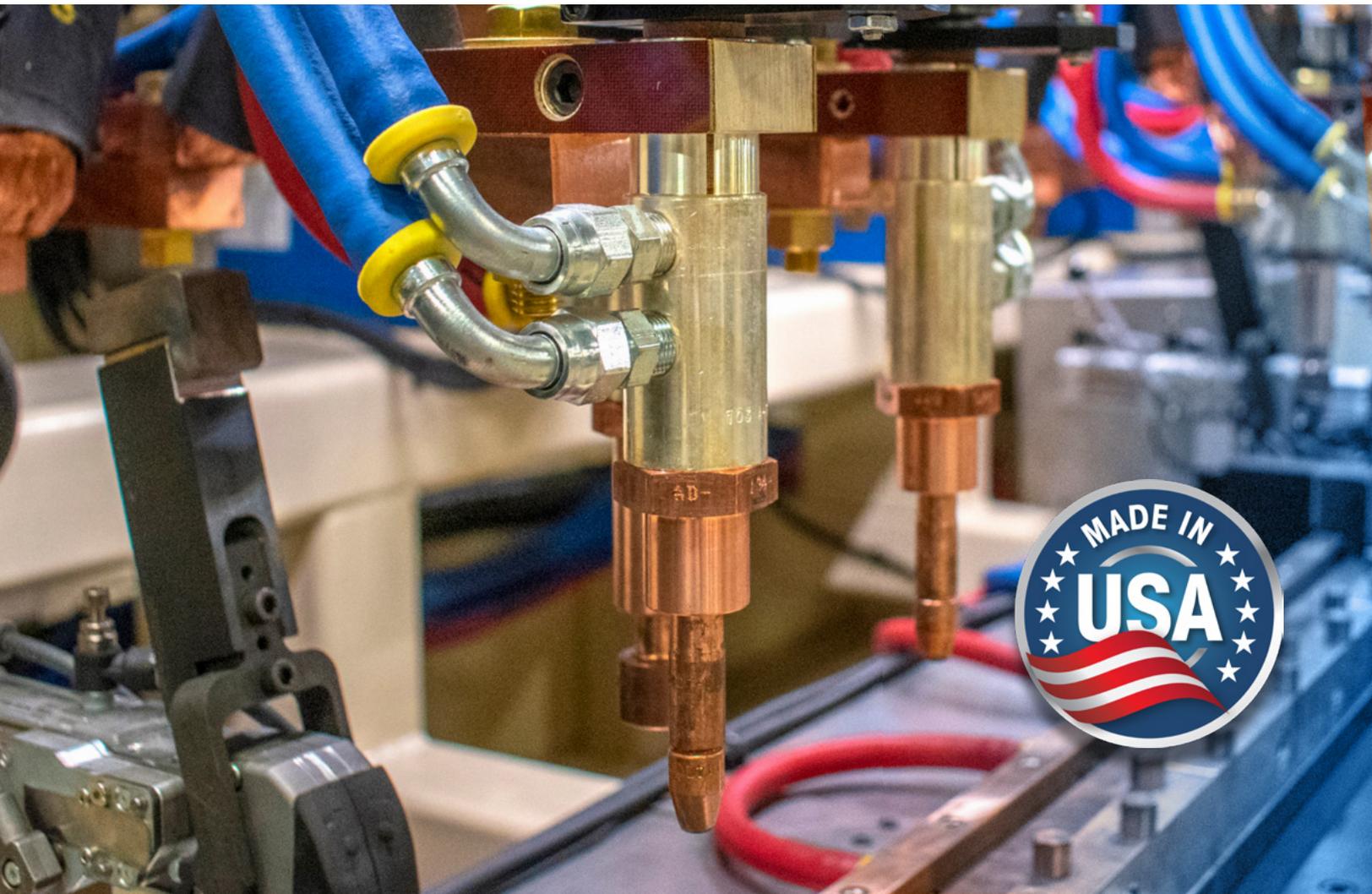




RESISTANCE WELDING

MACHINERY & SUPPLIES

CHATTANOOGA TENNESSEE



...building **STRENGTH** through resistance.™



Since 1999 THE ROUCHE COMPANY (TRC) has grown from a single sales office in downtown **Chattanooga, Tennessee** to a national OEM builder of Resistance/Arc Welding Equipment. TRC provides services to automotive, aerospace, military, and general commercial industries. We have worked hard to build a solid reputation based on ethics, integrity, and devotion to our customers. Dedication, expertise, and attention to detail by our talented staff are the reasons TRC is held in such high regards by its customers.

Be assured that our strategy remains the same for each and every customer, whether the interaction involves simple consumables, a standard spot welder, or an automated welding line that features multiple processes with integrated tooling. We strive to build partnerships with our customers that span decades and result in relationships built on trust and mutual appreciation.

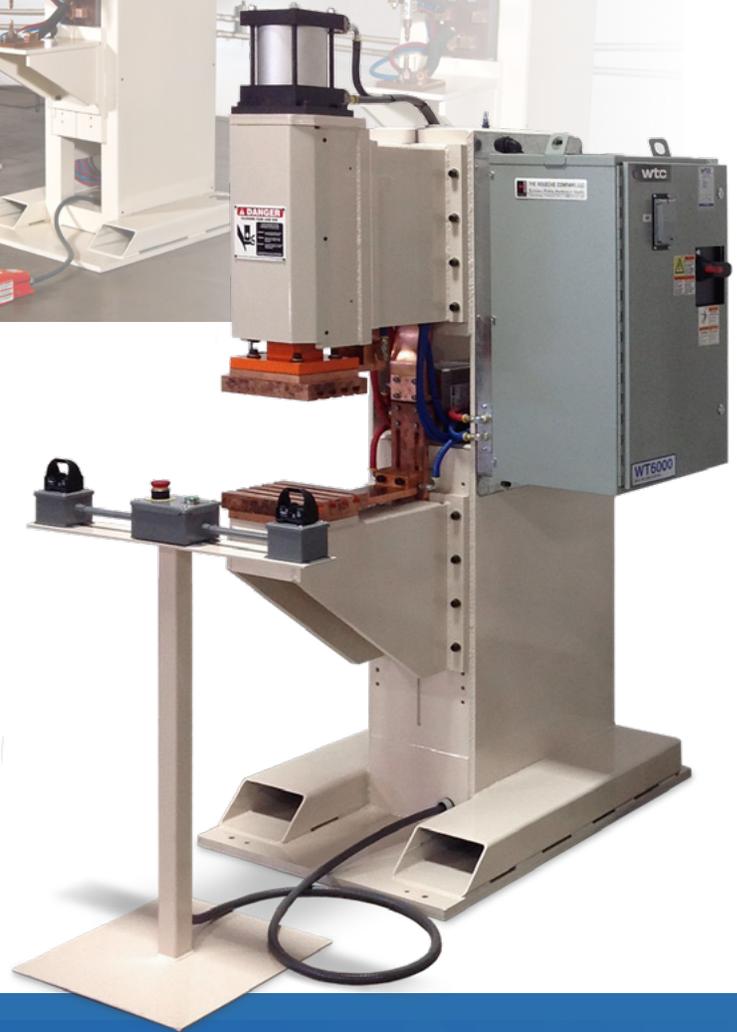
We work to earn your business by being honest and fair in our dealings, timely in our responses, and uncompromising in the quality of each and every product and service we provide.



