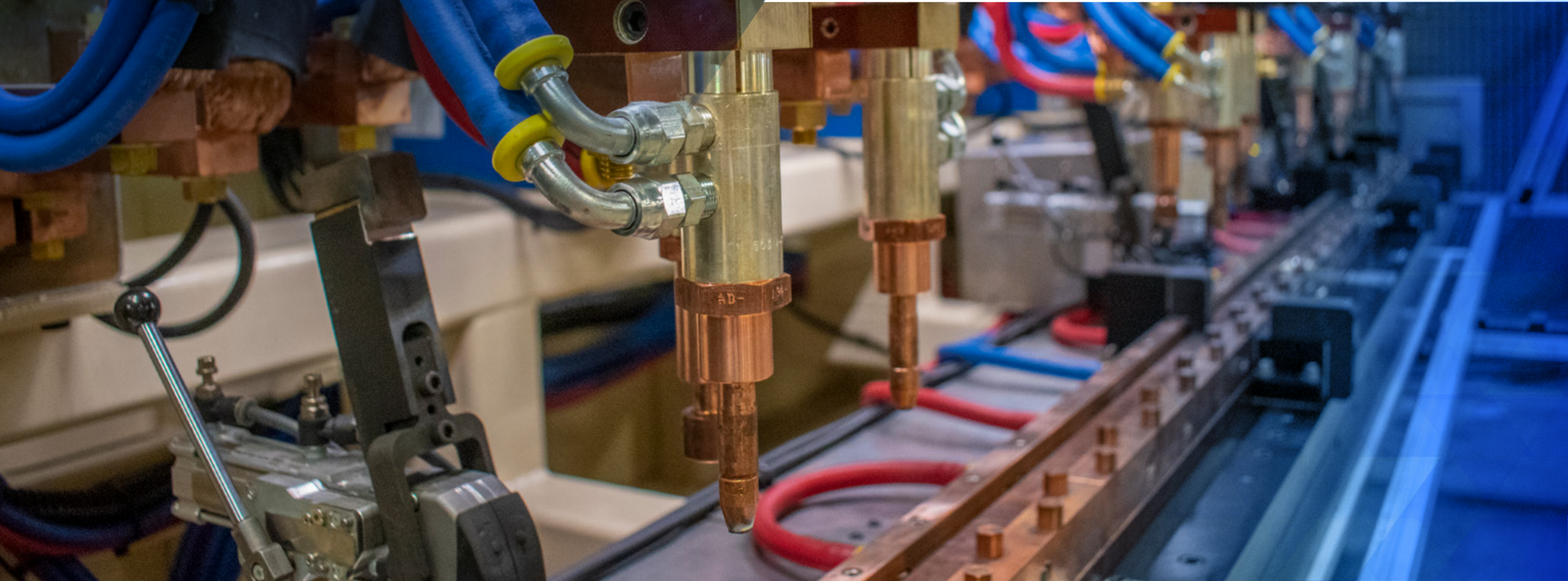


RESISTANCE WELDING

MACHINERY & SUPPLIES



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



Since 1999 THE ROUECHE 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 metalworking 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.

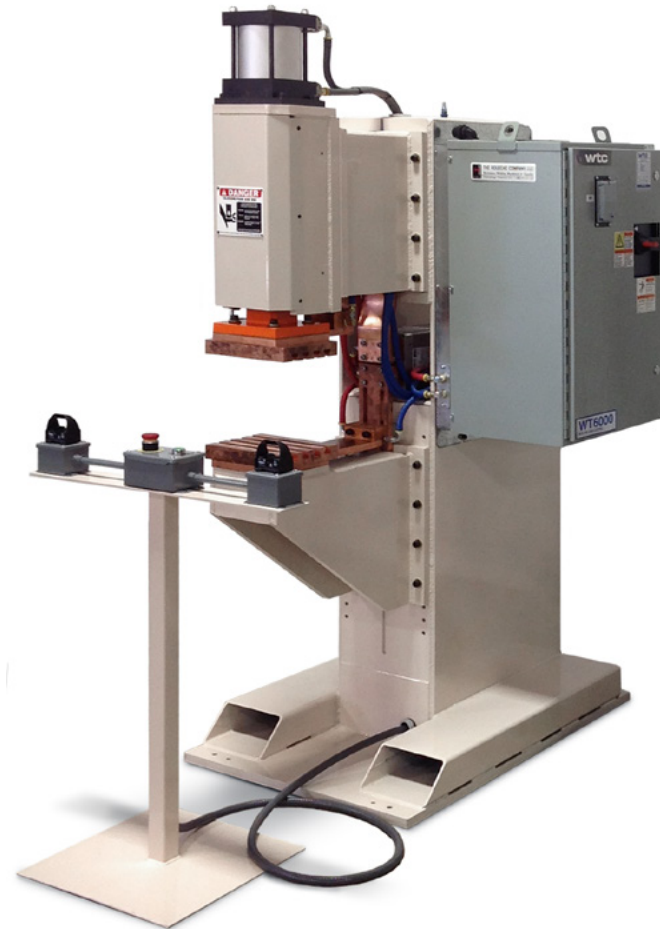
We work to earn your business by being honest and fair in our dealings, timely in our responses, and uncompromising in the quality of each and every product and service we provide.



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- 3 **TRC Streamline™** Resistance Welders
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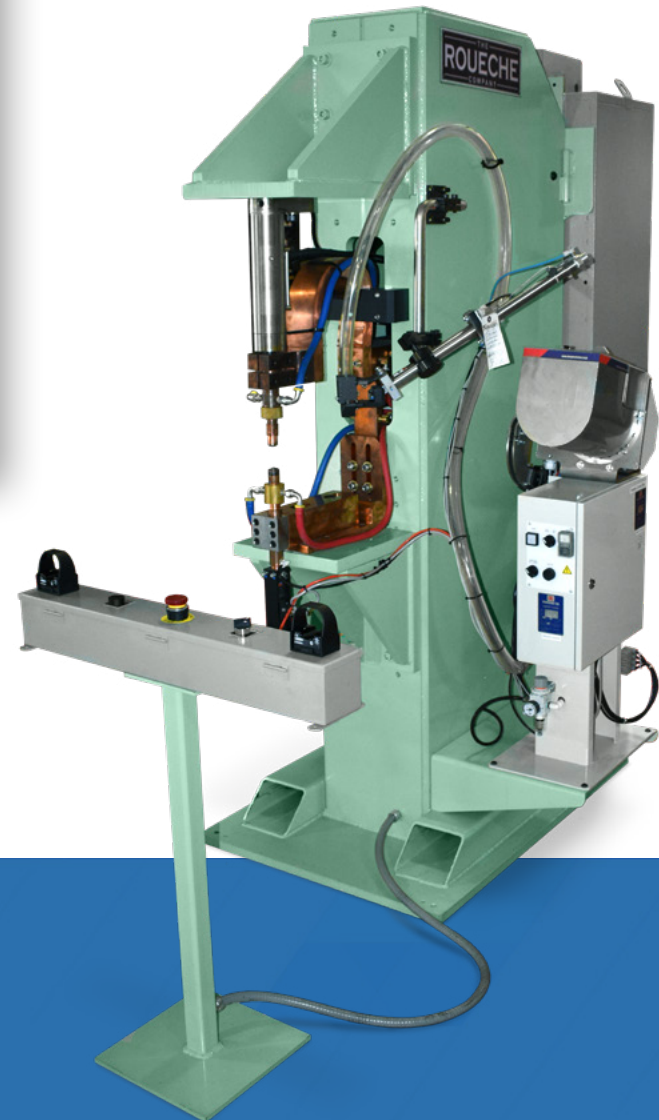
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TRC offers a variety of
Standard Resistance Welders:

- 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.

