Granex silo scale. **MSDT.**

Innovations for a **better world.**



Granex silo scale. Intake, transfer and loading scale.

The Granex MSDT is an automatic, discontinuous, totalizing hopper scale without any jacketing. It can be used as a receiving (intake), transfer and loading scale for various products such as wheat, rye, corn, barley, oats, soy and so on. The throughput range is from 85 - 800 t/h (bran) and 130 - 1200 t/h (wheat).



Corn (maize)





Barley



Rice



Oats



Soy

Unique properties.

The Granex MSDT silo scale meets the international OIML R107 guidelines regarding accuracy, resolution, and explosion protection (ATEX Zone 22). Communication with the control system and printers made with different interfaces (RS-485, Profibus DP). Various analog and digital inputs and outputs are available.

Granex silo scale. Weighing at the highest level.



Granex silo scale as a intake, transfer or loading scale.

Control.

The MSDT scale has a modern local control system. Operating parameters are passed on upon connection to higher level control systems (mill control).



Features:

- High throughputs with excellent accuracy
- High stability thanks to cilindrical construction
- Maximum hygiene thanks to minimal dust accumulation zones
- Maintenance-friendly thanks to good accessibility to all electric, pneumatic and electronic components
- Easy, flexible installation options thanks to fastening elements with adjustable height
- Wear protection elements for highly abrasive products

Granex silo scale. Excellent accuracy

Structure.

The Granex MSDT silo scale is built with the following elements:

- 1 Dead box (optional)
- 2 Feed hopper (optional)
- 3 Segment type gate
- 4 Weighing table
- 5 Intermediate jacket
- 6 Weighing hopper
- 7 Discharge hopper (optional)
- 8 MEAG control
- 9 Support feet
- 10 Support pipes
- 11 False air flap
- 12 Recirculation air pipes
- 13 Recirculation air flap
- 14 False air nozzle (optional, depending on version installed)
- 15 Quantum slide gate (optional)

Instead of a feed hopper, it's also possible to select a transition flange to an existing bin. If the discharge hopper isn't required (discharge into a silo), a base plate is supplied instead.



Granex silo scale. **High throughput capacities.**

Wear protection elements.

The Granex MSDT silo scale offers high throughput capacities also for highly abrasive products, thanks to a variety of wear protection items. These elements protect the scale and the feeder systems, as well as the discharge components from abrasive products.

The following wear protection elements are available:

Standard wear protection elements.

- The special device made of wear-resistant stainless steel in the scale's discharge hopper protects the downstream elements.
- The dead box (flow retarder) and the positioning of level sensors in the surge hopper ensure that product always falls on top of product.
- The double segment slide gates and gate elements are made of stainless steel with excellent wear and corrosion resistance.
- If the product is fed directly from a silo into the silo scale, a relief cone including transitional flange distributes the weight, balancing the forces coming from the silo.



The surge hopper ensures a continuous product feed into the balance. Level sensors automatically regulate the best possible filling level.



Double segment slide gates made from stainless steel with high wear resistance.

The advantages at a glance:

- High throughputs
- Excellent accuracy
- Maximum food safety
- Easy to operate
- Low maintenance costs thanks to minimal maintenance requirements

Granex silo scale. **Technical data.**

The technical data for the MSDT Granex silo scale at a glance:

	MSDT-500	MSDT-850	MSDT-1400	MSDT-2400	MSDT-2x2400T
Dimensions mm					
Α	2360	2360	2360	2360	-
AT	-	_	-	_	4420
В	1900	1900	1900	1900	
ВТ	-	_	-	-	2940
С	2560	2680	2980	3740	3740
D	1530-1850	1680	1780	Discharge hopper on site	After-hopper on site
E*	800 - 1200	1000 - 1800	1200-2650	After-hopper on site	After-hopper on site
v	640	890	920	-	-
Product t/h					
Wheat/rye/soybeans (0.75 t/m ³)	130	220	375	600	1200
Corn/barley/rice (0.6 t/m ³)	100	175	300	480	960
Oats (0.5 t/m ³)	85	140	250	400	800

*Feed hopper available in various different sizes / volumes

Granex silo scale. **Dimension drawing.**



Floor plan of the tandem scale MSDT-2x2400T

BT

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