



**fancort industries, inc.** <sup>TM</sup>

Manufacturing Equipment | Lead Forming

# FANCORT TINNING MACHINE

Official Brochure



**5** **DECADES OF  
TOOLING &  
AUTOMATION**  
*FOR THE ELECTRONICS INDUSTRIES*

 JAPAN UNIX

flexfactory  
reinvent feeding

 UNIVERSAL ROBOTS

COGNEX

FANUC



# ABOUT

## SMT LEAD FORMING

### SMT Lead Forming World Leaders

World leader in aerospace and defense semiconductor lead forming equipment and services. Capabilities include: ceramic and metal-cased integrated circuits for SMT and custom through-hole applications.

Fancort offers prototype to production equipment specializing in processing high-reliability devices to exacting tolerances. Fancort Industries is ITAR registered and a NASA and Johnson Space Center approved supplier of forming and tinning Services.



Massachusetts  
Institute of  
Technology



DRAPER



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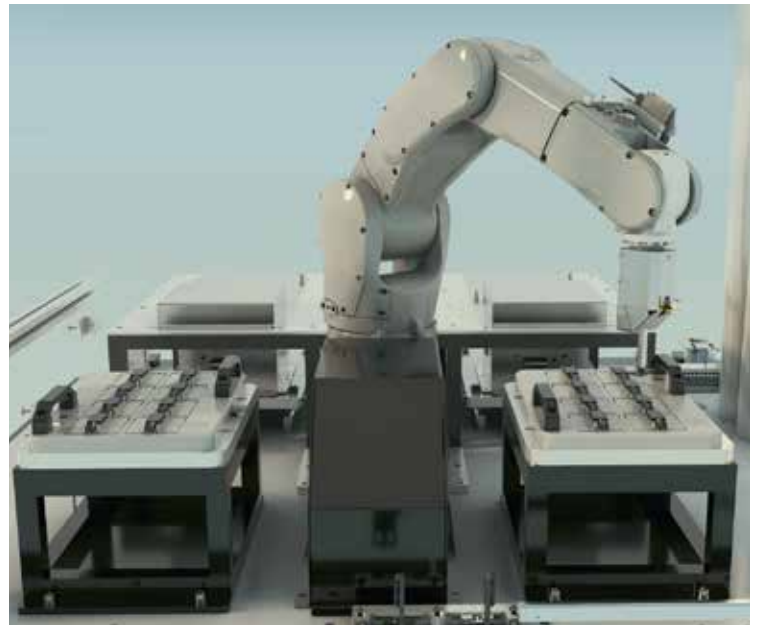
 **fancort industries, inc.**<sup>TM</sup>  
FIVE DECADES OF TOOLING & AUTOMATION

# ROBOTIC TINNING MACHINE

## Overview

Introducing Fancort's Robotic Tinning Machine. The next generation of precision robotic tinning. Designed, manufactured, and patented by the leader in high reliability component processing. Experience the precision, efficiency, and quality of our new 6-axis robotic tinning machine.

The Fancort Tinning Machine combines the capabilities of a precision 6-axis robot with an easy to program parameterized environment which includes part, tray, and process libraries. Custom parts, trays, and processes are easy to program using the built in HMI. Bar code recipe and tray verification is included to match trays, parts, and process together ensuring quality and consistency. Infeed component trays are easily programmed using a tray position function and can be enhanced with an optional vision system.



## SAM AWARD

Fancort Industries forming and tinning services, located in Fairfield, NJ, is listed in the System for Award Management (SAM) and has a cage code of 8KE76.

