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)

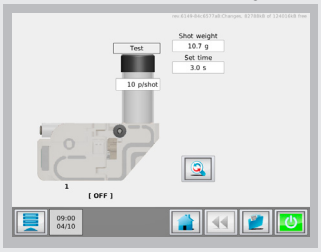
Optometric accuracy for standard and micro pellets

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**
  Throughput down to a single pellet per shot. 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.



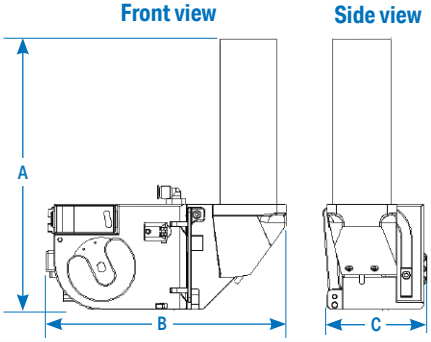
- **Simple multi-feeder control**
  The 8-inch touch screen is easy to use and understand. Control 1 or 2 Micro Feeders, or a Micro Feeder and TrueFeed combination. Store 500 unique recipes.

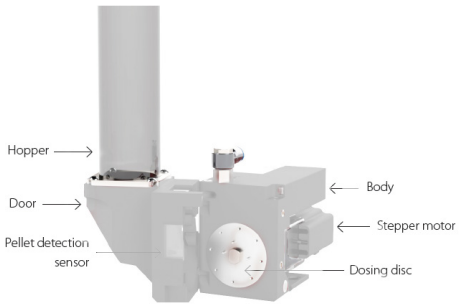
- **Save space with a small footprint**
  The Micro Feeder is designed to fit on a small machine.

- **Use with multiple pellet sizes**
  The Micro Feeder comes with 3 sizing discs for various pellet sizes and shapes. 1mm (for pellets between 1 and 2.5 mm), 1.5 mm (for pellets from 2-3.5 mm), and 2.0 mm (for pellets/shapes between 2.5 and 5 mm).

- **Cost savings from day one**
  Specially manufactured pre-compounds are very expensive. The Micro Feeder's precise patented dosing system significantly reduces 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 is immediate.

Specifications





Model	TrueFeed Micro Feeder
Performance characteristics	
Maximum capacity/rate*	0.3 lbs/hr {0.15 kg/hr} - 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

Specification Notes

* Rate is measured with uniform pellet size. 1-2.5mm pellets use the 1.0mm disc. 2-3.5mm pellets use the 1.5 mm disc. 2.5-5mm pellets use the 2.0mm disc.

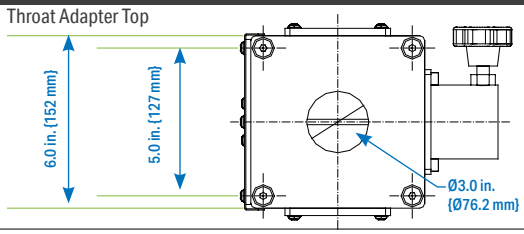
Communications: Modbus TCP/IP, optional Profibus, optional Profinet.

Control languages: English, German, Dutch, French, Hebrew, Turkish, Chinese, Thai, Japanese, Russian, Italian, Czech, Portuguese, Spanish, Indonesian, Polish, Korean, Hungarian, Swedish, Romanian.

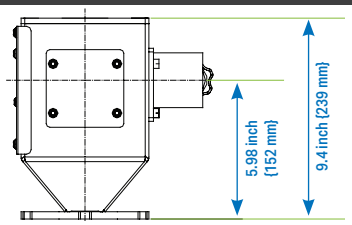
† FLA data for reference purposes only. Does not include any options or accessories on equipment. For full FLA detail for power circuit design of specific machines and systems, refer to the electrical diagrams of the equipment order and the nameplate applied to the machine.

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

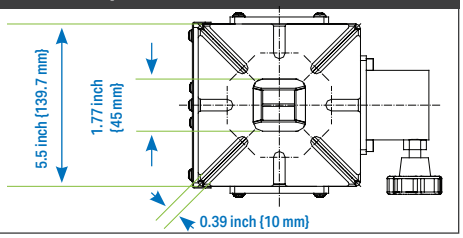
Throat Adapter Reference - Model 07 shown



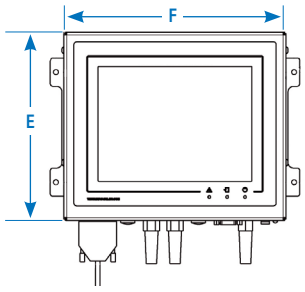
Throat Adapter Height



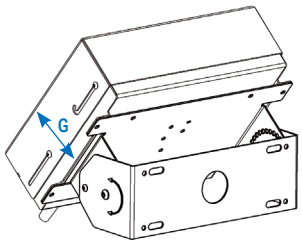
Throat Adapter Bottom



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}
Disc hole sizes	1.0 mm, 1.5 mm, 2.0 mm



Optional tilt mounting bracket



Mounting bracket bolt pattern