



Autocaster™ PC

Product Information

Application:

The Autocaster™ Ultra/PC (polymer concrete edition) continuous casting machine automates the production and casting of polymer concrete matrix for polymer concrete manufacturing. Replacing manual mixing with the Autocaster can significantly increase productivity, cut material cost and improve quality - all leading to increased profits for the manufacturer. Our many years of experience with continuous casting machines and cast polymer manufacturing equipment have led to innovative improvements that have been incorporated into the Autocaster Ultra/PC system.

Provided with the standard base unit are three filler metering systems, one resin metering system, one catalyst metering system, and one base-color metering system. Additional raw material systems can be supplied as needed.

Description:

The base Autocaster Polymer Concrete machine includes:

- Up to 100 lb (45kg) per minute matrix production
- Recipe-based matrix control with on-the-fly adjustments for resin %, catalyst % and matrix output
- High-efficiency, easily replaceable Tungsten Carbide coated separate component mixing auger and case hardened mixing barrel
- Three filler metering hoppers standard (more can be added)
- Inverter-controlled motors for all raw materials
- Accurate filler metering augers with integrated anti-bridging devices
- Integrated resin heating system
- Totalizer for all raw materials
- Precision gear pumps for resin, catalyst and base-color
- Modular base-color systems with removable base-color pump

Options:

- Additional metering hopper - #30ACFH
- Add additional Base Color capability (beyond 1 base color provided in standard configuration) - to add 1 additional Base Color (#CMBCS-1C), to add 2-Colors (#CMBCS-2C), to add 3-Colors (#CMBCS-3C)
- Filler flow system for difficult to meter fillers
- Ground Hoppers for variety of fillers and large aggregate fillers
- Fiberglass Strand Chopper - #700CA
- Cobalt Unit - #151000
- Matrix batch meter with run-time reset for accurate mold filling
- Expanded Heater Option - #163500

Equipment Requirements:

All Models should be hard-wired to an appropriate circuit by a qualified electrician to meet your local electrical codes. Additional controls may be necessary to meet your local regulations. Any additional requirements needed to deem this equipment operational will be obtained by buyer at buyer's expense.



Specifications:

MATRIX OUTPUT	<ul style="list-style-type: none"> Up to 100 pounds (44kg) per minute
MIXING SYSTEM	<ul style="list-style-type: none"> Case hardened barrel High efficiency, variable speed mixer
MOTORS	<ul style="list-style-type: none"> 230 Volt AC TEFC or optional explosion proof Mixing unit – 7.5 HP Raw material feed units - 3/4 HP Thermal pump unit - 1/2 HP
FILLER SYSTEM	<ul style="list-style-type: none"> Three Filler (Metering) Hoppers standard Inverter controlled adjustable output 4 - 100 pounds (10 - 44 kg)/min Hopper capacity 4 cubic feet (0.113 cubic meters) Integrated anti-bridging device for polymer concrete
RESIN SYSTEM	<ul style="list-style-type: none"> Maximum 2500 centipoise promoted polyester resin Overpressure sensor and bypass Inverter controlled adjustable output 1.5 to 15 lbs/min. Integrated recirculating thermal fluid based heat exchanger with 12kW heater Gravity feed resin input
CATALYST SYSTEM	<ul style="list-style-type: none"> Precision gear pump Overpressure sensor Recirculating system with dual electronic flow sensors and visual display Inverter controlled adjustable output 10 to 300 grams/min. Storage capacity of 5 gallons
BASE-COLOR SYSTEM	<ul style="list-style-type: none"> One Base Color feed system standard Precision gear pump Uses liquid paste pigments up to 2500 centipoise Inverter controlled adjustable output 0.1 to 1.0 lbs/min. 5 gallon storage tank
CLEANING SYSTEM	<ul style="list-style-type: none"> Dual cleaning system – internal and recirculating. Air purge included Internal cleaner 5 gallon storage, Recirculating cleaner 15 gallon storage Recommended for use with DBE (Marblewash or equivalent) Emergency flush valve
CONTROL SYSTEM	<ul style="list-style-type: none"> LCD Display and Keypad Recipe presets with on-the-fly adjustments for resin, catalyst and output Control panel mounted on adjustable arm Integrated rate display and totalizers
ELECTRICAL SYSTEM	<ul style="list-style-type: none"> 230/380/480 Volt, 3-Phase, 50/60 Hz, 80 amps max. Specify voltage. 24VDC control circuit
AIR SUPPLY	<ul style="list-style-type: none"> 90 psi, 20 CFM
DIMENSIONS	<ul style="list-style-type: none"> 54" wide x 80" deep x 112" high (137.2cm x 203.2cm x 284.48cm)
NET WEIGHT	<ul style="list-style-type: none"> Approx. 3500 lb (depending on configuration)



Molds and Process Control Equipment for Composites Manufacturing

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