



Vibrating Tray Feeder

DDW-M-DVT45

Gravimetric



General Information

The [DVT45](#) 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 [15 dm³](#) (0.53 cuft) or [30 dm³](#) (1.06 cuft) and a [vibrating tray](#) mounted in the frame with electromagnetic controlled 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 DVT45 can be supplied with integrated control modules.

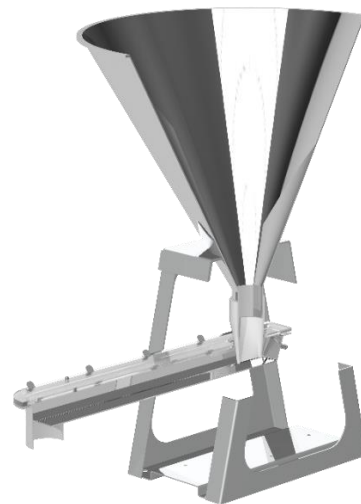
The gravimetric version includes the weighing system MS3 with strain gauge load cell as well as MD3 featuring a high resolution digital load cell with serial data transmission with advanced filtering technology.

The unit conforms to CE directives.



Model Specification

DDW-MS3-DVT45-15 CM	Loss-in-weight feeder
DDW- MS3 -DVT45-15 CM	Weighing system
DDW-MS3- DVT45 -15 CM	Vibrating tray and width (mm)
DDW-MS3-DVT45- 15 CM	Hopper volume (dm ³)
DDW-MS3-DVT45-15 CM	Control module
Feeding principle	Vibrating Tray
Drive	Electromagnetic vibrating drive
Diode voltage	162 V
Tray frequency	50 Hz
Enclosure protection	IP65
Trough width	45 mm (1.8 in)
Noise level	53 dB
Mains voltage	230 V
Active power	10 W



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

	Gravimetric feeder	
	Control module CB	Control module CM
15 dm³ (0.53 cuft) Hopper	DDW-MD(S)3-DVT45-15	DDW-MD(S)3-DVT45-15 CM
30 dm³ (1.06 cuft) Hopper	DDW-MD(S)3-DVT45-30	DDW-MD(S)3-DVT45-30 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) (1.2 inches of water)
Ingredient temperature:	0°C to + 60°C (32°F to 140°F)
max. feed rate	450 dm ³ /h **
min. feed rate	20 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)
15 dm³ Hopper or 30 dm³ Hopper	Hopper lid for automatic refilling or manual refilling
vibrating drive	Diode voltage 162 V, frequency 50 Hz, IP65, Active power 10W, Noise level 53 dB
Power supply	AC 230/400 V (110VAC/460VAC)- 50Hz
Net weighing range MD3:	31 kg (68.3 lb) with hopper 15 dm ³ (0.53 cuft); 27 kg (59.5 lb) with hopper 30 dm ³ (1.06 cuft)
Net weighing range MS3:	36 kg (79.4 lb) with hopper 15 dm ³ (0.53 cuft); 32 kg (70.5 lb) with hopper 30 dm ³ (1.06 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
- Pressure compensation
- [turntable](#), [Cart mounting](#), [inertia base](#)
- Higher or lower temperature versions