BEG 3000

The refilling system, with a dosing unit and large storage container (see illustration), ensures continuous dispersion without interruption over several days.

For automatic mass flow control, the metering unit of the BEG 3000 is continuously weighed. The data is constantly recorded and evaluated by a touchscreen PC via a serial interface. Thus, the dispersed dust quantity is known continuously and can be automatically readjusted.

The following inputs can be made for the exact dosing of the aerosol: 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

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 cm^3)
- Long dosing time over several days with the BEG 3000
- Robust design, proven in industrial applications
- Reliable function
- Reduces your operating expenses
- Low maintenance

Applications

- 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

Model Variations

BEG 3000 A

Version with weighing unit for low mass flows of approx. 8 g/h – 550 g/h; mass flow monitoring and control with automatic refill unit

https://www.palas.de/en/product/beg3000a

BEG 3000 B

Version with weighing unit for low mass flows of approx. 100 g/h – 6 kg/h; mass flow monitoring and control with automatic refill unit

https://www.palas.de/en/product/beg3000b

BEG 3000 C

Version with weighing unit for highest mass flows of approx. 350 g/h – 7.3 kg/h; mass flow monitoring and control wit
matic refill unit

https://www.palas.de/en/prod

DATASHEET

Particle size range	0.1 – 200 μm
Maximum particle number concentration	Ca. 10^7 particles/cm^3
Volume flow	80–165 Nl/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	15,000 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: $Ø_{inside}$ = 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