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TRC offers a variety of **Standard Resistance Welders**:

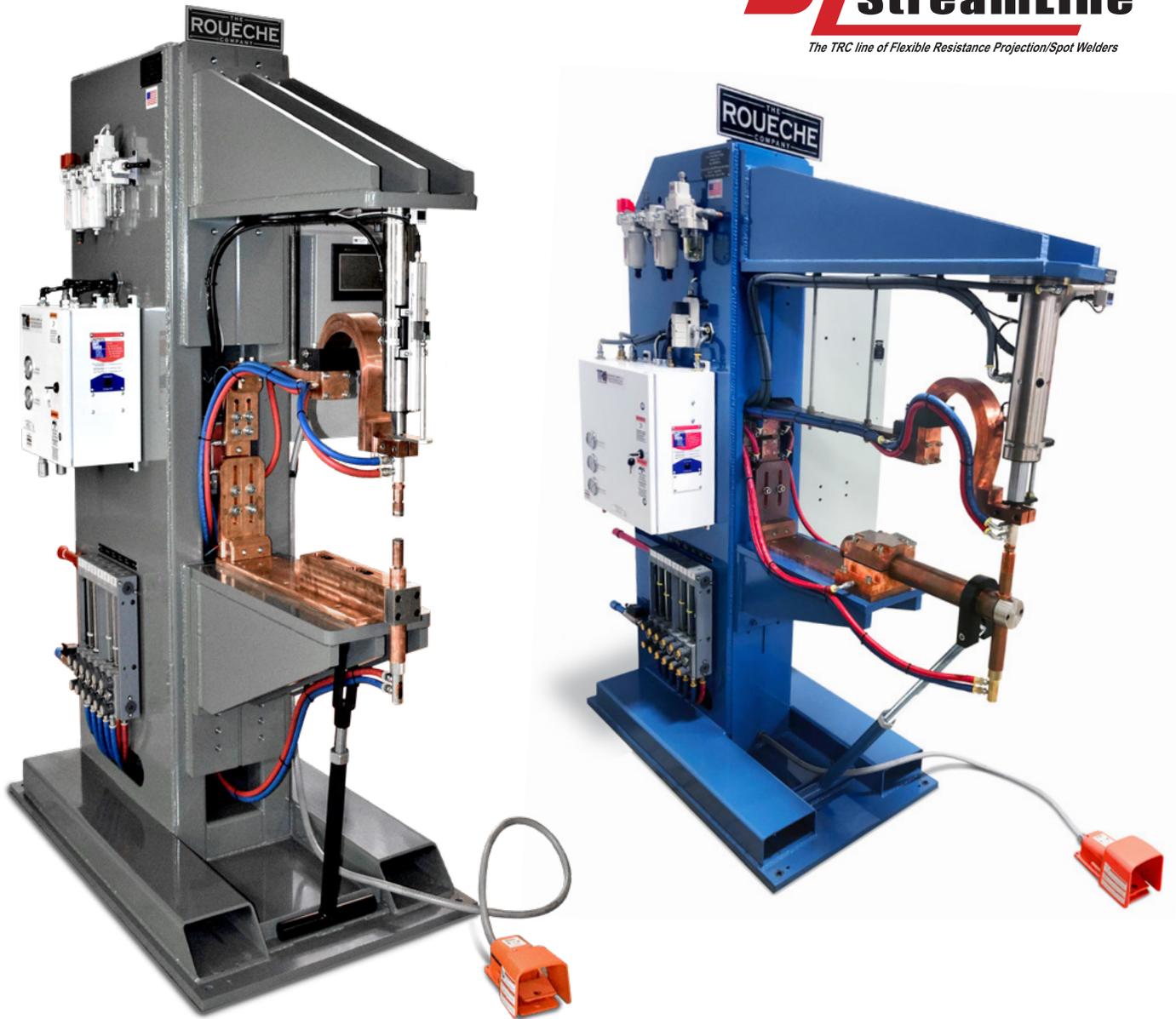
- Rocker Arm
- Press Spot-Projection
- Bench Type
- Circular-Longitudinal Seam
- Butt Welders
- Projection Nut & Projection Stud

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The **StreamLine™** brand of resistance spot welders is a unique creation of **TRC**. These welders can be designed to your specifications and equipped with your choice of component brands. The combination of versatility and savings makes StreamLine a winning choice for your welding needs.

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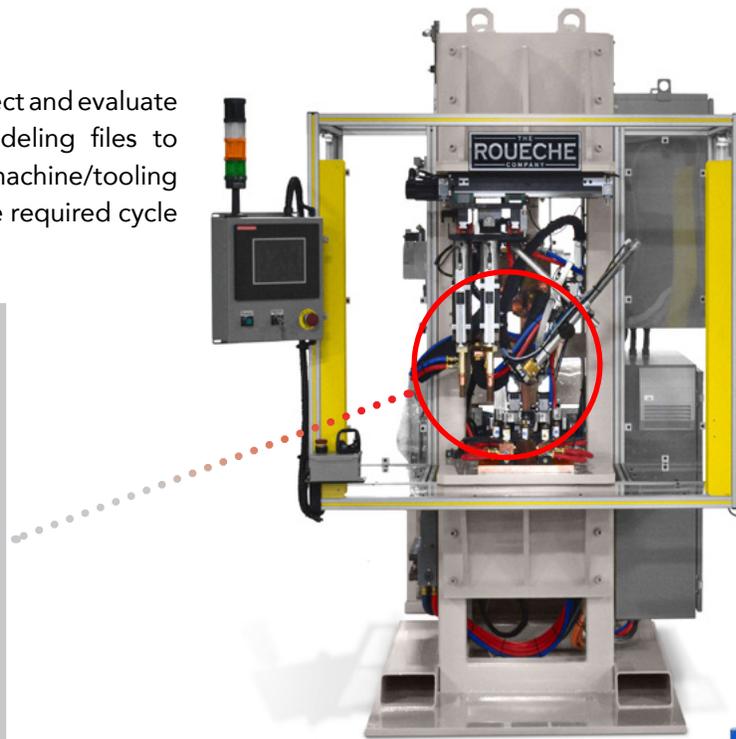


