

# Design, Fabrication, Installation, and Project Management



# Professional Mechanical: Design, Fabrication, Installation and Project Management

Tuttle Inc. is a mechanical contracting firm that specializes in custom process and packaging systems for the food and pharmaceutical industries. Our capabilities include custom engineering, 3D CAD design, electrical control systems, CNC machining, fabrication, installation, and project management. We have completed projects in the food industry for products ranging from raw meat to processed stuffed peppers, cheese sticks, potatoes, onion rings, bacon, breads, pasta, and cookies (these are just a few examples). We have worked with multiple pharmaceutical products including liquids, creams, tablets, and powders; processed into tubes, bottles, vials, cartons, bags, boxes, totes, and supersacks. We have experience with most major brands of fillers, seamers, cappers, baggers, check weighers, metal detectors, labelers, cartoners, case packers, palletizers, and all types of raw materials handling equipment. Although we specialize in the food and pharmaceutical industries, we also complete many projects for various manufacturing industries and are heavily involved in several pet food plants across the Midwest.

Tuttle's capabilities include complete system design, fabrication, electrical controls, project management, and turnkey installations. Our design team includes a full engineering staff with design support. We have a 24,000 square foot manufacturing facility that allows us to set-up and debug most systems before they leave for installation. We maintain multiple installation crews that can be mobilized on short notice. In association with the installation of our equipment, we also complete straight installation/equipment modification projects. Most of the projects we complete are deemed "Turn-key," therefore we also complete all associated piping, controls systems, guarding, etc.

- **Quality** • **Service**
- **Customer Satisfaction**

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## **TURNKEY SYSTEMS**

Raw Material Handling Systems  
Packaging Systems  
Processing Systems  
Pneumatic Product Handling  
Access and Support Structures  
Custom Packaging Equipment  
Custom Assembly Equipment

## **ENGINEERING AND DESIGN SERVICES**

Custom Machine Design

- Process
- Packaging
- Assembly

Project Management  
Equipment Layout and Integrations  
Plant Layout  
Equipment Specification Development  
Equipment Procurement  
Process Improvement Studies  
Prototype Design  
3-D CAD Solid Modeling  
Electrical Controls

## **FABRICATION SERVICES**

Millwright Services

- Stainless Steel
- Carbon Steel
- Aluminum
- Galvanized
- Plastics

Custom Machine Building  
Conveyor Fabrication  
Machine Modification and Retooling  
Piece Part Fabrication  
Assembly/Integration  
Prototype Fabrication  
Machining Services- CNC Lathe/Mill/EDM  
CNC High Definition Plasma Cutting  
CNC Waterjet  
CNC Laser Cutting  
Brake & Shear Services  
Welding- MIG, TIG, SMAW  
Stainless Steel Polishing

## **INSTALLATION SERVICES**

Installation of Tuttle Inc. fabricated equipment  
Installation of owner supplied equipment  
Piping Installation-

- Air, Water, Steam, Condensate, Gas, Hydraulic, Chemical, Pneumatic conveying, and Sanitary Piping
- Stainless Steel, Carbon Steel, Fiberglass, and Plastic piping materials
- Threaded, Welded, Flanged, and Adhesive connections
- Orbital Welding for Sanitary Tubing
- Infrared Plastic Welding

Conveyor Installation  
Maintenance Services  
Electrical Controls Integration  
Certified Welding Services  
Equipment Rigging and Setting  
CDL Transportation Services  
Platforms/Catwalks/Guarding  
Equipment relocation & removal

## **PRODUCTS**

### **Conveyors**

Auger	Single Lane (Intralox & Rexnord)
Belt	Mass Accumulation
Cable	Packaging
Shaker	Pallet & Box Roller Conveyors
Drag	Custom conveyors

### **Conveyor Accessories**

Single Filers  
Package/Container Orientation Devices  
Reject Devices  
Metal Detection  
In-line Weighing  
Check-weighing  
Labeling  
Waterfall and Twist Container Fittings

