Model FL3600 Furnace Loader

The ACE Model FL3600 Furnace Loader provides an automated method for loading pre-assembled parts onto a sinter furnace belt.

How Does It Work?

Parts placed onto sinter plates are introduced to the FL3600 infeed conveyor. The 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, an 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.

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

- Handle rectangular plates
- Direct load-based on part geometry
- Electrical Supply - 230 volts/1-Phase/60Hz

SPECIFICATIONS

Infeed Conveyor - 150mm wide Electric driven indexing belt with remote mounted index photo eye.

Pusher - Electric driven, 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.

Controls - PLC controlled motion with push-button manual controls.

Specifications subject to change without notice. Please contact ACE for application suitability.

autocells.com
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Furnace Loader

Optional Infeed Conveyor

Staggered Loading Pattern

Saw-tooth Pusher Face

Floating Transfer Plate

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