



GD¹

**Gravimetric drum dosing device
for micro injection moulding, injection moulding and extrusion**
Loss-in-weight metering for 2 additives

- For shot weights from 10 to 500 g
- Precision dosing drum technology
- No scrapers
- Stepper motor with encoder



Gravimetric Drum dosing device WD¹-3K

Gravimetric loss-in-weight metering – high repeat accuracy, no wear parts

DESCRIPTION

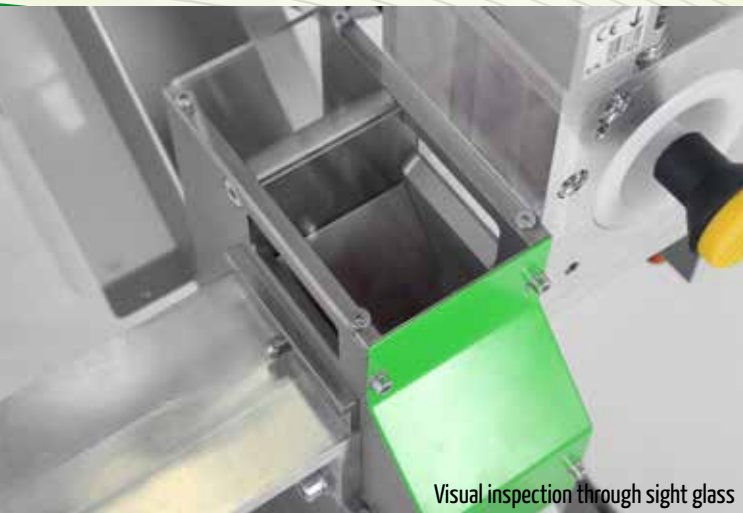
The unique drum dosing concept was developed especially for dosing free flowing materials. The special geometry of the exchangeable dosing drums and the speed adaptation allows precise metering of smallest quantities down to 0.1 g^{*1} per shot. Thanks to its high precision and repeat accuracy, the drum dosing system is ideally suited for shot dosing for injection moulding and micro injection moulding as well as continuous dosing on extruders. The use of different drum geometries allows a large dosing range from about 10 g/h to >300 kg/h^{*1}. Through the well thought out design, calibration and cleaning are quick and easy.

^{*1}: Per shot, depending on bulk density and grain size

Microcontroller GDx

- Dosing of up to 2 components
- Main component with gravity feed
- Intuitive operation with touch panel
- Meter
- External control module for conveying (optional)
- Modbus UDP interface
- Display can be mounted on device or in separate control cabinet
- Extrusion mode with 0-10 V input^{*2}

^{*2} available soon



Visual inspection through sight glass



3 components

Stainless steel/plastic drum

Range of drum geometries

Fast assembly and disassembly

Easy drum change



6 mm 12 mm 25 mm



Up to 45 mm





Benefits

- Up to 2 components can be metered
- Gravimetric loss-in-weight metering
- Automatic adaptation to material bulk density
- Gravimetric consumption measurement
- No wear parts (scrapers)
- Rapid emptying of batch/additive station for fast colour change and material savings
- Largely resistant to vibration and impacts
- Easy cleaning without tools
- Large dosing range through variable speed and drum geometries
- Continuous discharge – low pulsation

Optional extras

- External control module for vacuum conveying
- Controller can be fitted to device or externally
- Range of sizes available (small, medium, large)
- Doser housing/dosing drum in aluminium or stainless steel
- Potential-free fault alarm output
- High-temperature version^{*2}