### **Custom Designed Equipment**

Process Equipment  
Packaging Equipment  
Assembly Equipment

### **Miscellaneous**

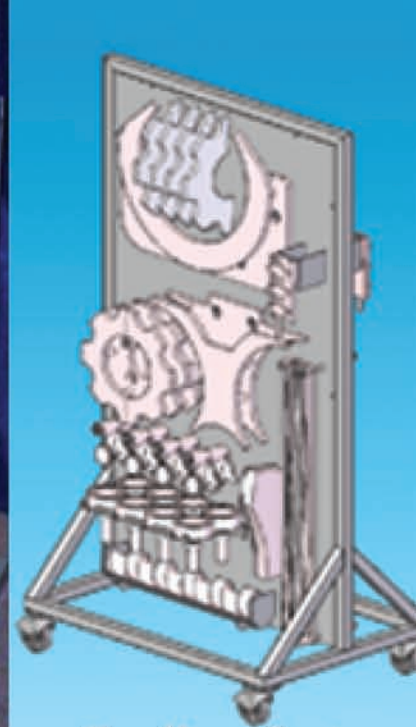
Fixtures  
Tables/Stands/Carts  
Platforms/Catwalks/Stairs/Ladders  
Tanks



**Process Equipment**



**Assembly Fixtures**



**Tooling Carts & Shadow Boards**



**Custom Conveyors**



**Turnkey Installations**



**Stainless Scissor Lifts**



**Bulkbag Unloaders**



**Process Piping Systems**



**Accumulation Tables**



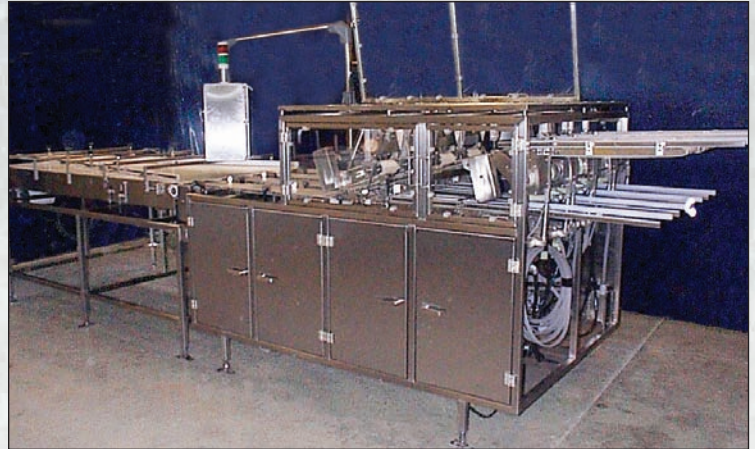
**Robotic Palletizer**

# PROJECT MANAGEMENT

At Tuttle Inc., we provide professional mechanical services for industrial design, fabrication, and installation. We are available for hands on involvement from concept design to completion. However, if the client prefers we can take care of just one or two aspects of a project. We let our clients choose what will work best for them. Our goal is to provide superior service and quality to our customers. Our success is dependent on the referrals we receive from our clients.

Our project management teams perform the following to guarantee the success of each project:

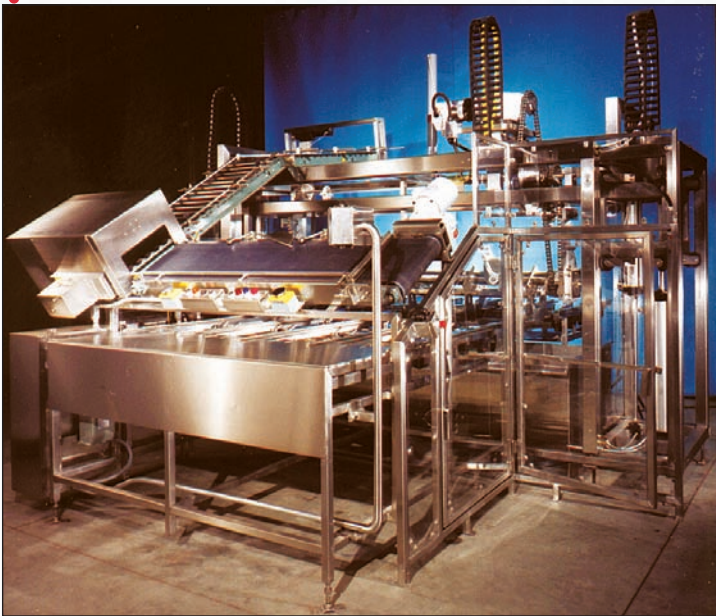
- **Communication.** We listen to clients. We perform a thorough investigation of the customer requirements and specifications.
- **Design.** A collaborative team effort is used. We offer clients several design options. Once the design is selected, it is then refined to incorporate any customer revisions, which results in a fully detailed plan of construction.
- **Fabrication.** It is imperative that the fabrication team match project requirements with individual employee skill. This team stays with the project through all phases.



