

Multiscrew Feeder

The Tomal Feeders are volumetric multiscrew feeders for safe discharge and accurate metering of solids.

Overview

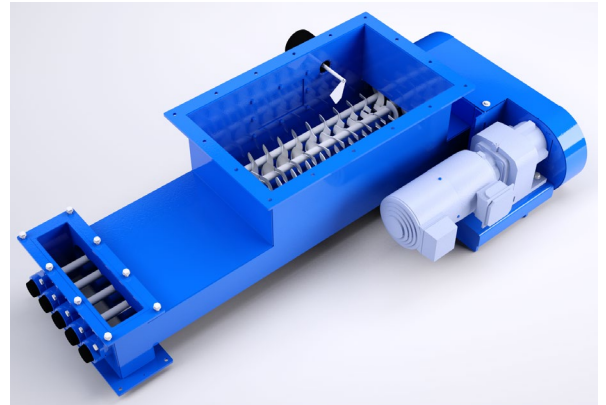
With the unique construction the Tomal multiscrew Feeders are suitable as metering devices for both granular and arch forming materials.

Purpose of metering

Feed any type of dry solids from a storage silo / hopper into a process such as mixing tank, pneumatic transport or similar.

Technical specification

- Inlet flange for connection to a powder hopper or silo
- Outlet flange suitable for a screw conveyor, pneumatic transport, conveyor belt, mixing tank or similar
- Feeder house in robust construction including an inspection hatch
- Feeder screws suitable for both arch building and free flowing powder chemicals
- Bearings, cog wheels, chain wheels
- Low/empty level indication, type rotating paddle indicator, placed in the feeder
- Drive gear motor, 3-phase, 230/400V, 50-60 Hz, IP 55
- Surface treatment, externally:
Sandblasted to SA 2 ½, 100 µm 2-component hematite epoxy primer, 50 µm 2-component acrylic topcoat



Functional description

The Tomal Feeders starts and stops from an external signal. Normally the capacity is regulated via a frequency inverter inside the local control cabinet. An empty/low level indicator controls that there is chemical available.

The Tomal feeders can be used in almost any continuous or batch wise process. Typical applications are Waste Water, Potable Water, Energy, Pulp and Paper, Mining, Chemical industry and wherever you need safe discharge and accurate metering of solids.

Typical chemicals for the Tomal multiscrew feeders: Lime, Activated Carbon, Aluminum Sulphate, Magnesium Sulphate, Urea, Bentonite, Starch, Sodium Bicarbonate, Magnesium Oxide, Wood powder, Fly Ash, Cement, Potassium Permanganate, Ferrous Sulphate.

Preparation capacities

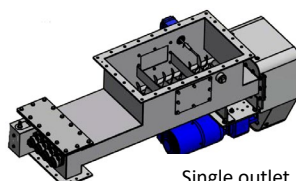
- 5-220 000 liters/h dry solids in powder or granular form

Advantages

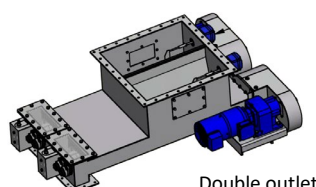
- Very accurate metering from the multiscrew feeder +/- 1-2% (normally no need for weighing equipment)
- Safe discharge from silo/powder hopper
- Linear discharge curve
- Large active contact area
- Self-cleaning feeder screws
- Dust free operation
- Robust and low-wear construction

Optional equipment

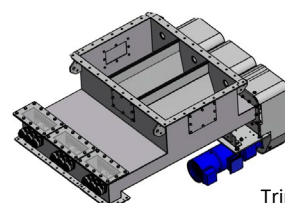
- Proximity sensor
- Labyrinth seals
- PTC-thermistors/Thermostat
- Separate cooling fan
- Weighing equipment
- Additional outlets/feeding lines



Single outlet



Double outlet



Triple outlet