^{*2} available soon



Precision dosing drum

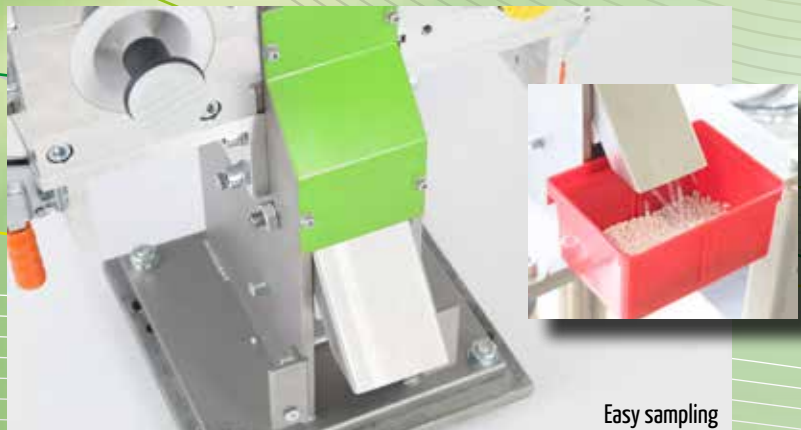
Technical data

Dosing capacity	1.0 g per shot up to >300 kg/h ^{*1}
Drum output, max. Drum channels 6-45 mm	<ul style="list-style-type: none"> • 6 mm up to 1 g/s • 12 mm up to 3 g/s • 25 mm up to 10 g/s • 45 mm up to 30 g/s
Drum	Optionally stainless steel, plastic (POM)
Stepper motor with encoder monitoring	51,200 steps per revolution (optionally 870.400 steps per revolution) Blockage detection through Hall sensor
Max. no. of dosing stations	3 (2 additive, 1 free inflow)
Electrical connection	230V AC, 50Hz

^{*1}: Per shot, depending on bulk density and grain size



Complete turnkey system



Easy sampling

Highly accurate weighing cells

Quick emptying without tools

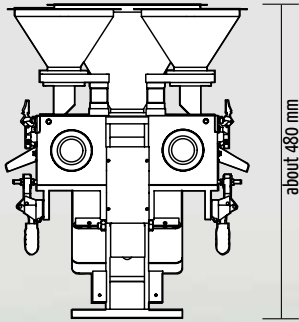
Control cabinet with status indicator

Display removable

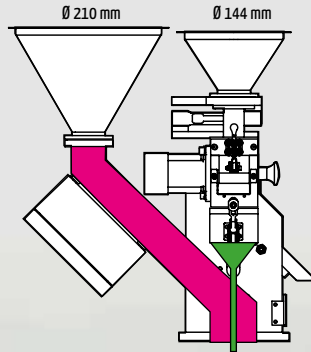




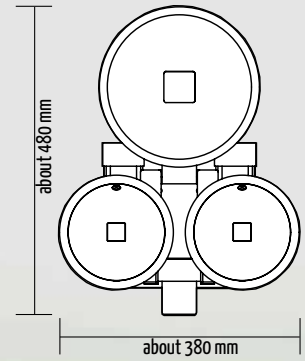
GD¹



FRONT



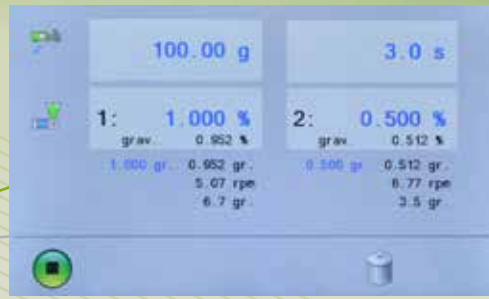
SIDE



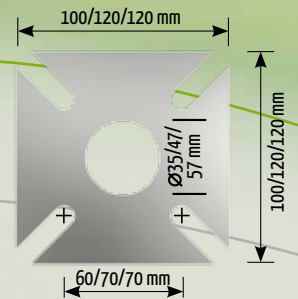
VIEW FROM ABOVE



Manual mode



Dosing value indication



Flange S, M, L, (adaptable)

Your link to the GD1



Service

Close contact and communication with our customers is important to us. Our service staff are highly familiar with our devices and the process technology used in plastics production.

We will be pleased to answer your questions. Just get in touch with us.

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