



schenckAccuRate



MECHATRON® "LS" Vibro Feeder

## MECHATRON® "LS" VIBRO FEEDER

Gravimetric and Volumetric MECHATRON® "LS" Vibro Feeders are ideal for metering a wide variety of powders, granules, chips, flakes, and fibers. With a uniquely designed maintenance free feed chute dry solid materials are gently metered for applications in the plastics, food, chemical, and pharmaceutical industries. A conical hopper ensures consistent material flow in feed rates up to 53 cubic feet (1,500 liters) per hour. Like all MECHATRON® feeders the "LS" Vibro has the unique ability to be disassembled, cleaned, reconfigured, and serviced from the non-process side eliminating the need to remove upper extension hoppers, bins, bulk bags or IBC's for performing general maintenance.

### MATERIALS OF CONSTRUCTION:

#### Contact Materials –

- 316 stainless steel

#### Non-Contact Materials –

- Carbon steel, powder coated RAL5018

### MATERIAL PARTICLE SIZE:

- .02 to .2" (0.5 to 5 mm)

### BULK DENSITY:

- 18.7 lbs./cu. ft. to 62 lbs./cu.ft.

### MATERIAL TEMPERATURE:

- -22° to 212° F (-30° to 100° C)

### FEED TRAYS:

#### Sizes –

- 2.75" (70 mm) wide
- 4.72" (120 mm) wide

### FEED RATES:

#### 2.75" (70 mm) wide tray –

- 0.01 to 28 cubic feet (0.3 to 800 liters) per hour

#### 4.72" (120 mm) wide tray –

- 0.18 to 53 cubic feet (5 to 1,500 liters) per hour

### CONI-STEEL™ FEED HOPPER:

- 0.18 cubic feet (5 liters) of material storage capacity.

### HOPPER EXTENSIONS:

- 1 and 3 cubic feet (30 and 83 liters) capacities
- Dust tight 360 degree band clamp mounting

### ELECTROMAGNETIC VIBRATOR:

- Voltage: 230 VAC
- Nominal current: .32 amps

### MOUNTING CONFIGURATIONS:

- Floor mount – painted mild carbon steel
- Optional – floor mount stainless steel

### WEIGH MODULE SPECIFICATIONS (optional):

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

### PERFORMANCE:

- Volumetric accuracies of  $\pm 2\%$  to 5% of feed rate setpoint at 2 sigma.
- Gravimetric accuracies of  $\pm 1/4\%$  to 1% of feed rate setpoint at 2 sigma.

