

Plastics Processing

Loss-in-Weight Feeding System - MBF+BE



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Description ▼

MBF and BE Loss-In-Weight Screw Feeders consist of a steel-reinforced SINT® engineering polymer body (optionally body entirely manufactured in stainless steel), a horizontally mounted rotating agitator tool, a feeder screw beneath the agitator tool, a feeder pipe enclosing the protruding feeder screw, one independent drive unit each for agitator and feeder screw and an optional electronically operated scale pan mounted on load cells.

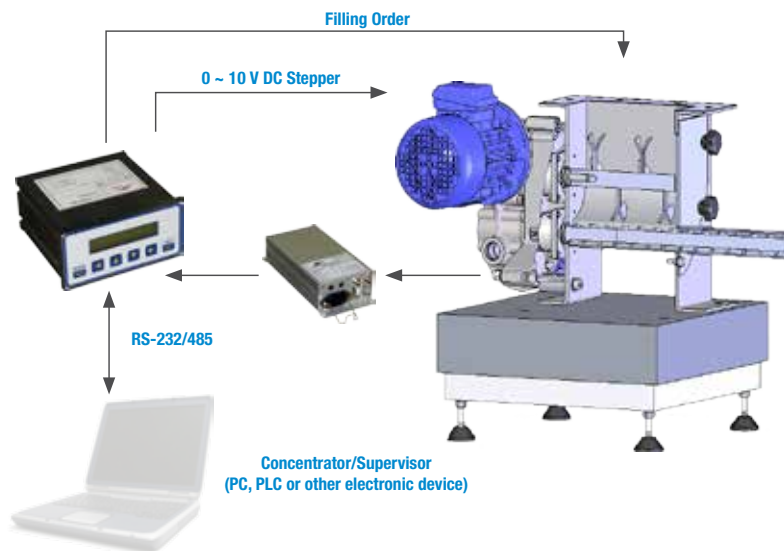
The system is able to assess any variation in weight in time adjusting the feedrate by varying the speed of both discharging and feeding device.

Function ▼

Wherever powders or granular materials have to be continuously fed and metered, MBF-BE type Loss-In-Weight Screw Feeders offer exceptional operating versatility due to a highly precise metering performance and excellent user-friendliness.

MBF series Micro-Batch Feeders for powder and granular product feeding are particularly suitable for poorly flowing materials which tend to clog, along with adhesive products. Poorly flowing products with cohesion or bridging problems are homogeneously fed into the feeding zone by the blending shaft which is shaped according to the product properties.

Depending on the users individual requirements, MBF Micro-Batch Feeders can be supplied with alternative feeder screws and blending tools and with various accessories.



Applications ▼

Loss-in-weight system, which come in various configurations, are suitable for feeding of granules, flake or powders. Design flexibility enables feeding of resins, both in powdery or granular form, charges, fibers and additives.

Typical areas of application are compounding and masterbatch lines, coating, extrusion and blow moulding. Typical positions within the plant are on weighing scales for loss-in-weight installations next to the extruder, granulator or compounding system. Furthermore, they are positioned inside dosing stations on top of weighing scales upstream of turbo-mixers.

Benefits ▼

- ✓ Simplification of automation of the feeding process;
- ✓ Quick integration into new or existing production processes;
- ✓ Suitable for installations in a battery configuration;
- ✓ Easy to use, clean and maintain;
- ✓ Minimum downtime during product change;
- ✓ Highly reliable and durable;
- ✓ Functional assessment in WAMGROUP®'s own test facility based on decades of experience in bulk solids feeding and metering;
- ✓ Attractive price.

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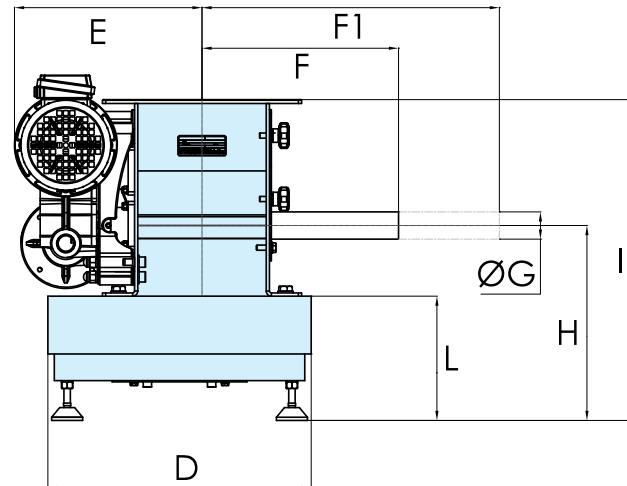
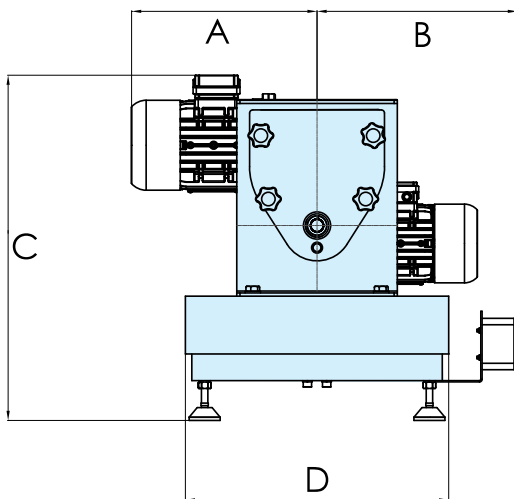
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Technical Features / Performance ▼

- ▶ Continuous real-time controlling and adjustment depending on material weight and flow;
- ▶ Feeding accuracy between 0.5 and 1%;
- ▶ Sturdy, compact system with contact surfaces manufactured from suitable construction materials;
- ▶ Interchangeability of standard components and accessories within the feeder range;
- ▶ Micro-Batch Feeder available with ATEX-certification;
- ▶ Feed hoppers having different geometry and volume

Overall Dimensions ▼



MODEL	A	B	C	D	E	F	F1	Ø G	H	I	L
042	298	312	538	410	292	306	476	42	304	500	194
073	335	372	570	510	417	435	685	76	333	685	199
114	335	372	589	510	417	435	685	114	333	703	199

Dimensions in mm

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