

# BEG 1000



Many research, development, and quality assurance applications 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 unique advantage of this dispersion system is that it can be used continuously with high dosing constancy for low mass flows of up to  $8 \text{ g/h}$  with the BEG 1000 A and for high mass flows of up to  $6 \text{ kg/h}$  with the BEG 1000 B. The unique 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.

## 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 ( $1,500 \text{ cm}^3$ )
- Robust design, proven in industrial applications
- Reliable function
- Reduces your operating expenses
- Low maintenance

## 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

## MODEL VARIATIONS



### BEG 1000 A

Powder disperser with dispersing nozzle for low mass flows of approx.  $8 \text{ g/h}$  –  $550 \text{ g/h}$

<https://www.palas.de/product/beg1000a>



### BEG 1000 B

Powder disperser with dispersing nozzle for high mass flows of approx.  $100 \text{ g/h}$  –  $6 \text{ kg/h}$

<https://www.palas.de/product/beg1000b>

## DATASHEET

Particle size range	0.1 – 200 $\mu\text{m}$	Maximum particle number concentration	Ca. $10^7$ particles/ $\text{cm}^3$
Volume flow	80 – 165 $\text{NL}/\text{min}$	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)
Filling quantity	500 g	Power supply	115 – 230 V, 50/60 Hz
Particle material	Non-cohesive powders and bulks	Dosing time	Several hours nonstop
Pre-pressure	4 – 8 bar	Carrier/dispersion gas	Random (generally air)
Compressed air connection	Quick coupling	Aerosol outlet connection	Type A: $\varnothing_{\text{inside}} = 6.4 \text{ mm}$ , $\varnothing_{\text{outside}} = 10 \text{ mm}$   Type B: $\varnothing_{\text{inside}} = 8 \text{ mm}$ , $\varnothing_{\text{outside}} = 12 \text{ mm}$   Type C: $\varnothing_{\text{inside}} = 8 \text{ mm}$ , $\varnothing_{\text{outside}} = 12 \text{ mm}$
Reservoir volume	1,500 $\text{cm}^3$	Dimensions	Dosiereinheit: 610 • 260 • 340 mm (H • B • T), Steuereinheit: 195 • 260 • 340 mm (H • B • T)