

# Differential Proportioning Scale.

MSDA/MWBO



# Accurate measurement of the total weight. High sanitation.



**Transflowtron differential proportioning scale** – for measuring and controlling a non-freeflowing product stream.

## Wide range of applications

The MSDA/MWBO differential proportioning scale allows continuous processes of flour, semolina, or bran to be accurately measured and controlled. On the one hand, the differential proportioning scale can be used as a mass flowmeter, to measure the weight and the throughput of a given product stream. On the other hand, applied as a mass flow controller, it enables a freely selectable throughput to be accurately achieved; in this case, the total weight of the material is measured. In addition to its application as a check scale, this unit can also be used for producing blends and for providing a preselected quantity of material in a production process. With throughput capacities ranging from 0.2 m<sup>3</sup>/h to 60 m<sup>3</sup>/h, the MSDA covers a wide span of throughputs.

## Maximum measuring accuracy

- The MEAG universal control system with its intelligent weighing algorithms guarantees accurate proportioning results.
- The three-point suspension of the weigh hopper ensures a high stability of the weighing cycle.
- The high-grade load cells guarantee top measuring accuracy.

## Ideal design for high sanitation

The optimal design of all components in contact with the product essentially rules out any dust traps. A crucial factor for ensuring a high product purity.

## Low maintenance requirement

- Since the MSDA/MWBO differential proportioning scale does not have any lubrication points, the maintenance requirement is reduced.
- The easy-to-exchange system components can be quickly and easily replaced as required.
- The use of particularly high-grade seals has a positive impact on the life cycle of the bearings.

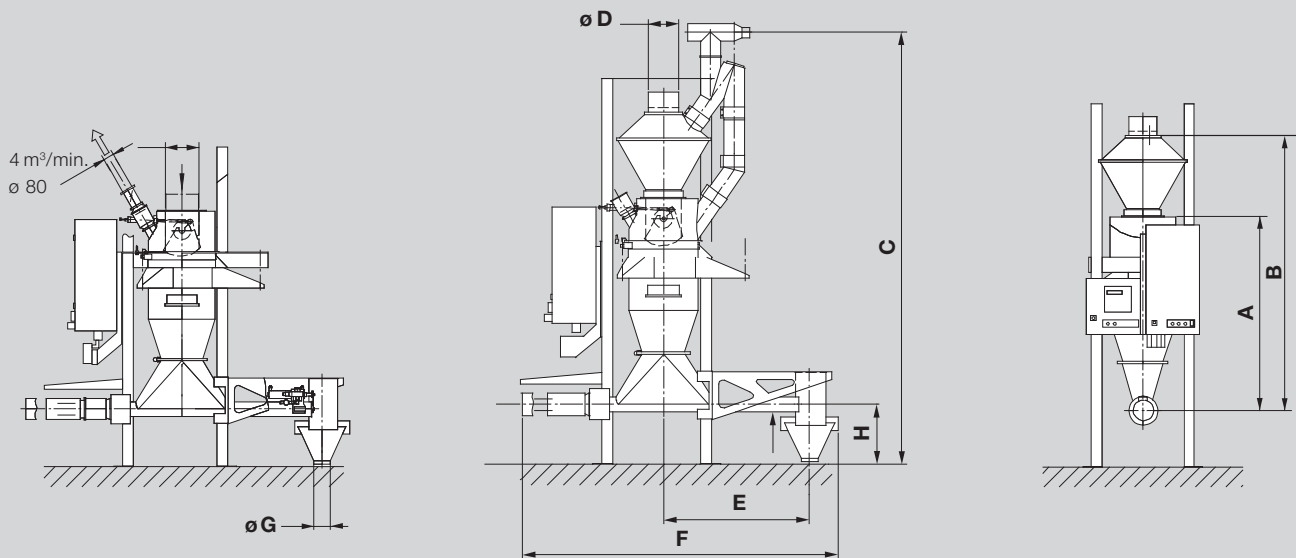
## Maximum throughput with high uniformity of proportioning

- The components of the MSDA are designed on a product-specific basis. This allows maximum throughputs with a high uniformity of proportioning for a wide range of applications.
- The optimized product flow inside the scale additionally enhances the uniformity of proportioning.
- The equipment of the MSDA/MWBO differential proportioning scale includes a frequency-controlled drive, which allows optimal control of the throughput.

## Features

- Highest measuring accuracy
- Top hygiene
- Minimum maintenance
- High throughput capacity

# Continuous throughput. Easy operation and maintenance.



## Technical data, dimensions (mm), weights

Model		A	B	C	D	E	F	G	H	Compr. air m³/h*	Weight in kg	Volume m³
MSDA-100/100	R	1505	–	–	250	1070	2313	120	440	0.5	310	4
	M	–	2176	2765	200	1070	2313	120	440	1.3	345	4
MSDA-100/125	R	1505	–	–	250	1070	2376	120	440	0.5	370	4
	M	–	2175	2765	200	1070	2376	120	440	1.3	405	4
MWBO-140/160	R	1582	–	–	250	1270	4340	150	613	0.6	485	4
	M	–	2868	3481	200	1270	4340	150	613	1.3	550	4
MWBO-280/200	R	2005	–	–	300	1310	2800	200	618	1.2	570	4
	M	–	3343	4117	200	1310	2800	200	618	2.6	660	4
MWBO-350/250	R	2291	–	–	300	1290	2760	250	231	1.2	690	4
	M	–	3784	4464	250	1290	2760	250	231	1.2	795	4

\* Based on cleaned and dry wheat (H<sub>2</sub>O < 14%) with a loose bulk density of 0.75 t/m³  
R = Controller M = Meter

Model	Bakery flour, stored Specific bulk density t/m³ ≥ 0.5		Bisquit flour, stored Specific bulk density t/m³ ≥ 0.4		Semolina/middlings Specific bulk density t/m³ ≥ 0.6		Bran Specific bulk density t/m³ ≥ 0.22		Feedmeal Specific bulk density t/m³ ≥ 0.45	
	Throughput* as		Throughput* as		Throughput* as		Throughput* as		Throughput* as	
	Flow controller t/h	Flowmeter t/h	Flow controller t/h	Flowmeter t/h	Flow controller t/h	Flowmeter t/h	Flow controller t/h	Flowmeter t/h	Flow controller t/h	Flowmeter t/h
MSDA-100/100	0.1–3.0	0.1–2.2	0.1–2.4	0.1–1.8	0.12–3.6	0.12–2.7	–	–	0.1–2.7	0.1–2.0
MSDA-100/125	0.15–4.5	0.15–3.3	0.15–3.6	0.15–2.7	0.18–5.5	0.18–4.0	–	–	0.15–4.0	0.15–3.0
MWBO-140/160	0.5–15.0	0.5–11.0	0.4–12.0	0.4–8.8	0.6–18.0	0.6–13.3	0.22–6.6	0.22–4.8	0.5–13.5	0.5–10.0
MWBO-280/200	1.0–30.0	1.0–30.0	0.8–24.0	0.8–24.0	1.2–36.0	1.2–36.0	0.44–13.2	0.44–13.2	1.0–27.0	0.8–27.0
MWBO-350/250	1.5–45.0	1.5–45.0	1.2–36.0	1.2–36.0	1.8–54.0	1.8–54.0	0.66–19.8	0.66–19.8	1.5–40.0	1.2–40.0

\* Throughput giving consideration to the bulk density with vector-controlled frequency converter.

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