



# Furnace Load/Unload

TEC Automation is a world-class supplier of robotic automation solutions.

We provide proof of concept, simulation, mechanical and electrical engineering, programming, assembly, run off, factory acceptance, training, installation and post installation service and support.

## FURNACE LOAD/UNLOAD SYSTEMS

TEC delivers complete turnkey systems

Robotic systems, end-of-arm tools, TEC Handler pick and place packages, infeed conveyors, cooling conveyors, PLC systems, data collection systems, vision detection systems



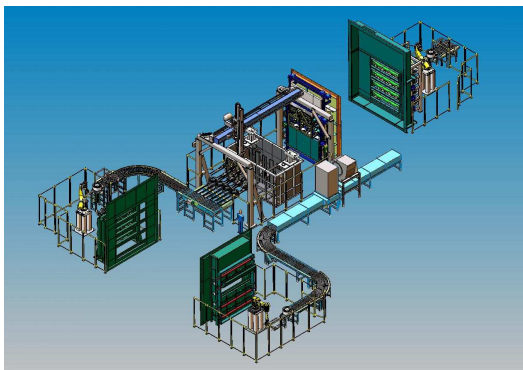
Furnace Load Station  
Fanuc R2000iA



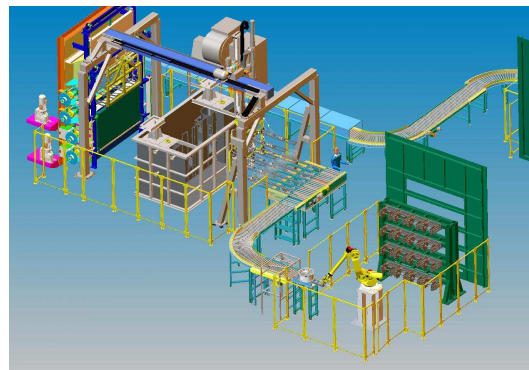
Gantry for Furnace Unload  
4 axis Gantry, 800kg Payload



Furnace Load and Queue Rack  
Fanuc R2000iA



Furnace and oven handling system



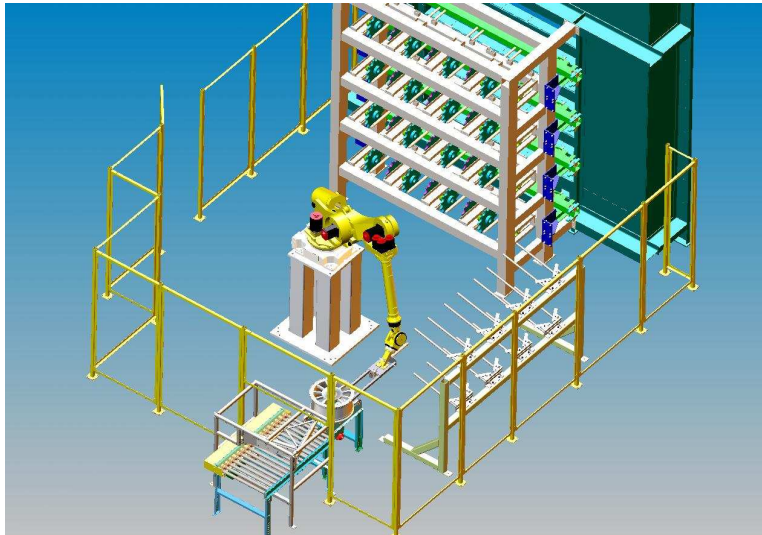
Quench tank gantry robot system

## -----Industries Served-----

<b>Machine Tools</b>	<b>Aluminum Foundry</b>	<b>Ductile Iron Foundry</b>
<b>Glass</b>	<b>Metals</b>	<b>Paper</b>
<b>Plastics</b>	<b>Health and Beauty</b>	<b>Office Furniture</b>
<b>Building Products</b>	<b>Food and Beverage</b>	<b>Automotive Tier 1, 2...n</b>

## -----TEC Products for Furnace Load/Unload-----

- ✚ **Robots, controllers and robotic cells**
- ✚ **Gantry and overhead rail robots**
- ✚ **End-of-arm tools** - for machined parts, castings, sheet metal and plate stock, tubes, glass sheets, bags, gears and pinions, ceramic components, wheels, hubs and others
- ✚ **Part presentation** – mechanical and machine vision-based feeder systems
- ✚ **Vision systems** for part location, feature checking and robotic guidance
- ✚ **Part handling aids** – queuing racks, singulators, part centering devices
- ✚ **PLCs and drives** – for use with our robotic cells and material handling systems
- ✚ **Data collection** and human-machine interface systems



Complete Cells – Part Presentation, queuing and loading

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