

## Syntron® volumetric feeder machines

Total control in material handling for feeding, blending or packaging

Simple design and flexible control account for the efficient, economical performance of Syntron® Volumetric Feeder Machines, and the growing industrial preference for them. These units can feed most dry bulk materials and can be supplied to conform to FDA and USDA specifications. Six Syntron Volumetric Feeder Machine models are available.

Syntron Volumetric Feeder Machine designs include four basic components: a supply hopper, a hopper vibrator, a vibrating feeder and the supporting frame. Supply hoppers are usually fabricated from mild steel but are available in stainless steel. Most supply hoppers are conical; however, rectangular hoppers are an option. Adjusting the gate height between the hopper and feeder trough regulates material depth for most models. Material depth for model FM-T0 is regulated by hopper tilt.

Arching, plugging or bridging of materials in the hopper is prevented through incorporation of a Syntron electromagnetic vibrator. The hopper vibrator features a variable power control, assuring free flow of material to the feeder trough. Vibrating feeders on the Syntron Volumetric Feeder Machines operate at 3,600 vpm (at 60 Hz) and trough options include flat pan (standard), V-shaped, tubular or screening troughs of mild or stainless steel.

Because of their simple design, Syntron Volumetric Feeder Machines are dependable and have an exceptionally long service life. There are no moving parts such as motors, belts, gears, valves, connecting arms or sliding rods to wear or lubricate. For dust-tight sealing, special covered or tubular troughs feature flexible seals on the discharge end of the supply hopper. In addition, flexible seals that seal the top of the supply hopper to an overhead chute, as well as removable dust covers for the supply hopper are available.



*Syntron Volumetric Feeder Machine with conical supply hopper.*



Drives on Syntron® vibrating feeders are available with dust-proof, dust-tight and waterproof construction. These units are virtually noiseless, meeting applicable OSHA specifications. Even at maximum feed, a hum is the only indication that the machine is operating.

Syntron Volumetric Feeder Machines are supplied with electric controls that can be mounted separately at any desired location. Standard controls contain operating switches, rectifiers and rheostats. The electric control regulates the feed rate by varying the vibrating intensity of the electromagnetic feeder. A graduated dial on the control panel permits variation of the flow speeds. Timers are also available to provide intermittent feed.

Capacities of Syntron Volumetric Feeder Machines vary with different materials. Lighter and finer materials result in less capacity and heavier materials result in higher capacities.



*A custom-built SFM-212 Syntron Volumetric Screening Feeder Machine.*



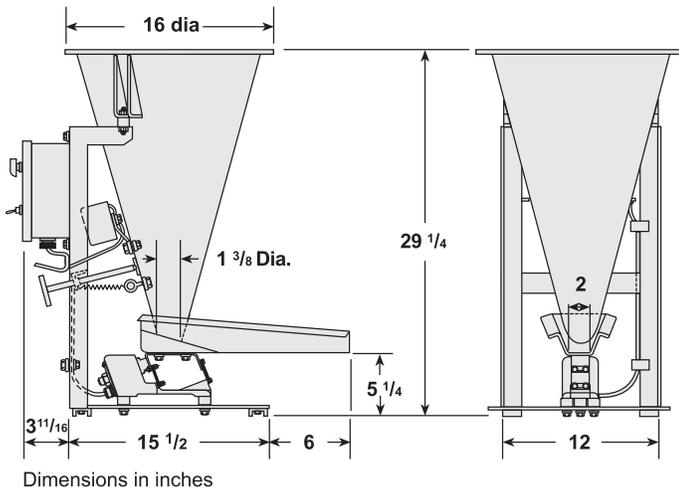
*Syntron Volumetric Feeder Machine with customized rectangular hopper.*



# volumetric feeder machine models and dimensions

## Model FM-T0-3/4

Syntron® Model FM-T0-3/4 is one of the smallest, most economical volumetric feeder machines available. This dependable unit is usually preferred for light-capacity, continuous-use operation. This model features a 3/4 cubic foot supply hopper, a V-2 hopper vibrator, an F-T0 vibrating feeder with 2 x 16-inch flat pan trough and a solid-state control. Configured for 115 volt, single-phase 50 or 60 cycle power. Operating at 230 or 460 volts requires a step-down transformer. Optional equipment includes a stainless steel supply hopper and/or feeder trough, trough and hopper covers.



