

Gravimaster GM 25

Dosing of dry, free-flowing
thermoplastic materials



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GRAVIMASTER Blending

The GRAVIMASTER dosing-blending system GM 25 is a large sized system designed for efficient dosing/blending of free-flowing thermoplastic materials. The GM 25 is suitable for large extruders, blow-moulding machines, and as central-blender to feed several processing machines where consistency and high quality of the finished product is required.

GRAVIMASTER records the exact consumption of all materials, allowing for a precise calculation of the production costs. Due to the high and consistent dosing accuracy, the additive percentage can be reduced to lower tolerance limits without rejects or a loss in quality.

The GM 25 is suited for dosing of virgins (granulate), free flowing regrind, master batch and various additives.

This large GRAVIMASTER system is usually installed on a stand with integrated vacuum take-off bin next to the processing machine. Owing to easy removable parts, a quick cleaning and material change is guaranteed.

Components are dosed after each other into the weigh-bin, which is supported by an accurate weighing system.

After weighing out the complete batch it is discharged into the mixing chamber and the horizontal mixer provide a consistent blend. A level sensor in the mixing chamber controls the complete blending cycle. The GM 25 is an economic and user-friendly blending system.

- Throughput: 1000-2750 kg/h*
- Components: 2 up to 10
- Different Control Systems
- Compact and Solid
- Auto-Pulse System

Technical Specification Accuracy

The system will weigh to an accuracy of 1/100 of a gram. Depending the interface, the display will show the weight of each component in 1 gram of 1 gram or 1/10 of a gram. (For user-interfaces please see separate documentation).

Configuration

Owing to the modular construction the GM 25 series can be supplied in 21 different configura-

tions, from 2 up to 10 components. The larger central hopper has an extra large outlet with 2 slide valves and can also be split up into 2 compartments. On the lid of this central hopper is space for two hopper loaders. All other hoppers are provided with slide valves, and, if required, 2 extra patented tube feeders can be mounted. All parts, being in contact with the raw materials, are made of stainless steel.

Installation Example

- On a stand with integrated take-off bin next to the processing machine
- Depending the space – on a support frame on - or above the machine
- As this system is not installed directly on a processing machine, an extra material control valve underneath the mixing chamber is recommended

Technical Data

Batch weight:	25 kg
Number of components:	From 2 up to 10
Throughput 2 comp.:	3210* kg/h
3 comp.:	2950 kg/h
4 comp.:	2725 kg/h
5 comp.:	2535 kg/h
6 comp.:	2365 kg/h
7 comp.:	2220 kg/h
8 comp.:	2090 kg/h
Content of central hopper:	190 L (or 2 x 95)
Contents of side hoppers:	99 L (max. 6 hoppers)
Contents feeder hopper:	25 L (tube feeder)
Contents of weigh-BIN:	32 L
Power supply:	400 V, 50/60 Hz (3P+N+PE)
Power consumption:	Max. 1.10 kW
Compressed air supply:	6 bar
Compressed air consumption:	+/- 250 NI/h
Dimension W x L x H:	1750 x 1750 x 2150** mm
Weight approx.:	400 kg**
Dimension stand/box:	1500 x 1500 x 730 mm
Contents of take-off box:	+/- 215 L

*) The throughput depends on the number of components, material characteristics, bulk density and percentages.

**) The dimension and weight depends on the configuration of the blender.

Subject to alteration without notice to ensure continuous improvement of design.

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