



FiberXpert

DDW-DLS(MS)-FX

gravimetric



General Information

The [FiberXpert](#) Feeder is ideal for feeding long, irregularly cut and non-flowing ingredients.

The feeder has the following main components:

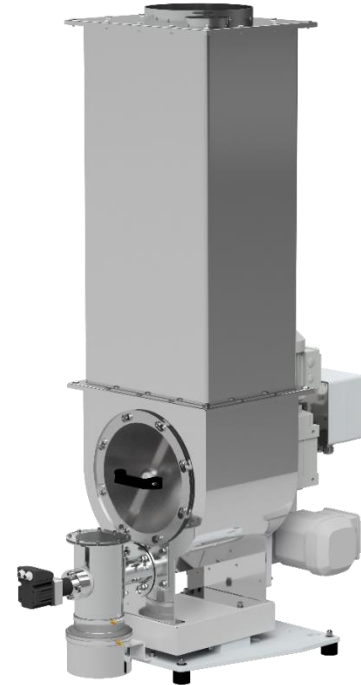
A [scale](#), a stainless steel [screw trough](#) with a large inlet cross-selection, an [inspection port](#) for easy cleaning and maintenance, a screw trough agitator, a 3 phase agitator motor, a [blade screw](#) with 3 phase motor, a screw tube, a [pulsation](#) reducing rotating flow blade with motor at the outlet and a [steep-wall extension hopper](#) for ingredient storage.

The FiberXpert is suitable for the feeding:

Natural wood and carbon fibers, PP, PET and bottle flakes, shredded plastic or carpet fiber, cellulose, acrylic, aramid, PPS, polyamide, polymer or polyester fibers, film chips and shredded film strips from film edge trimming, fiber reinforcements or fillers for compounding and biopolymers.

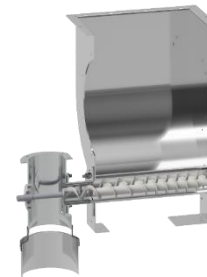
The gravimetric version includes the DLS [weighing system](#) featuring a high-resolution digital load cell with serial data transmission or a MS, with strain gauge load cell with advanced filtering technology.

The unit conforms to CE directives.



Nomenclature

DDW-DLS5-FX50-100	Loss-in-weight feeder
DDW- DLS5 -FX50-100	Load cell designation
DDW-DLS5- FX50 -100	FiberXpert and Screw diameter (mm)
DDW-DLS5-FX50- 100	Hopper volume and trough capacity (dm ³)



Control Modules

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

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

Technical Drawings and Dimensions

Model sizes	hopper	Control module CB	Control module CM
FX50-100	100 dm³	DDW-DLS(MS)-FX50-100	DDW-DLS(MS)-FX50-100 CM
FX80-200	200 dm³	DDW-DLS(MS)-FX80-200	DDW-DLS(MS)-FX80-200 CM
FX120-740	740 dm³	DDW-MS-FX120-740	DDW-MS-FX120-740 CM
FX225-2000	2000 dm³	DDW-MS-FX225-2000	DDW-MS-FX225-2000 CM



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Feed rate range

Model sizes	Min. feed rate [dm ³ /h] / [cuft/hr]*	Max. Feed rate [dm ³ /h]/[cuft/hr]*	* Theoretical rate to be confirmed by testing of minimum and maximum rates.
FX50-100	5 / 0.2	550 / 19	
FX80-200	10 / 0.4	1160 / 41	
FX120-740	50 / 1.8	3400 / 120	
FX225-2000	100 / 3.5	19.900 / 703	

Net weighing range/ max. bulk density

Load cell	FX50-100	FX80-200	FX120-740	FX225-2000
DLS5	10 kg / 0,1 kg/dm ³ (22 lb / 0,1 kg/dm ³)	-	-	-
DLS6	240 kg / 0,2 kg/dm ³ (529.1 lb / 0,2 kg/dm ³)	176 kg / 0,2 kg/dm ³ (388 lb / 0,2 kg/dm ³)	-	-
MS5	15 kg / 0,15 kg/dm ³ (33.1 lb / 0,15 kg/dm ³)	-	-	-
MS6	210 kg / 0,2 kg/dm ³ (463 lb / 0,2 kg/dm ³)	146 kg / 0,2 kg/dm ³ (321.9 lb / 0,2 kg/dm ³)	-	-
MS (FX120)	-	-	284 kg / 0,2 kg/dm ³ (626.1 lb / 0,2 kg/dm ³)	-
MS (FX225 A)	-	-	-	91 kg / 0,05 kg/dm ³ (200.6 lb / 0,05 kg/dm ³)
MS (FX225 B)	-	-	-	219 kg / 0,11 kg/dm ³ (482.8 lb kg / 0,11 kg/dm ³)

Technical Specification

Ambient temperature:	0°C to +45°C (32°F to 113°F)
Humidity:	up to 85% non-condensing
max. vacuum/pressure:	3 hPa (3 mbar) (1.2 Inches of water)
Product temperature:	0°C to +50°C (32°F to 122°F)
Screw trough, extension hopper, hopper lid:	1.4301 (304 SS)
Screws, screw tubes, outlets:	1.4571 (316 SS), 1.4301 (304 SS)
Non-contact components:	plated or painted steel (RAL 7035)
Extension hopper	Hopper lid for automatic or manual refilling
Screw drive:	IP65, 230/400 V, frequency-controlled, performance depending on size
Agitator drive:	IP65, 230/400 V, frequency-controlled, performance depending on size
Propellor drive:	IP65, 24-48V resp. 230/400V, servo drive or frequency-controlled
Power supply:	AC 230/400V **(110VAC/1PH/60hz, 230/460VAC/3PH/60 hz)
Noise level	< 70 dB
* other values upon request	** 3 phase motors are designed for a power supply of: 230/400 V, 50 (60) Hz, and for the operation in TT, TN networks or networks with earthed neutral conductor. For different networks adaptors are necessary.

Options and Accessories

- Flexible [inlet and vent connections](#)
- Flexible [outlet connections](#)
- Interchangeable screws and screw tubes
- Versions for higher and lower temperatures than standard
- Explosion-proof versions as per device 2014/34/EU (ATEX) or NFPA
- Maintenance disconnection box
- [Filter bag](#) or [JetFilter](#) for vent pipe
- Pressure compensation for the outlet or the [feeder hopper](#)
- Cleaning and refill systems upon request
- Turntable, cart mounting