- **Installation.** The fabricating team will also be the installation team. Their charge is to help the customer integrate new equipment with existing equipment. The most important role this team plays is providing start-up assistance.
- **Subcontract.** If the need for subcontractors should arise, Tuttle Inc. will handle all the details of obtaining equipment and services.

Our experienced quality driven staff works together as a team with your staff. When the time comes for planning, implementing, and organizing an installation, our professional team comes to your location. It is their task to make sure your needs and expectations, budgets, floor space and goals are accomplished. Our team reviews projects with clients, provides competitive proposals including concept drawings, and works within budgets given. In the final step before fabrication begins, we provide approval drawings to ensure customer satisfaction and eliminate misunderstandings. Communication is an ongoing process and vital to the success of the project.

At Tuttle Inc., we like to make things easy for our clients. Our philosophy is to provide superior service and quality to ensure customer satisfaction. Our customers count on it and our success depends upon it. Client referrals play a big part in our future operations.



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# ENGINEERING AND DESIGN

Tuttle Inc. has been providing professional mechanical services for industrial design, fabrication, and installation since 1974. The company, founded by Gary Tuttle, began as a welding and repair shop and has since evolved to meet a variety of needs for our clients. Design and installation work began in the 1980's and in-house fabrication soon followed. Rapidly expanding, Tuttle Inc. moved in 1997 to its present location situated on ten acres of land. The facility includes 24,000 square feet of production space, 12,000 square feet of warehouse, and 5,000 square feet of office space.

We have found that a team approach is very successful at Tuttle Inc. and incorporate one in all our processes. The design phase results in a fully integrated, detailed plan of construction that this team communicates to the client. The fabrication team is chosen based upon employee skills, fabrication materials and the customer's needs. This team stays with the project through all phases of fabrication, installation and start-up assistance.

We are experienced in working with a variety of metals and polymers including stainless steel. Listed are items we produce:

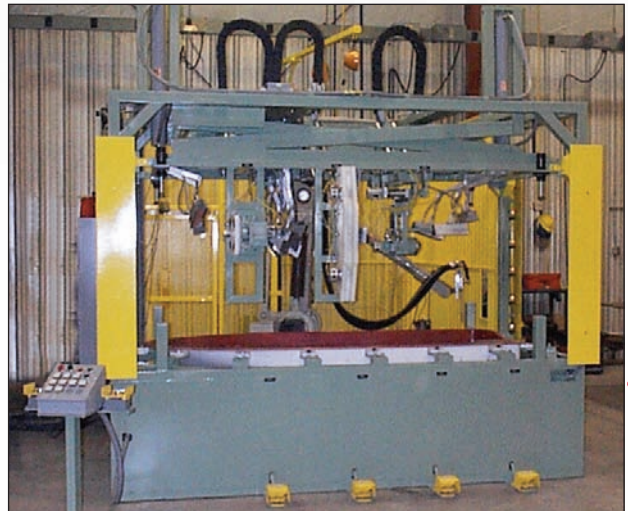
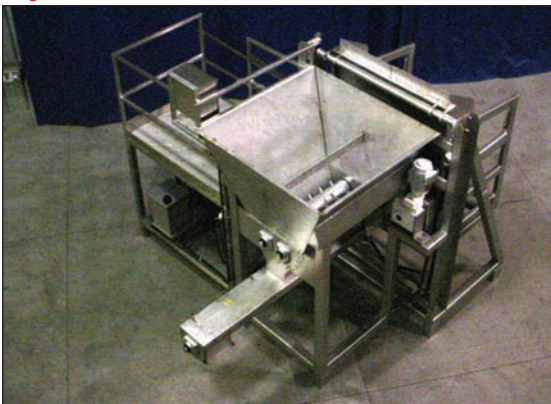
- Conveyors
- Automated Equipment
- Custom Designed Equipment
- Material Handling Equipment
- Piece Part Fabrication
- Catwalks
- Stairs
- Conveyor Accessories
- Piping
- Tables
- Guards
- Stands
- Platforms
- Support Structures



We also offer specialized custom capabilities to suit your specific needs.