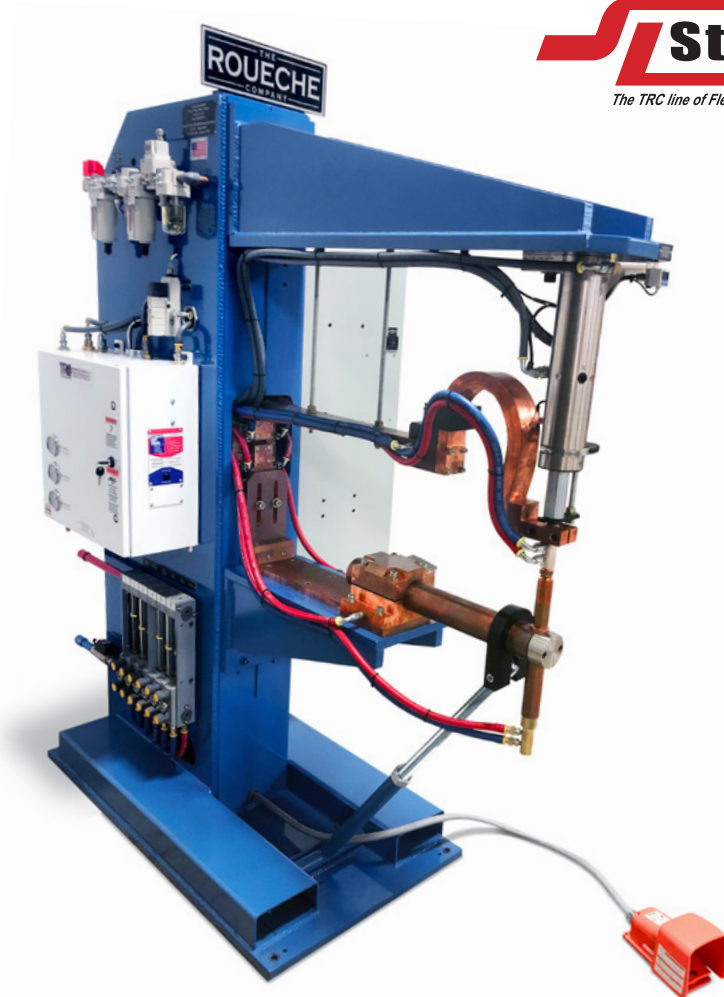
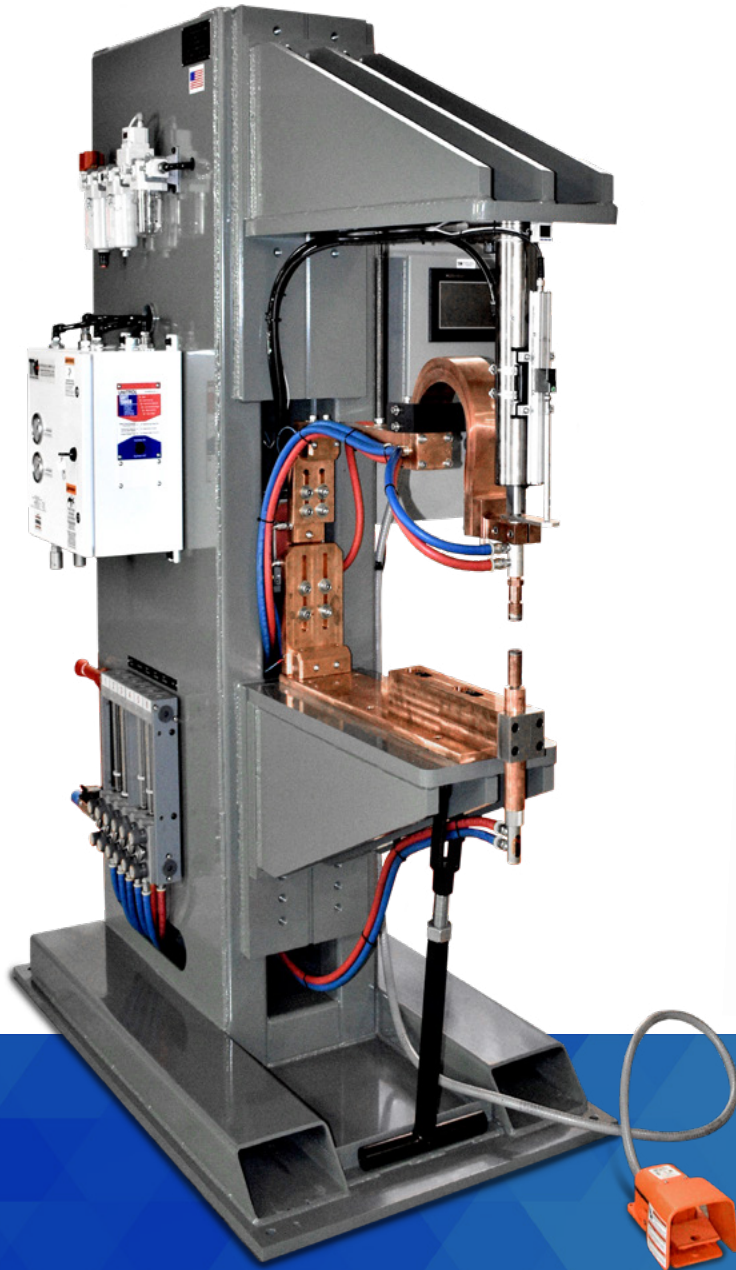
TRC Streamline Deep Throat Spot / Nut Welders

THE ROUCHE COMPANY ■ trcwelding.com ■ [888.WELD.USA](tel:888.WELD.USA)

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StreamLine™
The TRC line of Flexible Resistance Projection/Spot Welders

