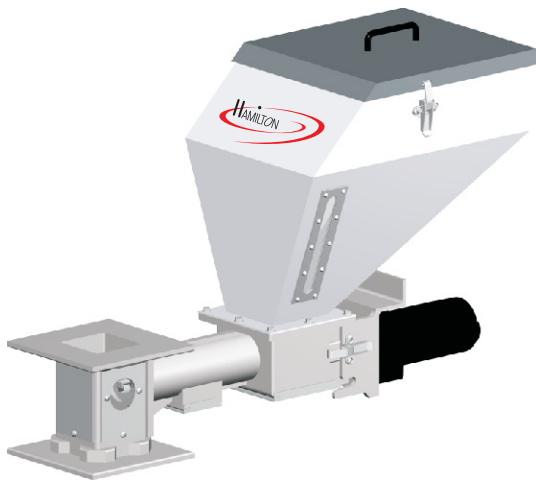




Integrating plastic technologies since 1965

# PELLET METERING FEEDER



Spectra system meters colorants/additives directly into injection, blowmolding machines and extruders. Hamilton's new Spectra is a self-contained, highly versatile metering system for precise introduction of free-flowing plastics colorants or additives to base resins as they flow into your processing machine throat. Spectra eliminates off-machine tumble mixing, spillage, waste and pre-mixed inventories and provides an economical, reliable method to custom blend materials just before they are processed. A variable-speed, D.C. motor powers a selected metering auger that volumetrically feeds colorants or additives upon a signal from either the injection or blow molding machine cycle, or in conjunction with extruder speed.

## SHIPPED READY-TO-RUN

Variety of mounting possibilities. A colorant/additive supply bin is provided which can be automatically loaded or hand filled. The bin and metering auger mount on a special throat adapter. The bin can be removed easily for cleaning. The Spectra's throat adapter mounts between the material hopper and the machine throat. Two Spectra's can feed through one adapter. By simply bolting two throat adapters together, multiple metering units can be mounted on one machine. This arrangement provides for different additives to be fed at one time, or provides nearly instant color changes on a single machine without shut down for cleaning.

## FAST, EASY AUGER AND COLOR CHANGES

Spectra's drive motor unclamps and swings out on a hinged mounting for easy access to the motor-driven auger. The operator can quickly change auger size for specific applications. A clean out door is provided on the high-grade alloy, cast aluminum base for quick emptying of the supply hopper. Spectra's supply hopper is quickly emptied through a clean out door for material changes. When the door is opened, the metering auger is disengaged as a safety precaution. A similar door is provided under the discharge end of the auger for sampling calibration. A safety grill is provided in the metering port.

## AVAILABLE OPTIONS:

- Brushless AC drive
- Digital display (Dc drive only, standard on AC option)
- Thumbwheel setpoint (Dc drive only, standard on AC option)
- Tach follower control (Dc drive only, standard on AC option)
- Injection control (Dc drive only, standard on AC option)
- Cutout for loader mounting

## FEEDER AUGER SELECTION:

Grams/hr continuous extrusion (Lbs/hr)						
RPM	10	20	30	40	50	60
1/2"	480 (1.05)	960 (2.1)	1140 (3.2)	1920 (4.2)	2400 (5.3)	2880 (6.3)
3/4"	2400 (5.3)	4800 (10.6)	7200 (16.8)	9600 (21.1)	12000 (26.4)	14400 (31.7)
1"	5100 (11)	10200 (22)	15300 (34.7)	20400 (45)	25500 (56)	30600 (67)
1 1/2"	16200 (36)	32400 (71)	48600 (107)	64800 (143)	81000 (178)	97200 (214)
2"	30900 (68)	61800 (136)	92700 (204)	123600 (272)	154500 (340)	185400 (408)

**Time:** measured from auger stop

**RPM:** motor RPM can be infinitely adjusted from 0-60

**Select:** auger closest to 30 RPM

**OPTIONAL ACV BRUSHLESS DRIVE**

The ACV brushless drive option gives you the flexibility of RPM and torque combinations, packaged with a premium variable frequency inverter drive for precise control and a customized metering throughput.

Integration of features such as brushless, RPM, torque and throughput make this option package a preferred choice to the most demanding processor.



**CONTROL FEATURES:**

- Micro Ac inverter
- Nema 4 enclosure
- 3 Digit L.C.D. display
- Injection control (dry contact needed on injection machine)
- Tach follower function (0-2 mA analog signal) (4-20 mA analog signal) (0- 10VDC analog signal)

**BH OPTION**

For applications requiring larger through puts, the Hamilton BH hopper option provides double the capacity (2 CuFt) of the standard hopper and will adapt easily to our 8 through 15 inch loaders.

