

# MODEL 530 VIBRATORY LOSS-IN-WEIGHT FEEDER OR BATCHER

## SPECIFICATIONS

### OPTIONS

- Special Materials of Construction
- Hopper Vibrator
- Extended Discharge Length
- Hazardous Location Components
- Independently Driven Vertical Hopper Agitation
- Special Coatings on Material Contact Surfaces
- Automatic Refill System

### POWER REQUIREMENTS

- 115 Volts, 1 Phase, 60 Hertz
- 15 Amp Service

### EMPTY WEIGHT

- 75- 150 lbs (34- 68 kg) Standard

### STANDARD PERFORMANCE

- Continuous Feedrate Control  
Better than +/- 0.25% Weighing Accuracy  
Better than +/- 1.0% Repeatability at 2 Sigma
- Batching Weight Control  
Better than +/- 0.10% Weighing Accuracy  
Better than +/- 0.10% Batch Accuracy



Model 530  
with automatic refill system

## MODELS & STANDARD DIMENSIONS

MODEL #	HOPPER VOLUME	CONTINUOUS FEEDRATE RANGE	BATCH WEIGHT RANGE	WIDTH	DEPTH*	HEIGHT
530-05	0.5 CF 14.2 L	0.3 - 3.75 Lbs/Min 0.14- 1.7 Kg/Min	0.1- 37.5 Lbs 0.04- 17.0 Kg	13.5 In 343 mm	32 In 813 mm	32 In 813 mm
530-1	1.0 CF 28.3 L	0.6 - 7.50 Lbs/Min 0.27 - 3.4 Kg/Min	0.2- 75 Lbs 0.09- 34.0 Kg	13.5 In 343 mm	35 In 889 mm	39 In 991 mm
530-2	2.0 CF 56.6 L	1.2- 15.0 Lbs/Min 0.54 - 6.8 Kg/Min	0.4- 150 Lbs 0.18- 68.0 Kg	13.5 In 343 mm	35 In 889 mm	47 In 1194 mm
530-3	3.0 CF 85.0 L	1.8- 22.5 Lbs/Min 0.82 - 10.2 Kg/Min	0.6- 225 Lbs 0.27- 102.0 Kg	13.5 In 343 mm	35 In 889 mm	55 In 1397 mm
530-S	CUSTOM	CUSTOM	CUSTOM	CUSTOM	CUSTOM	CUSTOM

\*Depth Dimensions include Junction Box and Discharge Tray or Tube

\*\* Feedrates and Batch Weights assume 10 - 100 Lbs/ft<sup>3</sup> Material Bulk Density.

FAMILY OF  
**MERRICK**  
COMPANIES

10 ARTHUR DRIVE LYNN HAVEN, FL 32444 USA  
CALL WORLDWIDE +1 850.265.3611  
EN ESPAÑOL +1 850.271.7834  
[WWW.MERRICK-INC.COM](http://WWW.MERRICK-INC.COM)



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DYNAMIC INNOVATIONS SINCE 1908  
WEIGHING, FEEDING, CONTROLS & ENVIRONMENTAL SOLUTIONS

# MODEL 530 VIBRATORY LOSS-IN-WEIGHT FEEDER OR BATCHER



**SIMPLE, PRECISE, GRAVIMETRIC**



## MODEL 530 VIBRATORY LOSS-IN-WEIGHT FEEDER OR BATCHER

### DESIGNED FOR FLEXIBILITY AND LOW COST

A variable speed control modulates the vibration to allow a process controller to increase or decrease the feedrate based on the load cell signal.

The Model 530 can easily be reconfigured for different feeding ranges by:

- Changing the depth of the material in the tray or tube
- Changing the tube or tray size and/or design
- Changing the flexures on the vibratory drive itself

### VIBRATOR AND DISCHARGE COMBINATIONS

The tray or tube discharge is designed based on the material and the application specifications. The vibrator is chosen to match the tray and material. A sample of the variety of shapes and sizes for both vibrators and discharges are shown below.



### DESIGNED FOR PERFORMANCE

Whether batching set amounts of weight or continuously controlling feedrate, the Model 530 can meet your process demands.

- Smooth gentle handling and discharge of material with minimal pulsation when compared to a screw discharge.