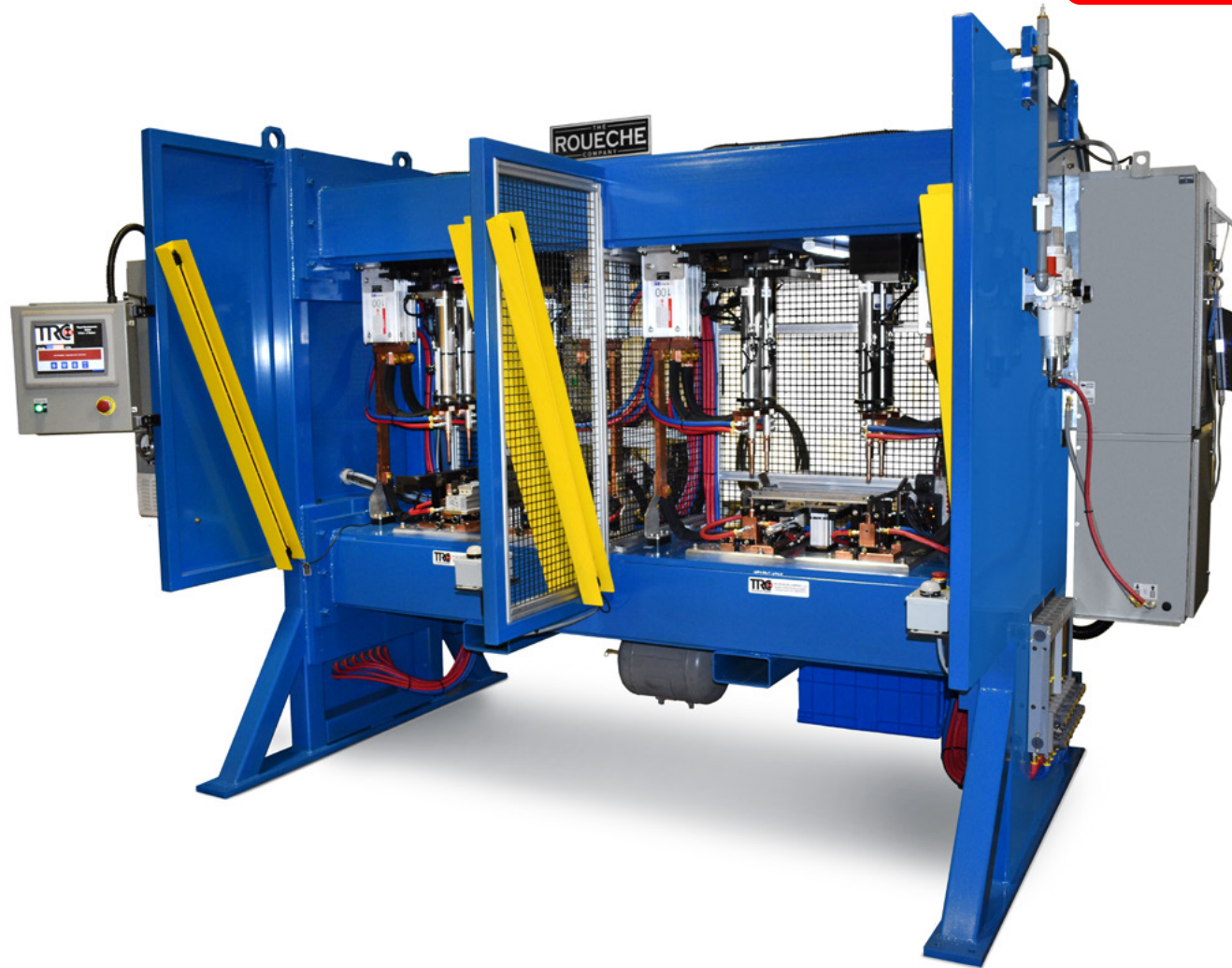


You can see the versatility and flexibility these machines can offer. The welders can include these standard and custom features:

- Conventional AC or MFDC Inverter Control Systems
- Pneumatic, Air/Oil or Servo Welding Cylinders
- Transducers for Gun Stroke and Electronic Air Pressure Transducers

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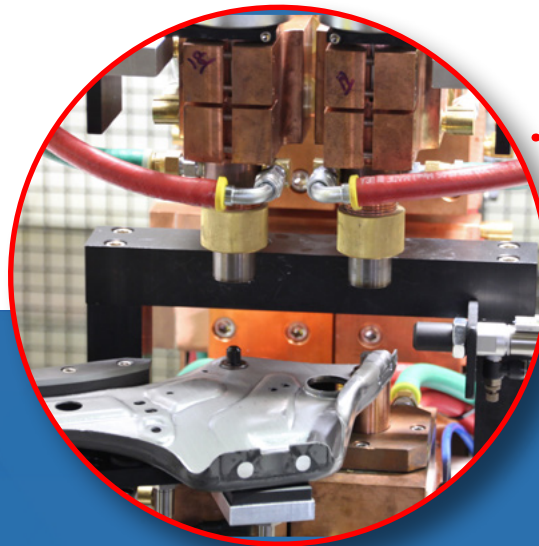
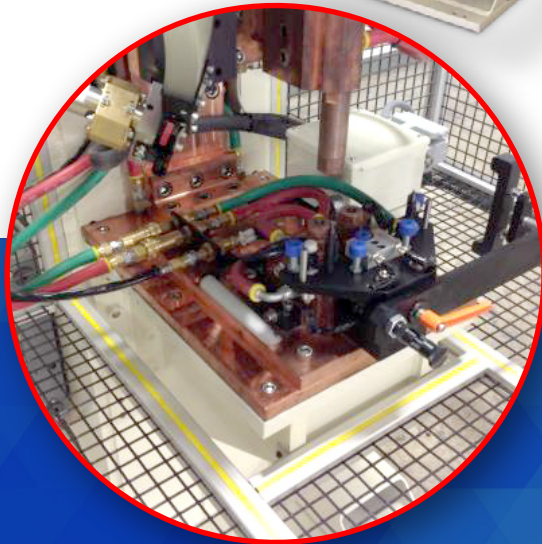
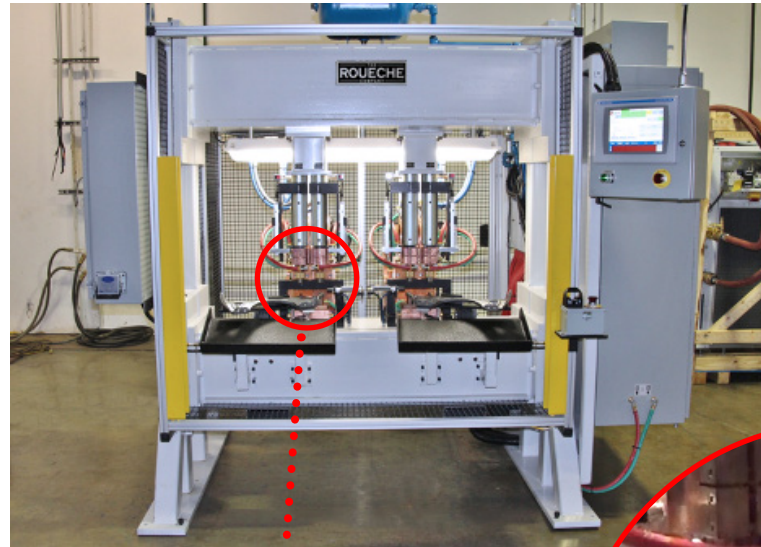
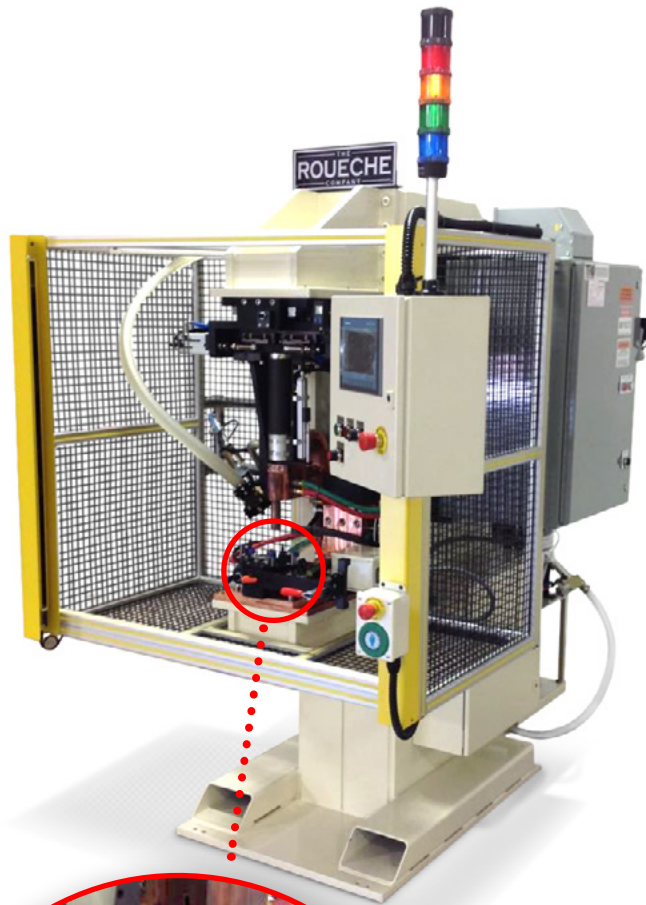
For custom applications, **TRC** will inspect and evaluate your prototype parts or CAD files to determine what type of machine and tooling, will best suit your needs and meet the required cycle time and product requirements.