You can see the versatility and flexibility these machines can offer. The welders can include these standard and custom features:

- Conventional AC or MFDC Inverter Control Systems
- Pneumatic, Air/Oil or Servo Welding Cylinders
- Gun Stroke Transducers and Electronic Air Pressure Transducers
- Unitrol Soft Touch Pinch Point Safety Controllers

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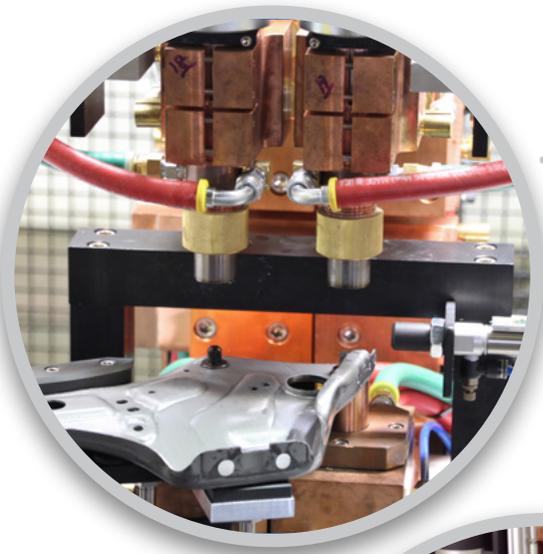
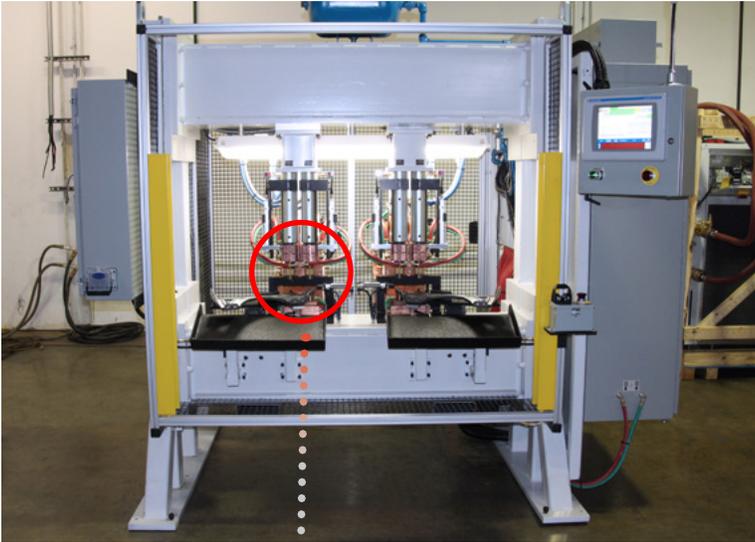
For custom applications, **TRC** will inspect and evaluate your prototype parts and CAD modeling files to determine what type of process and machine/tooling will best suit your needs and meet the required cycle time and product requirements.



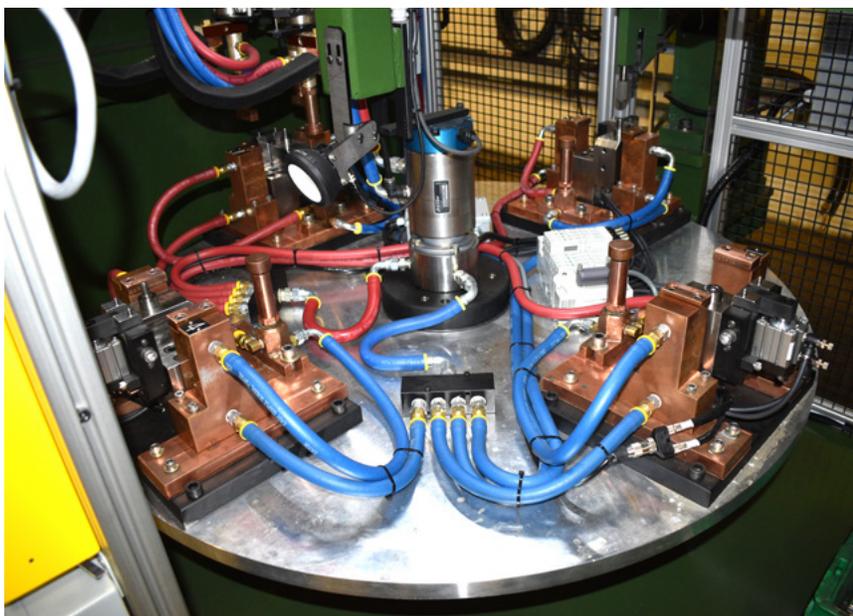
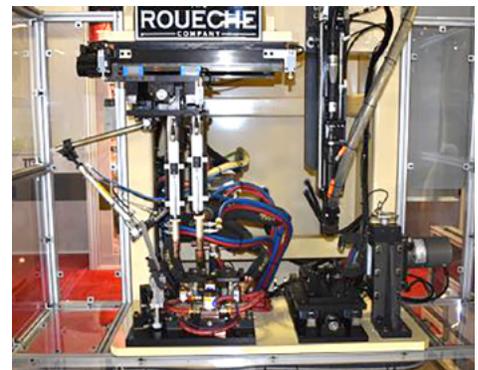
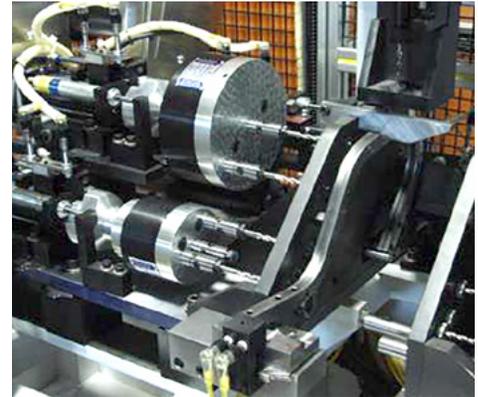
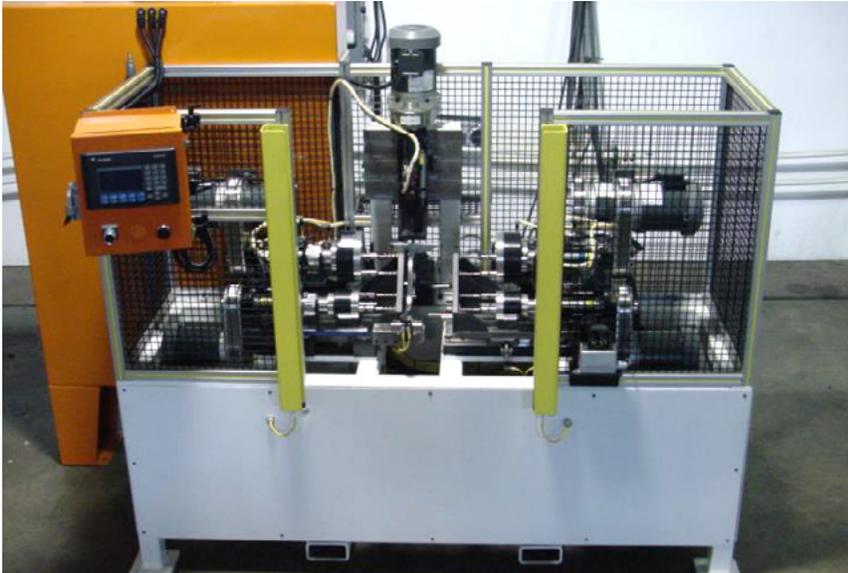
TRC designs and builds many styles of **Custom Resistance Welders**:

