



# Autocaster™ PC

## Product Information

### Application:

The Autocaster continuous casting machine automates the production of polymer concrete matrix for cast 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 Recipe Controlled continuous casting machine.

### Description:

The base Autocaster Polymer Concrete machine includes:

- Up to 100lbs (44kg)/minute matrix production
- Integrated resin heating system
- Totalizer for all raw materials
- Inverter controlled motors for all raw materials
- Precision gear pumps for resin, catalyst and base-color
- Recipe based matrix control with on-the-fly adjustments for resin %, catalyst % and matrix output
- Accurate, hollow-core filler metering augers with integrated anti-bridging devices
- Modular base-color systems with removable base-color pump
- Pack hardened high output steel machined transit auger and barrel
- High efficiency, easily replaceable Tungsten Carbide coated separate component mixing auger
- Provided with the base unit are, two 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.



### Options:

- Remote office computer interface
- Matrix batch meter with run-time reset for accurate mold filling
- Ground hoppers and controls for bulk bag or manual hopper filling
- Filler Flow System for difficult to meter fillers
- Chopper metering system
- Additional metering hoppers

### 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"> <li>Up to 100 pounds (44kg)/minute</li> </ul>
MIXING SYSTEM	<ul style="list-style-type: none"> <li>Pack hardened mixing auger and barrel</li> <li>High efficiency, variable speed mixer</li> </ul>
MOTORS	<ul style="list-style-type: none"> <li>230 Volt AC TEFC or optional explosion proof</li> <li>Mixing unit – 7.5 HP</li> <li>Raw material feed units - 3/4 HP</li> <li>Thermal pump unit - 1/2 HP</li> </ul>
FILLER SYSTEM	<ul style="list-style-type: none"> <li>Two Filler System Hoppers standard</li> <li>Inverter controlled adjustable output 4-100 pounds (10-44 kg)/min</li> <li>Hollow core metering auger</li> <li>Hopper capacity 4ft<sup>3</sup></li> <li>Integrated anti-bridging device for polymer concrete</li> </ul>
RESIN SYSTEM	<ul style="list-style-type: none"> <li>Maximum 2500 centipoise promoted polyester resin</li> <li>Overpressure sensor and bypass</li> <li>Inverter controlled adjustable output 1.5 to 15 lbs/min.</li> <li>Integrated recirculating thermal fluid based heat exchanger with 12kW heater</li> <li>Gravity feed resin input</li> </ul>
CATALYST SYSTEM	<ul style="list-style-type: none"> <li>Precision gear pump</li> <li>Overpressure sensor</li> <li>Recirculating system with dual electronic flow sensors and visual display</li> <li>Inverter controlled adjustable output 10 to 300 grams/min.</li> <li>Storage capacity of 5 gallons</li> </ul>
BASE-COLOR SYSTEM	<ul style="list-style-type: none"> <li>One Base Color feed system standard</li> <li>Precision gear pump</li> <li>Uses liquid paste pigments up to 4000 centipoise</li> <li>Inverter controlled adjustable output 0.1 to 1.0 lbs/min.</li> <li>5 gallon storage tank</li> </ul>
CLEANING SYSTEM	<ul style="list-style-type: none"> <li>Dual cleaning system – internal and recirculating.</li> <li>Air purge included</li> <li>Internal cleaner 5 gallon storage, Recirculating cleaner 15 gallon storage</li> <li>Recommended for use with DBE (Marblewash or equivalent)</li> <li>Emergency flush valve</li> </ul>
CONTROL SYSTEM	<ul style="list-style-type: none"> <li>LCD Display and Keypad</li> <li>100 recipe presets with on-the-fly adjustments for resin, catalyst and output</li> <li>Control panel mounted on adjustable arm</li> <li>Integrated rate display and totalizers</li> </ul>
OPTIONS	<ul style="list-style-type: none"> <li>Optional office monitoring</li> <li>Optional Internet monitoring</li> <li>Optional Excel data collection capability</li> <li>Optional additional raw material feed systems</li> </ul>
ELECTRICAL SYSTEM	<ul style="list-style-type: none"> <li>230 Volt, 3 Phase, 50/60 Hz, 80 amps max.</li> <li>24V DC control circuit</li> </ul>
AIR SUPPLY	<ul style="list-style-type: none"> <li>90 psi, 20 CFM</li> </ul>
DIMENSIONS	<ul style="list-style-type: none"> <li>54" wide X 80" deep X 112" high</li> </ul>
NET WEIGHT	<ul style="list-style-type: none"> <li>3500 lbs.</li> </ul>



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