

A state-of-the-art, precise, single component gravimetric feeder for color concentrate and additives.

Comet's ColorSave 1000 gravimetric feeder ensures uniform, precise metering regardless of material density changes. Its compact, low hopper profile design makes it ideally suited for installation on injection molding, extrusion, and blow molding machines. Use the ColorSave 1000 instead of a volumetric feeder to ensure overall savings by reducing color concentrate tolerance values.

Features

- Accurate consistency prevents over-metering material.
- Easy maintenance and cleaning when switching colors or material.
- Simple operation with automatic calibration (zero setup time) ensuring maximum efficiency.
- Proprietary control software for real-time data collection and management of color concentrate consumption.
- Integrated automatic Venturi vacuum loader for color concentrate.
- Loss-in-weight control function for optimum adjustment of the operating point.
- Improves final product quality and reduces the number of rejects.
- Patented inner weigh hopper ensures resistance to mechanical shock and vibration.
- Consistent delivery of shot-weight.
- Easy setup time, stores up to 999 recipes.
- Easily replace feed screw.



Feed Throat Transitions

ColorSave 1000 includes a standard hexagonal transition piece.



Hexagonal Transition Piece (standard)



Cooled Transition Piece



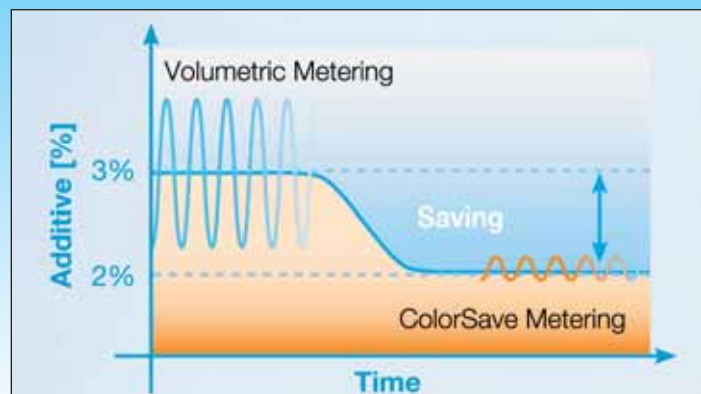
Transition Piece with Mixer

Also available upon request:

- Cooled transition piece, useful when the main material is dried PET 392°F (200°C).
- Neckpiece with mixer, for maximum mixing capabilities.

Significant Savings When Compared to Volumetric Feeders and Batch Blenders

- **Saves up to 50%** on color concentrate/additives when compared to volumetric feeders by reducing tolerance values.
- **Saves up to 35%** when compared to remote batch blenders.
- **Saves up to 15%** when compared to on-the-machine throat batch blenders.



Specifications & Dimensions

Hopper	3 / 5 / 10 liter (painted steel/stainless steel)
Output Range	0.02 – 80 kg/hr
Motor	Brushless DC
Controller	Control unit with alphanumeric display
Load Cell	15 kg max., temperature compensated
Loader	Automatic, integral Venturi vacuum loader
Mounting & Feeding	By transition piece adapter, directly to machine feed throat
Alarm Output	N/O dry contact, 24V/30mA max. Activated at: filling/overdose/no-fill failure
Data Recording	Total time, total weight
Power	100-240V, 200W 50-60 Hz. Fuse rating: 2
Communication	TCP/IP
Weight	35 lbs (16 kg)

Dimensions	Volume 3 Liter	Volume 5 Liter	Volume 10 Liter
A	586	636	665
B	186	210	250
C	277	290	340
D	490	490	500
E	105	105	105
F	140	140	140
G	90	90	90
H	200	200	200
I	62	62	62

Specifications and dimensions are subject to change without notice.

ColorSave 1000 Applications

	Injection Molding	Extrusion	Blow Molding
Operation Principle	Batch operation. Online metering and control of color concentrate/additive batches.	Continuous operation. Online metering and control of color concentrate/additive flow rate (kg/hr).	Continuous operation. Online metering and control of color concentrate/additive flow rate (kg/hr).
Set Point	Setting of desired color concentrate/additive percentage and shot weight.	Setting of desired color concentrate/additive flow rate (kg/hr) or desired percentage from extruder throughput.	Setting of desired color concentrate/additive percentage and shot weight.
Input Signal	Dry contact input for synchronization with injection cycle.	Dry contact input for synchronization with extruder on/off operation and analog input 0-10V relative to extruder's speed (RPM)	Dry contact input for synchronization with extruder on/off operation and dry contact input from blowing machine for synchronization with blow cycle.
Data Recording	Accumulated number of injection cycles and color concentrate/additive weight as well as average percentage.	Accumulated data (total color concentrate/additive consumed in kg).	Accumulated total color concentrate/additive consumed in kg and number of cycles.

