

MechaTron® FB LR Feeder

- Modular loss-in-weight (LIW) feeder system for high capacities
- Optimized for light, fluffy materials like flakes, fibers and other, organic or inorganic, virgin or recycled materials
- Full stainless steel construction with internal agitation
- Modular system with various helix and hopper options



Application

The MechaTron® FB LR (Flatbottom Low Rate) Feeder is a stainless steel, LIW feeder platform for light, fluffy materials like plastic flakes, cellulose, hemp, glass or carbon fibers and other virgin or recycled materials.

It is mainly used in plastic film extrusion and compounding applications.

The volumetric version of the feeder can be used as a refill system or surge bin for smaller LIW feeders.

Functions

The flat bottom design with vertical hopper walls and bottom driven agitator provides excellent mass flow and utilizes the maximum inlet area of the auger to support feeding of cohesive materials.

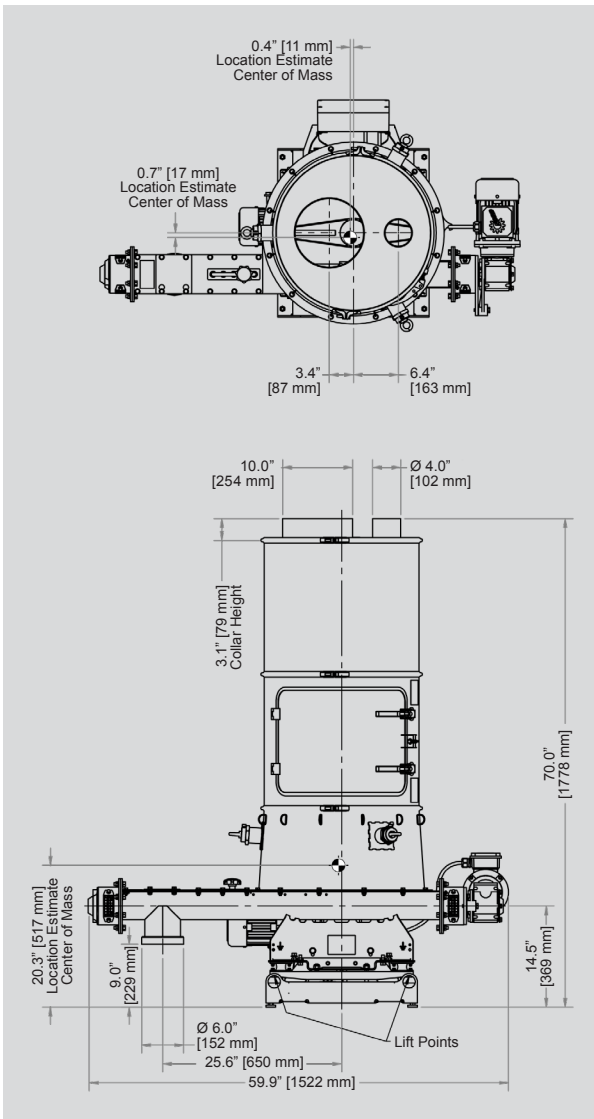
The bottom driven agitator supports low center of mass and maximum access to the inlet area for refilling and venting purposes.

The progressive, double wound helix supports material expansion and minimization of pulsation at low speeds.

Features

- Robust center rod helixes with end bearing and a packed seal arrangement for heavy duty applications.
- Modular concept with many shared and alternative components to support feed rate changes.
- Double flanged, vertical discharge tube to protect flexible connection from wear (tube in tube concept).
- Discharge on left or right side.

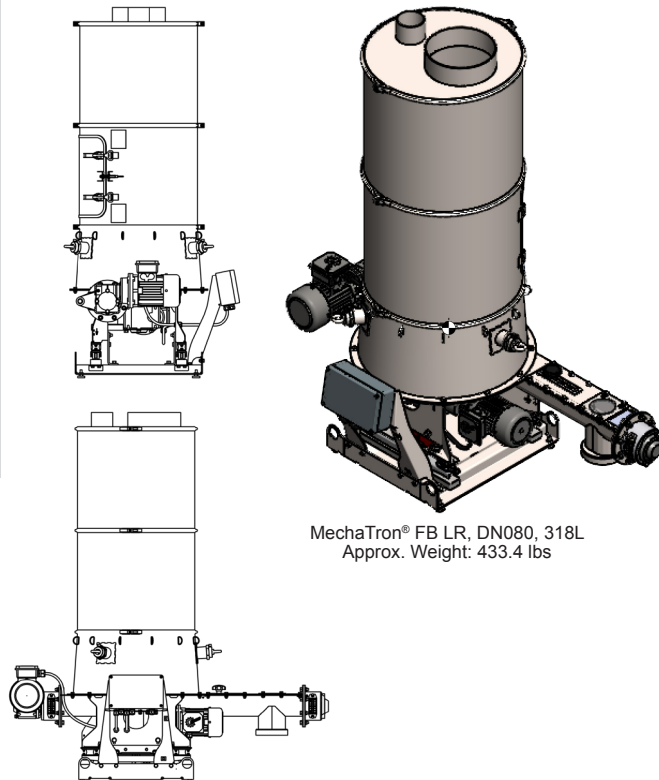
Dimensions



	WEIGHT (Dead Load)	CAPACITY
Feeder & Agitation Hopper	262 lbs (119 kg)	2.8 ft ³ (80 L)
Inspection Hopper	38 lbs (17 kg)	4.2 ft ³ (119 L)
Extension Hopper	34 lbs (15 kg)	4.2 ft ³ (119 L)
Cover	13 lbs (6 kg)	
Total		
Feeder & Agitation Hopper + Inspection Hopper + Ext Hopper + Cover	347 lbs (157 kg)	11.2 ft ³ (318 L)
Full system (adding load cell modules)	433 lbs (196 kg)	11.2 ft ³ (318 L)

Notes:

1. System scale capacity (total 2 load cell modules): 662 lbs (300 kg)
2. Gearmotors available: IP55, TEFC
Agitation: 0.33 Hp (0.25 kW)
Helix: 1.0 Hp (0.75 kW)
3. Electrical service requirements:
230VAC, 3 Ph, 60 Hz 6 A full load current / 15 A service recommended
460VAC, 3 Ph, 60 Hz 3 A full load current / 15 A service recommended



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