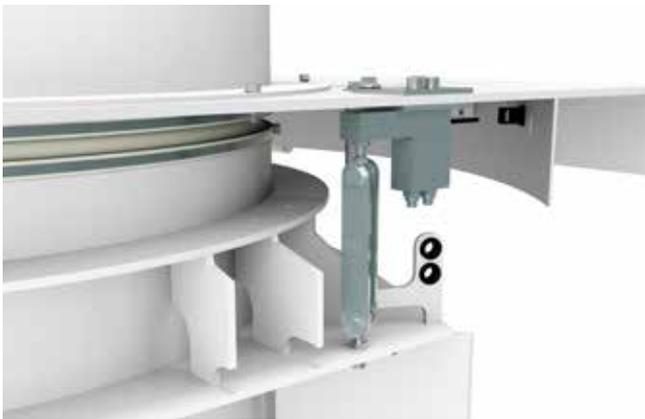


Automatic
Hopper Scale
MSDM

Top-level weighing

Low maintenance – high sanitation

The MSDM automatic hopper scale may be applied to in-plant process checking by weighing granular and powdery products. Its integrated sensor system ensures optimal operating reliability and top accuracy. Its throughput capacity ranges from 0.5 m³/h to 360 m³/h, depending on the size of the specific model.



Accurate weights

The weigh hopper is suspended directly by three electronic rod-type force transducers. This design helps achieve high inherent stability and extremely accurate electronic weight registration. This mode of actual weight registration eliminates the need for applying expensive and complex feeders.

The scale can be used for both weighing applications requiring official calibration and those without this requirement.

High operating reliability

Machine components exposed to especially high wear and tear are made of wear-resistant materials. They ensure a long service life of the weighing system and minimize its maintenance costs.

The hygienic design contributes substantially to increasing the product quality and food safety. The jacketless design of the scale prevents undesirable dust deposits, ensuring high sanitation.

Wide throughput capacity range

Accurate weights



Oats



Soybeans



Corn (maize)



Wheat



Flour



Rice

Customized design

The MSDM can be tailored to specific customer needs on the basis of additional components. Different design versions of the feed and discharge hoppers are available for granular and powdered products plus products causing wear and those that do not.

Wide variety of applications

The MSDM automatic hopper scale has been designed for in-plant process checking of different products such as flour, wheat, rye, corn (maize), barley, oats, soybeans, etc.

Benefits

- High throughput capacities
- High weighing accuracy
- Food safety thanks to a high level of sanitation
- Low maintenance costs thanks to low maintenance requirement
- High operating reliability

MSDM 40-300

Perfect solution for efficient production

The MSDM 40-300 automatic hopper scales is designed for a throughput capacity range of 12 to 90 m³/h.



Application

The highly accurate determination of the weight of raw materials and finished products at every production and processing point in the food and feed industries is a prerequisite for achieving efficient production at optimized cost. The MSDM automatic hopper scale offers the perfect solution to this end. It has been designed for weighing free-flowing to non-free-flowing bulk materials.

The MSDM 400-300 hopper scale is designed for a capacity range of 12 to 90 m³/h. It can be used in applications requiring official calibration as well as those without such a requirement.



Control system

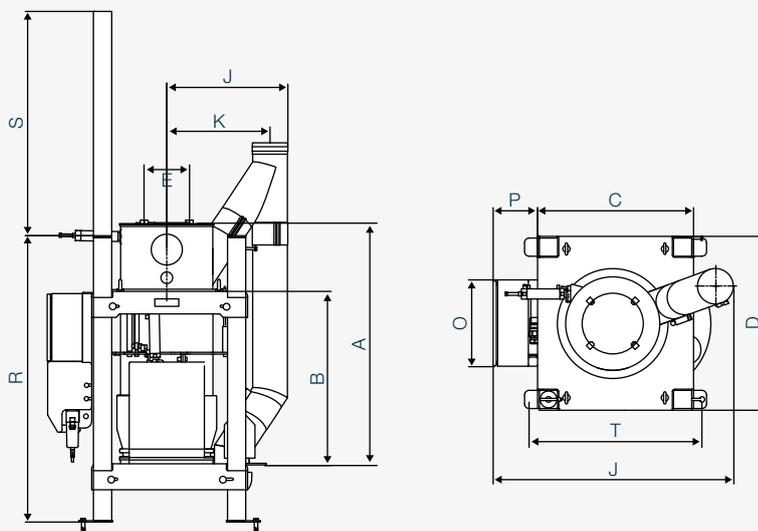
The MSDM scale is equipped with a state-of-the-art local control system. Operating parameters are transmitted to higher-level process control systems.