WITH STANDARD 2-INCH X 16-INCH FLAT PAN TROUGH

### MAXIMUM MATERIAL CAPACITY

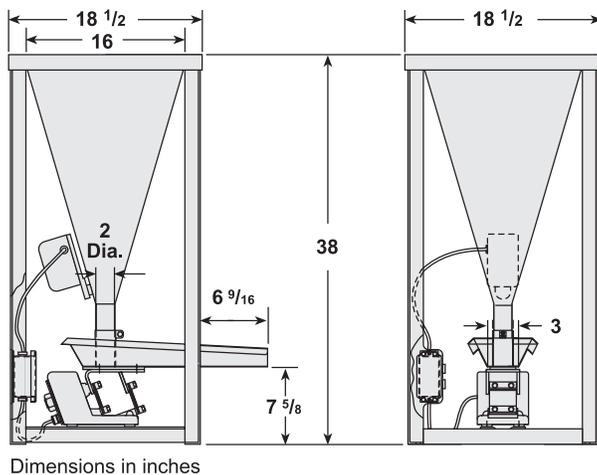
(sand @ 100 lb C/F) .625 TPH

### SPECIFICATIONS

Power Consumption*	30 Watts	Net Weight, machine	55 lb
Current Input*	1.20 amps	Net Weight, Control	9 lb
*115 volt, 60 cycle		Shipping Weight, Both	125 lb
Control (inches) - 6 <sup>15/16</sup> W x 9 <sup>1/2</sup> H x 3 <sup>5/8</sup> D			

## Model FM-T01-1

Syntron Model FM-T01-1, with a separate solid state control as standard equipment, has wider application than any other medium-capacity volumetric feeder machine in the Syntron line. This unit features a 1 cubic foot supply hopper, V-4 hopper vibrator and F-T01 vibrating feeder with a 3 x 18-inch flat pan trough. Configured for 115 or 230 volt, single-phase, 50 or 60 cycle power. Operating at 460 volt requires a step-down transformer. Optional equipment includes a stainless steel supply hopper and/or feeder trough, and stainless steel covers for trough and hopper.



WITH STANDARD 3-INCH X 18-INCH FLAT PAN TROUGH

### MAXIMUM MATERIAL CAPACITY

(sand @ 100 lb C/F) 2 TPH

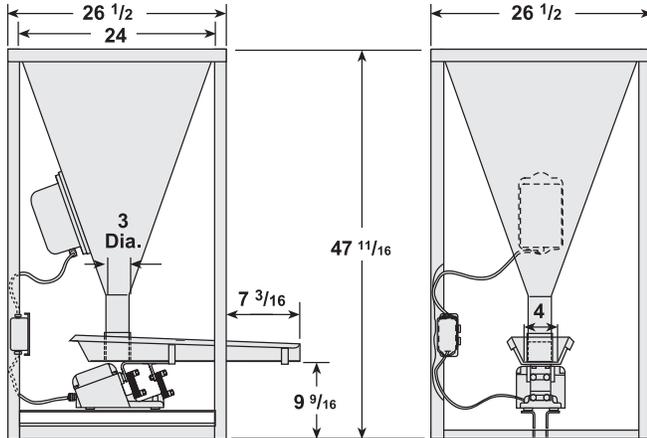
### SPECIFICATIONS

Power Consumption*	75 Watts	Net Weight, machine	100 lb
Current Input*	1.75 amps	Net Weight, Control	9 lb
*115 volt, 60 cycle		Shipping Weight, Both	160 lb
Control (inches) - 6 <sup>15/16</sup> W x 9 <sup>1/2</sup> H x 3 <sup>5/8</sup> D			

Capacities of Syntron Volumetric Feeder Machines vary with different materials. Lighter and finer materials result in less capacity and heavier materials result in higher capacities.

## Model FM-010-3

Syntron® Model FM-010-3, while similar in design to the FM-T01-1, has a larger capacity. This machine is furnished with a 3 cubic foot supply hopper, a V-20 hopper vibrator and a separate solid-state control. Model FM-010-3 includes an F-010 vibrating feeder with 4 x 24-inch flat pan trough. The FM-010-3 operates on 115, 230 or 460 volt, single-phase, 50 or 60 cycle power. A 460-volt power configuration requires a step-down transformer. Optional equipment includes stainless steel supply hoppers and feeder troughs and plastic, mild steel or stainless steel covers for trough and hopper. Hoppers are available in conical or rectangular design.



