



schenckAccuRate



**MECHATRON®
"LS" Feeder**

MECHATRON® "LS" Feeder

Volumetric and gravimetric MECHATRON® "LS" Feeders feature a range of customer driven design attributes including all stainless steel construction, AC drive packages, internal agitator, and helix configurations capable of feed rates up to 21 cubic feet (595 Liters) per hour. Additionally, MECHATRON® "LS" Feeders are the only feeders with internal agitation that allow the feed hopper and helix to be removed, cleaned, serviced or reconfigured without removing the internal agitator from the extension. MECHATRON® "LS" Feeders are especially well suited to applications involving cohesive food, pharmaceutical, chemical, and plastic materials.

MATERIAL CONSTRUCTION:

Contact materials –

- 304 & 316 stainless steel (feed hopper, feed screws, nozzles, and internal agitator).

Non-contact materials –

- 304 stainless steel and epoxy coated or nickel plated aluminum.

FEED RATES:

- Helix diameters from .25" (6 mm) to 1.38" (35 mm) provide feed rates from .002 to 21 cubic feet (.057 to 595 liters) per hour (theoretical).
- Optional twin screw helix diameters from .67" (17 mm) to 1.38" (35 mm) provide feed rates from .07 to 12 cubic feet (2.1 to 343 liters) per hour (theoretical).

FEED SCREWS:

- 304 or 316 stainless steel construction.
- Single and optional twin screw open flight or center-rod configurations.
- Full or half pitch configurations.
- Extensions from 12" (300 mm) to 48" (1.2 meters) from the feeder face (actual maximums are helix diameter dependent).

CONI-STEEL™ FEED HOPPER:

- Removable spun 70 degree (from horizontal) stainless steel conical feed hopper with or without internal agitator.
- .25 cubic feet (7.4 liters) material storage capacity.

HOPPER EXTENSIONS:

- 1 cubic foot (30 liters) and 3 cubic feet (83 liters) capacity with or without agitation.
- Dust tight 360 degree band clamp mounting.

VOLUME	INLET	VENT
30 L	4.5" (115 mm)	4.5" (115 mm)
83 L	6.63" (170 mm)	4.5" (115 mm)

MOTOR SPECIFICATIONS:

- Industrial applications, helix drive – 1/2 HP (.37 kW) AC, TEFC, inverter duty.
- Industrial applications, agitation drive – 1/6 HP (.12 kW) AC, TEFC, inverter duty.
- Industrial applications, agitation drive – 1/3 HP (.25 kW) AC, TEFC, inverter duty.
- 230/460 VAC, 3 PH, 60 Hz.

Note: Wash-down duty rated motors are used in feeders intended for food and pharmaceutical applications.

MOUNTING CONFIGURATIONS:

- Floor mount – 304 stainless steel tubular stand.

WEIGH MODULE SPECIFICATIONS: (optional)

- Dual Schenck stainless steel strain gauge load cells. No summing box required.
- Weigh modules available in 132 lbs. (60 kg), 264 lbs. (120 kg), 441 lbs. (200 kg).

PERFORMANCE:

- Volumetric accuracies of +/- 2 to 5% of feed rate setpoint typical at 2 sigma.
- Gravimetric accuracies of +/- 1% of feed rate setpoint typical at 2 sigma.

NOTE: Laboratory testing to determine specific material feeding accuracy is recommended and available from Schenck AccuRate.