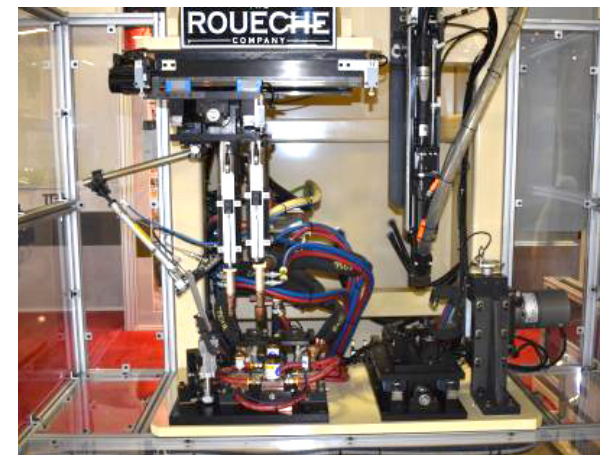
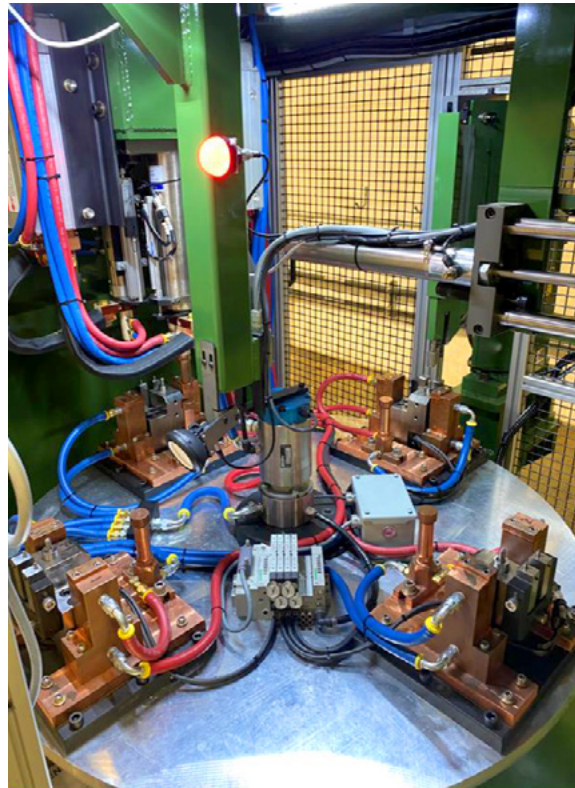
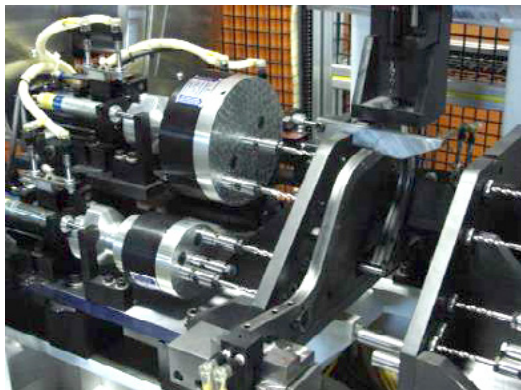
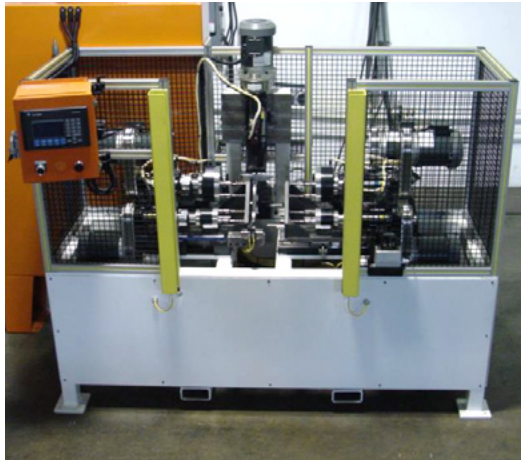
TRC offers a variety of **Standard Resistance Welders:**

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

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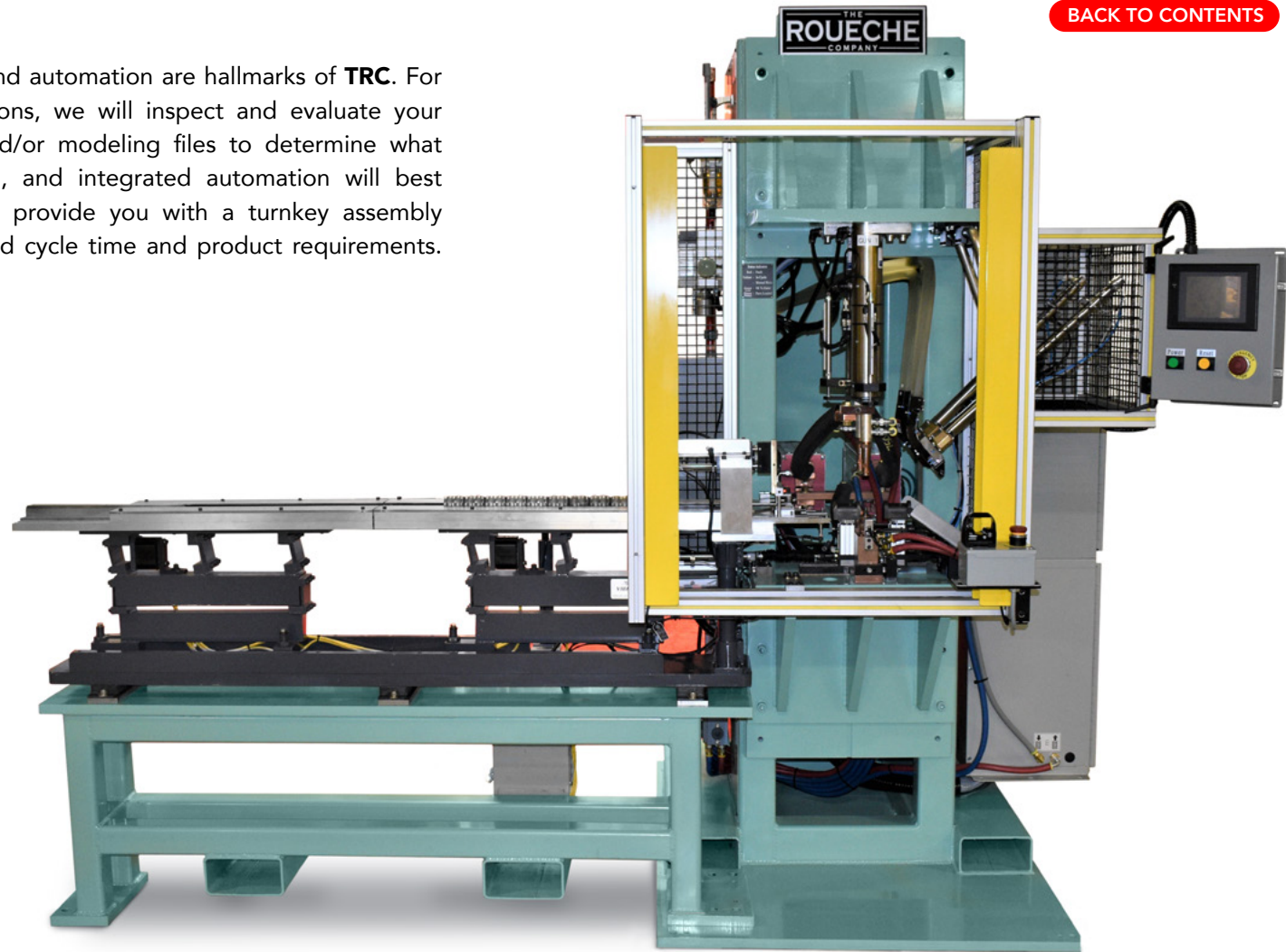


TRC can incorporate a variety of Integrated Fabricating Equipment into our custom resistance welders that can ultimately provide you with a turn key assembly while meeting the required cycle time and product requirements.