Tuttle Inc. has wide-ranging familiarity with packaging and processing equipment. This allows us to customize for nearly any industry, and to design system layouts that solve unique production problems.

Clients range from food processing giants with plants throughout the world, to smaller specialty industries with single locations. At Tuttle Inc., our specialty is the ability to complete all phases of a project, including designing, fabricating, and installing specialized industrial equipment. Tuttle Inc. has always focused on what is important to you, the client.



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# FABRICATION

At Tuttle Inc., our shop fabrication capabilities include:

- Shearing
- Bending
- Polishing
- Machining
- Breaking
- Cutting
- Rolling
- Punching
- Welding of all types
- CNC waterjet cutting
- CNC laser cutting
- High definition CNC plasma table

In addition, we continue to offer the same great service we always have:

- Turnkey processing and/or packaging assembly systems
- Engineering design and layout services
- Fabrication facility
- Installation services for equipment and utilities
- Fully integrated project management
- Electrical controls



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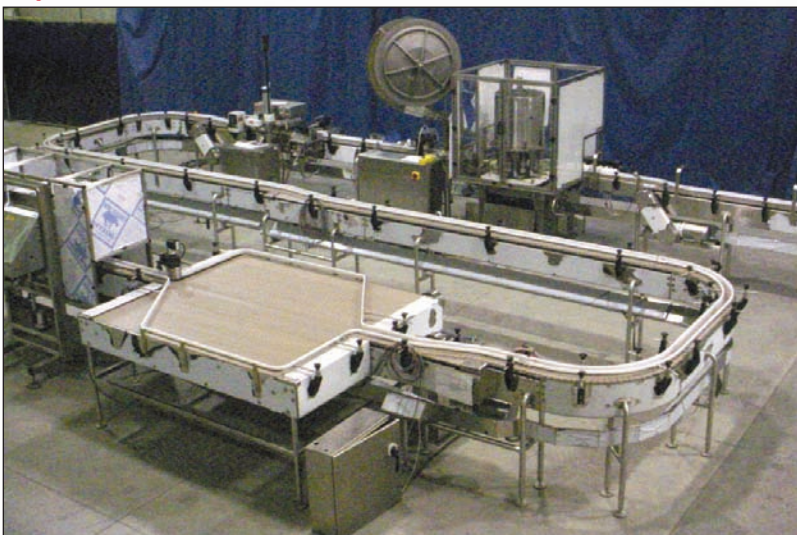
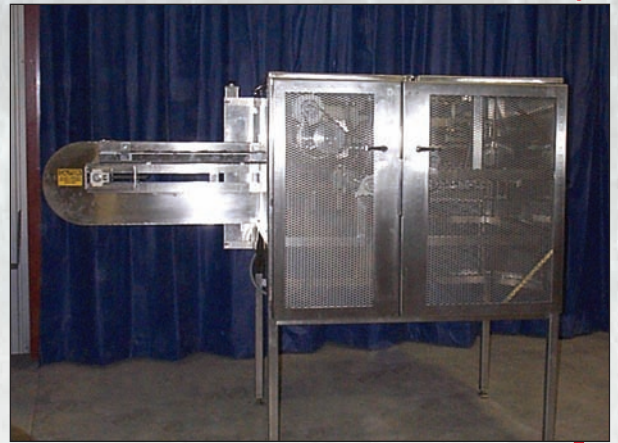
# INSTALLATION

Our installation services include:

- Tuttle Inc. equipment installation
- Owner provided equipment installation
- Turnkey line installation
- Pipe fitting for process and product piping
- Structural installation

At Tuttle Inc., we are a mobile installation crew. We are proud of our reputation of going the “extra mile” for our clients. Our philosophy of focusing on quality and service to ensure customer satisfaction is our guide. Tuttle Inc. offers superior start-up assistance, as well as assistance with integration of existing equipment. We care about what we produce and it shows. Our service provided for installation is superior, including owner provided equipment. We want the job done right and in good working order before we leave your facility.

