



Vibrating Tray Feeder

DDW-M-DVT60

Volumetric and gravimetric



General Information

The [DVT60](#) 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 [40 dm³](#) (1.42 cuft) or [80 dm³](#) (2.84 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 DVT60 can be supplied with integrated control modules.

The gravimetric version includes the MD6 weighing system featuring a high resolution digital load cell with serial data transmission or a MS5/6 strain gauge load cell with advanced filtering technology.

The unit conforms to CE directives.



Model Specification

| | |
|------------------------------|----------------------------------|
| DDW-MS6-DVT60-40 CM | Loss-in-weight feeder |
| DDW- MS6 -DVT60-40 CM | Weighing system |
| DDW-MS6- DVT60 -40 CM | Vibrating tray and width (mm) |
| DDW-MS6-DVT60- 40 CM | Hopper volume (dm ³) |
| DDW-MS6-DVT60-40 CM | Control module |
| Feeding principle | Vibrating Tray |
| Drive | Electromagnetic vibrating drive |
| Diode voltage | 157 V |
| Tray frequency | 50 Hz |
| Enclosure protection | IP65 |
| Trough width | 60 mm (2.4 in) |
| Noise level | 53 dB |
| Mains voltage | 230V |
| Active power | 18 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

| | Volumetric feeder | Gravimetric feeder | |
|--|---------------------------|--|---|
| | | Control module CB | Control module CM |
| 40 dm³ (1.42 cuft) Hopper | DVT60N-40 | DDW-MD(S)5(6)-DVT60-40 | DDW-MD(S)5(6)-DVT60-40 CM |
| 80 dm³ (2.84 cuft) Hopper | | DDW-MD(S)5(6)-DVT60-80 | DDW-MD(S)5(6)-DVT60-80 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 | 1000 dm ³ /h ** |
| min. feed rate | 30 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) aluminium, steel or painted light grey (RAL 7035) |
| 40 dm³ (1.42 cuft) Hopper or 80 dm³ (2.84 cuft) Hopper : | Hopper lid for automatic refilling or manual refilling |
| Vibrating drive | Diode voltage 157 V, frequency 50 Hz, IP65, Active power 10W, Noise level 53 dB |
| Power supply | AC 230/400 V (110VAC/460VAC)- 50Hz |
| Net weighing range MD5: | 47 kg (103.6 lb) with hopper 40 dm ³ (1.42 cuft) 42 kg (92.6 lb) with hopper 80 dm ³ (2.84 cuft) |
| Net weighing range MD6: | 277 kg (610.7 lb) with hopper 40 dm ³ (1.42 cuft) 272 kg (599.7 lb) with hopper 80 dm ³ (2.84 cuft) |
| Net weighing range MS5: | 52 kg (114.6 lb) with hopper 40 dm ³ (1.42 cuft) 47 kg (103.6 lb) with hopper 80 dm ³ (2.84 cuft) |
| Net weighing range MS6: | 247 kg (544.5 lb) with hopper 40 dm ³ (1.42 cuft) 242 kg (533.5 lb) with hopper 80 dm ³ (2.84 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