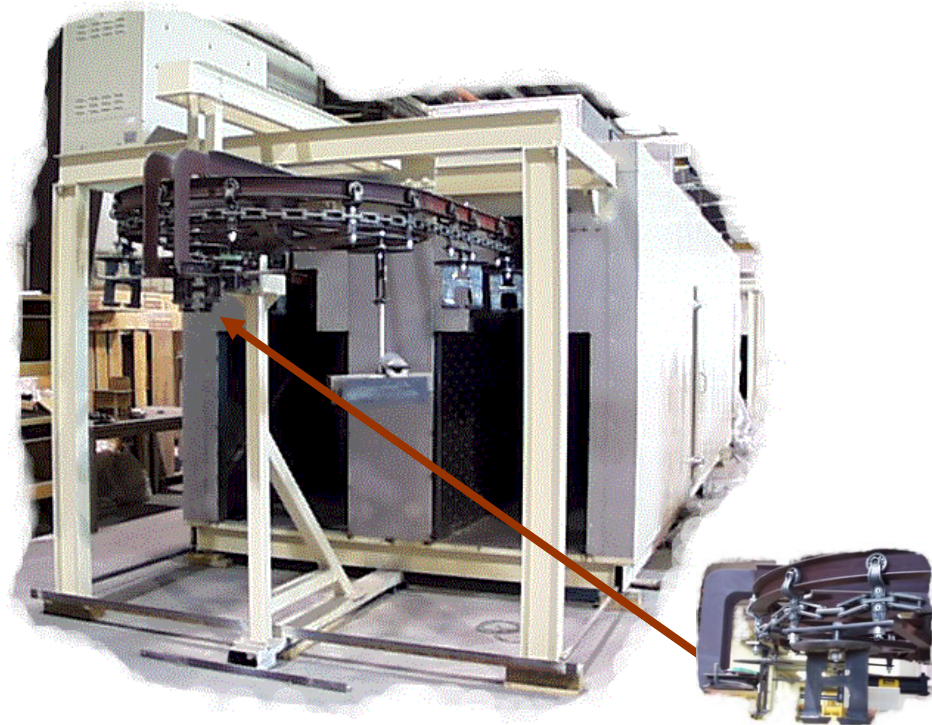


# Monorail Mold Drying System



Pneumatic load/unload latching system ensures accurate positioning for pick-and-place machinery

## Investment Casting Mold Dryers

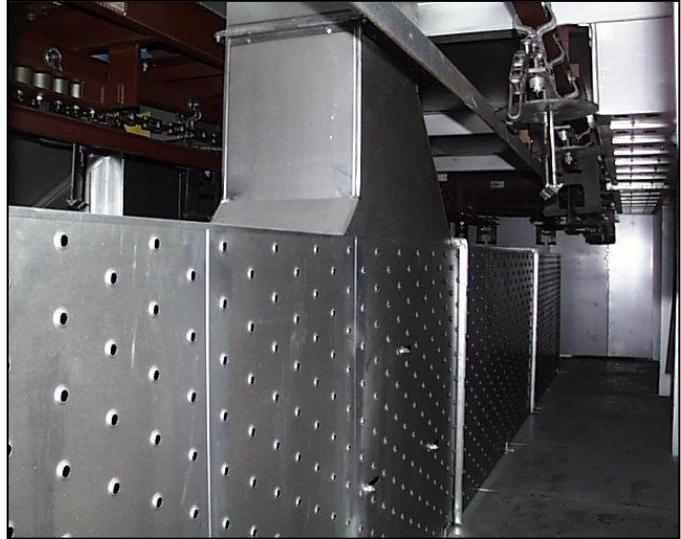
The Lanly Company has specialized in the engineering and manufacturing of recirculating convection dryers for over 68 years. The Monorail Mold Dryer was designed for drying a variety of mold shapes used in the investment casting of light metal alloy parts. The hanging trolley system, coupled with a variable speed conveyor, provides a significant amount of flexibility for products of various sizes and shapes. The monorail track includes a continuous rotation system to ensure uniform drying. Multiple full-length access doors offer easy maintenance and increased productivity.

- Corrosion resistant, aluminized steel construction
- High volume air circulation for superior temperature uniformity
- Integrated desiccant heating, dehumidifying, condensing system and latent cooling system by Kathabar, Inc.
- Duct mounted electronic steam generator for humidification
- Control includes a variable frequency drive and reversing motor

## FEATURES

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- ▶ Lanly insulated, interlocking panel construction. Aluminized steel with painted exterior surfaces.
- ▶ All ductwork is four-sided aluminized steel using radius inlet ports to provide a uniformly distributed blanket of air the full length of the dryer.
- ▶ Central high volume, conditioned and balanced, air distribution duct system ensures greater air-to-product contact for increased efficiency.
- ▶ Traction wheel caterpillar drive unit with variable frequency drive and reversing motor.
- ▶ Full opening, gasketed access doors provide complete access along both sides of the oven for “walk-in” inspection and cleaning.



Interior showing central four-sided, radius inlet port, supply duct surrounded by monorail track

## STANDARD DESIGN SPECIFICATIONS

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- ▶ Mold design criteria:
  - Weight ~ 150 lbs per hanger
  - Dryer opening ~ 28 inches wide, 40 inches high
  - Rotational clearance ~ 28 inch diameter, or across corners
  - Loading arrangement ~ Molds on 30 inch longitudinal centers
- ▶ Conveyor speed ~ Variable, 0.5 to 3 fpm
- ▶ Conveyor ~ 54 inch diameter traction wheel frame
- ▶ Approximate system dimensions (with monorail) ~ 35 ft long x 9.5 ft wide x 10.5 ft high
- ▶ HVAC design ~ 80° F at 20% RH
- ▶ Recirculation fan ~ 6,500 CFM
- ▶ Operating temperature ~ 68° F to 80° F
- ▶ Humidity variation ~ Plus or minus 3 %
- ▶ Temperature variation ~ Plus or minus 2° F at control thermocouple
- ▶ Water evaporation ~ Sized per customer requirements
- ▶ Heating medium ~ Electric or gas
- ▶ Voltage ~ 480 Volts, 3 Phase, 60 Hertz



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