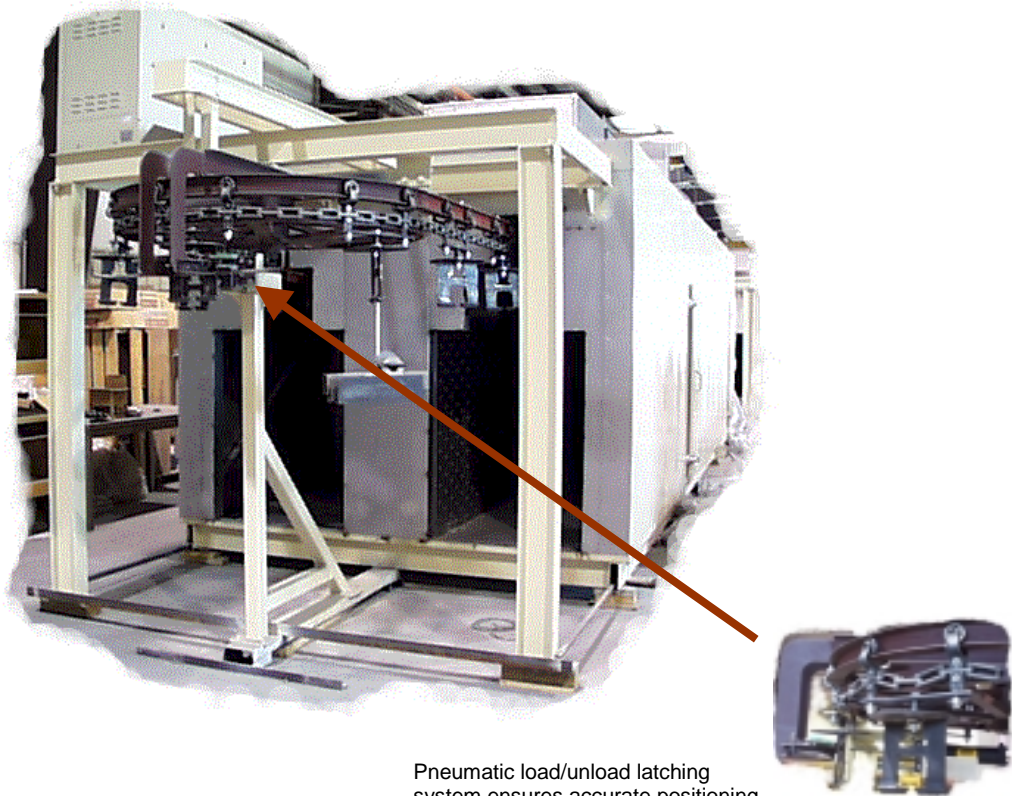


Forced Convection Ovens and Dryers

Monorail Mold Dryer



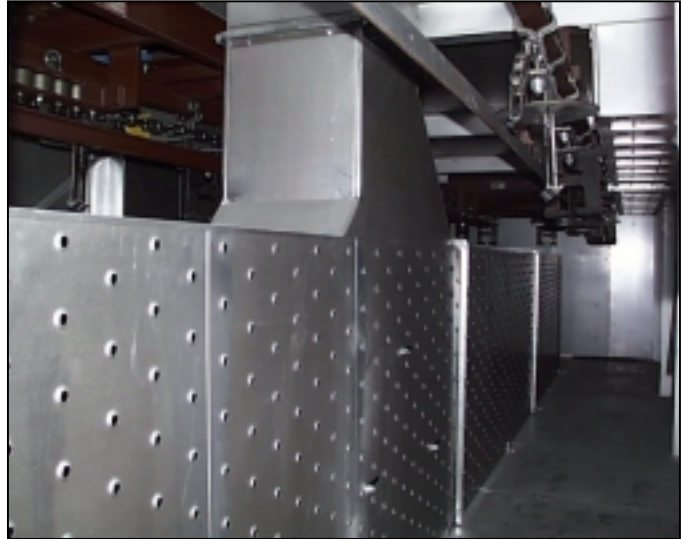
Pneumatic load/unload latching system ensures accurate positioning for pick-and-place machinery

The Lanly Company has specialized in the engineering and manufacturing of recirculating convection dryers for over 60 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
- Englehard/ICC Desiccant heating, dehumidifying and latent cooling system
- Trane condensing system
- Duct mounted electronic steam generator for humidification
- Control includes a variable frequency drive and reversing motor

FEATURES

- ▶ 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.
- ▶ Englehard/ICC Desiccant packaged two wheel heating, dehumidifying and latent cooling system.



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

DESIGN SPECIFICATIONS

- ▶ Design production rate – 25 molds per hour
- ▶ Mold design criteria:
 - Weight – 50 lbs per mold
 - Size – 20 inch square / 28 inch 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; X348 chain with trolley assemblies
- ▶ 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 – 5,000 CFM
- ▶ Operating temperature - 72° F to 80° F
- ▶ Humidity variation – Plus or minus 3%
- ▶ Temperature variation - Plus or minus 2° F at control thermocouple
- ▶ Water evaporation – 12 lbs per hour
- ▶ Heating medium - Electric
- ▶ Voltage - 480 Volts, 3 Phase, 60 Hertz



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