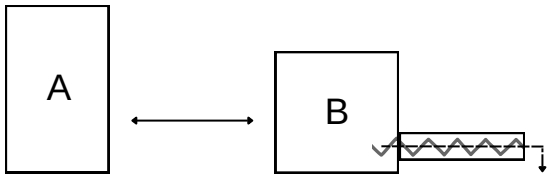
Single Screw Feeder with Agitation

Typical application of AS130:

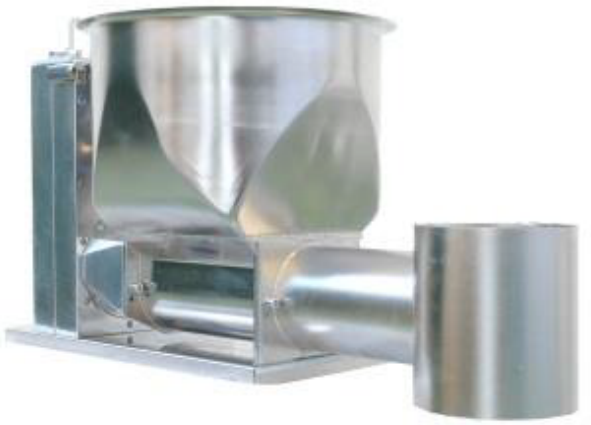
A. Motor Control
B. Single Screw Feeder



Description

Orbetron's single screw feeder AS130 is designed for dosing powders, pellets, regrinds, fibers, and flakes in a continuous and batching process.

The compact modular design gives the operator the flexibility to meet changing process requirements. Volumetric feed rates range 200-26129 l/h 7-922 cuft/h. The horizontal agitator constantly keeps material in motion, thus eliminating bridging and maintaining consistent screw fill. All material contact surfaces are manufactured from corrosion resistant stainless steel. The volumetric controller offers the operator full access to all feeder parameters through an icon driven control interface.



Dosing Performance

Screw Type		F		
		Full-Flight		
Gear Reducer	**Speed** (rpm)	**Ø 80 x 80** dm^3/h	**Ø 100 x 100** dm^3/h	**Ø 120 x 120** dm^3/h
7:1 15:1	8 – 617 4 – 288	155 – 13000 80 – 6000	360 – 30000 180 – 14000	660 – 56000 330 – 26000
Gear Reducer	**Speed** (rpm)	**Ø 80 x 100** dm^3/h	**Ø 100 x 120** dm^3/h	
7:1 15:1	8 – 617 4 – 288	230 – 19000 115 – 9000	450 – 38000 230 – 18000	

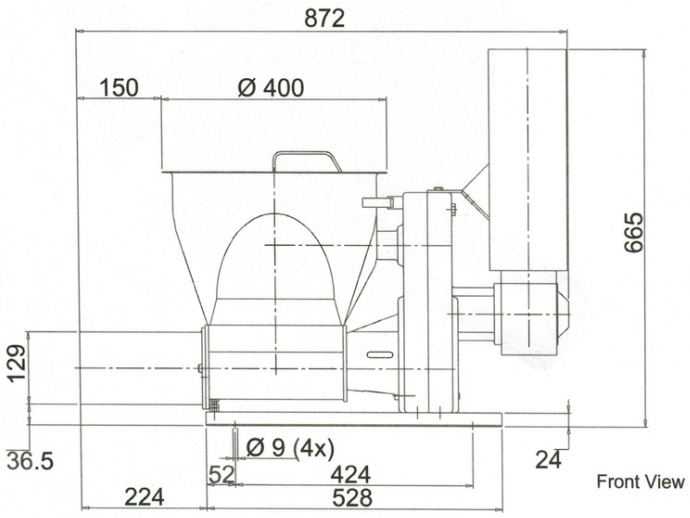
Design

- Compact feeder and gearbox design
- High modularity for easy dismantling and cleaning
- Horizontal material outlet discharge
- Tool-free change of the feeder screw
- Applicable for twin screw, auger, and concave screws
- All material contact metals are stainless steel 1.4404(ASI316L)
- Mechanical gearbox with lifetime lubrication
- 750 W DC motor (3000 rpm) withspeed control in protection class IP 54or up to 2,2 kW AC motor
- Operating and material temperature-20..60°C
- Gearboxes in the sizes of 15:1, 28:1, STD
- Weight without accessories 75 kg
- Color outside light grey

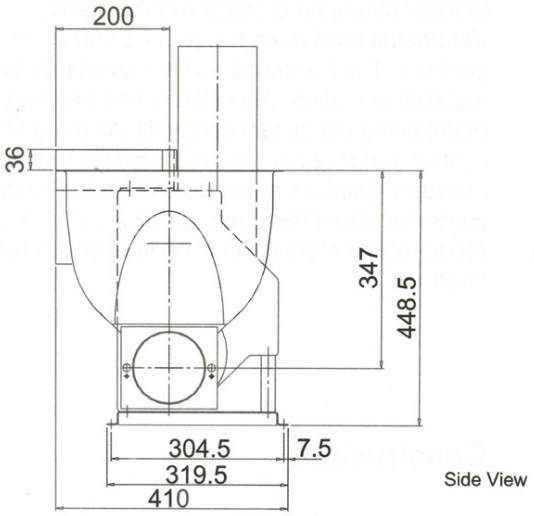
Options

- *Gravimetric and volumetric controls*
- *Hopper extension modules, and special hoppers available on request*
- *Removable vertical outlet tube*
- *Counterbearing for very poor flowing or heavy*
- *materials*
- *Different color on request*
- *FDA certification: FDA CFR 21 #178.3570*
- *ATEX Zone inside 3D T140°C, 2D T140°C,*
- *2D T140°C/2G T4, 1D T140°C/2G T4*

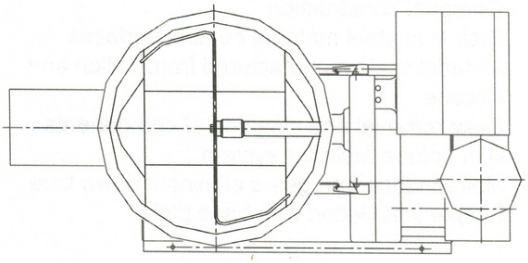
Drawings



Front View



Side View


Top View