- Single and Multi-Gun Spot Welders
- Single and Multi-Gun Nut & Stud Welders
- Welders with Auto Nut & Stud Feeders
- Circular and Longitudinal Seam Welders
- Programmable X-Y Servo Systems

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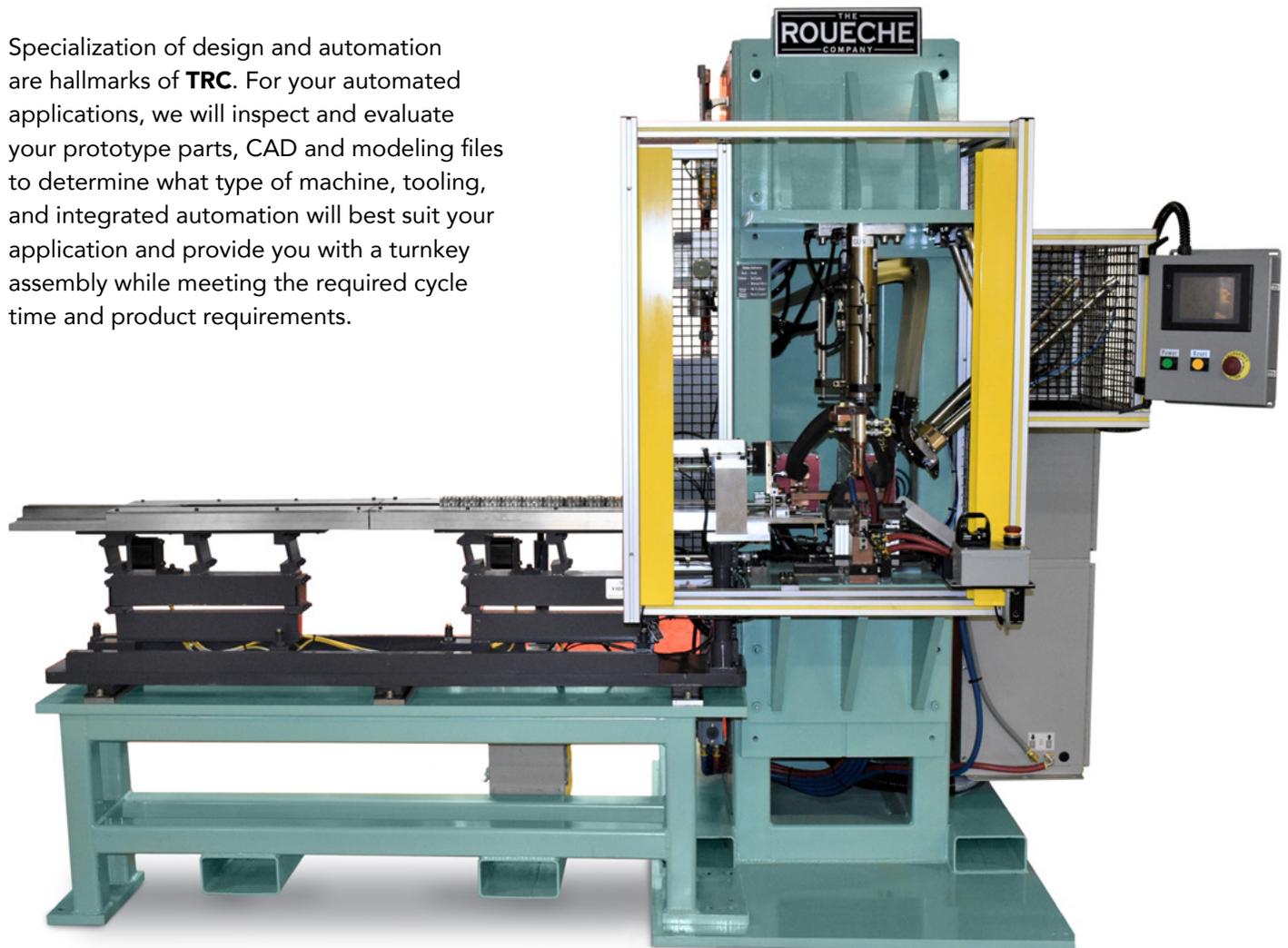


TRC can incorporate a variety of Integrated Fabricating Equipment into our custom resistance welders that can ultimately provide you with a turn key assembly while meeting the required cycle time and product requirements.

- Riveting
- Staking
- Drilling
- Clenching
- Screw Insertion
- Feeding / Auto Eject

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Specialization of design and automation are hallmarks of **TRC**. For your automated applications, we will inspect and evaluate your prototype parts, CAD and modeling files to determine what type of machine, tooling, and integrated automation will best suit your application and provide you with a turnkey assembly while meeting the required cycle time and product requirements.

