

Lime Dosing

Micro-Batch Feeders MBF

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Description ▼

The MBF Micro-Batch Feeder for continuous volumetric feeding of powdery materials consists of a casing entirely manufactured from stainless steel or steel-reinforced SINT® engineering polymer body, a horizontally mounted rotating agitator tool, a feeder screw beneath the agitator tool, a feeder pipe enclosing the protruding feeder screw, as well as one drive unit each for agitator and feeder screw.

Function ▼

MBF Micro-Batch Feeders are particularly suitable for poorly flowing materials which tend to clog, as well as for adhesive products. Fed through a bag opening hopper, a bulk bag discharger, or another feeding device, the agitator tool manages to keep the material flowing, reducing at the same time the possibility of formation of lumps or bridges. The size of the material particles is of utmost importance when choosing the type of feeder screw. Poorly flowing materials with cohesion or bridging problems are homogeneously fed into the feeding zone by the blending or agitator shaft which is shaped according to the product properties. Depending on the user's individual requirements, the MBF Micro-Batch Feeder can be supplied with alternative feeder screws and blending tools and with various accessories.



Application ▼

MBF, which come in various configurations, are suitable for feeding of granules or powders. Flexible design features enable feeding of lime, flocculants, polyelectrolyte or additives in general. A typical position within the plant is on top of a sludge conditioner or as part of a polyelectrolyte dosing station.

Benefits ▼

- ✓ Easy integration into the plant;
- ✓ Feeding of different additives with the same unit thanks to interchangeable components;
- ✓ Small number of parts ensures easy and quick maintenance;
- ✓ Independent drives for agitator and feeder tool leave all options open in terms of drive power and tool speed;
- ✓ Process reliability thanks to back-up by WAMGROUP® test labs;
- ✓ High degree of homogeneity of fed material due to blending/agitating tool;
- ✓ Easy and quick internal cleaning thanks to engineering SINT® polymer non-stick surface and quick-access inspection panel.

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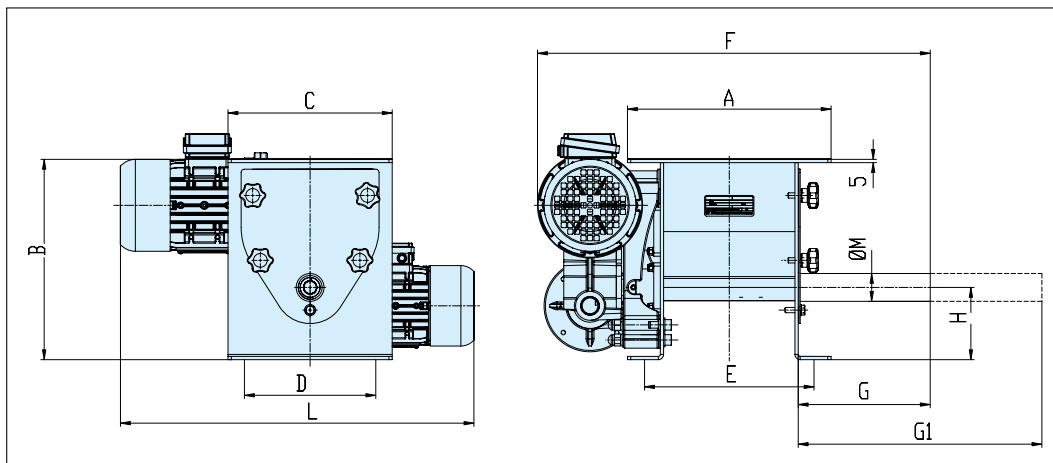
Micro-Batch Feeders MBF



Technical Features / Performance ▼

- ▶ Wide range of interchangeable machine components
- ▶ Suitable for powders or granular materials
- ▶ Compact design, small footprint
- ▶ 3 sizes available with feed rates ranging from 3 dm³/h to 4,000 dm³/h
- ▶ Agitator and feeder tool with independent drives
- ▶ Internal geometry guarantees smooth feeding of particularly difficult materials
- ▶ No residue dead spaces
- ▶ Quick-access inspection panel available on stainless steel units
- ▶ Contact surfaces in SINT® engineering polymer or 304 SS (316 option)
- ▶ Different types of shaft seals

Overall Dimensions ▼



| MBF | A | B | C | D | E | F | G | G1 | H | L | M | N | dm ³ | kg |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----------------|-----|
| 042 | 310 | 295 | 250 | 200 | 253 | 595 | 200 | 370 | 100 | 535 | 42 | 12.5 | 5 | 40 |
| 073 | 464 | 486 | 390 | 305 | 410 | 855 | 250 | 500 | 135 | 600 | 76 | 12.5 | 28 | 105 |
| 114 | 464 | 486 | 390 | 305 | 410 | 855 | 250 | 500 | 135 | 600 | 114 | 12.5 | 35 | 110 |

Dimensions in mm

This datasheet does not show the complete range but only the models most suitable for the application.