



# Vibrating Tray Feeder

## DDW-M-DVT120



Volumetric and Gravimetric

### General Information

The [DVT120](#) is an ideal feeder for granules and free flowing bulk materials.

The feeder has the following main components:

A freestanding [integrated scale](#) with high resolution strain gauge or digital load cell, a [support frame with integrated hopper](#) with the volumes of [90 dm<sup>3</sup>](#) (3.18 cuft) or [150 dm<sup>3</sup>](#) (5.3 cuft) and a [vibrating tray](#) mounted in the frame with electromagnetic vibrating drive.

The tray design provides uniform feed for fragile ingredients due to its vibrating principle of operation which gently discharge material. The electromagnetic vibrating drive features amplitude feedback, ensuring linear feed rate over the entire range.

All modules are fully mounted and internally wired on terminal boxes. The DVT120 can be supplied with integrated control modules.

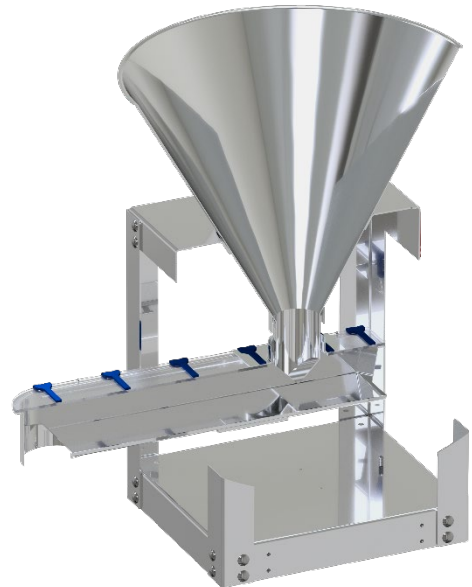
The gravimetric version includes the MS6 weighing system with strain gauge load cell as well as the digital load System MD6 (for extremely high measurement requirements), featuring a high-resolution digital load cell with serial data transmission with strain gauge load cell with advanced filtering technology.

The unit conforms to CE directives.



### Model Specification

DDW-MS6-DVT120-150 CM	Loss-in-weight feeder
DDW-MS6-DVT120-150 CM	Weighing system
DDW-MS6-DVT120-150 CM	Vibrating tray and width (mm)
DDW-MS6-DVT120-150 CM	Hopper volume (dm <sup>3</sup> )
DDW-MS6-DVT120-150 CM	Control module
Feeding principle	Vibrating Tray
Drive	Electromagnetic vibrating drive
Adjustment range	1:80
frequency	50 Hz
Enclosure protection	IP65
Width of vibrating tray	120 mm
Mains voltage	230 V



### Control modules

Control and speed modules are offered either mounted onto the feeder ([Congrav® CM-E](#)) or are available for mounting in a separate control panel ([Congrav® CB-E](#) or [Congrav® CB-S](#)).

Controls can communicate directly to most host/ PLC systems or to Brabender Technologie Congrav® Operator Interfaces.



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### Technical Drawings and Dimensions

	Volumetric feeder	Gravimetric Feeder	
		Control module CB	Control module CM
<a href="#">DVT120 - 90 dm<sup>3</sup></a>	DVT120-90	<a href="#">DDW-MD(S)6-DVT120-90</a>	<a href="#">DDW-MD(S)6-DVT120-90 CM</a>
<a href="#">DVT120 - 150 dm<sup>3</sup></a>	DVT120-150	<a href="#">DDW-MD(S)6-DVT120-150</a>	<a href="#">DDW-MD(S)6-DVT120-150 CM</a>

### Technical Specification

Ambient temperature:	0°C to +45°C (32°F to 113°F)
Humidity of the air:	up to 85% without condensation
max. vacuum/pressure:	3 hPa (3 mbar)
Ingredient temperature:	0°C to + 60°C (32°F to 140°F)
max. feed rate	3000 dm <sup>3</sup> /h **
min. feed rate	40 dm <sup>3</sup> /h **
max. bulk density	1.5 kg/dm <sup>3</sup> *
Trough, outlet, hopper, hopper lid:	1.4301 (304 SS)
Non-contact components:	1.4301 (304SS) steel galvanized or painted light grey (RAL 7035)
<a href="#">90 dm<sup>3</sup> (3.18 cuft) hopper</a> or <a href="#">150 dm<sup>3</sup> (5.3 cuft) hopper</a> :	Hopper lid for <a href="#">automatic refilling</a> or <a href="#">manual refilling</a>
Vibrating drive	Diode voltage 157 V, frequency 50 Hz, IP65, Active power 35W, Noise level ≤55 dB
Power supply	AC 230/400 V (110VAC/460VAC)- 50Hz
Net weighing range MD6:	263 kg (579.8 lb) with hopper 90 dm <sup>3</sup> (3.18 cuft) 256 kg (564,4 lb) with hopper 150 dm <sup>3</sup> (5.3 cuft)
Net weighing range MS6:	233 kg (513.7 lb) with hopper 90 dm <sup>3</sup> (3.18 cuft) 225 kg (496 lb) with hopper 150 dm <sup>3</sup> (5.3 cuft)
* other values upon request	** Reference medium: plastic granulate, free-flowing, bulk density 0.5 kg/dm <sup>3</sup> , grain size 4 mm. For other dosing media, reductions in capacity must be taken into account.

### Options and Accessories

- [Flexible inlet and vent connections](#)
- [Flexible outlet connections](#)
- Explosion-proof versions as per directive 2014/34/EU, (ATEX II 2D/-- Ex h IIIB T150°C Db/--)
- Hygienic Design versions
- [Filter bag](#) or [JetFilter](#) for vent pipe
- [Cart mounting](#)
- Pressure compensation
- Higher or lower temperature versions
- Cleaning and refill systems upon request