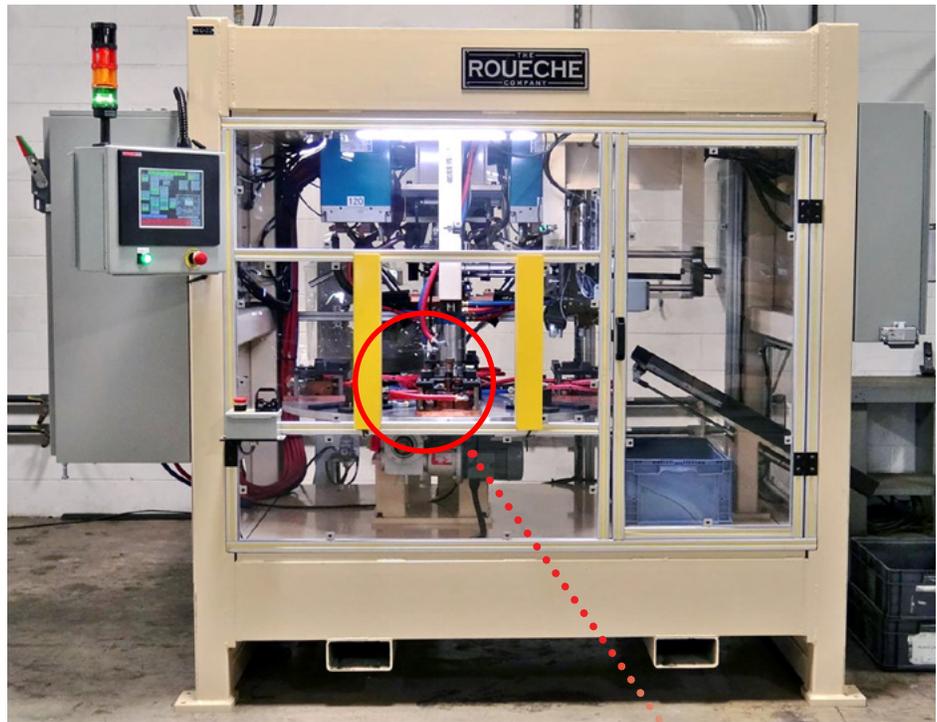


TRC offers a variety of Semi/Automated Resistance Welders:

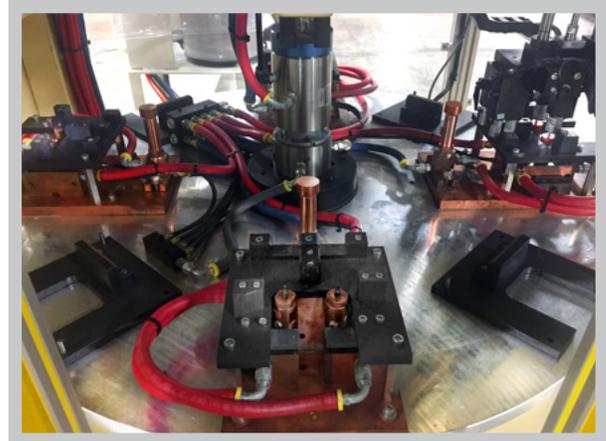
- Single and Multi-Gun Welders
- Indexing Welders (Dial Table or In-Line)
- X-Y Servo Slides for Weld Gun Positioning
- Automatic Projection Nut, Stud, and Screw Feeders
- Auto-Feed of Stampings and Automatic Part Eject
- Robotic Welders for Spot Welding, Material Handling and Arc Welding

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Four-Station Indexing Projection Nut Welder with Vision Sensors and Automatic Part Eject



Four-Station Indexing Stud Welder



TRC designs custom automatic Indexing Welding Systems for spot welding, projection nut welding, and projection stud welding.

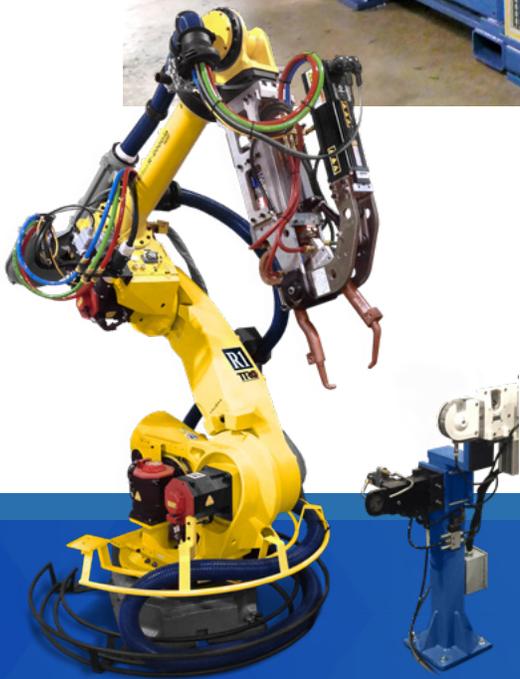
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TRC offers the latest opportunities with Servo Technology which can include and offer the following:

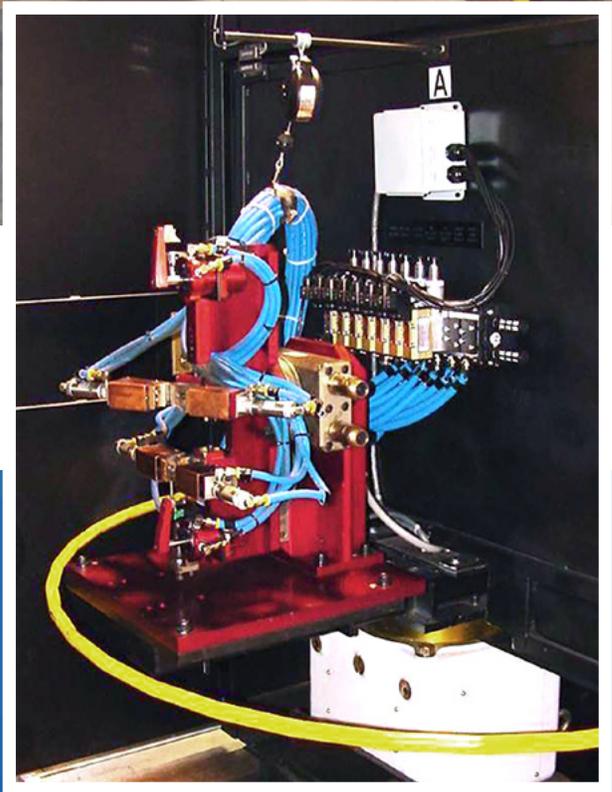
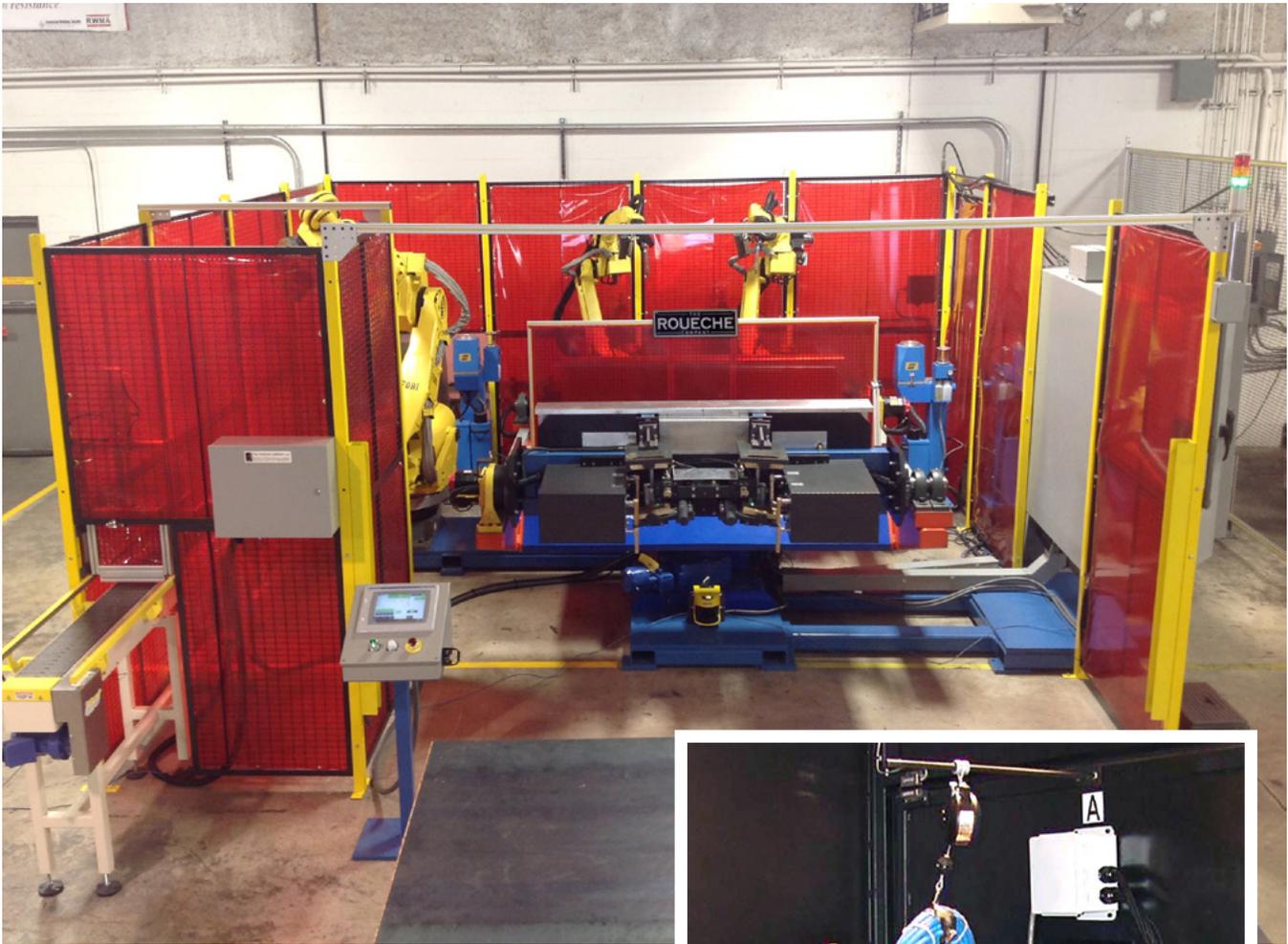
- Servo Cylinders and Servo Slides
- Improved Productivity
- Better Weld Quality
- Increased Speed and Precise Weld Location
- Reduces Electricity and Air Consumption

