



## INDUSTRIAL GRID CASTING MACHINE MODEL 450C

### THE LARGEST MACHINE IN THE INDUSTRY HANDLES SOFT OVER-SIZED ALLOY GRIDS WITH EASE.

The safest and softest ride for grids up to 14.75" (375mm) x 32" (813mm) over the lugs... 18" (457mm) x 36" (914mm) overall mold size. Our 450/450C caster is designed to get your soft alloy, industrial size grids to the stacker in top condition. After casting, our process pivots the mold to a horizontal position and ejects the grid to a receiving platform. It is then transferred through water spray to cool and strengthen prior to trimming, trimmed and lowered to a stacker plate, then transferred to the stacker rails, all at a production rate of 3-4 grids per minute.

The 450/450C features the latest PLC and touch screen technology and software to give you complete control of the process. And it's built to the same high quality that you've come to expect from any Wirtz machine.



# AUTOMATIC CASTING MACHINE MODEL 450C

The Wirtz 450/450C has been developed as a solution to casting large soft grids. Controls and grid handling features have been optimized for maximum production with minimum damage.

## General Specifications

PLC: Allen Bradley SLC Series  
Programming Language: Ladder Logic  
Touch Screen: Allen Bradley Panel View 550  
Hydraulics: Operated with variable volume Pressure compensating 30 GPM (115 l/min) self-contained power unit

## Features

- Fully automatic
- Fully programmable
- For grid molds up to 18" (457mm) x 36" (914mm) overall size
- Ammeters to indicate functions of electrical circuits (4 required)
- Unique grid handling system designed for soft alloys
- Stainless steel roller conveyors
- A special designed hinged mold carrier which allows easy access for corking
- Central lubricating system 6 locations, which will tie multiple grease lines to centrally located points
- Up to 13 zones of precise temperature control, 9 temperature-controlled loops for the grid molds
- 12 easy accessible temperature programs designed specifically for each grid type
- Wirtz patented shielded lead delivery system
- Precise dispense time infinitely variable based on the type of grid
- Trim and stack operation is fully hydraulic
- Special mold cooling hoses for operating with Ucon fluid
- Available with floor or elevated lead furnace
- Main electrical enclosure has refrigeration unit for maximum reliability at high ambient temperatures
- Energy efficient electrical low maintenance feedline
- Built to NFPA and IEC electrical standards

## Utility Requirements

### Electrical

460v, 60hz, 3-phase standard  
200v to 575v, 50hz or 60hz, 3-phase available upon request

### Air

80-100 PSI, 40 SCFM required

### Water

20 PSI at 80 GPH

### Fuel

Natural gas (1000 BTU/CU FT)  
5" - 14" water column / 25 SCFH  
Propane gas (2500 BTU/CU FT)  
5" - 14" water column / 10 SCFH

### Ventilation

1000 CFM

## Production

3 to 4 castings per minute

## Dimensions

Length: 235" (5972mm)  
Width: 190" (4825mm)  
Height: 78" (1982mm)

## Options

Auto Fill  
Drip Eliminator

