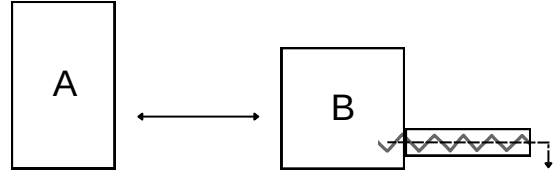


Twin Screw Feeder with Agitation

Typical application of AT20:

- A. Motor Control
- B. Single Screw Feeder



Description

Orbetron's AT20 feeder is designed for dosing powders, granulates, regrinds, fibers, and flakes in a continuous and batching process.

Orbetron feeders have been designed to have a wide range of flexibility for the different bulk solid materials, and throughput ranges. 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 AT20 feeder can be used in a single standalone application or it can be integrated in a multiple feeding system, OSB.



Dosing Performance

Screw Type		C	F	S
		Double Concave	Double Full-Flight	Double Spiral
Gear Reducer	Speed (rpm)	Ø 20 x 11 dm ³ /h	Ø 20 x 11 dm ³ /h	Ø 14 x 11 dm ³ /h
	7:1	1.0–70	2.0–115	1.0–80
	15:1	0.5–30	1.0–50	0.5–35
28:1	2–154	0.5–25	0.2–20	
Gear Reducer	Speed (rpm)	Ø 22 x 20 dm ³ /h	Ø 22 x 20 dm ³ /h	Ø 14 x 20 dm ³ /h
	7:1	3–250	4–330	3–210
	15:1	2–115	2–150	2–100
28:1	2–154	1–60	1–50	



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 spiral, auger, and concave screws
- All metal parts which are in material contact are in stainless steel 1.4404 (AS1316L)
- Mechanical gearbox with lifetime lubrication
- Motor configuration AC, DC
- Operating and material temperature -20..60°C (-4..130°F)
- Gearboxes in the sizes of 7:1, 15:1, 28:1, STD
- Weight without accessories 33 kg
- Color outside light grey

Options

- Hopper extension modules in the sizes of 20l, 50l, 75l, 85l, 100l, 135l, 185l - special hoppers available on request
- Removable vertical outlet tube with the size of 4"
- Counterbearing for very poor flowing or heavy materials
- Screw and outlet tube extensions up to the total screw length of 600mm
- Flexible outlet tube
- Silicon sealing
- Different colors on request
- FDA certification according to FDA CFR 21 #178.3570
- ATEX Zone inside 3D T140°C, 2D T140°C, 2D T140°C/2G T4, 1D T140°C/2G T4
- ATEX Zone outside 3D T140°C, 2D T140°C / 2G T4
- Bottom outlet for material discharge available on request

Drawings

