



## Most affordable continuous casting solution for low to mid-volume automated continuous casting production requirements



**Application:** Automated, continuous casting for cultured marble, cultured granite and cultured onyx.

The Economizer is intended for low to medium volume production requirements. It does not include all the features and capacity of the higher capacity Autocaster Ultra, but provides many of the benefits of continuous casting at a lower price point.

Replacing manual mixing and casting with the Autocaster Economizer continuous casting system will significantly increase productivity, increase production throughput, cut material costs and improve quality – all leading to increased profits!

The Economizer is available in a base configuration, but has fewer customization and expandability options than the Ultra. You may find that the features you need are available exclusively with the Ultra, or if your production requirements are increasing over time, you may find that the Ultra provides a better long term casting solution for your requirements.

### Standard Features:

*The base configuration includes these standard features:*

- Standard matrix output range for a base Economizer is 30 - 60 lb (13.6 - 27.2kg/minute); higher output options available.
- Recipe-based matrix control with on-the-fly adjustments for resin %, catalyst % and matrix output.
- Recipes are stored as a Recipe number (rather than a recipe name on the Ultra)
- Password protected control panel with color display gives access to all functions including metering calibration, recipe definition, totals, diagnostics, alarms, setup and cleaning.
- Integrated resin heating system.
- High-efficiency mixer with hardened steel mixing auger.
- Modular base-color systems with removable base color pumps.
- Totalizer for all raw materials (except contrast color)
- Precision metering pumps for resin and base-color, and piston pump for catalyst
- Accurate filler metering auger with integrated anti-bridging devices
- Adjustable flow contrast color injectors
- Inverter controlled motors for all raw materials (except contrast color)
- Easy, convenient post production two-stage cleanup and final air purge.

Shown above: Autocaster Economizer

The Autocaster Economizer system is offered in either Cultured Marble, or Polymer Concrete base configurations.

Slight differences are visible between the two versions.

Optional upgrades are available to customize your machine.

For added versatility, capacity and features, please review the Autocaster Ultra casting system.

# Autocaster Economizer

## Product Bulletin (continued)

### Order Information:

#### Base Systems - Description/Order Number

- Autocaster Economizer/Cultured Marble, 190-240V, Crated (Voltages: 230-240V USA; 190/220V Intl) - #EC1H-200\*
- Autocaster Economizer/Cultured Marble, 380-480V, Crated (Voltages: 460-480V USA; 380/415V Intl) - #EC1H-400\*\*
- Autocaster Economizer/Polymer Concrete, 190-240V, Crated (Voltages: 230-240V USA; 190/220V Intl) - #EC1HPC-200\*
- Autocaster Economizer/Polymer Concrete, 380-480V, Crated (Voltages: 460-480V USA; 380/415V Intl) - #EC1HPC-400\*\*

\*Other voltages available. Specify voltage when ordering.

#### Base Cultured Marble configuration includes:

- Standard Mixing Auger
- One (1) Metering hopper (3 maximum option)
- One (1) Base color (4 maximum option)
- Two (2) veining colors (4 maximum option)
- Resin heater
- Catalyst system
- Two-stage cleaning (fresh and recycled cleaning solutions), with air purge.

#### Base Polymer Concrete configuration includes:

- Polymer Concrete Mixing Auger
- One (1) Metering hopper (add up to 2 additional hoppers by adding Small Aggregate, Large Aggregate, or High-Volume Metering Hopper upgrades shown below)
- One (1) Base color (4 maximum option)
- Resin heater
- Catalyst system
- Two-stage cleaning (fresh and recycled cleaning solutions), with air purge.

#### Optional Economizer Upgrades:

- add Metering Hopper Assembly (each) - #30ACFH
- add "High Output" Metering Hopper with open auger flights
- add Small Aggregate Filler Metering Hopper (for Polymer Concrete Economizer only) - with solid core auger shaft
- add Large Aggregate Filler Metering Hopper (for Polymer Concrete Economizer only) - with solid core auger shaft
- add 1 Base Color - #CMBCS-1C
- add 2 Base Color - #CMBCS-2C
- add 3 Base Color - #CMBCS-3C
- add 4 Base Color - #CMBCS-4C
- add Vein Color (each) - #162535
- Digital Batch Display Assembly - #162966
- Polymer Concrete Mixing Auger upgrade - CALL
- Cartridge Filter Upgrade - CALL
- Expanded Heat Exchanger (High Output Option) - #163500
- Machine Commissioning - #009903

### Specifications

#### Matrix Output:

- Standard matrix output range for a base Economizer is 30 - 60 lb (13.6 - 27.2kg/minute); higher output options available.

#### Mixing System

- Hardened steel auger
- High efficiency mixer

#### Filler System

- Inverter controlled adjustable output
- Maximum particle size 2mm
- Hopper capacity 4 cu. ft. (0.113 cubic meters)
- Integrated anti-bridging device

#### Resin System

- Maximum 2000 centipoise promoted polyester resin
- Overpressure sensor
- Inverter controlled adjustable output
- Integrated recirculating thermal fluid-based heat exchanger
- Gravity feed resin input with inline mesh filter strainer

#### Catalyst System

- Unique precision piston pump
- Overpressure sensor and bypass
- Recirculating system with electronic flow sensor and visual display
- Inverter controlled adjustable output
- Storage capacity of 5 gallons (18.9 liters)

#### Base Color System

- Uses liquid paste pigments up to 2500 centipoise (at operating temp.)
- Inverter controlled adjustable output

#### Contrast Color System

- Use liquid paste pigments up to 2500 centipoise (at operating temp.)
- 0.0 to 999.9 second pause and pulse settings
- Injectors incorporate flow control knob
- Recipe-controlled on/off cycling

#### Cleaning System

- Two-stage cleaning (fresh and recycled cleaning solutions), with air purge.
- Fresh cleaning solution storage capacity - 5 gallons (18.9 liters)
- Recycled cleaning solution storage capacity - 15 gallons (56.8 liters)
- Recommended for use with DBE (Marblewash or equivalent)

#### Control System

- Store numbered recipe presets
- Control panel on control box (smaller user interface than Ultra)
- Integrated rate display and totalizers

#### Electrical System

- 230/460 VAC, 3-Phase, 50/60 Hz, 70 amps max.
- 24V DC control circuit

#### Dimensions

- 41" wide x 89" deep x 98" high (104cm x 226cm x 249cm)

#### Air Supply

- 90 psi, 20 CFM

#### Net Weight

- 3500 lbs (depending on exact configuration)



Process Control Equipment for Composites Manufacturing

**Gruber Systems, Inc.**

29071 The Old Road  
Valencia, CA 91355

Tel: +1 (661) 257-4060

Fax: +1 (661) 257-4791

Email: [info@grubersystems.com](mailto:info@grubersystems.com)

Web: <https://grubersystems.com>