

# GRAVIMIX®

## FGB • 10

- Max. throughput:  
750 - 1800 kg/h\*
- Components:  
2 up to 7
- Different control  
systems
- Compact and solid
- 'Auto-Pulse' system

GRAVIMIX, more than 50 models available!



### Gravimetric blending

The GRAVIMIX dosing-blending system FGB-10, is a medium sized system and designed for efficient dosing of free-flowing thermoplastic materials. The FGB-10 is suitable for larger extruders, blow-moulding machines and as central-blender to feed several processing machines where consistency and high quality of the finished product is required.

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 resulting savings in additives leads to a direct reduction in production costs.

The FGB-10 is suited for dosing of virgins (granulate), regrinds, masterbatch and various additives. This GRAVIMIX blending system is usually installed on a platform, a support frame over or a stand next to the processing machine. Due 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 weigh system. After weigh out, the complete batch is discharged into the mixing chamber and the horizontal mixer provides a consistent blend. A level sensor in the mixing chamber controls the total dosing cycle. The FGB-10 is an economic, reliable and user friendly blending system.

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## Technical specification

### Accuracy

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

### Configuration

Due to the modular construction, the FGB-I0 series can be supplied in six different configurations, from two 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, which are in contact with the raw materials, are made of stainless steel. This systems can be delivered with an economic plug-in interface 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 next to the processing machines
- as this system is not installed directly on a processing machine, an extra material control valve underneath the mixing chamber is recommended

### Technical data

Batchweight (max)	kg	10
Number of components		2 up to 7
Max. throughput	kg/h	1800 – 750*
Contents of central hopper	liter	80
Contents of side hoppers	liter	50
Power supply	V/Hz	400, 50/60 (3P+N+PE)
Power consumption	kW	0.55 max.
Compressed air supply	Bar	6
Compressed air consumption	NI/h	± 250
Dimension W x L x H	mm	950 x 950 x 1115**
Weight app.	kg	300**
Dimension stand/box	mm	1000 x 1000 x 630
Contents of take-off box	liter	± 110

\* 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.*