- 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/or 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.



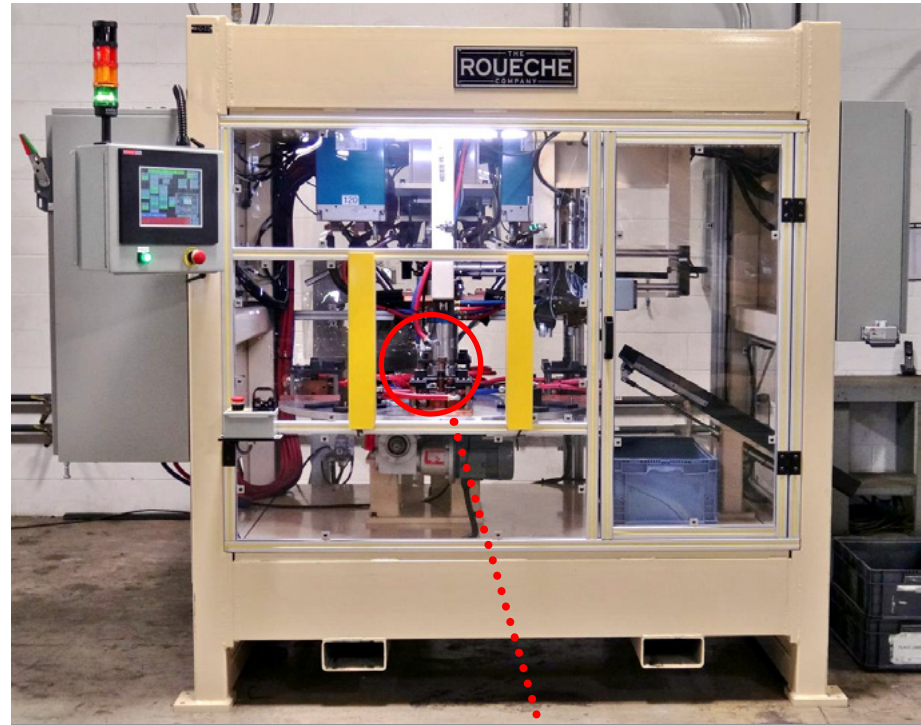
TRC offers a variety of Semi/Automated Resistance Welders:

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

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Four-Station Indexing Stud Welder

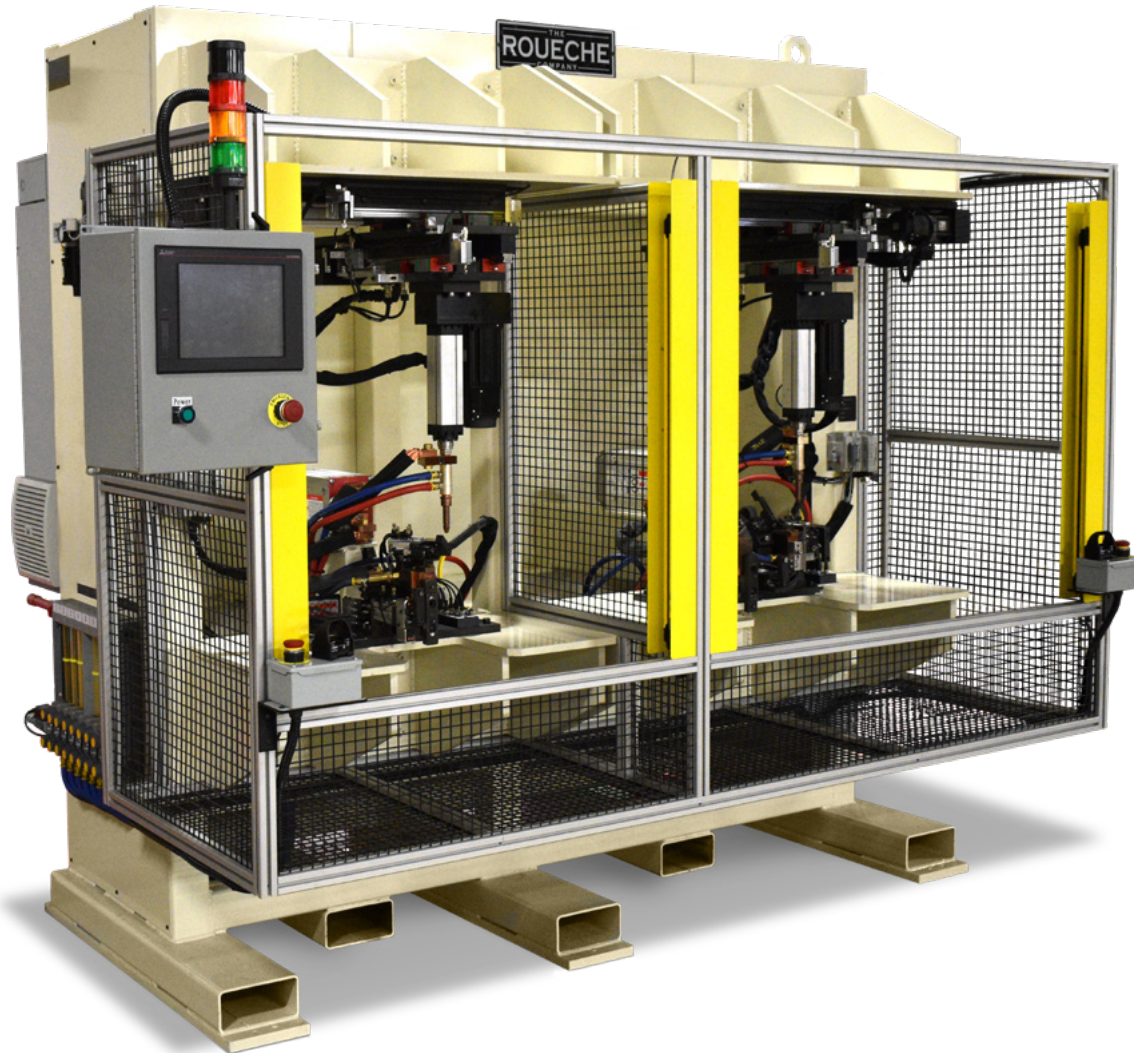


Four-Station Indexing
Projection Nut Welder with
Vision Sensors and Automatic
Part Eject



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

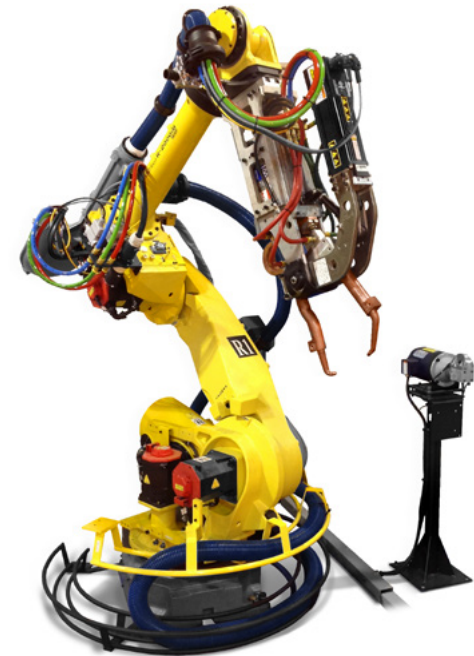
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TRC offers the latest opportunities with Servo Technology which can provide the following:

