





Generation of test aerosols from powder, dust, pollen, etc.; mass flow approx. 8 g/h – 7.3 kg/h with automatic mass flow monitoring

Model Variations



BEG 2000 A

Powder disperser with dispersing nozzle and weighing unit for low mass flows of approx. 8 g/h – 550 g/h; automatic mass flow monitoring and control



BEG 2000 B

Powder disperser with weighing unit for high mass flows of approx. 100 g/h - 6 kg/h; mass flow monitoring and control



BEG 2000 C

Powder disperser with weighing unit for highest mass flows of approx. 350 g/h - 7.3 kg/h; automatic mass flow monitoring and control





Description

With automatic mass flow control The dosing unit on the BEG 2000 is continuously weighed for automatic mass flow control. The data from a touchscreen PC are continuously acquired and analyzed via a serial interface. As a result, the dispersed quantity of powder is always known and able to be automatically adjusted. Dosing output on the BEG 2000 controlled using internal firmware

- Input of the mass flow in g/h
- Automatic mass flow control
- Recording of powder-specific calibration curves
- External control via PC or Modbus RTU
- Network-compatible

Function The powder to be dispersed is simply poured into the reservoir (see Fig. 1). A stirrer at the bottom of the reservoir ensures uniform loading of the conveyor belt. A rabble arm and various built-in components in the reservoir prevent bridging in the reservoir.

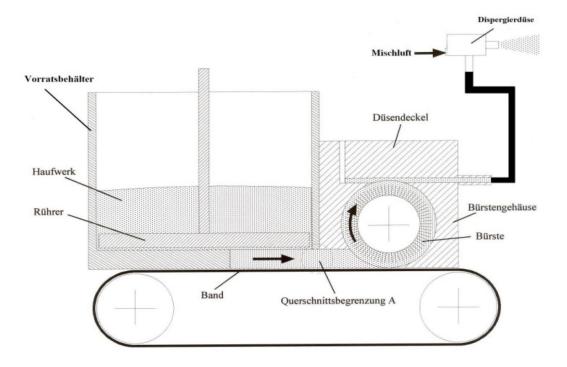


Fig. 1: Principle of operation of the BEG 1000/BEG 2000 **Dosing** The desired mass flows are able to be continuously and reproducibly adjusted with a controlled drive on the conveyor belt. The even, smooth conveyor belt, the built-in components in the reservoir, and the precise drive on the conveyor belt ensure excellent dosing constancy. Automatic readjustment is possible up to approx. 100 g/h. **Pulsed operation** The system can be operated in "powder"/"no powder" pulse mode with the "Stop" and "Belt" control keys and an electric timer switch in cycles of up to 5 sec, depending on the mass flow. **Dispersing** The ejector nozzles we developed provide excellent dispersion for various volume flows.





Benefits

- Excellent short-term and long-term dosing constancy
- Easy to operate
- Quick and easy to clean
- Remote control or computer-controlled
- Pulse mode
- Easy to fill while in operation
- Large reservoir (1500 cm³)
- Automatic mass flow control with the BEG 2000
- Robust design, proven in industrial applications
- Reliable function
- Reduces your operating expenses
- Low maintenance





Datasheet

Description
5 – 10 m ³ /h
115 – 230 V, 50 – 60 Hz
Non-cohesive powders and bulks
Several hours nonstop
ca. 10 ⁷ particles/cm ³
Type A: 8 g – 550 g/h (with reference to SAE Fine, A2 dust), Type B: 100 – 6,000 g/h (with reference to SAE Fine, A2 dust), Type C: 350 – 7,300 g/h (with reference to SAE Fine, A2 dust)
0.1 – 200 μm
random (generally air)
4 – 8 bar
Quick coupling
Type A: $Ø_{inside} = 6.4 \text{ mm}$, $Ø_{outside} = 10 \text{ mm}$, Type B: $Ø_{inside} = 8 \text{ mm}$, $Ø_{outside} = 12 \text{ mm}$, Type C: $Ø_{inside} = 6.2 \text{ mm}$, $Ø_{outside} = 10 \text{ mm}$
1,500 cm ³
500 g



Applications



- Filter industry:
 - Loading test of
 - * engine filters as per ISO 5011
 - * Hot gas filters
 - * Bag filters
 - * Air filters
 - * Cyclones
 - Engine crash tests
- Chemical and pharmaceutical industry
- Cement industry

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