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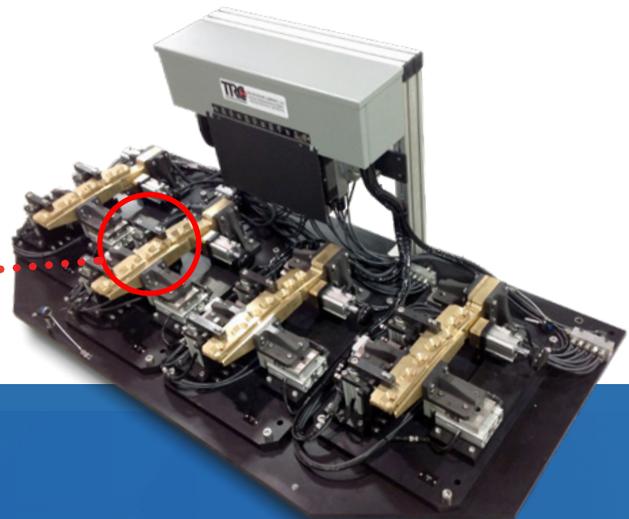
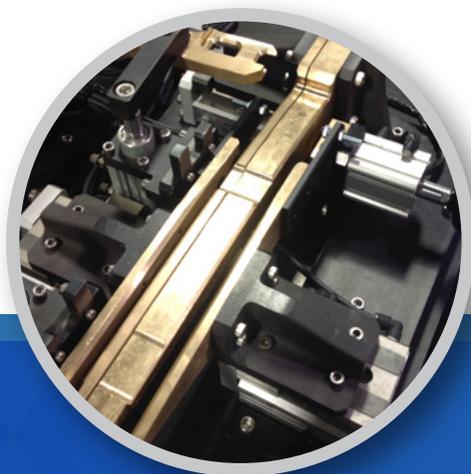
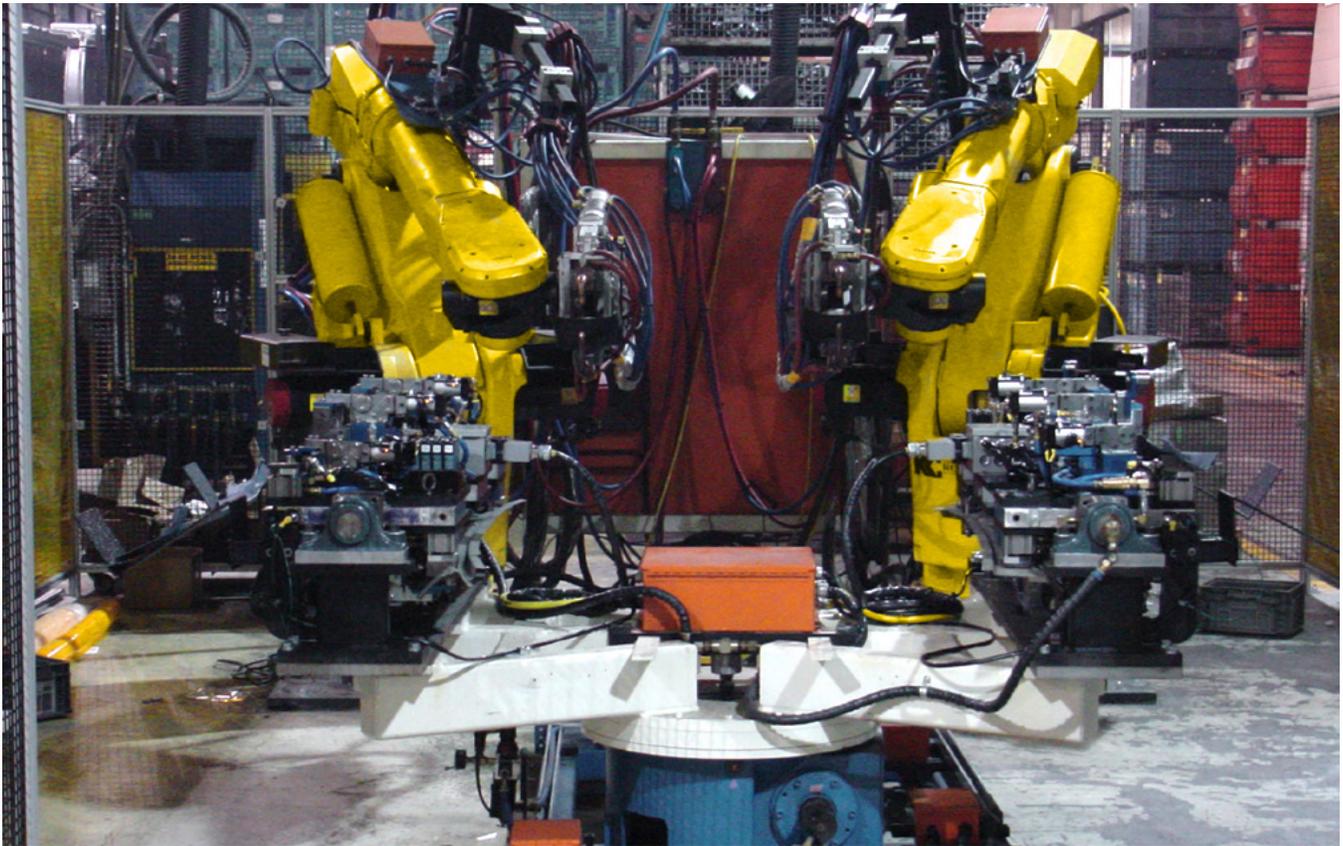
Whether you wish to acquire a new robotic welding system with integrated tooling or desire to retool and reprogram an existing robotic system, **TRC** will review the application with you and recommend the most cost effective and productive solution to meet your requirements.