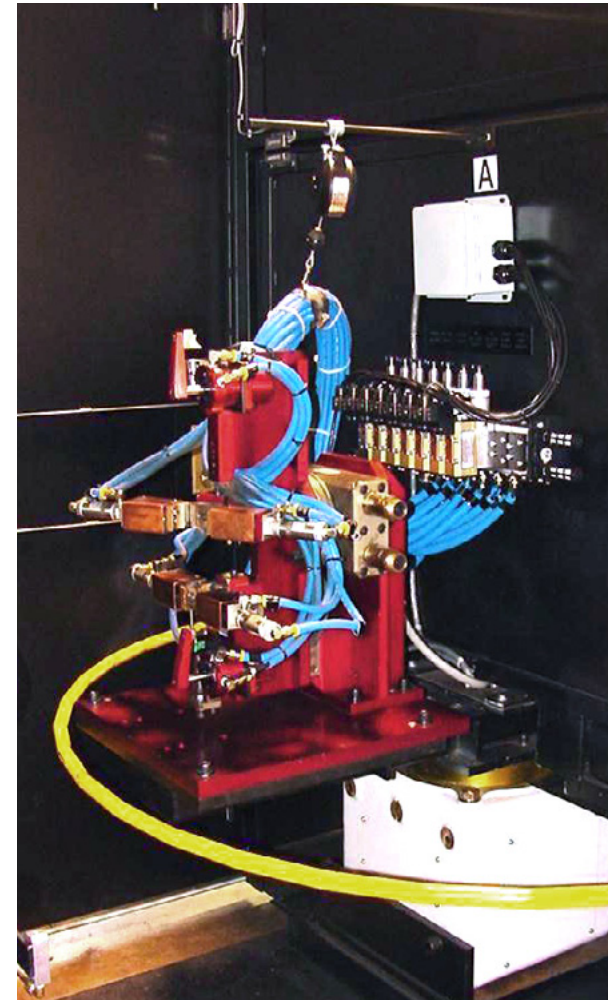
- Servo Cylinders and Servo Slides
- Improved Productivity
- Better Weld Quality
- Precision Weld Location
- Reduces Electricity and Air Consumption

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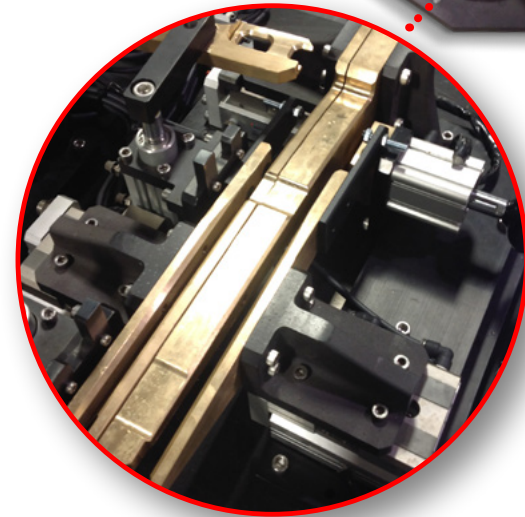
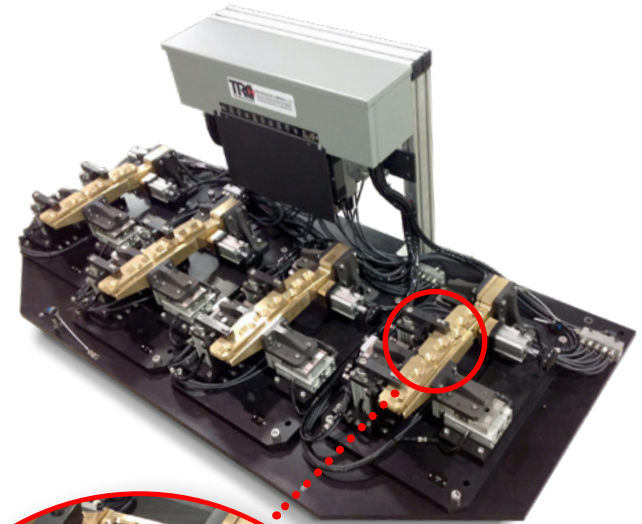
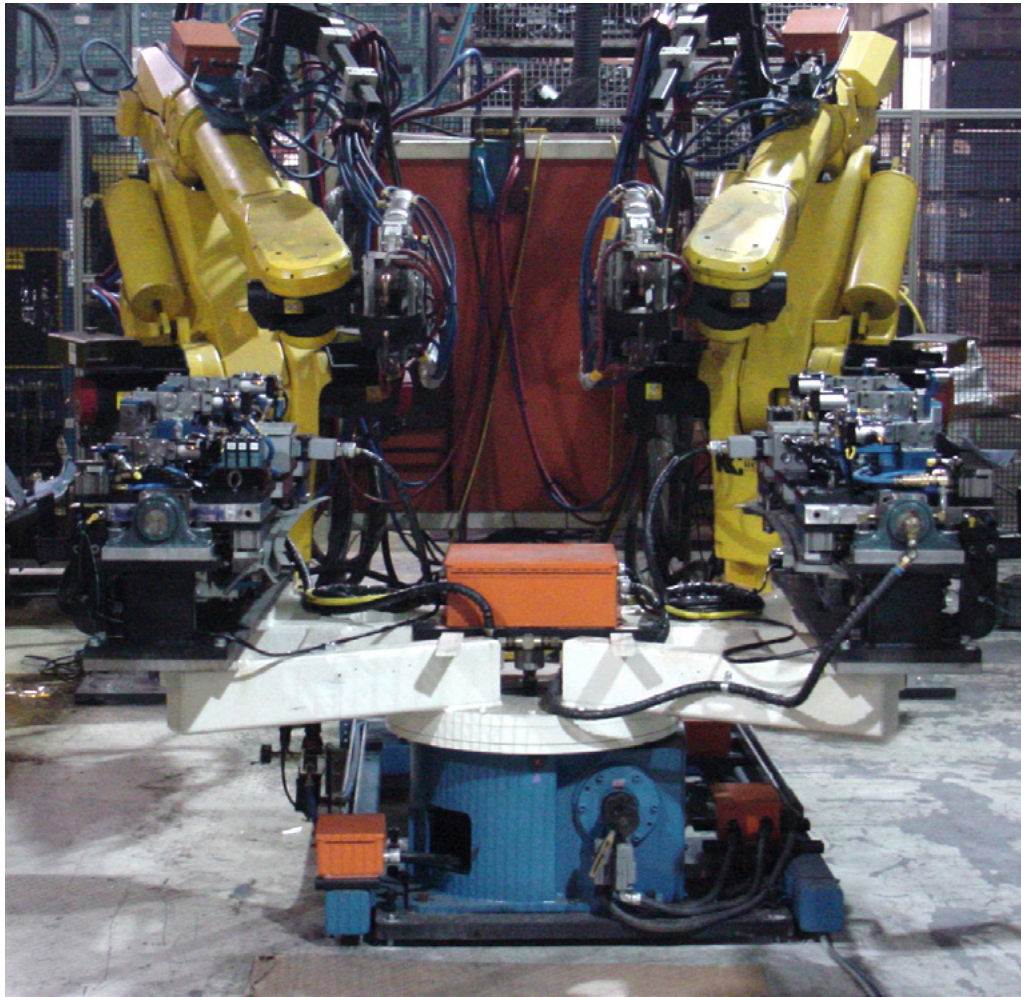
Whether you wish to acquire a new robotic welding system with integrated tooling or desire to retool and reprogram an existing robotic system, **TRC** will review the application with you and recommend the most cost effective and productive solution to meet your requirements.

