type 'X' Type 'Y' Type 'Z'

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.

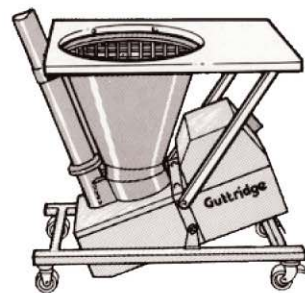
Please seek technical advice before specifying.

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.



Hopper Cover



Sack Support Table

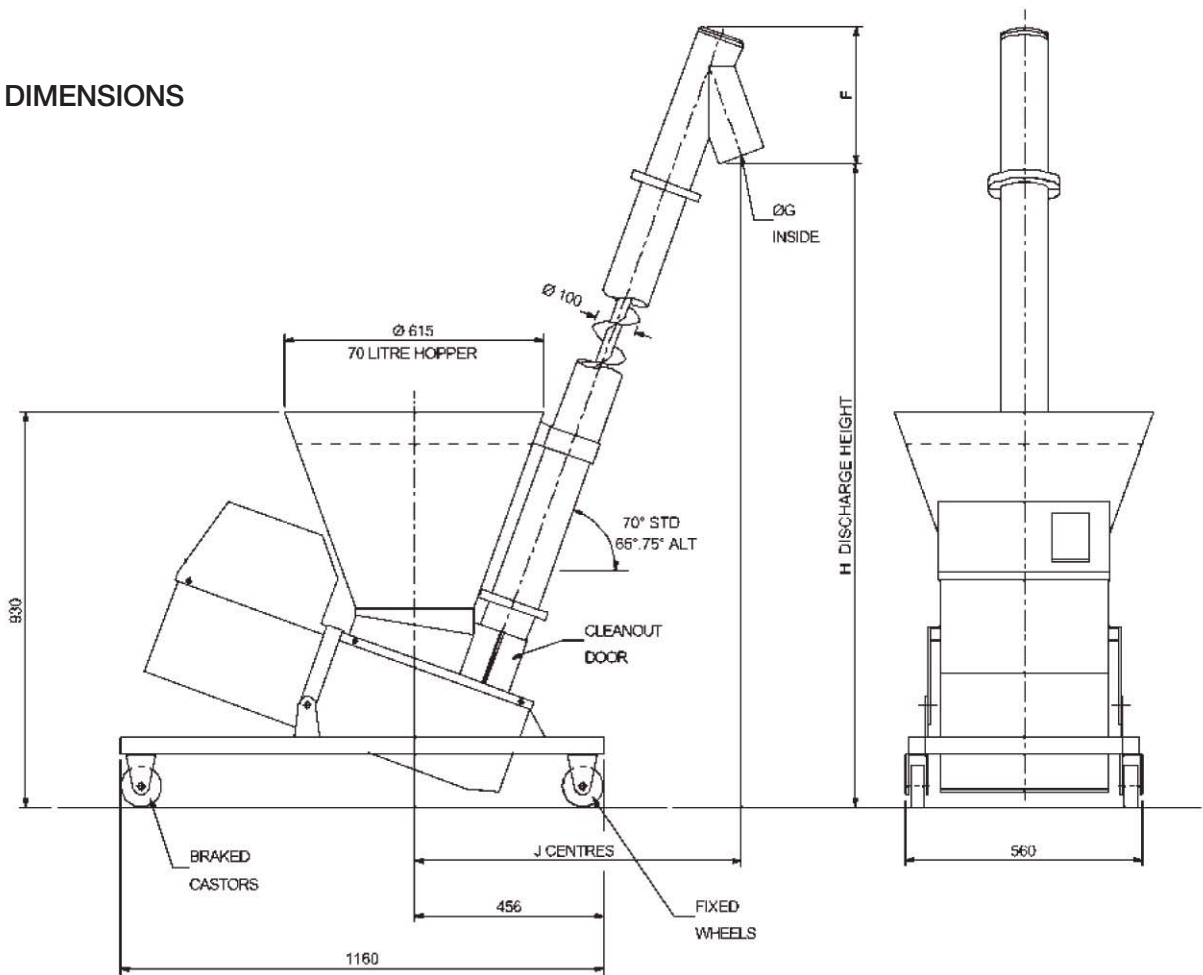


Hood Height 950mm

Dust Control Hood

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

DIMENSIONS



Principle Dimensions

Screw Tube Lgth	Motor kW	H	'J' CTS Outlet Type	
			A&B	C&D
1m	1.1	1455	755	782
1.5m	1.5	1925	926	953
2m	1.5	2395	1097	1124
2.5m	2.2	2865	1268	1295

Outlet Details

Outlet Types	Dia G	Depth F
TYPE A	110	330
TYPE B	110	355
TYPE C	163	410
TYPE D	163	435

N.B.

- i) Discharge height 'H' is reduced by 25mm for outlet types 'B' and 'D'.
- ii) Screw tube length can be specified to give a precise discharge height.

Capacity

Machine capacity - up to $3.5\text{m}^3/\text{hr}$ (Capacity is dependent upon machine height and precise material characteristics).

Notes

1. We are pleased to conduct tests on a customer's own materials, either at our works or at the customer's own premises.
2. This literature details our standard equipment - we are always pleased to quote for non-standard machines for special applications.
3. If in doubt please ask - we have had experience with many types of materials.

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