



MANUFACTURING CAPABILITIES

Contract Manufacturing | Engineered Solutions

MADE IN USA



Global Headquarters in
LaFox, Illinois, USA

FROM CONCEPT TO RELEASE

Our in-house manufacturing and turnkey capabilities include design, development, sourcing, manufacturing, and testing.

rell.com



Who We Are

For over 75 years, Richardson Electronics, Ltd. (NASDAQ: REL) has been a leading global provider of engineered solutions, power grid and microwave tubes and related consumables; power conversion and RF and microwave components; replacement parts, tubes, and service training for diagnostic imaging equipment; and customized display solutions.

We have locations around the world and a 250,000 sq. ft. manufacturing facility located in LaFox, IL (50 miles outside of Chicago). We manufacture a wide variety of RF and microwave components, as well as electron tubes and vacuum devices and other engineered solutions such as energy storage modules and power management devices. Our capabilities extend from concept to final release, including design, development, sourcing, manufacturing, and testing.

DID YOU KNOW?

Richardson Electronics can support 1:1 testing for obsolete components to keep your supply chain moving.

Product Development Cycle

Richardson's engineered solutions approach puts your needs first while leveraging our expertise in both design and manufacturing. With our passion for product quality, we have built a reputation for unmatched reliability. We stand behind every product we deliver – with our exclusive testing protocols, expert engineering team, and state-of-the-art manufacturing facility, you can be confident that Richardson Electronics is the better choice for your engineered solutions.

Idea/Concept Development

We take your concept or idea and produce a product with your input and requirements.

Technical Product Development

- Power and Digital Engineering
- Embedded Software Solutions
- Mechanical and Electrical Design
- Circuit Board and Layout Design
- Energy Storage and Integration Solutions

Prototype

In-house machine shop and engineering teams allow for prototype design and development with a focus on functionality, quick turnaround, and competitive pricing.

Pre-Production Builds

These units are built for testing and evaluation. Our extensive testing protocols can be conducted at our in-house labs, in the field, or both.

Regulatory Certification

Our compliance team ensures your product will comply with the most demanding quality standards and certifications (UL, CSA, CE markings, etc.).

Production Launch

Our detailed approach to manufacturing and production allows us to deliver solutions for any volume requirement.

Comprehensive Service & Support

After a successful product launch, our team will continue to support you by providing engineering and technical support.



Production Line Implementation

Scalable Production Lines - Quantities from 10 to 100,000+



We are more than just another manufacturer. With over 75 years of expertise, our team is dedicated to providing exceptional service and support as we develop your production line to meet your needs. Due to our vertical integration, our capabilities include but are not limited to:

- Handling Return Merchandise Authorization (RMAs) with ease, creating refurbishment programs, and providing failure analysis upon request
- Creating product stocking plans with warehouses all over the world
- Manufacturing your product with a global network of certified partners
- Offering a highly adaptive workforce to quickly produce high quality products
- Delivering solutions for all types of order sizes
- We are a UL-DQS registered firm, certified to ISO9001 and ISO13485. We provide our customers with the assurance that our engineered solutions are held to the highest standards while being produced in a timely manner.

**DID YOU
KNOW?**

Richardson Electronics provides precise copy-exact and critical component manufacturing, ensuring process repeatability, reliability, and consistent product quality across every phase of your program.

In-House Manufacturing Capabilities



Cable Manufacturing

- Power and RF
- Data and Communication
- IPC/WHMA-A-620 Certified Operators



Vacuum Tube Production

- Magnetron Conversion
- CW Magnetron Manufacturing
- CT Tube Manufacturing



Custom Production Lines

- Flexibility for Low Or High Volume
- Streamlined for Cost Efficiency
- Custom Work Cell = Quality Output



Electromechanical Assembly

- Industrial Equipment
- Microwave Components and Sources
- Power Conversion Systems



PCB Assembly

- Pick and Place Lines with AOI
- X-Ray Inspection
- Automated = Repeatability = Cost Savings



Machine Shop

- CNC Machining
- Sheet Metal Fabrication
- Plating, Welding, and Brazing



Design

- Team of Engineers
- Product Design/Development
- Circuit Board Layout & Design
- 3D CAD Design & Simulation
- Embedded Software Solutions
- Advanced Component Selection



Testing

- Quality Certifications
- High Voltage and Power Conversion
- Customized Quality Process
- RF, Digital and Power Testing
- Automated Test Sets
- Regulatory Compliance