

Vibrating Tray Feeder DDW-M-DVT200

Volumetric and Gravimetric



General Information

The [DVT200](#) 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 [200 dm³ \(7.1 cuft\)](#) or [300 dm³ \(10.6 cuft\)](#) 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 DVT200 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 DLS6 and 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-DVT200-300 CM	Loss-in-weight feeder
DDW- MS6 -DVT200-300 CM	Weighing system
DDW-MS6- DVT200 -300 CM	Vibrating tray and width (mm)
DDW-MS6-DVT200- 300 CM	Hopper volume (dm ³)
DDW-MS6-DVT200-300 CM	Control module
Feeding principle	Vibrating Tray
Drive	Electromagnetic vibrating drive
Adjustment range	1:50
frequency	50 Hz
Enclosure protection	IP65
Width of vibrating tray	200 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
DVT200 - 200 dm³	DVT200-200	DDW-MD(S)6-DVT200-200	DDW-MD(S)6-DVT200-200 CM
DVT200 - 300 dm³	DVT200-300	DDW-MD(S)6-DVT200-300	DDW-MD(S)6-DVT200-300 CM

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	6500 dm ³ /h **
min. feed rate	130 dm ³ /h **
max. bulk density	1.5 kg/dm ³ *
Trough, outlet, hopper, hopper lid:	1.4301 (304 SS)
Non-contact components:	1.4301 (304SS) steel galvanized or painted light grey (RAL 7035)
200 dm³ (7.1 cuft) hopper or 300 dm³ (10.6 cuft) hopper :	Hopper lid for automatic refilling or manual refilling
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/DLS6:	239 kg (526.9 lb) with hopper 200 dm ³ (7.1 cuft)
	234 kg (515.9 lb) with hopper 300 dm ³ (10.6 cuft)
Net weighing range MS6:	209 kg (460.8 lb) with hopper 200 dm ³ (7.1 cuft)
	204 kg (449.7 lb) with hopper 300 dm ³ (10.6 cuft)
* other values upon request	** Reference medium: plastic granulate, free-flowing, bulk density 0.5 kg/dm ³ , 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