

ADVANCED POWDER HANDLING SOLUTIONS  
for food industry and bakeries

# Powder Feeder F300

for dosing of powders and granules



**POWDER**  
**TECHNIC**

## Features and benefits

### 1. Stainless steel hopper

- ▶ Stainless steel with polished welding seams guarantee that the product is hygienic and fulfils food industry's quality requirements.

### 2. Dust extraction outlet

- ▶ easy to attach to dust extraction system
- ▶ integrated dust-extraction unit as an option

### 3. Powder Technic Fluidiser™ Discharge aid equipment

- ▶ Prevents material bridging inside the hopper
- ▶ Assures trouble-free production without interruptions.

### 4. Screw Conveyor with out-side bearings and progressive pitch

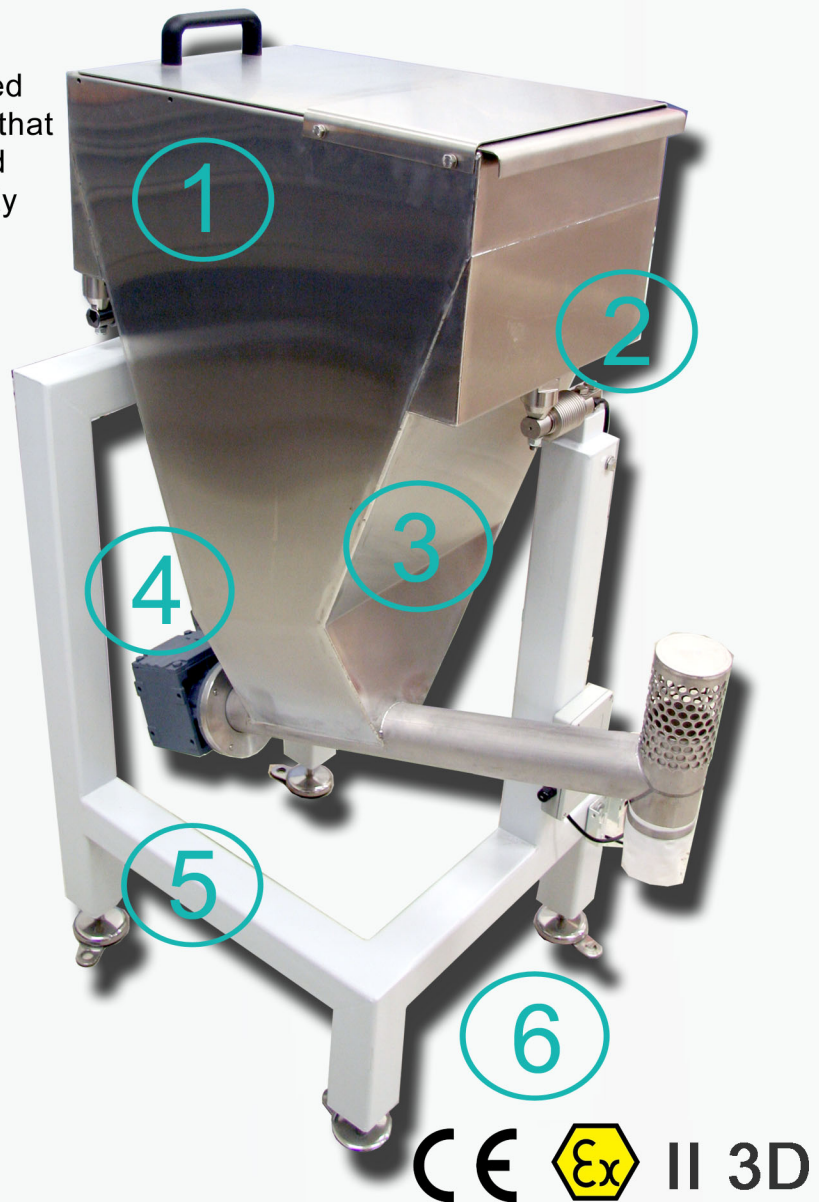
- ▶ hygienic, no risk of bearing grease leakage into product
- ▶ longer life time for the bearings
- ▶ progressive pitch of screw conveyor ensures optimal dosing accuracy

### 5. Support Frame w/ adjustable machine feet

- ▶ Easy to install

### 6. Fulfils EU safety and ATEX regulations

- ▶ The product fulfils all EU safety and ATEX requirements. The product has a CE marking to declare that it meets harmonised European standards.



## MAIN BENEFITS

### Improves productivity and work ergonomics

- ▶ The only work-phase is loading the hopper and pressing the start button.
- ▶ Your personnel can do more productive work while the machine takes care of the dosing

### Improves end-product quality

- ▶ with weighing equipment you will get a precise weighed batch or continuous weighed dosing ( loss-in-weight dosing)

### Improved ergonomics and working conditions:

- ▶ Minimizes the need of stressful and unergonomic handling of material.
- ▶ Effective dust-extraction removes dust when hopper is being filled.

## Overview

Powder Technic's Powder Feeder F300 is designed for automation of labour-intensive and unergonomic manual hand sack discharge into mixers, hoppers or to process. The only work phase with the Powder feeder is the filling of its discharge hopper and pressing the start button. The filling of the discharge hopper can also be automated with Bigbag discharge equipment.

