

# No More Wasting Expensive Colorant

Optimize your feeding process with the Conair TrueFeed™ Gravimetric Feeder. Units are simple to install and use, extremely accurate and economical. These color and additive feeders deliver accurate feeding rates on the basis of continuous loss-in-weight metering technology with closed-loop control of the feeding speed.

The TrueFeed can be used in injection molding, extrusion and blow molding processes. All operate with the same bi-lingual, userfriendly control.



**Model TF01AA**  
(with handfill hopper lid.)

## Costly Downtime Eliminated

Unlike volumetric feeders the new gravimetric feeders from Conair are self-calibrating, adjusting automatically for changes in material type, bulk density or pellet geometry.

Color changes are quick - under 60 seconds - and easy. The TrueFeed™ does not require time-consuming color calibration when materials are changed.

Each feeder is equipped with a throat adapter that fits between the machine hopper and the throat. The feeder installs easily to the adapter allowing additives to be metered by the dispensing cylinder into the flow of material as it passes through the adapter. Metering and feeding additives at the throat result in even greater savings in material inventory and colorant over traditional pre-colored, centrally blended materials or imprecise volumetric technologies.

### ▶ Reduce your material costs

The consistency of this feeder ensures that every pellet counts. Absolutely no material waste. Unique dispensing cylinder eliminates pulsing outputs of auger and pocket type feeders.

### ▶ Increased productivity

The TrueFeed™ does not require time-consuming color calibration when materials are changed. Eliminates machine downtime associated with conventional volumetric feeders.

### ▶ Unbeatable accuracy

The dispensing cylinder is driven by a stepper motor for consistent speed. The design ensures that the colorant is dispensed evenly, extremely accurately, and without any pulsation from the cylinder into the plastic, giving you maximum control of the process and the end product.

### ▶ Super simple to use

Injection molders, simply set the additive percentage, enter the shot weight, screw recovery time and press start. For extrusion processes the unit can be run open-loop or slaved to the extruder (extrusion tracking). Touch control also available.

### ▶ Fast return-on-investment

Call today! These value-priced units quickly pay for themselves in material savings and machine uptime.



## Features



### No tools required for material and color changes.

The unit is easy to disassemble. Simply release the knob holding the feeder to the scale, remove the feeder, pull back on the slide gate to drain the material from the hopper, then release the motor clamps and remove the motor and dispense cylinder.

**Improve your processing time and your profits! ...ask about our payback analysis.**



## Options



### Compressed air loading lid

Choose the TrueFeed with the compressed air loading for processing granular pellets.



### Throat adapters

A variety of throat adapters are available to fit with your processing machine. The standard adapter has a 76 mm diameter inlet and 45 mm square outlet. See following pages.



### Compressed air vacuum loading lid

Use the TrueFeed with the vacuum loading option for dusty or granular materials. The vacuum loading option offers increasing pulling power and a filter to trap dust and fines. Vacuum is generated with compressed air.



### Water-cooled throat adapter

This throat adapter provides temperature isolation from hot dried material. Used when combining a temperature sensitive additive into a hot dried material.



### Dispense cylinder

Cylinders are designed to provide a non-pulsing consistent feed and are more accurate than traditional auger screws. The cylinders allow for quick and easy change out during cleaning. Several sizes are available to fit with your application.



### Alarms - visual and/or audible

An alarm light and/or a alarm horn are available to alert the operator to low material level.



### Slide mount base

Makes cleanout and calibration even more convenient and easier than the standard unit. It allows quick interchange of feeders.



### Large capacity hopper

A 12 liter hopper is available for larger throughput requirements and light density materials.



### Communications

Track material usage with the Ethernet TCP/IP communications package.



### High torque stepper motor

The high torque stepper motor is required for feeding regrind or hard to flow materials. This motor is always used in conjunction with the A-20HT or A-30HT dispense cylinder.

# Features

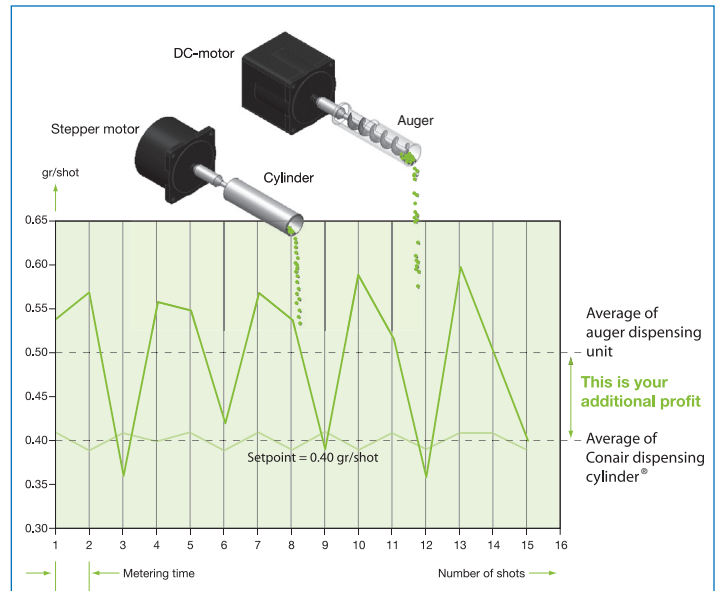
## In control of your expensive colorant and additives.