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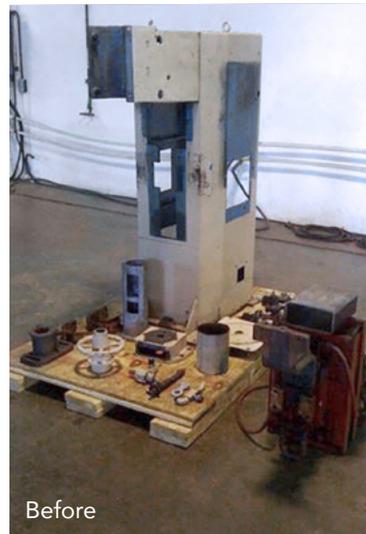
As with Robotic Spot Welders, TRC can design a new Robotic Arc Welding System with integrated tooling or retool and reprogram your existing robotic system. We will review the application with you and recommend the most cost effective and productive solution to meet your requirements.

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Accurate, precise, and repeatable tooling is a requirement for high volume robotically welded assemblies. **TRC** has the design capabilities, machining capabilities, assembly experts, and over-all experience needed to provide weld tooling for automated applications. We can supply tooling that comes complete with Control Packages, Sensors for all parts, motion, Poke-yokes, and Change-out Tools.

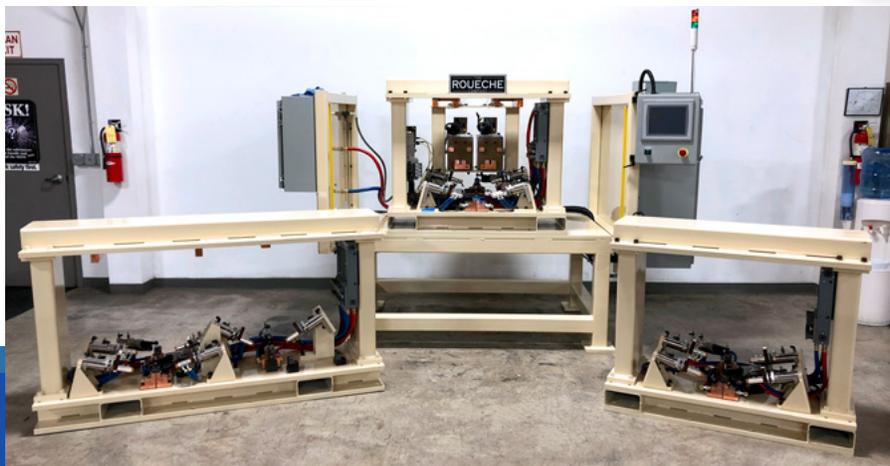
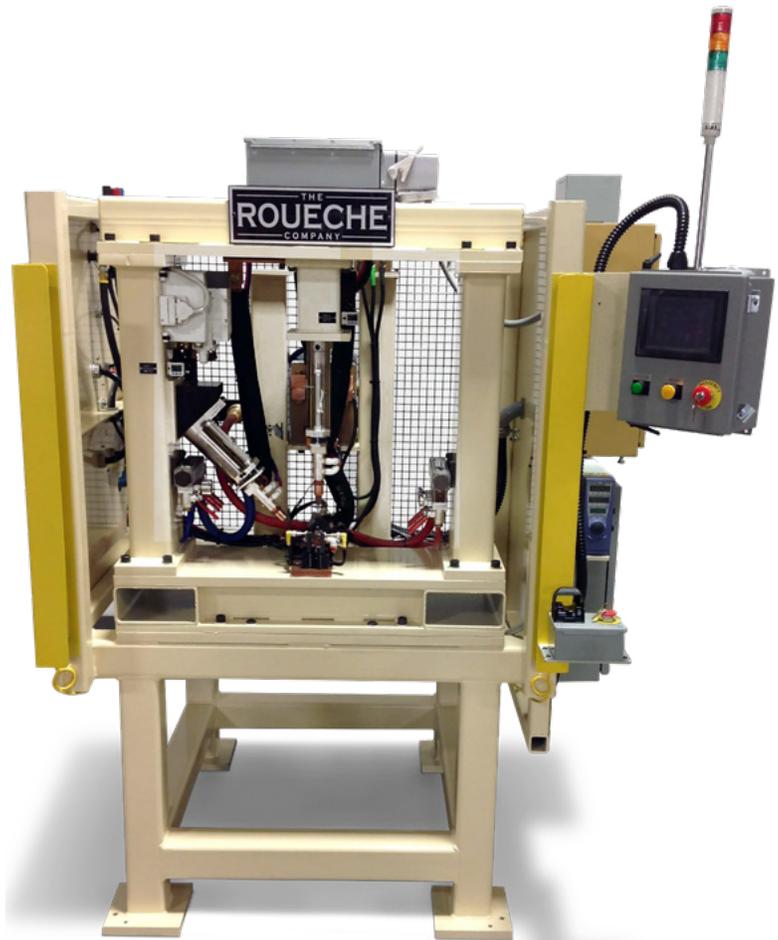
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TRC specializes in the complete remanufacture of any brand or model of welding machine. We will rebuild your welder to new specifications or we can supply you with a completely remanufactured welder from our inventory. All welders that undergo the comprehensive TRC Remanufacturing Process include a One Year Warranty.