MSDM 40-300

Technical data / dimensions

Technical data MSDM 40-300:

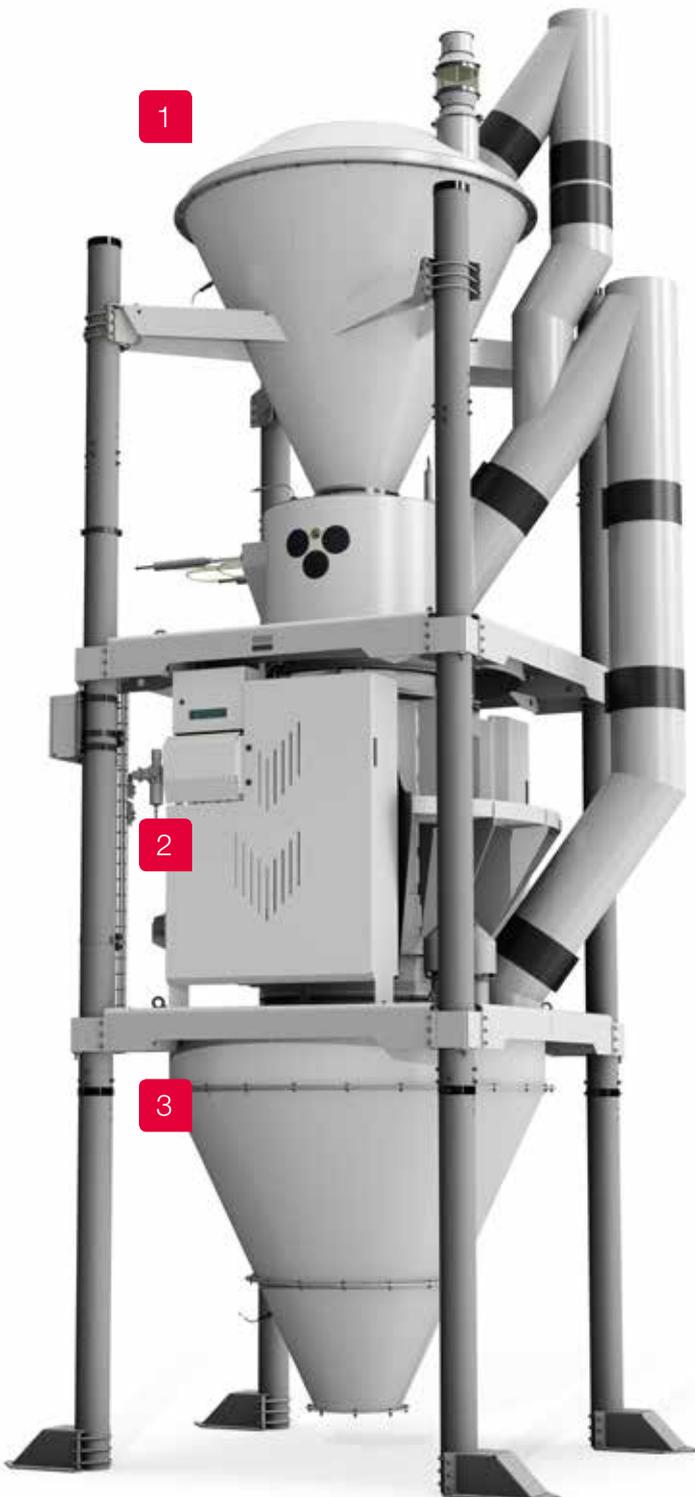
		MSDM-40	MSDM-80	MSDM-120	MSDM-160	MSDM-240	MSDM-300
Max. throughput	m ³ /h	12	24	36	48	72	90
Net dumping volume	l	40	80	120	160	240	300
Compressed air requirement	Nl/dump	7,1	7,1	19,7	27,6	33,8	50,4
Power input	W	70	70	70	70	70	70
Floor loading (without feed and discharge hoppers)	kg	212	230	370	385	425	450
Net weight	kg	212	230	370	385	425	450
A Height	mm	1073	1193	1412	1580	1837	2050
B Length	mm	771	1091	1008	1176	1433	1646
C Width	mm	685	685	850	850	850	850
D	mm	770	770	950	950	950	950
EØi	mm	200	200	300	300	300	300
J	mm	532	532	732	732	732	732
K	mm	454	454	629	629	629	629
O	mm	384	384	384	384	384	384
P	mm	195	195	195	195	195	195
R max.	mm	1268	1614	1408	1784	1784	2254
S max.	mm	2030	2030	2030	2030	2030	2030
T	mm	759	759	924	924	924	924



