

# GRAVIMIX®

## FGB • 25

- Max. throughput:  
1000 - 2750 kg/h\*
- Components:  
2 up to 10
- Different control  
systems
- Compact and solid
- 'Auto-Pulse' system

GRAVIMIX, more than 50 models available!



### Gravimetric blending

The GRAVIMIX dosing-blending system FGB-25, is a large sized system and designed for efficient dosing of free-flowing thermoplastic materials. The FGB-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.

GRAVIMIX 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 FGB-25 is suited for the dosing of virgins (granulate), regrinds, masterbatch and various additives. This large GRAVIMIX system is usually installed on a stand with integrated vacuum take-off bin next to the processing machine. Due 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 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 for the mixing chamber controls the total dosing cycle. The FGB-25 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-25 can be supplied in twenty-one different configurations, 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 hopperloaders. All other hoppers are provided with slide valves and, if required, 2 extra patented tube feeders can be mounted. All parts, which are in contact with the raw materials, are made of stainless steel.

This system is supplied as standard with a sophisticated industrial PC and touch-screen display (user-interface). 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 stand with integrated take-off bin next to the processing machine
- dependent on the space, on a support frame on or over the machine
- as this system is not installed directly on a processing machine, two extra material control valves underneath the mixing chamber are recommended

### Technical data

|                            |       |                      |
|----------------------------|-------|----------------------|
| Batchweight (max)          | kg    | 25                   |
| Number of components       |       | from 2 up to 10      |
| Throughput                 | kg/h  | 2750 – 1000*         |
| Contents of central hopper | litre | 160 (or 2 x 80)      |
| Contents of side hoppers   | litre | 70 (max 6 hoppers)   |
| Contents feeder hopper     | litre | 25 (tube feeder)     |
| Power supply               | V/Hz  | 400, 50/60 (3P+N+PE) |
| Power consumption          | kW    | 1,10 max.            |
| Compressed air supply      | Bar   | 6                    |
| Compr. air consumption     | NI/h  | ± 250                |
| Dimension W x L x H        | mm    | 1750 x 1750 x 2150** |
| Weight app.                | kg    | 400**                |
| Dimension stand/take-off   | mm    | 1500 x 1500 x 730    |
| Contents of take-off box   | litre | ± 220                |

\* 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.*

