

Gravimaster GM 1.5

Dosing of dry, free-flowing
thermoplastic materials



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GRAVIMASTER Blending

The smallest GRAVIMASTER dosing-blending system GM 1.5 is designed for efficient and accurate dosing/ blending of dry, free-flowing thermo-plastic materials. The GM 1.5 is often used on injection moulding, extrusion, and blow-moulding 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 loss in quality.

The GM 1.5 is suited for dosing of virgins (granulate), free flowing regrind, master batch and/or additives. This blending system can be installed directly on the processing machine, on a platform or next to the processing machine. Owing to simple 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 provides a consistent blend. A level sensor in the mixing chamber controls the complete blending cycle. The GM 1.5 is an economic and user-friendly blending system.

- Throughput: 225-280 kg/h*
- Components: 2, 3 or 4
- 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 1.5 series can be supplied for dosing of 4 different

components. A pneumatic operated slide valve is mounted underneath each material hopper. Parts in contact with the raw materials are made of stainless steel. Depending the process, the GM 1.5 can be delivered with an economic touch screen plug-in interface (microprocessor controlled) or a sophisticated industrial PC with touch screen. All material hoppers can be equipped with low-level sensors for an additional warning (option). If necessary the system can be supplied complete with hopper loaders.

Installation Example

- Directly on the throat of a processing machine
- On a stand with vacuum take-off bin next to the processing machine
- With or without a stand on a platform
- If the system is not installed directly on a processing machine, an extra material control valve underneath the mixing chamber is recommended

Technical Data

Batch weight:	1.5 kg
Number of components:	4
Throughput 2 comp.:	280* kg/h
3 comp.:	250 kg/h
4 comp.:	225 kg/h
Content of material hoppers:	19 L
Content of mixing chamber:	7 L
Content of weigh-BIN:	5.5 L
Power supply:	240 V, 50/60 Hz
Power consumption:	0.15 kW
Compressed air supply:	6 bar
Compressed air consumption:	60 NI/h
Dimension W x L x H:	600 x 700 x 805 mm
Weight (excl. interface):	60 kg

*) 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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