

# Furnace Loader

## Model FL3600

### Automated Method for Loading Pre-Assembled Parts

The ACE model FL3600 furnace loader is a flexible, portable machine used to load parts/plates onto a furnace belt. Pre-assembled parts and plates (sometimes called pucks) are introduced onto the FL3600 infeed conveyor. The servo-electric infeed conveyor indexes one position for every part/plate assembly introduced. This process repeats until a full row of parts and plates is created. Next, a servo-electric pusher positively transfers the entire row onto the sinter belt. The FL3600 repeats this process, loading row after row of assembled parts/plates onto the sinter belt. Rates of 12 plates per minute or greater are possible.



ACE model FL3600  
Furnace Loader

FEATURES	BENEFITS
Small foot print, extends out approximately 30" from front of sinter furnace and over the furnace belt by approximately 24". Only 60" wide.	Able to fit into small areas without consuming a lot of floor space.
Double-sided pusher face with saw-tooth design	Simple change out for different puck sizes, maintains precise pattern on furnace belt.
Built in stagger pattern, shifts every other row by 1/2 plate diameter.	Staggered pattern on sinter belt provides greater furnace density.
V-style wheels with sealed bearings used on horizontal axis.	Low maintenance/long life in aggressive environments.
Simple utilities, 120VAC and 85PSI air are all that are required for operation.	Easy hook-up with readily available utilities.

#### OPTIONS

- Handle rectangular plates.
- Direct load-based on part geometry
- Electrical Supply - 230Volt/1 Phase/60 Cycle

#### SPECIFICATIONS

**Infeed Conveyor**—150mm wide Servo Electric driven indexing belt with integrated PLC and remote mounted index photo eye

**Pusher**—Servo Electric driven with integrated PLC, heavy-duty roller chain based drive, pneumatic Z Axis and 36" wide double-sided saw-tooth pusher face

**Frame**—Structural tube weldment with powder coat finish, adjustable height support boots with casters and docking for portability

**Guarding**—Bolt-on, formed steel with expanded metal viewports

**Transfer Plate**—Floating design, stainless steel construction with roller section and stainless steel furnace interface

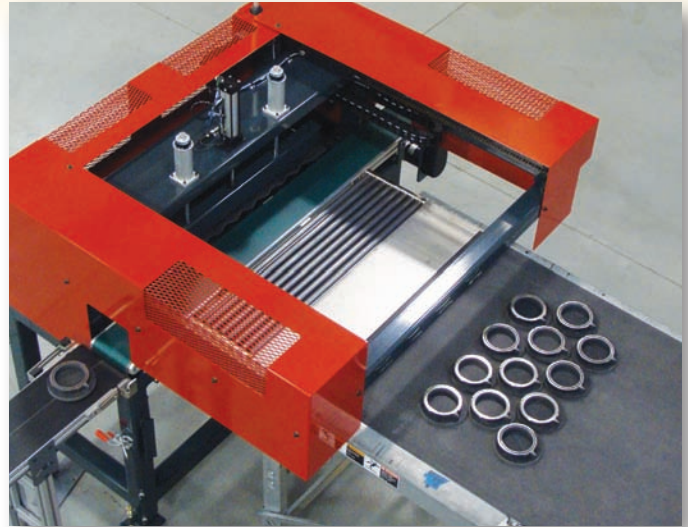


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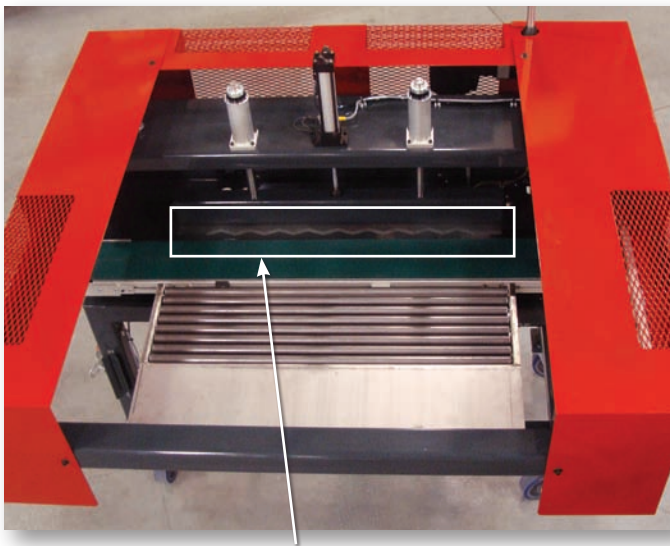
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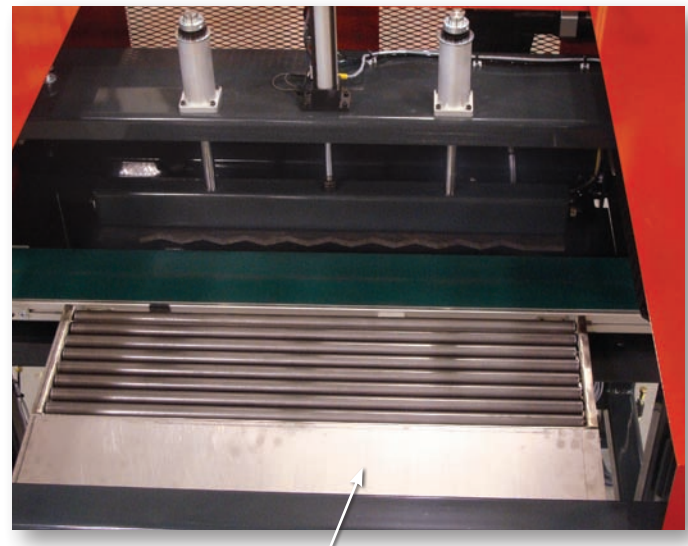
*Optional Infeed Conveyor*



*Staggered Loading Pattern*



*Saw-tooth Pusher Face*



*Floating Transfer Plate*



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