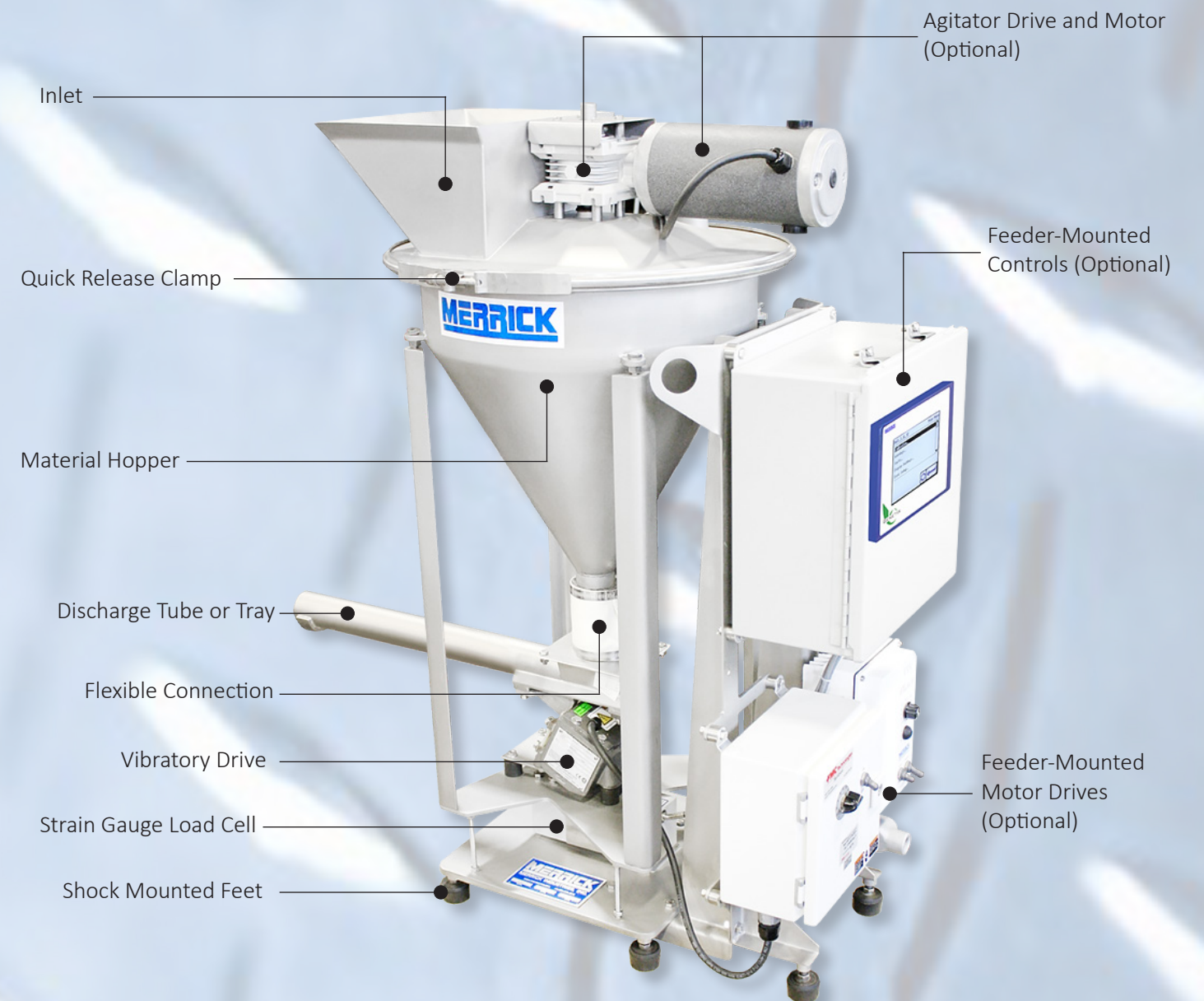
- Low maintenance with no bearings or other wear items traditionally associated with an auger style Loss-In-Weight discharge.
- Aluminum or stainless steel materials available. Your choice of industrial or food grade designs.



Model 530 with Tube Discharge and Feeder Mounted Controls

## MODEL 530 VIBRATORY LOSS-IN-WEIGHT FEEDER OR BATCHER

### FEATURES



### BENEFITS

- The sharply defined starting and stopping of material flow allows for extremely accurate batch weights of better than +/- 0.1%.
- Because of the smooth discharge, the Model 530 can very accurately and repeatably deliver a continuous feedrate that is easier to control.
- The ability to feed at a very high coarse feedrate and then feed at a very low fine feedrate also helps improve batch accuracy.
- The high frequency electromagnetic vibrator does not negatively affect the weight readings as much as other discharge devices might.