## Suitability

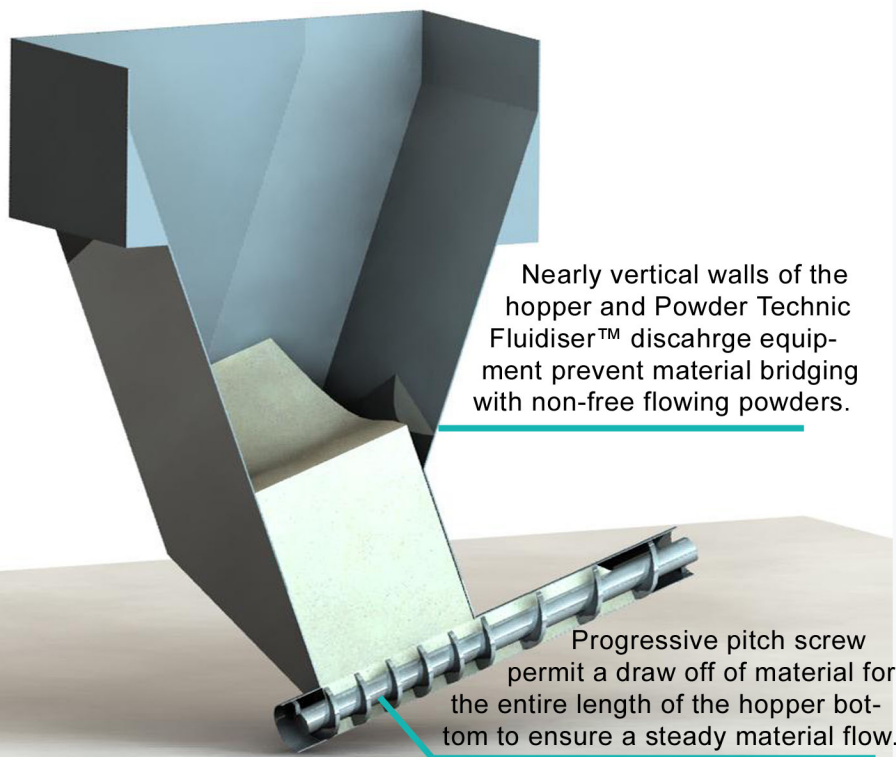
The Powder Feeder F300 is suitable for all dry powders and granules, free flowing and non-free flowing.

## Volumetric dosing as a standard feature

As a standard feature the feeder works as a volumetric feeder, meaning that it doses the material at a certain capacity until the material runs out or it is stopped.

## Increase automation level with weighing equipment

With weighing equipment the feeder can dose either precise batches ( X kg) or dose continuously with loss-in-weight principle ( X kg/min).



Weighing equipment contains an alpha-numeric operation panel with LCD display that makes the Powder Feeder extremely easy to use.

## Technical specifications

### Manufacturer:

Powder Technic Ltd.

### Suitability:

All dry, free flowing and non-free flowing powders and granules ( flour, ground coffee, spices, salt, flakes, rice, grain .).

### Hopper volume

model F100: 100 l

model F300: 300 l

### Construction material

-Parts in contact with the product: Stainless steel AISI304  
-frame: mild steel, epoxy painted, stainless steel frame on request

### Surface finishing:

standard feature: surface polished  
welding seams in contact with the product grinded

### Hopper discharge aid:

Powder Technic Fluidiser as a standard feature  
Mechanical agitator as an option

### Hopper dust extraction:

dust extraction outlet DN80 as a standard feature  
integrated vacuum blower/dust filter unit as a option

### Dosing capacity:

model F100: up to 1 t/h

model F300: up to 5t/h

larger capacities on request

### Dosing mode:

Volumetric dosing as a standard feature

Batch dosing optional

Loss-in-weight ( continuous weighed dosing) optional

### Dosing accuracy in batch dosing:

+/- 10..20 g depending on the product

### Dosing accuracy in loss-in-weight dosing:

+/- 0,5 % in 30 min cycles at nominal dosing rate

### Control system for volumetric dosing

Level switch controlled automatic drive

Manual drive: Start/Stop

Potentiometer control for dosing rate adjustment

### Interface:

400 V, 25A

compressed air 6-7 bar

## Accessories



### INTEGRATED DUST EXTRACTION UNIT

-An integrated vacuum blower/dust filter unit fitted on top of the powder feeder for powders that form dust.



### BATCH DOSING EQUIPMENT

Powder Technic's batch dosing equipment is designed for dosing of accurately weighed batches. The equipment contains a programmable logic controller, weighing modules, a legal-for-trade weight transmitter and an operation panel. The equipment is pre-calibrated and pre-adjusted at factory for Plug&Dose operation.

### LOSS-IN-WEIGHT DOSING EQUIPMENT

The Loss-in-weight Smart™ dosing equipment is designed for continuous weighed dosing of powders and granules at desired dosing rate. The equipment contains a PLC, weighing modules, a legal-for-trade weight transmitter and an operation panel. The equipment is pre-calibrated and pre-adjusted at factory for Plug&Dose operation.