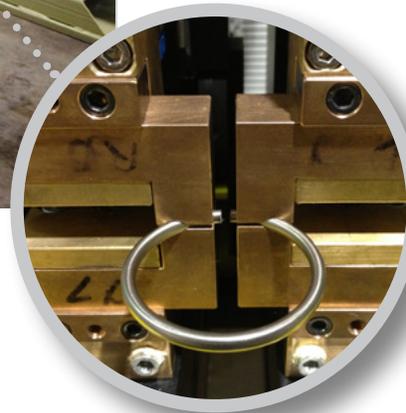
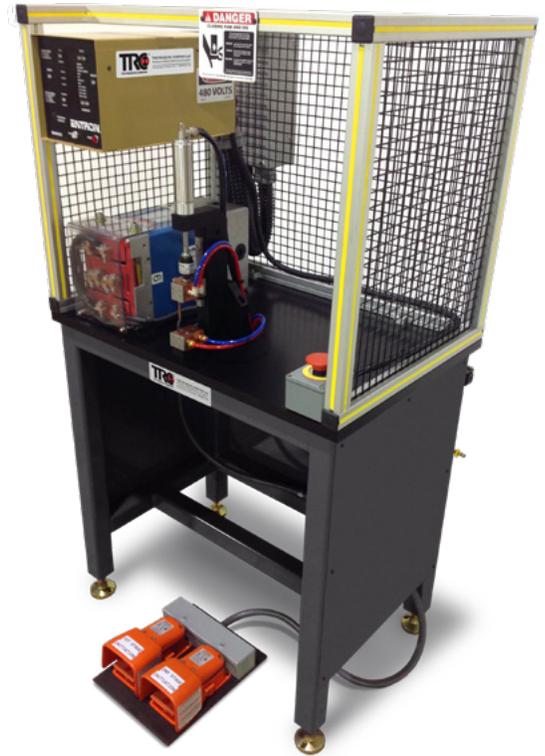
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- The universal base machine accepts multiple, interchangeable **Flex Weld Stations**. This design allows the Flex Welding Station to be removed and interchanged with other Flex Stations.
- The Changeover Flex Tooling Stations are uniquely designed for your applications.
- The traditionally expensive items (weld control, PLC, HMI, light curtains, transformers, and frame) are all integrated with the universal base and only One (1) is required, saving a lot of capital cost and recovering floor space!
- The Interchangeable Flex Stations are designed to be “quick-change” changeover time is less than 10 minutes!



TRC Flex Weld Stations are designed to accommodate multiple, interchangeable welding applications that allows you the ability to have advanced controls while still meeting your budgetary requirements. If you have multiple, custom welding applications that are of low to moderate volume – from 20,000-500,000 pieces per year – then this system is for you!

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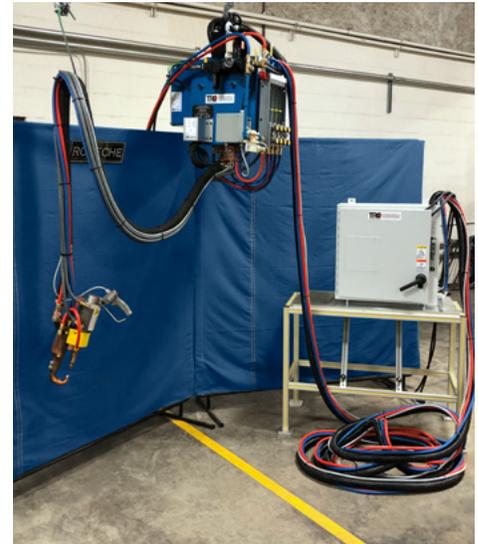
TRC Fine Spot Welders are custom designed to weld your particular product and are built to your manufacturing specifications. These welders are uniquely suited for very small applications such as battery pack/terminals, electronic components such as capacitors and resistors, cross wire welding, and many other applications.

These machines are available in Capacitor Discharge (CD Welding), Conventional AC, or MFDC Inverter Technology.

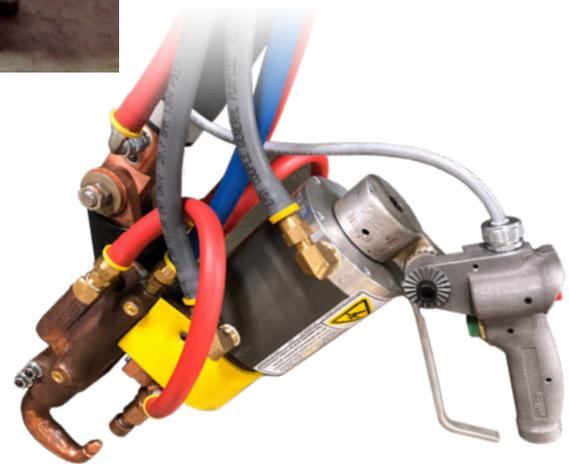
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"Scissor" Style Weld Gun System



"C-Gun" Style Hanging Weld Gun System



TRC Portable Weld Gun Stations are offered in either a manual **Trans-Gun** design or a **Hanging Gun** style. These types of welding systems are best suited for applications where the welding machine needs to be brought to the work. Common applications for **Manual Weld Guns** include door panels, large weldments, or other products that are too large for an operator to manipulate. These systems are designed to fit your application with custom throat heights, depths, arm designs, etc.

All such welders are available in Conventional AC or MFDC Inverter Technology.

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On-Site Service and Support

The TRC staff is always ready to provide you with consultation, training, technical support, and design assistance needed to ensure the success of your welding operations. We offer on-site services at your facility to help repair machinery, improve welding quality, evaluate processes, and offer solutions to help resolve any problems you may be encountering with a welding process.



Seminars and Training

TRC offers both on-site & online resistance welding training seminars. Training is designed around your products and we make sure to focus on your specific needs. Topics include:

- Resistance Welding - Defined
- Types of Welding Machines
- Resistance Welders and Components
- Factors In Resistance Welding
- Analysis of "The Process"
- Process Variables
- Weld / Process Monitoring
- Set-up Procedures for Spot Welders
- Useful Welding Charts
- Evaluating the Quality of the Weld
- Ideal Maintenance Practices
- Lab and Hands-on Instruction



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TRC is a select distributor for these quality component brands:



sales@trcwelding.com
trcwelding.com



1231 Latta Street
P.O. Box 5706
Chattanooga, TN 37406
888-WELD-USA
888-935-3872

