

# Gravimaster GM 10

Dosing of dry, free-flowing  
thermoplastic materials



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## GRAVIMASTER Blending

The GRAVIMASTER dosing-blending system GM 10 is designed for efficient and accurate dosing/blending of dry, free-flowing thermoplastic materials. The GM 10 is often used on injection moulding, extrusion, and blowmoulding machines where consistency and high quality of the finished product is required.

Owing 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 result savings in additives leads to a direct reduction in reduction costs.

The GM 10 is suited for dosing of virgins (granulate), free flowing regrind, master batch and/or additives. This blending system can be installed on a platform a support frame over or a stand 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 10 is an economic and user-friendly blending system.

- Throughput: 750-1800 kg/h\*
- Components: 2 up to 7
- 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 GB 10 series can be supplied in 6 different configurations, from 2 up to seven hoppers all with slide valves. The larger central hopper has especially for dosing of large quantities and regrind materials an extra large outlet.

Parts in contact with the raw materials are made of stainless steel. Depending the process, the GM 10 can be delivered with an economic 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). A connection for an extra machine-hopper sensor is already provided in the control of the blender.

If necessary the system can be supplied complete with hopper loaders.

## Installation Example

- On a platform above the processing machine
- By means of a support frame on or over the processing machine
- Alternatively, as central blender on a stand with integrated vacuum take-off bin ext to the processing machine the mixing chamber is recommended
- 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:	10 kg
Number of components:	Max. 2 up to 7
Throughput 2 comp.:	2000* kg/h
3 comp.:	1750 kg/h
4 comp.:	1550 kg/h
5 comp.:	1410 kg/h
6 comp.:	1285 kg/h
7 comp.:	1180 kg/h
Content of central hopper:	88 L
Contents of side hopper:	56 L
Contents of weigh-BIN:	25 L
Power supply:	400 v, 50/60 hZ (3P+N+PE)
Power consumption:	Max. 0.55 kW
Compressed air supply:	6 bar
Compressed air consumption:	250 NI/h
Dimension W x L x H:	1370 x 1370 x 1675 mm**
Weight approx.:	300 kg**
Dimension stand/box:	1000 x 1000 x 630 mm
Contents of take-off box:	Approx. 110 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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