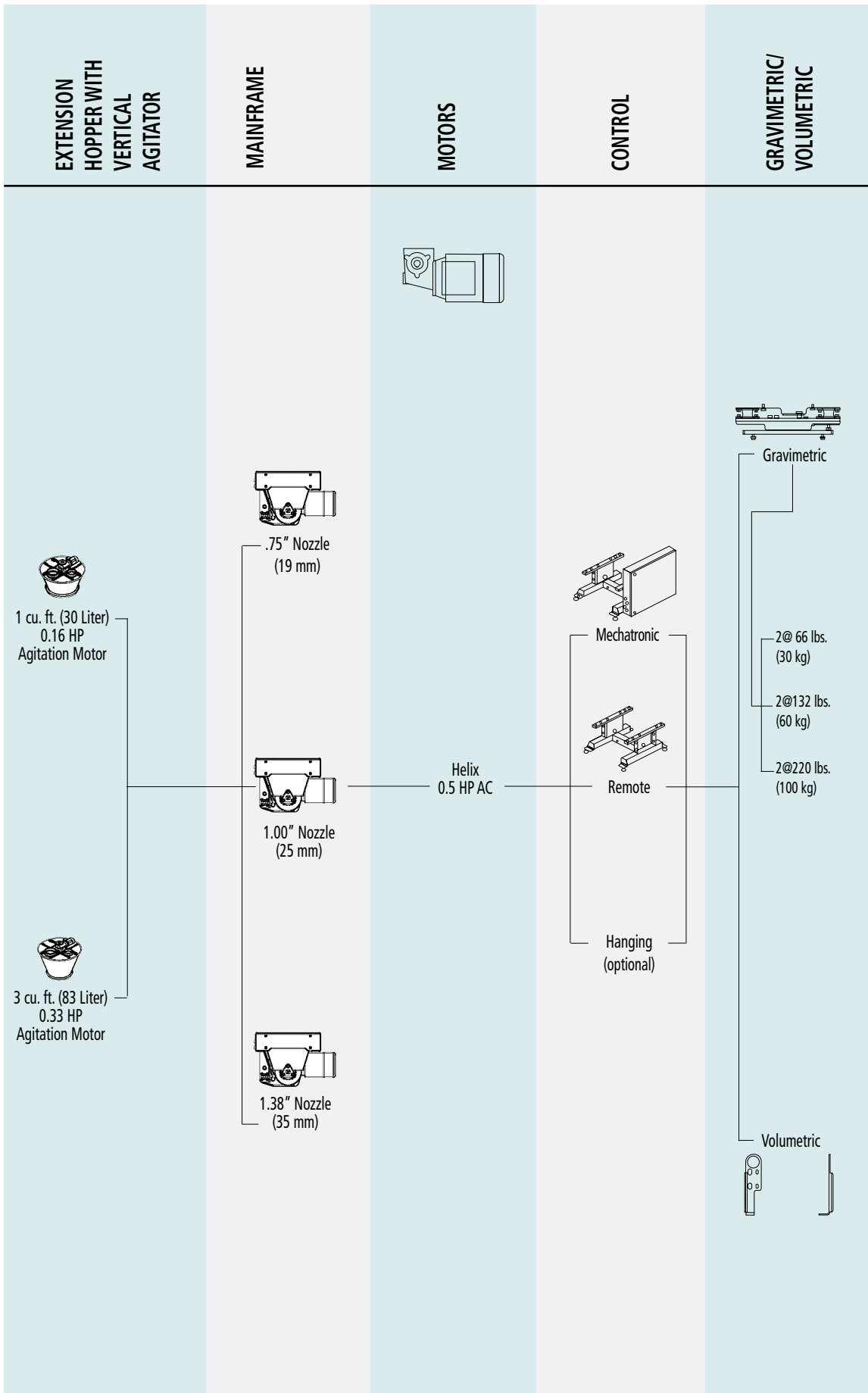
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Web site: www.accuratefeeders.com

MECHATRON® "LS" Feeder

Specifications



A FEEDER YOU CAN QUICKLY RECONFIGURE, CLEAN OR SERVICE FROM THE NON-PROCESS SIDE.



1 All components are accessible from the rear of the feeder instead of the discharge side. Simply loosen the bolt and the hand knob on the back of the coupling bell.



2 Swivel motor and drive assembly back and tighten hand knob for complete access to all internal components for easy cleaning, reconfiguration, and maintenance.



3 For easy removal of the helix, loosen the nuts of the three screws on the back of the coupling bell, allowing for fast helix style, and diameter changes.