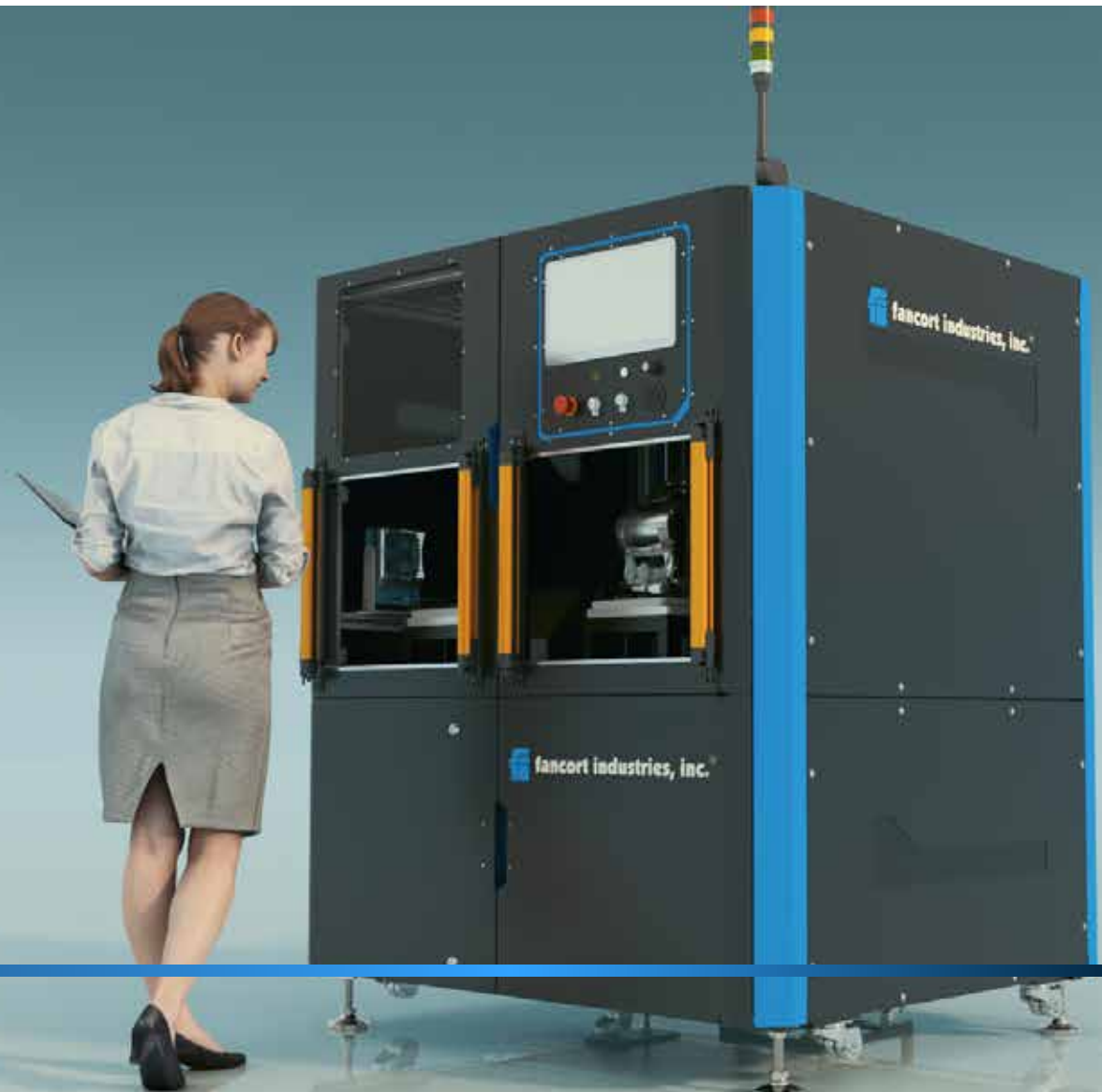
## ISO CERTIFIED

Fancort is the industry leader in component lead preparation services for the semiconductor and aerospace industries.

# ROBOTIC TINNING MACHINE

## Features

- **6-Axis robot** - precision with (3) dip motions – tangent, waterfall, & parallel.
- **Dual Process** - Dual solder pot, pre-heat, air dry, flux, and DI wash in a single machine.
- **Integrated air knife preheat** - Patent pending air knife pre-heat station.
- **Parametric programming** - process programming made simple.
- **Recipe, part, process, and tray libraries** - saving and recalling programs straight forward.
- **Bar code** - select recipe and trays to reduce the chance for setup errors.
- **Universal adjustable trays** - patent pending adjustable trays. Eliminates dedicated trays.
- **Dynamic solder pots** - stainless steel (lead solder) or titanium solder pots (lead free solder).
- **Solder Pot Cart** - Includes (1) solder maintenance cart for solder pot removal.
- **Machine controls** - for enhancing programming, safety, power, and pneumatics.