Dimensions in inches

### WITH STANDARD 4-INCH X 24-INCH FLAT PAN TROUGH

Maximum Material Capacity  
(sand @ 100 lb C/F) 4 TPH

### SPECIFICATIONS

Power Consumption\*125 Watts  
Current Input\* 4.0 amps  
\*115 volt, 60 cycle  
Control (inches) – 6<sup>15/16</sup> W x 9<sup>1/2</sup> H x 3<sup>5/8</sup> D

Net Weight, machine 180 lb  
Net Weight, Control 9 lb  
Shipping Weight, Both 340 lb

## Model FM-152-3

Model FM-152-3, while similar in design to the FM-T01-1, also has a larger capacity. It is furnished with a 3 cubic foot supply hopper, a V-20 hopper vibrator and a separate solid-state control. Model FM-152-3 features an F-152 vibrating feeder with an 8 x 28-inch flat pan trough. It operates on 115, 230 or 460 volt, single-phase 50 or 60 cycle power. Optional equipment includes stainless steel supply hoppers and/or feeder troughs and special 6, 10 or 18 cubic foot supply hoppers with conical or rectangular design. Call the factory for assistance in selecting Syntron FM-152-3 volumetric feeders.



Custom designed FM-152-3 feeder machine with rectangular supply hopper.

### WITH STANDARD 8-INCH X 28-INCH FLAT PAN TROUGH

Maximum Material Capacity  
(sand @ 100 lb C/F) 7 TPH

### SPECIFICATIONS

Power Consumption\*175 Watts  
Current Input\* 4.5 amps  
\*115 volt, 60 cycle  
Control (inches) – 6<sup>15/16</sup> W x 9<sup>1/2</sup> H x 3<sup>5/8</sup> D

Net Weight, machine 225 lb  
Net Weight, Control 9 lb  
Shipping Weight, Both 440 lb



# volumetric feeder machine models and dimensions, cont'd.

## Model FM-212-3

Syntron® FM-212-3 offers economical, high-capacity performance. Standard construction includes a 3 cubic foot supply hopper, a V-20 hopper vibrator, a separate solid-state control and a powerful F-212 vibrating feeder with a 10 x 24-inch flat pan trough. Configured for 115, 230 or 460 volt, single-phase, 50 or 60 cycle power. Optional equipment includes stainless steel supply hoppers and/or feeder troughs and special 6, 10 or 18 cubic foot supply hoppers, with conical or rectangular design.



FM-212 feeder machine with custom rectangular supply hopper.

### WITH STANDARD 10-INCH X 24-INCH FLAT PAN TROUGH

Maximum Material Capacity  
(sand @ 100 lb C/F) 20 TPH

#### SPECIFICATIONS

Power Consumption*200 Watts	Net Weight, machine	475 lb
Current Input* 6.5 amps	Net Weight, Control	9 lb
*115 volt, 60 cycle	Shipping Weight, Both	600 lb
Control (inches) – 6 <sup>15</sup> / <sub>16</sub> W x 9 <sup>1</sup> / <sub>2</sub> H x 3 <sup>5</sup> / <sub>8</sub> D		

## Model FM-22-50

Syntron FM-22-50 is a high-capacity unit. The supply hopper has a 50-cubic foot-capacity. A V-50 hopper vibrator moves bulk material to the 12 x 36-inch flat pan trough of an F-22 vibrating feeder. A solid-state control is mounted separately. Configured for 115, 230 or 460 volt, single-phase, 50 or 60 cycle power. Optional features include special hoppers up to 100 cubic foot capacity, stainless steel supply hoppers and/or feeder troughs. Call the factory for assistance in selecting and specifying Syntron FM-22-50 volumetric feeders.

### WITH STANDARD 12-INCH X 36-INCH FLAT PAN TROUGH

Maximum Material Capacity  
(sand @ 100 lb C/F) 30 TPH

#### SPECIFICATIONS

Power Consumption*450 Watts	Net Weight, machine	1,700 lb
Current Input* 14.5 amps	Net Weight, Control	11 lb
*115 volt, 60 cycle	Shipping Weight, Both	2,000 lb
Control (inches) – 6 <sup>15</sup> / <sub>16</sub> W x 9 <sup>1</sup> / <sub>2</sub> H x 3 <sup>5</sup> / <sub>8</sub> D		

Capacities of Syntron Volumetric Feeder Machines vary with different materials. Lighter and finer materials result in less capacity and heavier materials result in higher capacities.