

Twin Screw Feeder NXT26 (Smart)

Volumetric and gravimetric

General Information

The [NXT26](#) feeder is ideal for poorly flowing, sticky powders as well as fibers and granules.

The feeder has the following main components: a screw trough with negative wall angle structure, a gearbox, an inclined agitator in the screw trough, a smart motor for the agitator, a twin screw, a smart motor for the screw drive, a screw tube and an add-on hopper for a total bulk storage of 50 dm³ (1.8 cuft).

These components work together to ensure the mass flow of the bulk material and a uniform screw filling level, as both the agitator and the hopper geometry prevent bridging and ensure optimum bulk material flow into the screw.

The [NXT26](#) is easily disassembled for wet or dry cleaning. All service is from the front or back.

The gravimetric version includes the [Weighing system](#) MD5 featuring a high resolution digital load cell with serial data transmission as well as MS5 with strain gauge load cell, all of which feature filter technology to compensate for interference.

The unit conforms to CE directives.



Model Specification

Screw drive	Servo motor
Drive power	0.4 kW (0.54 HP)
Screw speed	548 min ⁻¹
Trough agitator	Yes
Agitator drive	Servo motor
Drive power	0.4 kW (0.54 HP)

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](#)).

Controls can communicate directly to most host/ PLC systems.



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Technical Drawings and Dimensions

	Gravimetric feeder	
	Control module CB	Control Module CM
Hopper 30 dm³ (1.1 cuft)	DDW-M5-NXT26-30	DDW-M5-NXT26-30 CM

Available Screw Sizes and Feed Rates

Screw type	Designation Ø / p [mm]	Tube designation	Tube dia. [mm]	Max. speed [min⁻¹]	Max. feed rate * [dm³/h]	Max. feed rate* [cuft/h]
Twin concave screw (powder, MS type)	MSS2 23,5/2x10	270	27	548	77	2.7
	MSS 26/7	300	30	548	106	3.7
	MSM 26/2x17	300	30	548	272	9.6
	MSL 26/2x27	300	30	548	434	15.3
Twin blade screw (granules, PS type)	PSS 14/6,5	300	30	548	120	4.2
	PSM 14/11	300	30	548	227	8.0
	PSL 14/2x24	300	30	548	498	17.6
Twin blade screw (fibers, FS type)	FSM-C 25,5/12	300	30	548	222	7.8
	FSL-C 25,5/26	300	30	548	516	18.2
	FSL-D 25,5/26	300	30	548	712	25.1
	FSM-S 21/12	300	30	548	113	4.0
	FSL-S 21/26	300	30	548	262	9.3

* Theoretical values at 100% screw filling level and motor speed. Depending on the flow characteristics the screw filling level may decrease to 50%.

Further limitations must be considered for gravimetric feeding as max. speed should be reduced to allow for bulk density variations.

[How to read the table of screws](#)

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. bulk density (volumetric):	1.1 kg/dm³ (69 lb/cuft)*
max. bulk density (with MD5):	1.1 kg/dm³ (69 lb/cuft)* with hopper 30 dm³ (1.1 cuft)
max. bulk density (with MS5):	1.1 kg/dm³ (69 lb/cuft)* with hopper 30 dm³ (1.1 cuft)
Screw trough, add-on hopper, hopper lid	1.4301 (304SS)
Screw, -tubes, outlets:	1.4301 (304SS)
Non-contact steel components:	1.4301 (304SS), plated or painted steel (RAL 7035)
Add-on hopper 30 dm³ (1.1 cuft)	Hopper lid for automatic refilling or manual refilling
Screw drive	0.4 kW (0,54 HP), IP65; ISO class F
Agitator drive:	0.4 kW (0,54 HP), IP65; ISO class F
Power supply:	AC 230 V - 50Hz
Net weighing range MD5:	38 kg (84 lb) with hopper 30 dm³ (1.1 cuft)
Net weighing range MS5:	40 kg (88 lb) with hopper 30 dm³ (1.1 cuft)
*other values upon request	



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Options and Accessories

- Flexible [inlet and vent connections](#)
- Flexible [outlet connections](#)
- Interchangeable screws and screw tubes
- Versions for higher or lower temperatures than standard
- Hopper 50 dm³ (1.8 cuft)
- Vertical outlet with [quick release](#)
- [Maintenance disconnect box, pluggable version](#)
- [Filter bag](#) oder [JetFilter](#) to vent pipe
- Pressure compensation for the [outlet](#) and the whole [feeder](#)
- Cleaning and refill systems upon request