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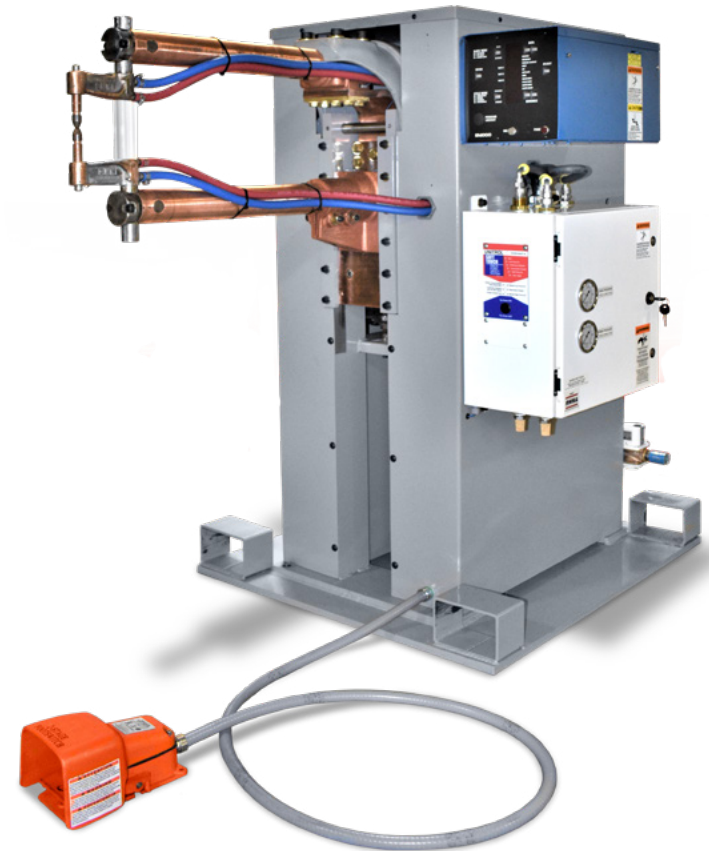
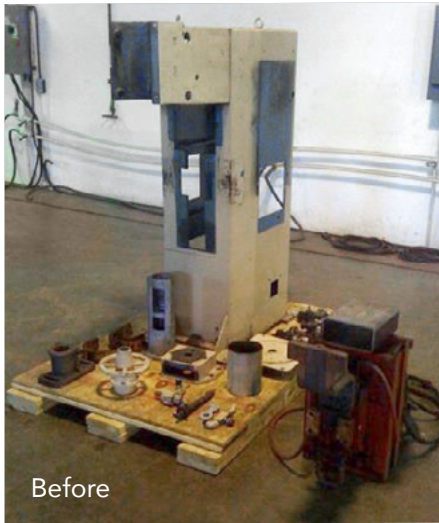
As with Robotic Spot Welders, **TRC** can design a new Robotic Arc Welding System with integrated tooling or retool and reprogram your existing robotic system. We will review the application with you and recommend the most cost effective and productive solution to meet your requirements.

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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, Poka-okes, and Change-out Subs. We also provide tooling that can be added to your own electrical package.

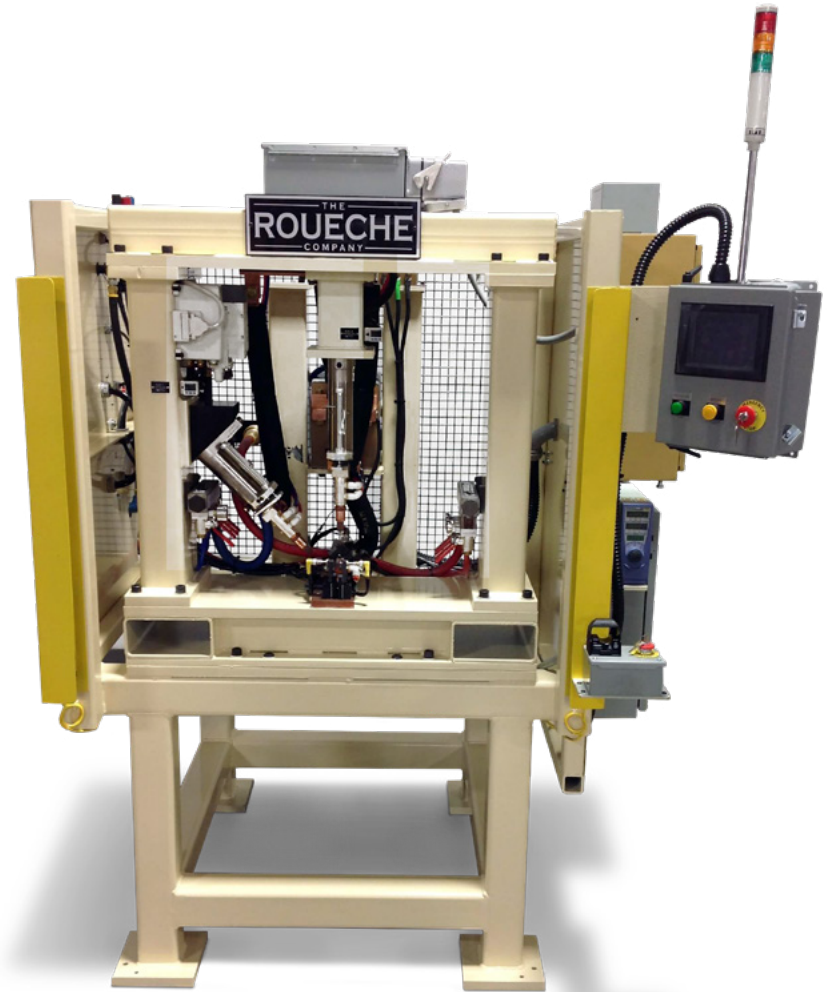
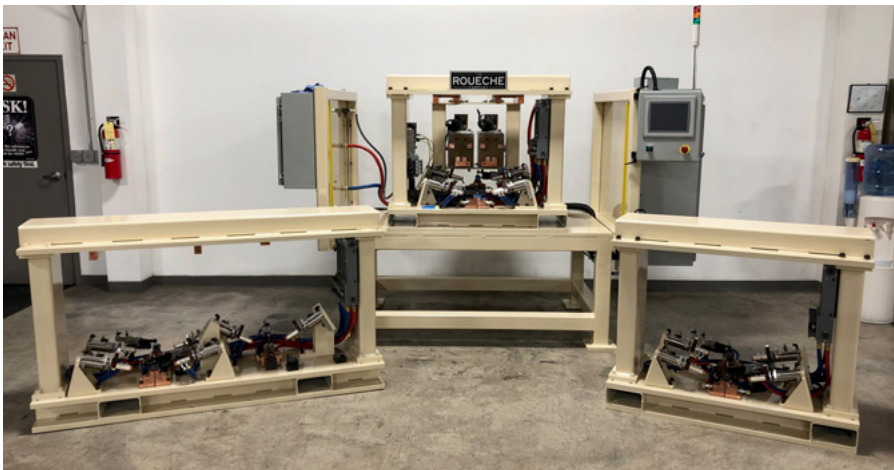
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TRC specializes in the complete remanufacture of any brand or model of welding machine. We will rebuild your welder to new specifications or we can supply you with a completely remanufactured welder from our inventory. All welders that undergo the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