The Conair dispensing cylinder gives you outstanding control of the feeding process. The consistent feeding of this unit allows the actual setpoint to be lowered, ensuring a substantially faster return on your investment.

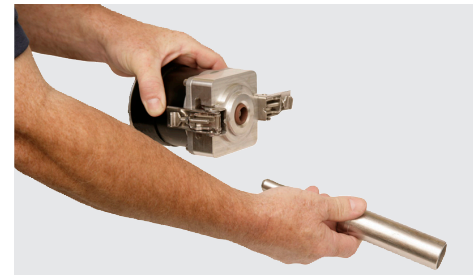
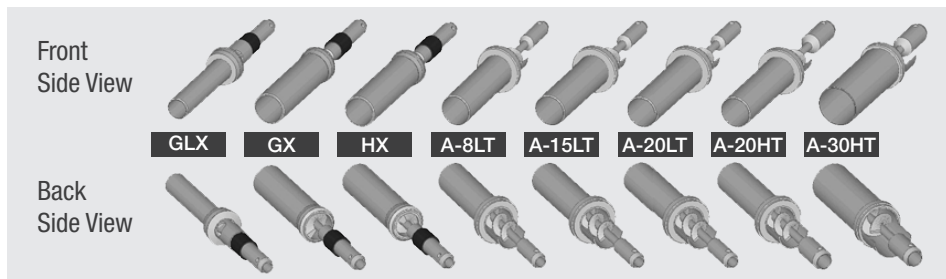
### Find your additional profits here!

**The graph compares the Conair Dispensing Cylinder to an auger.** An auger dispensing device will give an irregular output because of the pulsations created by the auger, which in turn, causes the colorant to be dispensed irregularly into the main material. A Conair Dispensing Cylinder guarantees even dispensing. The dispensing cylinder works in combination with a stepper motor that ensures exact, controllable cylinder speed time after time.

Both tests were performed under identical circumstances, using the same material.



# Dispensing Cylinders



Feeding system	Pellet material	Regrind / hard-to-flow material	Feed rate† gram/sec	Feed rate† kg/hr	Feed rate† lb/hr
GLX	Yes	No	0.01 to 1.1	0.05 to 4.1	0.11 to 8.9
GX	Yes	No	0.1 to 5.0	0.5 to 12.6	1.11 to 28.0
HX†	No	No	0.007 to 0.4	0.03 to 1.3	0.56 to 2.78
A-8LT	Yes	Yes	0.01 to 1.1	0.05 to 4.1	0.11 to 8.9
A-15LT	Yes	Yes	0.1 to 5.0	0.5 to 12.6	1.11 to 28.0
A-20LT	Yes	No	0.4 to 14.0	1.3 to 50.4	2.78 to 112.0
A-20HT*	Yes	Yes	0.4 to 14.0	1.3 to 50.4	2.78 to 112.0
A-30HR*	Yes	Yes	1.4 to 35.0	5.0 to 126.0	11.1 to 280.0

\* Used for regrind and irregular shaped materials.

† Feed rates are based on materials with a bulk density of 35 lb/ft³.

‡ For granular/free-flowing powder.

# Throat Adapters

Model	Inlet	Outlet (sq.)	Height	Top Flange (sq.)	Bottom Flange (sq.)	Bottom Mounting Center Range (sq.)
07	Ø3.0 {Ø76.2}	1.77 {45}	9.4 {239}	6.0 {152}	5.5 {140}	2.75 - 4.5 {69.9 - 114.3}
08	Ø3.0 {Ø76.2}	3.54 {90}	9.4 {239}	6.0 {152}	5.5 {180}	4.5 - 6.0 {114.3 - 152.4}
09**	Ø3.0 {Ø76.2}	1.77 {45}	9.4 {239}	6.0 {152}	5.5 {140}	2.75 - 4.5 {69.9 - 114.3}

§ Used for regrind and irregular shaped materials.

\*\* Model 09 is a water-cooled throat adapter.

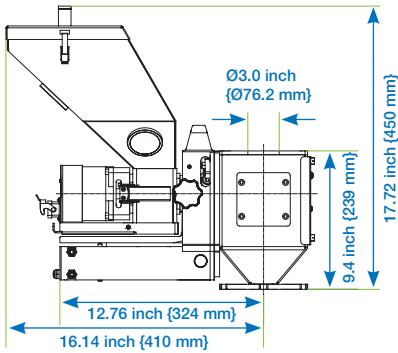
**Note:** See next page for a throat adapter drawing reference. Model 07 shown.