MSDM 600-1200

Functional design

The MSDM 600-1200 automatic hopper scale is designed for a throughput range of 180 m³/h to 360 m³/h.



Application

The MSDM 600-1200 hopper scale is designed for weighing powdered (e.g. flour) and granular (e.g. wheat, rye, corn (maize), soybeans) bulk materials in a range of 180 to 360 m³/h. It can be used in applications requiring official calibration as well as those without this requirement.

1 Feed hopper

The feed hopper ensures continuous feed of the product to the scale. High-level sensors automatically control the optimal filling level. Versions are available for products causing wear as well as non-wearing products.



2 Scale

The heart of the system is the scale. It ensures highly accurate weights. The weigh hopper is suspended at three points. This ensures a high stability of the weighing cycle.

3 Discharge hopper

Specially designed wear inserts enable the discharge hopper to be used for granular or powdered products.



MSDM 600-1200

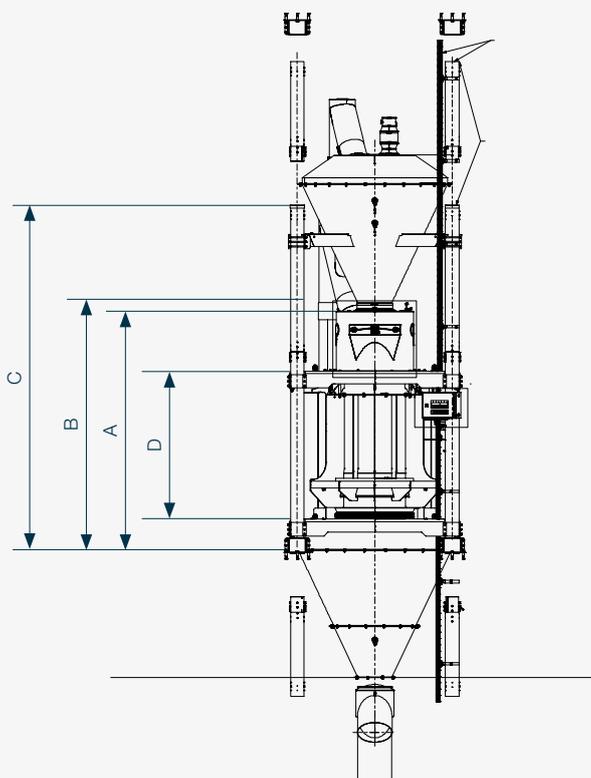
Technical data / dimensions

Technical data MSDM 600-1200:

			MSDM-600	MSDM-900	MSDM-1200
Max. throughput		m ³ /h	180	270	360
Compressed air requirement		NI/h			
Wheat, rye, soybeans (loose bulk density $\gamma = 0,75 \text{ t/m}^3$)	Net dumping volume	kg	450 * ²	675 * ²	900 * ¹
		t/h	135	202,5	270
Corn (maize), barley, pellets (D 8 x 15 mm), semolina, middlings (loose bulk density: $\gamma = 0,6 \text{ t/m}^3$)	Net dumping volume	kg	360 * ²	540 * ²	720 * ¹
		t/h	108	162	216
Oats, flour (standard, stored)	Net dumping volume	kg	300 * ²	450 * ²	600 * ¹
		t/h	90	135	180
Bran	Net dumping volume	kg	130 * ²	195 * ²	260 * ¹
		t/h	39	58,5	78
A		mm	2832	3105	3317
B		mm	3120	3400	3600
C		mm	4123	4403	4603
D		mm	1755	2028	2240

*¹ Loose bulk density max. 1,2 t/m³

*² Loose bulk density max. 1,0 t/m³



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