Pellet-by-Pellet
Dosing Accuracy

Conair's TrueFeed Micro Feeder can count and dispense standard and micro pellets on an individual basis. This optometric feeder is perfect for micro injection molded parts and laboratory or filament extruders, as well as for dosing and blending ultra-low doses of highly concentrated additives.

The TrueFeed Micro Feeder has the ability to dose less than 5 pellets per second, thanks to the patented sensing and dosing technology. Operation is simple - enter the required dosing size in grams, calculate your production rate, choose an operating mode (injection molding, extrusion, or batch) and the Micro Feeder will automatically create the perfect recipe and rate for your application.

TrueFeed Micro Feeder (shown with throat adapter)

Optometric accuracy for standard and micro pellets

The TrueFeed Micro Feeder takes the accuracy of Conair's beloved TrueFeed feeder to the micro level. Designed for applications in the pharmaceutical, 3-D filament and small-scale laboratory extruders, the Micro Feeder also fits any batching application where pellet dosage rates are lower than those that can be dispensed by the TrueFeed Feeder.

The Micro Feeder is controlled by an 8-inch touchscreen with graphical interface. The control can operate one or two feeders. Two Micro Feeders can work together, or one Micro Feeder can be paidred with a larger, standard TrueFeed Feeder. Processors can use the feeders to blend highly concentrated additives into their own material blends instead of purchasing custom compounded materials.

How does it work? Standard or micro pellets are captured on the feeder's proprietary dosing wheel, where they are optically counted using a light signal. Pellets are then dispensed, with accuracy down to a single pellet.

▶ **Single micro pellet 100% dosing accuracy from optometric technology**
What is the lowest capacity of the Micro Feeder? One single pellet per shot. This dosing technology is unique. Developed specifically for micro-injection molding machines, an air cartridge is used to create a vacuum behind the holes in a small disc. As the disc spins, the vacuum picks up a single pellet at each hole. A sensor detects each pellet and counts the dose pellet-by-pellet. The result: 100% accuracy.
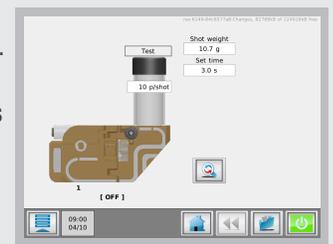
▶ **Simple multi-feeder control**
The 8-inch touch screen is easy to use and understand. Control a single or pair of Micro Feeders, or a Micro Feeder and TrueFeed combination. 500 unique recipes can be stored for quick access.
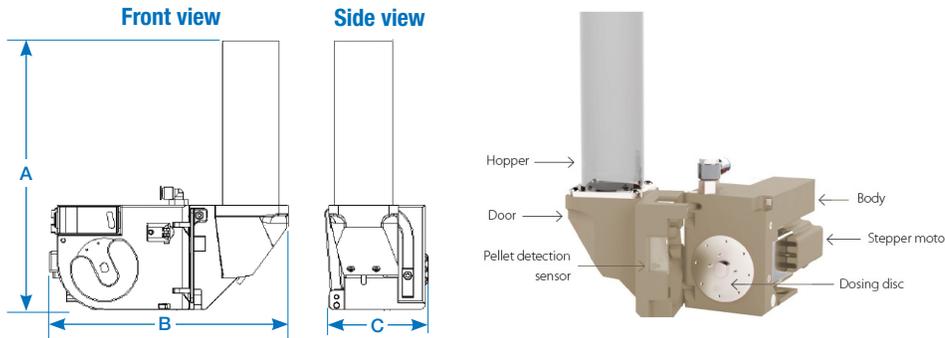
▶ **Save space**
With a small footprint, the Micro Feeder is designed to fit on any small scale machine.

▶ **Cost savings from day one**
Specially manufactured pre-compounds are very expensive. The Micro Feeder's highly precise patented dosing system makes it possible to significantly reduce material expense by using standard virgin material and masterbatch or additive to create your own "compound". Using standard materials rather than manufactured compounds, the ROI on the Micro Feeder can be felt immediately.

Specifications

Front view   **Side view**

Hopper →
Door →
Pellet detection sensor →

← Body
← Stepper motor
← Dosing disc

Model	TrueFeed Micro Feeder
Performance characteristics	
Maximum capacity/rate*	0.3 lbs/hr {0.15 kb/r} - up to 5 pellets per second
Minimum capacity/rate	one pellet per shot with an optimal feedback control
Dosing unit dimensions (not including throat adapter) inches {mm}	
A - Height	9.3 {236}
B - Width	8.2 {208}
C - Depth	3.4 {86}
Weight lb {kg}	
Shipping, including throat adapter	3.5 {1.6}
Compressed air requirements	
0.7 cfm {20 lpm}	29 - 75 psi {2 - 5 bar}
Voltage Full load amps †	
95-250 VAC, 50/60 Hz	0.75 @ 110V/1/60hz; 0.38 @220V/1/50hz

Throat Adapter Reference - Model 07 shown

Throat Adapter Top

6.0 in. {152 mm}
5.0 in. {127 mm}
Ø3.0 in. {Ø76.2 mm}

Throat Adapter Height

9.4 inch {239 mm}
5.98 inch {152 mm}

Throat Adapter Bottom

5.5 inch {139.7 mm}
1.77 inch {45 mm}
0.39 inch {10 mm}
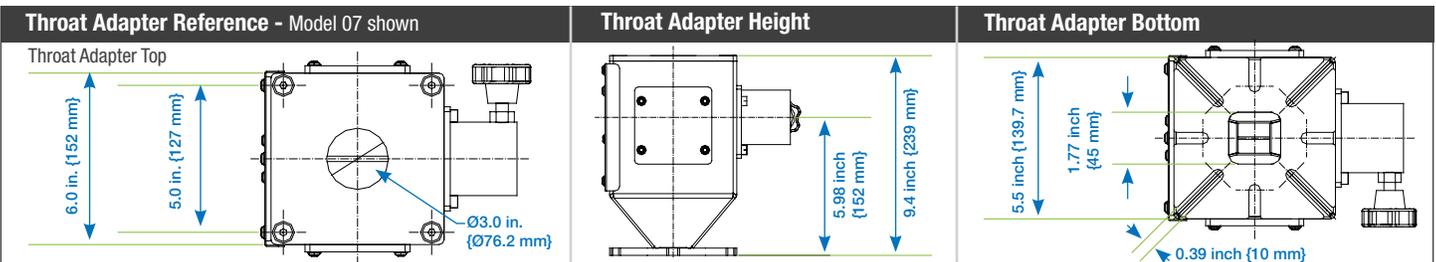
Model	Micro Feeder Control
Performance characteristics	
Power supply	95-250 VAC, 50-60 hz
Power consumption	150 watt maximum
Operating temperature	14 - 140°F {-10 - 60°C}
Weighing	20 bits A/D resolution
Input signals	
Start input	Potential free, 24 VDC, 0-30 VDC Tacho
Output signals	
Warning/alarm/filling valve	24 VDC
Alarm, running	Potential free relay
Communications	
Modbus TCP/IP	Standard
VNC (Virtual Network Client)	Optional
Data storage	Internal or via USB
Software update and recipe exchange	via USB
Dimensions inches {mm}	
E - Height	7.91 {247}
F - Width	9.29 {236}
G - Depth	3.39 {86}
H - Control bracket bolt pattern	2.36 {60}
J - Control bracket bolt pattern	6.30 {160}

F
E

Optional tilt mounting bracket

G

Mounting bracket bolt pattern

H
J