



Loss-in-weight
micro-dosing scale /
Volumetric feeder.
MSDC / MZMC.

Micro-dosing units MSDC / MZMC.

Versatile micro-dosing solution.

The MSDC / MZMC are systems designed for accurate dosing of micro-ingredients such as vitamins, ascorbic acid, dry gluten, egg powder, sugar and salt, amongst others. The solutions boast a broad range of throughput capacities.

For accurate control of the addition of micro-ingredients in a continuous product stream, Bühler offers its micro-dosing solutions: the MSDC and the MZMC. The MSDC is a loss-in-weight scale; therefore the dosing is gravimetric. The MZMC is a volumetric dosing unit. Both solutions are based on a “single-screw” design principle to accurately weigh small batches in the batch mode as specified by the product recipe. The modular combination of screw types and sizes allow for throughput capacities ranging from 0.75 l/h to 240 l/h.

Advantages at a glance:

- Accurate feeding
- Outstanding sanitation
- High flexibility
- Wide throughput range



Accurate feeding.

- The geometry of the loss-in-weight scale is optimally suited to the feed process. This ensures a high consistency of the feed rate.
- High grade load cells ensure maximum feed rate accuracy.
- A rugged load cell fastening system guarantees stable and thus reliable weighing cycles.
- The Bühler MEAG universal control unit helps ensure maximum accuracy.

Outstanding sanitation.

- Optimized design prevents formation of dust zones.
- Machine elements can be removed for a quick and easy cleaning.
- Stainless steel design.

High flexibility.

- The modular design allows the volumetric feeder to be converted into a loss-in-weight scale within a very short time.
- The screw offers configurations for a wide variety of applications. This allows flexibility, as adjustments can be made to the specific application range in question.

Wide throughput range.

- A frequency-converter-controlled drive ensures that the maximum throughput range is fully utilized at all times.
- The modular design allows the system to be adjusted to the required throughput range.

Volumetric and gravimetric feeding. **Accurate dosing and high flexibility.**

Technical data.

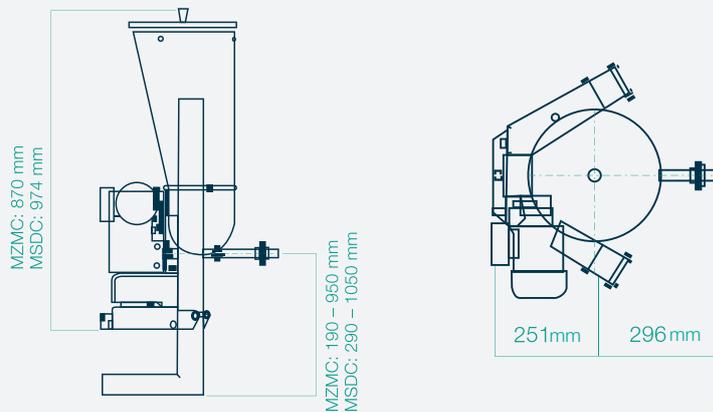
Type		Capacity Range (dm ³ /h)* Belt set**		
		36:36	36:18	54:18
MZMC- 20/1		0.75 - 12.7	0.94 - 25.3	1.40 - 37.3
		0.75 - 6.8	0.75 - 13.1	0.80 - 19.8
		0.75 - 3.1	0.75 - 6.2	0.75 - 8.9
MSDC - 20/1		0.75 - 12.4	0.94 - 24.6	1.40 - 36.2
		0.75 - 6.5	0.75 - 12.7	0.80 - 19.0
		0.75 - 3.0	0.75 - 5.9	0.75 - 8.5
MZMC - 32/1		3.3 - 84.2	6.6 - 164	9.5 - 239
		1.7 - 39.8	3.0 - 76.9	4.7 - 114
		0.75 - 18.0	1.4 - 35.0	2.1 - 50
MSDC - 32/1		3.6 - 80.7	6.6 - 155	9.3 - 228
		1.7 - 38.3	3.4 - 73.9	5.1 - 108
		0.75 - 17.0	1.6 - 33.0	2.3 - 48

* Product-dependent approximate values

** Belt pulley of and twin screw can be exchanged

Gravimetric feeding **MSDC**

Volumetric feeding **MZMC**



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