# Specifications

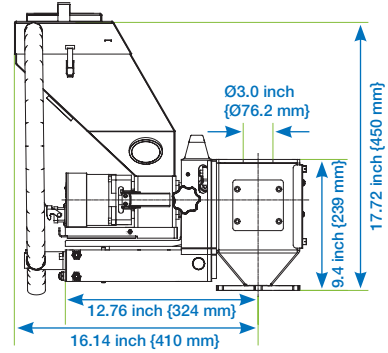
**Side view - TF01AA**

Shown with standard hand-fill lid



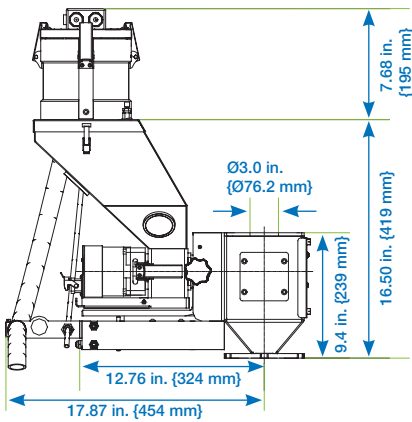
**Side view - TF01AB**

Shown with optional compressed air loading lid



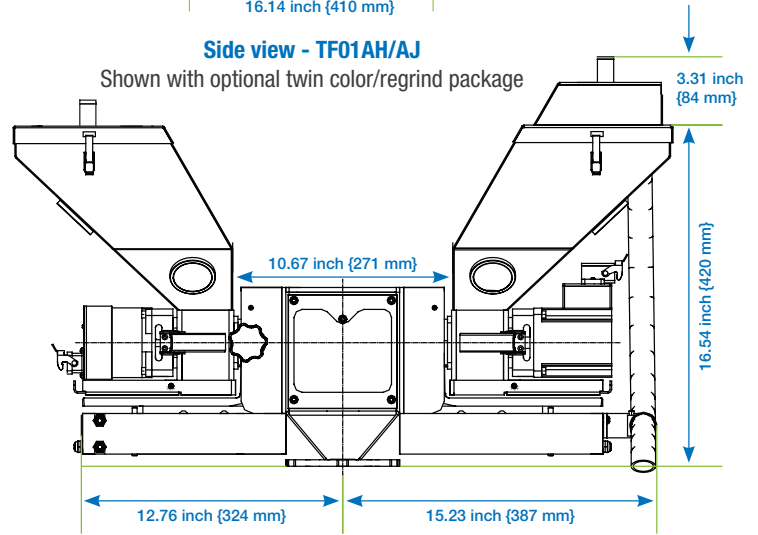
**Side view - TF01AK**

Shown with optional compressed air vacuum loading lid



**Side view - TF01AH/AJ**

Shown with optional twin color/regrind package



Throat Adapter Reference - Model 07 shown	Throat Adapter Height	Throat Adapter Bottom

Model	TF01AA	TF01AB	TF01AK	TF01AH/AJ
<b>Dimensions</b> inches {mm}	See drawings above for all dimensions except depth.			
Depth	8.31 {211}	17.94 {456}	18.94 {481}	17.94 {456}
<b>Approximate weight</b> lbs {kg}				
Standard feeder installed (empty)	49 {22}	54 {24}	65 {29}	74 {34}
Shipping (approximate)	55 {25}	60 {27}	75 {34}	84 {38}
<b>Voltage</b> Full load amps **				
120 V/1 phase/60 hz		0.75		1.5
220 V/1 phase/50 hz		0.38		0.75
<b>Loader (option) specifications</b> †‡§				
Maximum conveying distance	3 meters			
Compressed air hose	1/4 inch NPT fitting to 8 mm hose			
<b>Compressed air requirements</b>				
Compressed air loader	58 -116 psi {4 -8 bar}; 8.8 to 15.9 ft³/min {0.25 to 0.45 m³/min}			
Compressed air vacuum loader	58 -116 psi {4 -8 bar}; 8.8 to 15.9 ft³/min {0.25 to 0.45 m³/min}			
<b>Temperature ratings</b>				
Standard TrueFeed is rated up to 194°F {90°C} and additive up to 160°F {70°C}. High temperature TrueFeed (water-cooled throat) is rated for natural up to 392°F {200°C} and additive up to 160°F {70°C}.				

**Specification Notes**

- \* All models shown with 0.2 ft³ {6 liter} material hoppers.
- † Applies to Models TF01AB and TF01AK (models that are sold with the loading option).
- ‡ The loader option is provided with a control solenoid to be installed/mounted by the customer.
- § Model TF01AB - compressed air loader supplied material hose is 25 mm diameter, 3 m in length. Model TF01AK vacuum compressed air loader supplied material hose size is 38 mm diameter, 3 m in length.

\*\*FLA data for reference purposes only. Does not include any options or accessories on equipment. For full FLA detail for power circuit design of specific machines and systems, refer to the electrical diagrams of the equipment order and the nameplate applied to the machine.

Specifications may change without notice. Consult with a Conair representative for the most current information.

