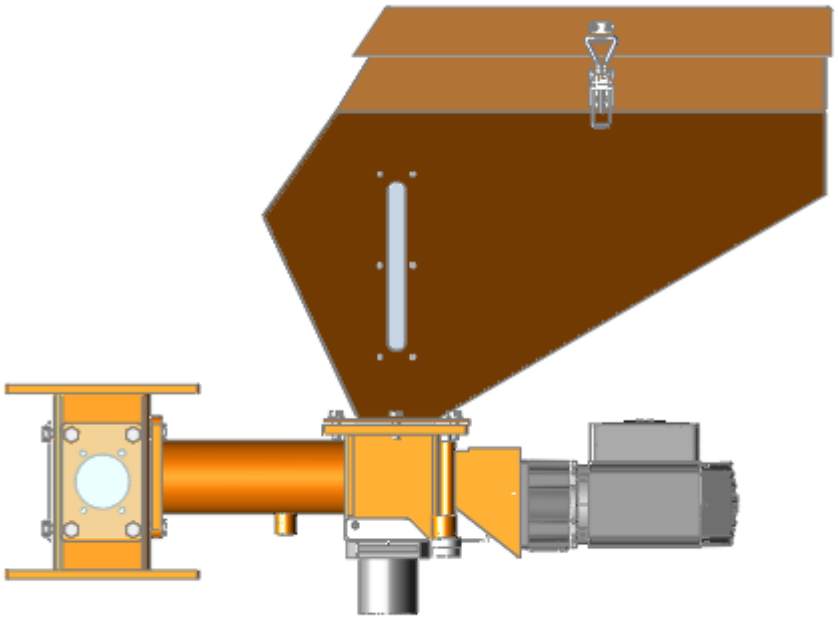
PLASTICOLOR 4000



Plasticolor 4000 shown with AC Motor Optional Quick Drain

THE PLASTICOLOR 4000

The heavy-duty Plasticolor 4000 is ideal for those big jobs of feeding virgin material, regrind or other additives at feed rates of up to 5,000 pounds-per-hour. It looks similar to the PC3000, but bigger diameter body allows use of larger feed screw

The Plasticolor 4000 accurately adds free-flowing plastic material or additives to the production process directly at the throat of the machine ... a capability that can greatly reduce manufacturing costs and provide expanded manufacturing capabilities. The Plasticolor is ideal for extrusion, injection molding, and blow molding applications alike.

Basic feeder operation is straightforward. The Plasticolor feeder is mounted on a neckpiece installed directly under the production machine's main material hopper.
The feeder then uses a feed screw assembly to meter the additive material into the primary material stream, passing through the neckpiece material stream passing through the neckpiece.

The additive feed rate is selected and controlled by a solid-state controller that controls the speed of the motor that drives the feed screw.

PLASTORE, INC. - 1570 Georgetown Rd. - Hudson, OH 44236
PN:330-653-3047 FX: 330-653-3052
Web: www.plastore.com E-mail: sales@plastore.com

PLASTORE®
Solutions for the Plastics Industry

THE PLASTICOLOR ADVANTAGES INCLUDE:

Accuracy. Premium motor with available closed-loop speed control and precision feed screws assure accurate, consistent feed rates.

Reliability. The Plasticolor is built to last! It uses cast aluminum and welded steel plate construction for strength and rigidity ... assuring long life and absolute minimum maintenance cost.

Serviceability. Feeds crews are changed in a few minutes, and additives can be changed even faster ... all without tools or removing the hopper from the feeder.

Ease of Operation. Simple, easy-to-use controls make sure that anyone can operate the feeder to get accurate, repeatable results ... even while the unit is on-line.

Versatility. Multiple feed screw combinations and motor speeds handle most types of free-flowing, nonbridging materials. Whether the fed material is strand cut, dice-cut, or bead... round or square ... big or small... your Plasticolor can be custom configured to handle it out of
standard components. Interchangeable feed screws allow the same feeder to be used to feed ounces or pounds of material. Multiple Plasticolor feeders on the same neckpiece solve the problem of feeding multiple additives at the same time.

Flexibility. Custom neckpieces and hoppers can be specified to tailor the Plasticolor to your application. Standard options include items such as: Hopper Loaders, Feeder Speed-to-Extruder Speed Synchronizers, Feeder Dosage Size Limiters, Custom Control Cabinets, Hopper Level Alarms, and Special Feed screws ... all designed to optimize the Plasticolor for your specific application.

Feedscrew Assemblies and Feed Rates for PC4000

	FEEDSCREWS
Motor	58/70 Blue
G-260	88 -2,650 (40 - 1,202)
G-500	121 - 5,000 (55 - 2,270)

Feed Rates listed are in Pounds per Hour, and (Kg/hr) and are based on polystyrene.

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AC MOTOR AND CONTROL

DRIVE DESCRIPTION:

The single feeder drive is a Yaskawa V1000 AC controller installed in an enclosure that meets NEMA type 4X/12 indoor use requirements.

200VAC-230VAC, 1 Phase/3 Phase, 50/60 Hz Input

Dimensions: L=8.75" x W=6.12" x H=7.15"

DRIVE FEATURES:

- **4-Digit LED digital operator status display**
- **Auto restart**
- **Analog input**
- **Multifunction relay output**
- **Two multifunction open collector outputs**
- **Analog output**
- **RS485 Modbus RTU communication port**
- **Remote speed reference: 0-10 VDC (20 kohms) or isolated 4-20 mA (250 ohms)**
- **Analog monitor output: 0-10 VDC proportional to output frequency or output current**
- **MTBF: exceeds 28 years**

DRIVE OPTIONS:

- **Synchron slave**

MOTOR DESCRIPTION:

The Plastore AC drive system offers reliability and durability. We have paired the versatile Yaskawa V1000 AC drive with a custom designed Groschopp AC gear motor.

Existing Plastore feeders can be easily upgraded to this AC drive system.

MOTOR DESCRIPTION:

230V / 0.110hp / 3400 rpm / 3 phase AC Gear Motor

MOTOR FEATURES:

- **Dynamically balanced**
- **Ball-bearing construction**
- **All aluminum frame**
- **Durable, powder coating**
- **NEMA 1.15 service factor**
- **Run capacitor**
- **Class "F" insulation**
- **Auxiliary shaft**

MOTOR OPTIONS:

- **170 RPM, 340 RPM & 680 RPM**
- **Optional Encoder**

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