At Tuttle Inc., we design it, build it, and install it. We have specialized custom capabilities to suit your very specific needs. Our service includes transportation to your location via our fleet of service vehicles. These vehicles are equipped with the right tools for successful completion of each installation. We work holidays, off-shifts, around the clock, whatever it takes to meet your production schedule. The goal is to keep your project on target and within budget. A job is not complete until the integration of new equipment is compatible with existing equipment. Before leaving your facility, we make sure all parts are working in harmony.

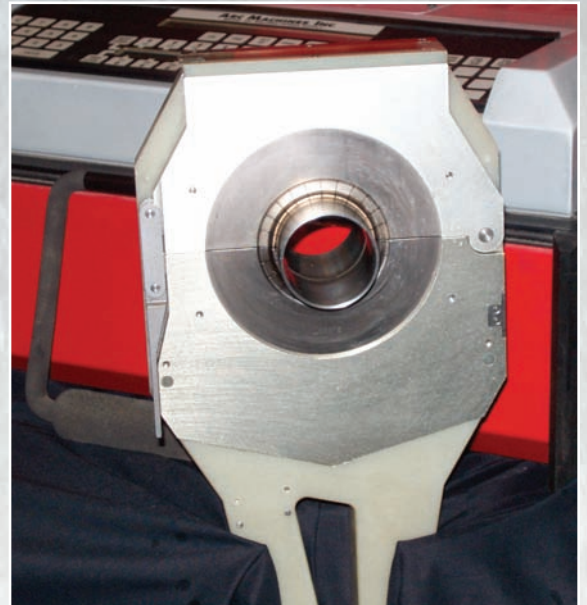


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## ORBITAL TUBE WELDING

Tuttle Inc. has added orbital tube welding capabilities to its already power packed line up of professional design, fabrication, installation, and project management services. Tuttle has a self-contained Gas Tungsten Arc Orbital Welding System. This system is especially designed for sanitary welds and product piping ideal for the pharmaceutical and food process industries that require sanitary welds. The orbital welding system assures conformance of pharmaceutical piping system installations to Good Manufacturing Practices.



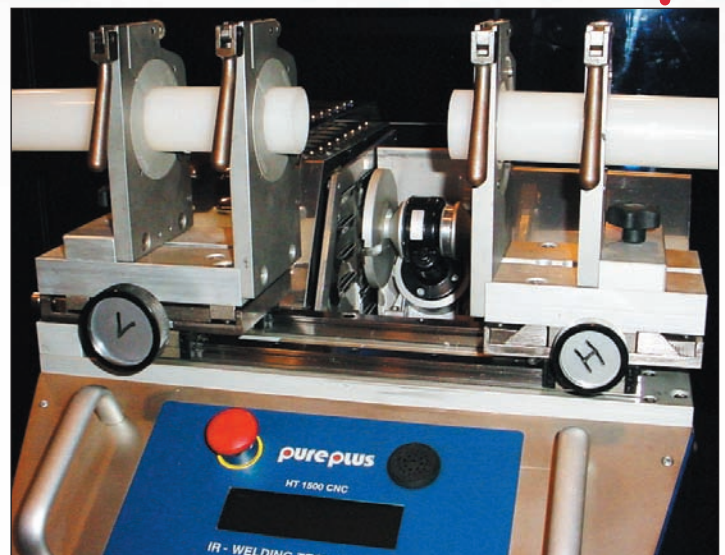
## INFRARED PLASTIC WELDING

Tuttle Inc. can now assist you with installation and welding of High Purity Plastic Pipe using a CNC Infrared Welder. This new, fully automatic welder enables Tuttle to precision weld pipes and fittings from 20 mm up to 90 mm OD. It operates using a fully automated control program sequence and weld log memory.

Weld parameter settings are input through bar coding or code entry from the keyboard of the CNC-unit. Connection directly to a PC is also possible allowing a thorough evaluation of measurement values, weld validation, and system diagnostics.

