BEG 2000



The BEG 2000 is equipped with automatic mass flow control. For this purpose, the dosing unit of the BEG 2000 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

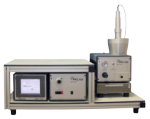
Benefits

- 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)
- Automatic mass flow control with the BEG 2000
- Robust design, proven in industrial applications

Applications

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

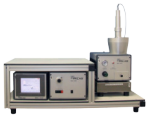
Model Variations



BEG 2000 A

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

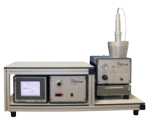
https://www.palas.de/en/product/beg2000a



BEG 2000 B

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

https://www.palas.de/en/product/beg2000b



BEG 2000 C

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

https://www.palas.de/en/product/beg2000c

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	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: $Ø_{inside}$ = 6.4 mm, $Ø_{outside}$ = 10 mm | Type B: $Ø_{inside}$ = 8 mm, $Ø_{outside}$ = 12 mm | Type C: $Ø_{inside}$ = 6.2 mm, $Ø_{outside}$ = 10 mm
Reservoir volume	1,500 cm^3