



Generation of test aerosols from powder, dust, pollen, etc.;
mass flow approx. 8 g/h to 6 kg/h.

Model Variations



BEG 1000 A

Powder disperser with dispersing nozzle for low mass flows of approx. 8 g/h
– 550 g/h



BEG 1000 B

Powder disperser with dispersing nozzle for high mass flows of approx. 100
g/h – 6 kg/h



BEG 1000 C

Powder disperser with dispersing nozzle for highest mass flows of approx.
350 g/h – 7.3 kg/h

JKang

环境解决方案专家

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Description

Many applications in research, development, and quality assurance require solid particle aerosols from powders and dusts.

For over 20 years, the BEG 1000 has been successfully used for the reliable dispersion of non-cohesive powders, e.g. to generate test dusts, and flame soot within the size range of $< 100 \text{ nm} - 200 \text{ }\mu\text{m}$. The special advantage of this dispersion system is the fact that it is able to be used continuously with high dosing constancy for low mass flows of up to 8 g/h with the BEG 1000 A and for high mass flows of up to 6 kg/h with the BEG 1000 B. The special built-in components in the reservoir, the smooth conveyor belt, and the special ejector dispersion nozzle enable the BEG 1000 to provide a finely dispersed aerosol with optimal dosing constancy. **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.

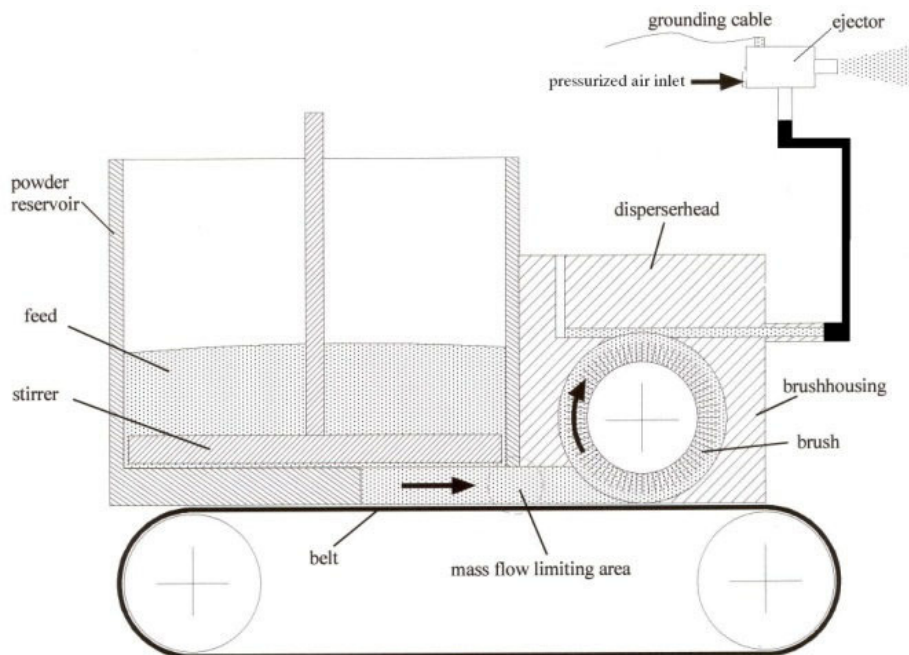


Fig. 1: Principle of operation of the BEG 1000/BEG 2000 **Dosing** The desired mass flows are able to be continuously and reproducibly adjusted with a controlled drive on the conveyor belt. The even, smooth conveyor belt, the built-in components in the reservoir, and the precise drive on the conveyor belt ensure excellent dosing constancy. **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
- Long dosing time over several days with the BEG 3000
- Robust design, proven in industrial applications
- Reliable function
- Reduces your operating expenses
- Low maintenance

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Datasheet

Parameter	Description
Volume flow	5 – 10 m ³ /h
Power supply	115 – 230 V, 50 – 60 Hz
Dimensions	610 • 260 • 340 mm (dosing unit), 195 • 260 • 340 mm (control unit)
Particle material	Non-cohesive powders and bulks
Dosing time	Several hours nonstop
Maximum particle number concentration	ca. 10 ⁷ particles/cm ³
Mass flow (particles)	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)
Particle size range	0.1 – 200 µm
Carrier/dispersion gas	random (generally air)
Pre-pressure	4 – 8 bar
Compressed air connection	Quick coupling
Aerosol outlet connection	Type A: Ø _{inside} = 6.4 mm, Ø _{outside} = 10 mm, Type B: Ø _{inside} = 8 mm, Ø _{outside} = 12 mm, Type C: Ø _{inside} = 8 mm, Ø _{outside} = 12 mm
Reservoir volume	1,500 cm ³
Filling quantity	500 g

Applications

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

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