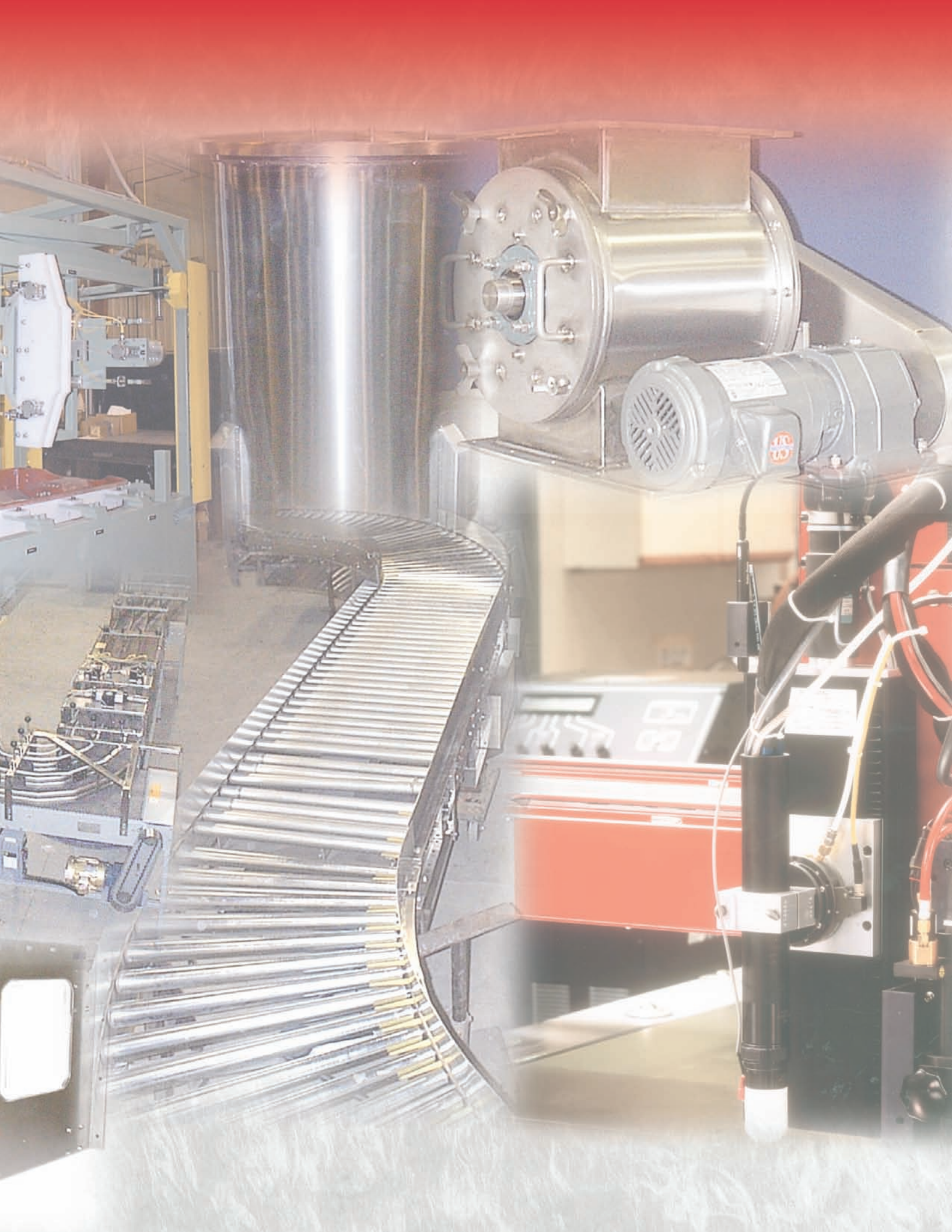
The CNC Infrared welder welds materials such as polyolefins, fluorine plastics, and chlorinated plastics. The material of choice is PVDF (Polyvinylidene Fluoride), but the welding of other materials like PP (Polypropylene) or PVC (Polyvinyl Chloride) is also possible. The chemical bonding of the fluorine atoms lends itself well to PVDF. Special attributes of the welds include:

- high chemical resistance to aggressive acids, aliphatic and aromatic hydrocarbons as well as a large number of inorganic and organic compounds
- outstanding thermo stability
- excellent combustion resistance
- excellent resistance to aging



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