



OS75 Series Gravimetric Feeder

Description

Orbetron feeders have been designed to grant a wide range of flexibility for the different bulk solid materials and throughput range.

The universal single screw feeder OS75 is suitable for feeding granules, pellets, free and non-free flowing powders regrind materials, flakes and fibers.

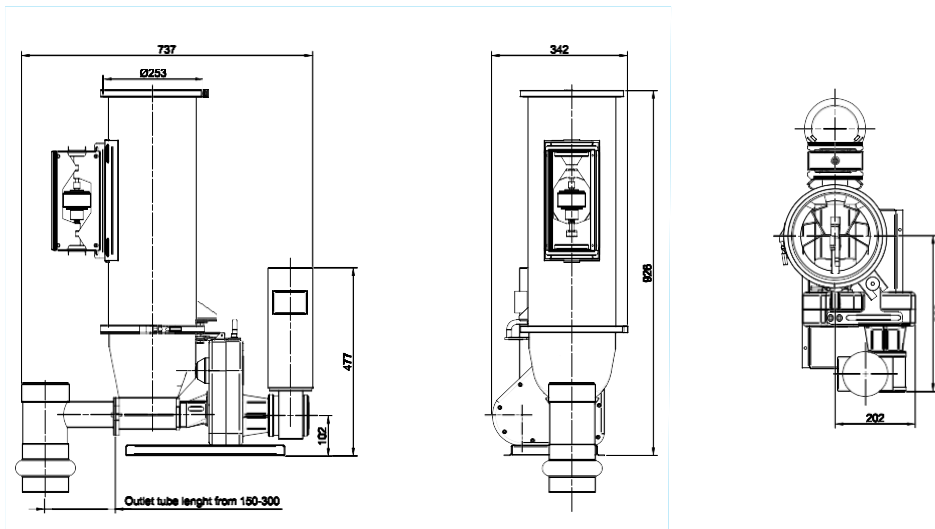
The feeder is designed with a multiple wing agitator ensuring full agitation of the entire ingredient compartment. The multiple wing agitator eliminates bridging and inducing free material flow and an optimum screw filling level for consistent linear mass flow.

On all mechanical connections for the material inlet and outlet of the feeder it is possible to mount different accessories to reach the highest performance and precise accuracy in the desired application.

The feeder can be used in a single stand-alone application or it can be integrated in a multiple feeding system.

Applications

- Volumetric continuous or batch
- Gravimetric loss-in-weight continuous
- Gravimetric loss-in-weight batch
- Gravimetric gain-in-weight



All dimensions are in mm.
 These dimensions are only guideline values.
 Please ask for a technical drawing for binding measurements.





Orbetron



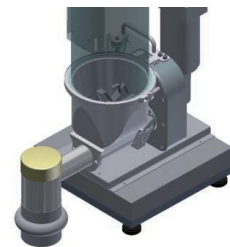
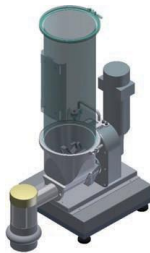
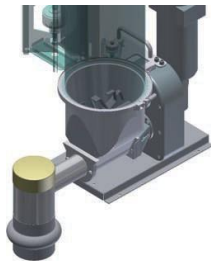
Design

- Compact feeder and gear box design
- High modularity for easy dismantling and cleaning
- Horizontal material outlet discharge
- Tool free change of the feeder screw
- Applicable for single spiral and auger screws
- All metal parts which are in material contact are in stainless steel 1.4404 (asi316L)
- Mechanical gear box with lifetime lubrication
- 370W DC motor with speed control in protection class IP 54
- Operating and material temperature -20..60°C (-4..130°F)
- Gear boxes in the sizes of 7:1, 15:1, 28:1
- Weight without accessories is 33 kg
- Color outside light grey RAL7035
- Conforms to CE directives

The feeder can be mounted on weighing module or on a platform scale. It is suitable for continuous or batch processes.

Options

- Hopper extension modules in the sizes of 20l, 50l, 75l, 85l, 100l, 135l, 185l, special hoppers are on request available
- Removable vertical outlet tube with the size of 4"
- Counter bearing for very poor flowing or heavy materials
- Screw and outlet tube extensions up to the total
- Screw length of 600 mm
- Flexible outlet tube
- All sealing which are in material contact in silicon free style
- 230-460V 3PN 50-60Hz AC 370W and 750W motor with frequency inverter
- Bottom outlet for material discharge on request
- Different color on request
- FDA certification according FDA CFR 21 #178.3570
- ATEX Zone inside 3D T140°C, 2D T140°C, AS75 2D T140°C/2G T4, 1D T140°C/2G T4
- ATEX Zone outside 3D T140°C, 2D T140°C/2G T4



Performance Table			
Gear	Speed rpm/min	Spiral Screw dm ³ /h	Auger Screw dm ³ /h
28:1	8–146	5–900	5–750
15:1	14–272	10–1700	10–1500
7:1	30–585	50–5750	65–6500
The shown throughput data are Indicatory values			

The AS75 can cover a throughput range from 1 up to 4980 l/h measured on free flowing granules bulk density of 0.6dm³/Kg.