

Micro-feeder/  
Micro-differential  
proportioning  
scales.

**MZMO/MSDF.**

# Precise proportioning. **High accuracy.**



MSDF-S, MZMO-S.



MSDF-R, MZMO-R.



MSDF-A.

## **MZMO micro-feeder and MSDF micro-differential proportioning scale.**

The MZMO micro-feeder is applied for consistent volumetric proportioning of micro-ingredients such as vitamins, ascorbic acid, dry gluten, egg powder, as well as flavoring agents and colorants, etc. The MSDF micro-differential proportioning scale gravimetrically controls the addition of micro-ingredients according to the capacity range selected, and this with very high accuracy and with a continuous flow of product. Different models provide dosing of freeflowing or non-freeflowing ingredients.

- Precise weight measurement by the proportioning scale on the basis of the differential principle
- High sanitation, easy removal of the parts in contact with the product
- Broad range of applications with wide variation of proportioning range
- Trouble-free operation thanks to streamlined geometry
- Easy-to-use control system, electronic weighing system with analog and serial standard interfaces
- Easy to integrate in networks with master systems

## **Versions.**

### **MSDF-S, MZMO-S** (S=Standard)

- For freeflowing ingredients and low throughput requirement
- Refilling manually or with screw feed
- Simple configuration

### **MSDF-R, MZMO-R** (R=Refill)

- For both, freeflowing and non-freeflowing ingredients with integrated buffer hopper
- Refilling manually, with screw feed, pneumatics or gravity spouting

### **MSDF-A** (A=Agitator)

- For both, freeflowing and non-freeflowing ingredients
- For very high throughput range
- Refilling manually or with screw feed
- Large cleaning aperture
- Optional with agitator for non-freeflowing ingredients

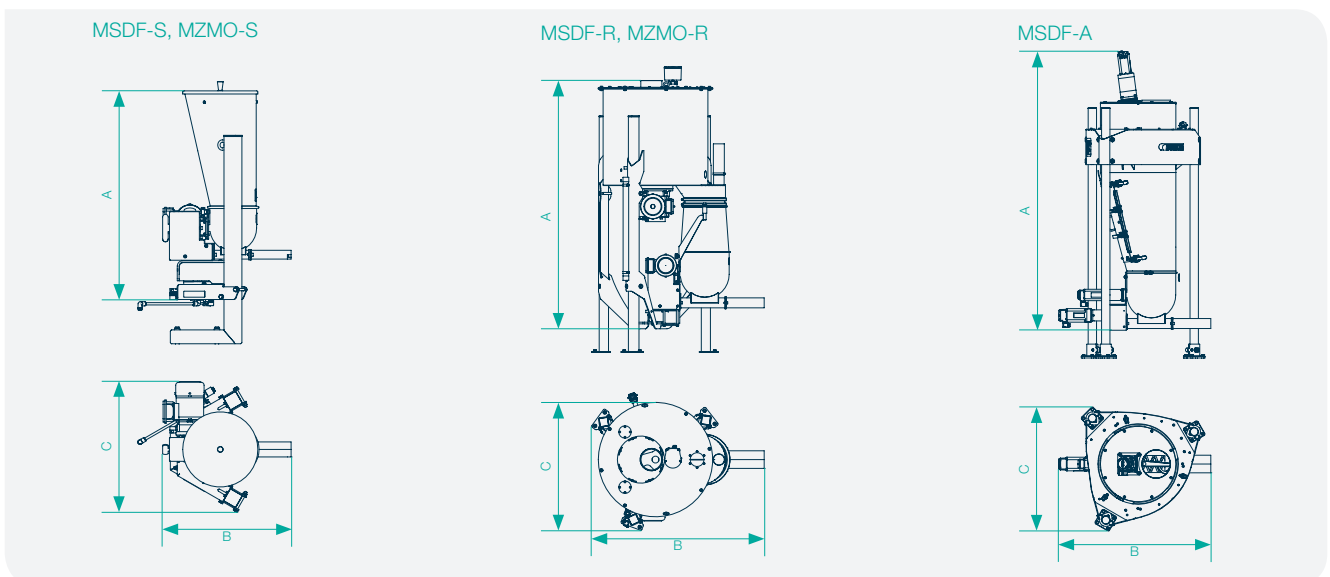
# Good sanitation. Reliable operation.

Technical data of the Micro-feeder and Micro-differential proportioning scales MZMO/MSDF at a glance:

	Throughput range <sup>2)3)</sup> dm <sup>3</sup> /h	Dimensions mm			Approx. weights kg net
		A	B	C	
<b>MSDF-S<sup>1)</sup>, MSDF -R<sup>1)</sup></b>					
MSDF-20S	0,75-120	900	560	565	70
MSDF-20R	0,75-120	1175	820	775	144
MSDF-32S	4,3-500	900	555	565	70
MSDF-32R	4,3-500	1175	820	775	144
MSDF-65R	300-2000	1790	1245	920	320
<b>MZMO-S, MZMO-R</b>					
MZMO-20S	0,75-128	900	560	565	50
MZMO-20R	0,75-128	1175	820	775	136
MZMO-32S	4,2-900	900	555	565	50
MZMO-32R	4,2-900	1175	820	775	136
MZMO-65R	300-9000	1790	1245	920	320
<b>MSDF-A<sup>1)</sup></b>					
MSDF-20A	0,75-128	1620	770	700	170
MSDF-32A	2,0-900	1620	765	700	170
MSDF-65A	60-6000	2035	1110	890	245

<sup>1)</sup> S=Standard / R=Refilling / A=Agitator    <sup>2)</sup> Approx. values dependent upon product for twin spiral screw conveyors

<sup>3)</sup> Models MSDF-20/32S/R et MZMO-20/32S/R require different belt sets to cover the throughput range



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