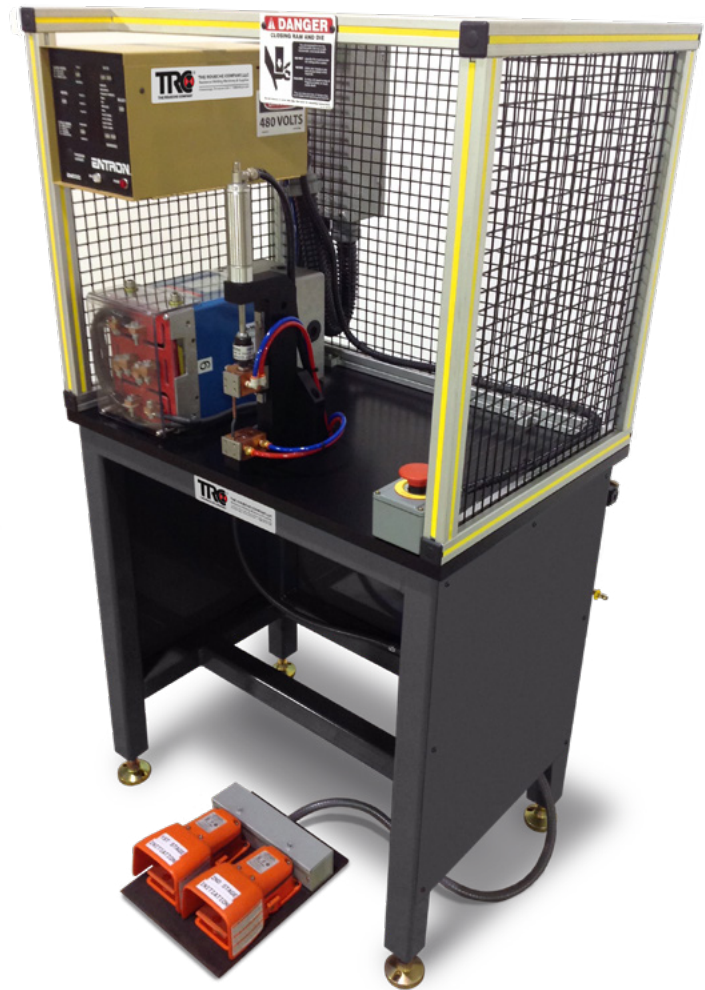
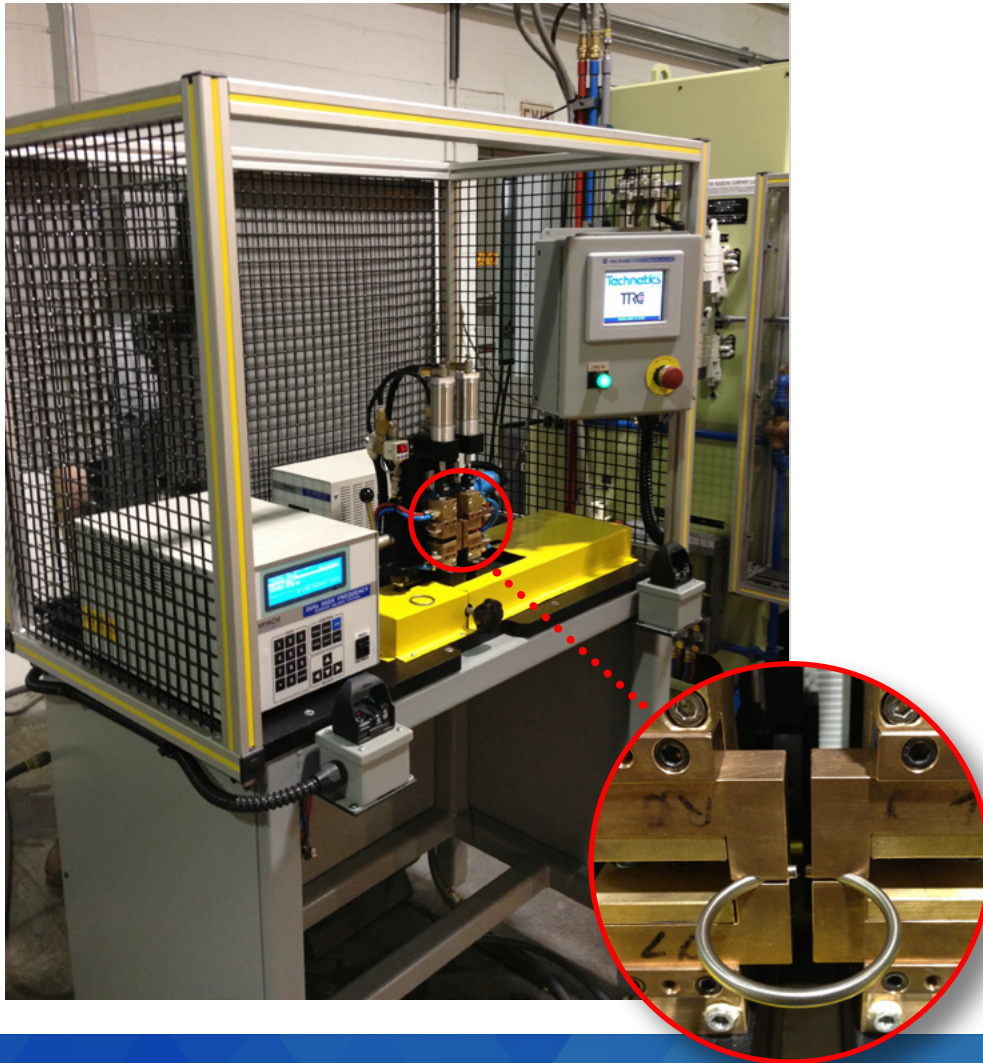
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- The universal base machine accepts multiple, interchangeable **Flex Weld Stations**. This design allows the Flex Welding Station to be removed and interchanged with other Flex Stations.
- The Changeover Flex Tooling Stations are uniquely designed 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 50,000-500,000 pieces per year – then this system is for you!

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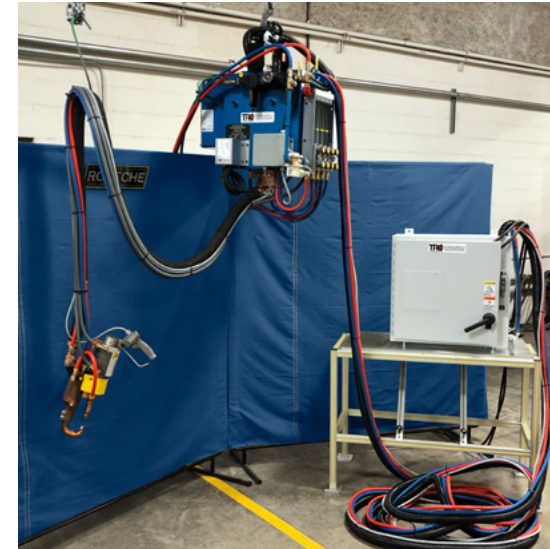
TRC Fine Spot Welder Stations are custom designed to weld your particular product and are built to your manufacturing specifications. These welders are uniquely suited for very small applications such as battery pack/terminals, electronic components such as capacitors and resistors, cross wire welding,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

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

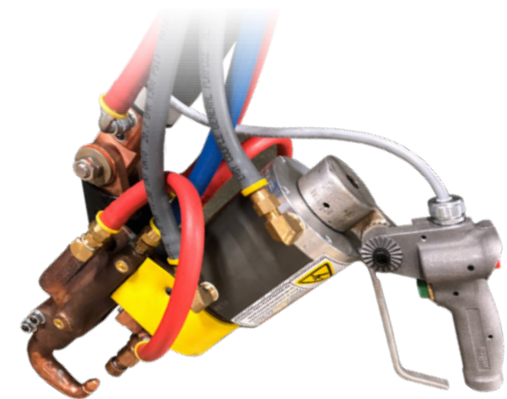
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"Scissor" Style Weld Gun System



"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 product 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.

Electrode style and other options are available in Conventional AC and MFDC Inverter Technology.

Resistance Welding Parts & Accessories

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Regardless of the type of parts or welding consumables you require, TRC will provide the spot welding supplies and components that your application requires.

- Weld Controls
- Consumables
- Weld Transformers
- Nut Feeders
- Water Chillers



TRC is a select distributor of welding controls (WTC, Entron, Unitrol, Bosch, Miyachi), RoMan welding transformers, water chillers (MTA & Koolant Koolers), complete variety of welding consumables (Tuffaloy, Tipaloy, Centerline, CMW, etc.)

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



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888- 9353-872