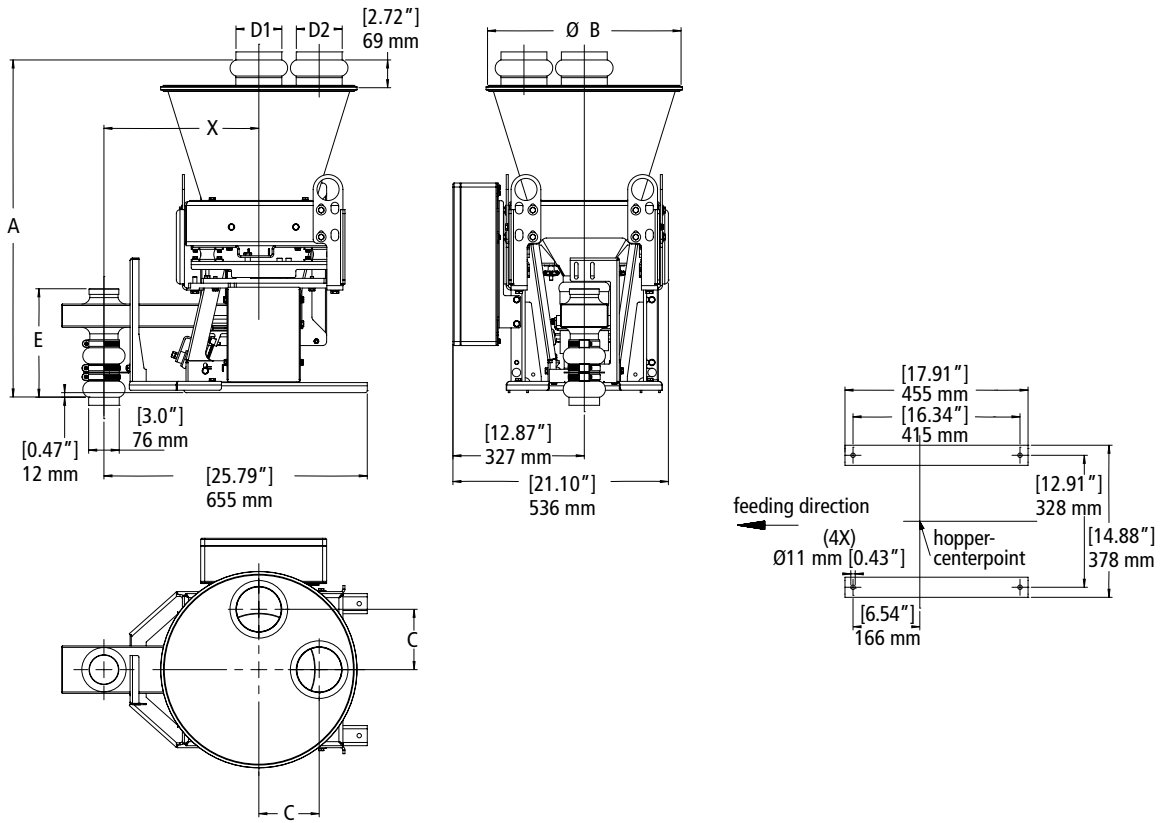
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**Web site: [www.accuratefeeders.com](http://www.accuratefeeders.com)**

# MECHATRON® "LS" Vibro Feeder

# Specifications



## EQUIPMENT CONFIGURATION

Stand + control + feeder (total)	181 lbs. (82 kg)
Stand + control + feeder + 1 cu. ft. (30 L) extension hopper + cover (total)	190 lbs. (86 kg)
Stand + control + feeder + 3 cu. ft. (83 L) extension hopper + cover (total)	196 lbs. (89 kg)

## WEIGHT

[weight based on 4.72" (120 mm) feed tray]

## HOPPER CAPACITY

## NOTES:

- Standard infeed to discharge (X) is 15" (385 mm)
- System scale capacity:
  - 132 lbs. (60 kg)
  - 264 lbs. (120 kg)
  - 441 lbs. (200 kg)
- Cover is available in auto refill (shown), manual refill or with no cover. Cover may be rotated up to 360° to meet application requirements.

## Standard inlet and vents:

For 1 cu. ft. (30 L) hoppers = 4.5" (114 mm) inlet & 3.0" (76 mm) vent  
 For 3 cu. ft. (83 L) hoppers = 6.63" (168 mm) inlet & 4.5" (114 mm) vent

- Electrical service requirements:
  - 230 VAC, single phase, 50/60 Hz

## EXTENSION HOPPER DIMENSIONS

Capacity	Dim "A"	Dim "B"	Dim "C"	Dim "D1"	Dim "D2"
1.0 cu. ft. (30 L)	33.0" (838 mm)	18.9" (481 mm)	5.9" (150 mm)	3.0" (76 mm)	4.5" (114 mm)
3.0 cu. ft. (83 L)	42.7" (1,084 mm)	24.8" (630 mm)	7.9" (200 mm)	4.5" (114 mm)	6.63" (168 mm)

## FEED TRAY DIMENSIONS

Tray Size	Dim "E"
2.75" (70 mm)	9.84" (250 mm)
4.72" (120 mm)	10.6" (270 mm)

**NOTE:** Dimensions subject to change without notice. Please contact sales for detailed drawings.