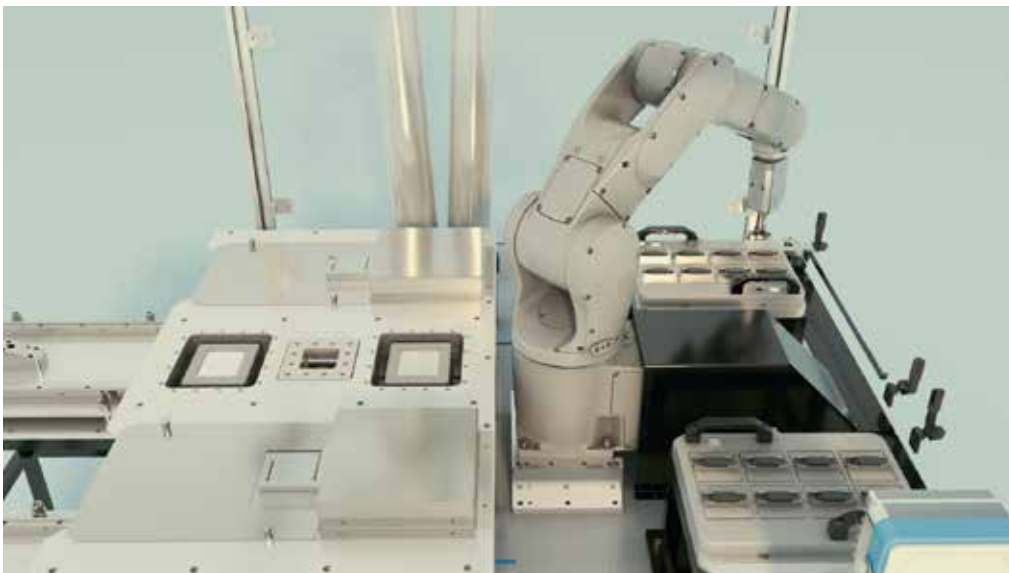
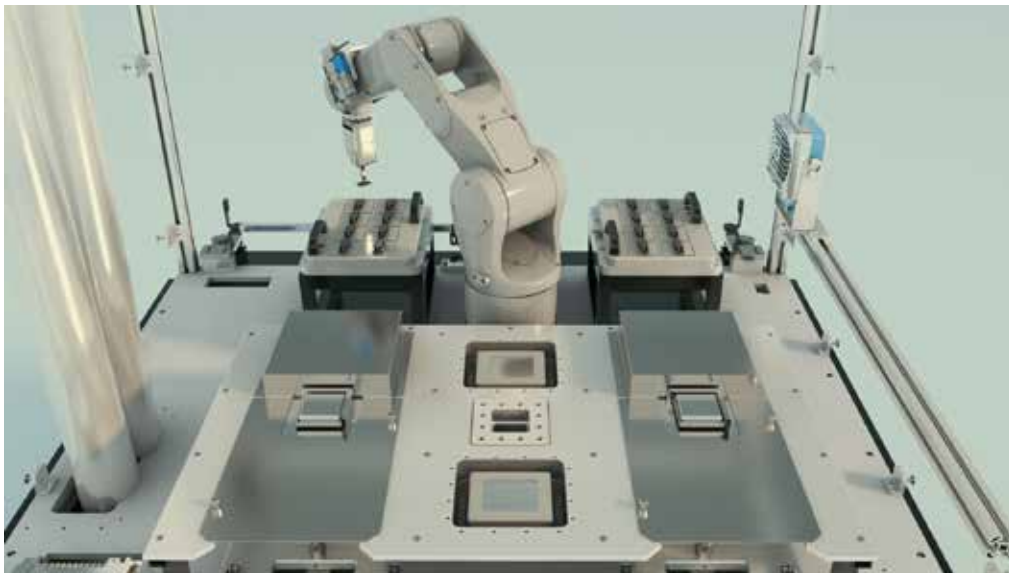




# ROBOTIC TINNING MACHINE

## Features

- **Steel safety enclosure** with light curtain(s), light tower, HMI, control cabinet.
- **Access control** - Multi-lever user sign in
- **Process monitoring** - Resistivity, temperatures,
- **Process Camera** – view tinning in situ.



# ROBOTIC TINNING MACHINE

## Robotics Interface

The Fancort Robotic Tinning Machine's PLC interface offers a remarkably user-friendly experience for part selection and parameterization, catering specifically to both Fine Pitch (FPs) and Quad Flat Packages (QPs). Its programming has been intelligently designed to streamline the process, ensuring that operators can effortlessly configure and adjust parameters according to their specific requirements. The intuitive interface empowers users with a simplified workflow, making it easy to select parts and customize parameters, ultimately enhancing operational efficiency. Even for those new to PLC programming, the Fancort Robotic Tinning Machine's interface stands out for its simplicity and ease of use, facilitating seamless control and optimization of the tinning process for FPs and QPs.

Fault:		Units [inch]					Cycle Count:		Input Pressure:				
Run	Part Library												
	Part Number	QP/FP	A	B	C	D	E	X	F	G	H	J	M
SMT Library													
Tooling													
Settings	Create	Save	Edit	Copy	Delete	Selected or New Part							
Log Out	Foot Dimension (Selection required)												
Help													

Fancort Industries Inc. [www.fancort.com](http://www.fancort.com) 1-888-326-2678

# OTHER PRODUCTS

## SmartFlex™ SMT Trim and Form System

Fancort newest SMT offering is the SmartFlex an Electronic Floating Anvil FLEX System that is PLC controlled. Here are some unique features that the PLC adds to the already top-of-the-line Automatic Standoff height control SMT Floating Anvil FLEX System.

This system will help the technician/operator make setups easier, faster, and with less chance of mistakes. Plus, everything will be documented and saved in the PLC for future use and/or modification when needed.



AEROSPACE. ELECTRONICS. MILITARY. MEDICAL. AUTOMOTIVE. INDUSTRIAL



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## ABOUT US



Fancort Industries is a vertically integrated Manufacturer, Distributor, and Integrator/ machine builder of world-leading equipment. We are the world-leading SMT lead forming equipment manufacturer, master distributor of advanced robotic soldering equipment, and certified system integrator for Cognex, Fanuc, and Universal Robots.

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