

Troughflo



The Guttridge Troughflo is a complete screw conveyor system for use within the food, chemical and pharmaceutical industries.

Screw conveyors are an essential part of many conveying and storage systems dealing with powdered or granular materials. Being simple and robust in design and easily maintained, they provide low cost, versatile handling equipment with many applications in process plants. The rate at which they convey material can be precisely controlled by varying the screw design, screw speed and trough loading - useful for feeding process machinery at a predetermined rate for example. Control systems can be provided to allow as little or as much control as necessary.

The modular design allows any configuration to be easily and quickly built up to suit a customer's exact

requirements. A very wide variety of optional extras including inlet hoppers, quick release hinged lids, special screws with ribbon flighting, crescent blades or specially pitched flighting and many other special purpose fittings are easily incorporated to customise machines as necessary.

- **316 stainless steel contact parts**
- **Easily dismantled for cleaning and maintenance**
- **Robust packing gland seals protect bearings against product ingress**
- **Ribbon flights, crescent blading, variable pitch, tapered flighting etc., all available to suit particular applications**
- **Available in a wide variety of configurations**

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Bulk Materials Handling

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Construction

- The Troughflo 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 drive is via a chain drive from a geared motor unit. Motors are rated to IP55 as standard.
- Conventional flange bearings support the stainless steel drive and tail shafts which rotate in packing gland seals to provide an effective seal against most types of products.

Operation

- Careful attention has been paid to the design of the Troughflo machine to ensure ease and safety of operation.
- 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 Troughflo is designed for horizontal use or inclined up to 30 degrees, but this must be specified at the time of enquiry.

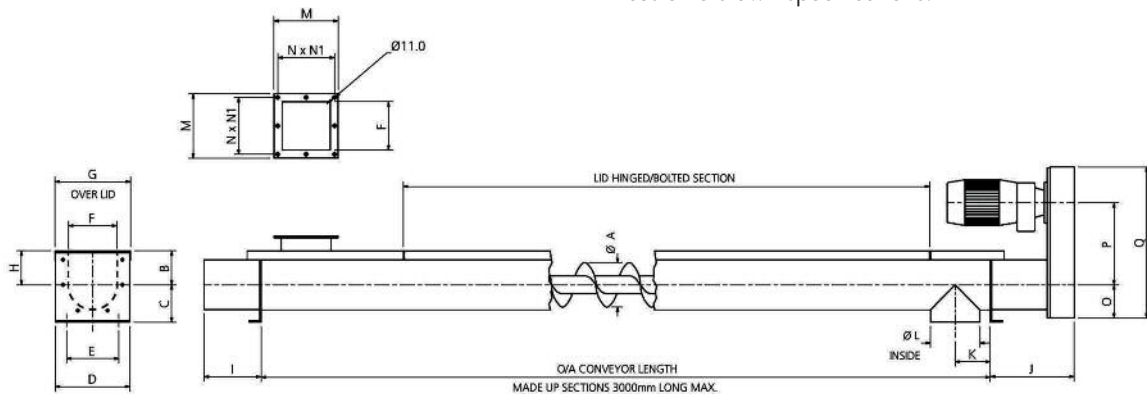
- The drive motor mounting is of a unique design, allowing the drive to be positioned above, below, or at either side - especially useful where site conditions allow limited space.

Maintenance

- The Troughflo machine has been designed to be reliable and easy to maintain so that non-productive downtime is kept to a minimum.

Optional Extras

- Variable pitch or tapered flighting, ribbon flighting, crescent blades, etc., to suit particular applications.
- Foot mountings are fitted as standard at trough joints, additional support saddles are available if required.
- Hinged lids with quick release catches and electrical interlocks.
- Special inlets, outlets, hoppers etc.
- Fully wired unit with DOL starter.
- Variable speed drives - various types available depending upon application.
- Electronic soft start unit available for applications requiring frequent stop/starts.
- Stainless steel polished to special requirements.
- Special purpose machines, fabricated entirely to customers' own specifications.



Principle Dimensions

Conveyor Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	N1	O	P	Q
150	152	114	127	254	178	165	268	118	200	310	120	163	219	97	2	125-175	325-375	670
200	203	149	159	305	228	216	315	153	200	310	145	213.5	270	122	2	125-175	325-375	670
250	254	162	184	368	280	267	378	166	210	330	175	266	321	99	3	195-245	400-450	805
300	305	197	216	419	330	318	429	201	265	385	200	317.5	372	116	3	195-245	400-450	805

Capacity Chart:

Conveyor size	Speed RPM	Capacity cu m/hr
150 mm	170	10.7
200 mm	160	28.8
250 mm	150	46.7
300 mm	140	76.5

Note:

Capacities shown are maximum obtainable when handling dry, free flowing, non-abrasive materials and are based on a 45% trough loading. When specifying a screw conveyor system a number of different factors have to be taken into account, these may affect the speed and capacity. Please seek advice before specifying.

Our policy is one of continuous improvement, all dimensions and technical details are subject to change without notice. Please check at time of ordering.

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