4 Release band clamp and lower the feed hopper to disengage the agitation system.



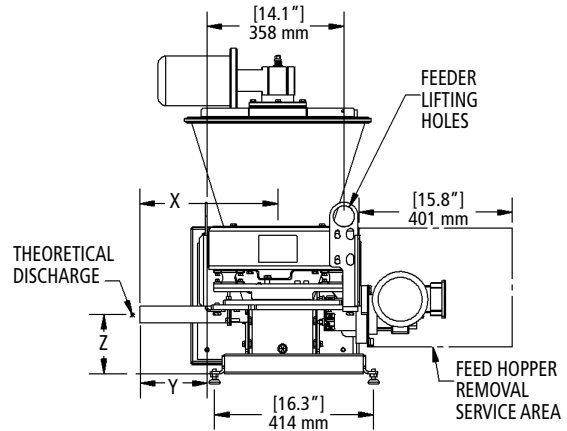
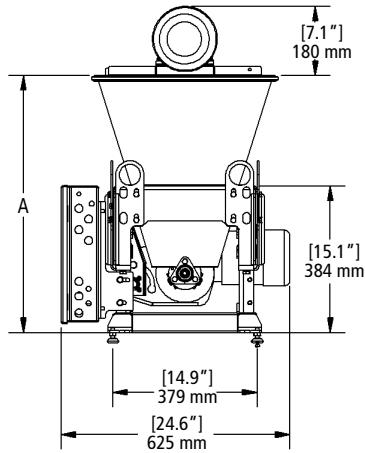
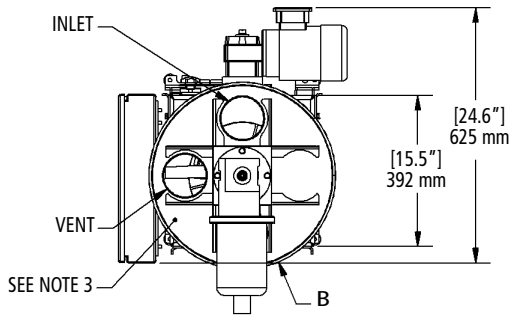
5 The feed hopper slides out for cleaning, replacement or maintenance.



6 Replace feed hopper, reposition motor and drive assembly, tighten hand knob and bolt, and you're ready to run – all in under two minutes.

MECHATRON® "LS" Feeder

Specifications



EQUIPMENT CONFIGURATION

EQUIPMENT CONFIGURATION	WEIGHT	HOPPER CAPACITY
Feeder + 1 cu. ft. (30 L) extension hopper and cover assembly (dead load)	100 lbs. (45 kg)	1.30 cu. ft. (37 L)
Stand + feeder + 1 cu. ft. (30 L) extension hopper and cover assembly (total)	163 lbs. (74 kg)	1.30 cu. ft. (37 L)
Feeder + 3 cu. ft. (83 L) extension hopper and cover assembly (dead load)	128 lbs. (58 kg)	3.30 cu. ft. (90 L)
Stand + feeder + 3 cu. ft. (83 L) extension hopper and cover assembly (total)	191 lbs. (86 kg)	3.30 cu. ft. (90 L)

NOTES:

- Standard infeed to discharge (X) is 15" (385 mm). Standard distance from front face of feeder (Y) is 7" (178 mm). Extensions are available in one inch increments to the maximums stated below:

Helix Dia.	Max. Infeed to Dis. (X)	Max. FFOF (Y)	Discharge Height (Z)
.75" (19 mm)	19.7" (500 mm)	12" (305 mm)	6.42" (163 mm)
1" (25 mm)	43.7" (1100 mm)	36" (915 mm)	6.30" (160 mm)
1.38" (35 mm)	55.7" (1500 mm)	48" (1220 mm)	6.10" (155 mm)

- System scale capacity:

Total (2 Load Cells)
 132 lbs. (60 kg)
 264 lbs. (120 kg)
 441 lbs. (200 kg)

- Cover may be rotated up to 360° to meet application requirements.

Standard inlet and vents:

For 1 cu. ft. (30 L) hoppers = 4.50" DIN 100 inlet and 4.50" DIN 100 vent

For 3 cu. ft. (83 L) hoppers = 6.63" DIN 150 inlet and 4.50" DIN 100 vent

- Electrical service requirements:

230V, 1 or 3 phase, 10.2 amps full load current, 50/60 Hz

- or -

460V, 3 phase, 6.2 amps full load current, 50/60 Hz – 15.0 amp service is recommended for each motor.

EXTENSION HOPPER DIMENSIONS

Capacity	Dim "A"	Dim "B"
1.0 cu. ft. (30 L)	26.4" (671 mm)	19.2" (488 mm)
3.0 cu. ft. (83 L)	35.9" (912 mm)	25.1" (638 mm)

** Overall height of feeder is increased by .5" (12.7 mm) to 1.25" (31.8 mm) when using optional leveling feet.