

Richardson Electronics Q1 FY2025 Investor Presentation

October 9, 2024

NASDAQ: REL



Forward Looking Statement

This overview includes certain “forward-looking” statements as defined by the Securities and Exchange Commission. Statements regarding the Company’s business which are not historical facts represent “forward-looking” statements that involve risks and uncertainties. For a discussion of such risks and uncertainties, which could cause actual results to differ from those contained in the forward-looking statements, see Item 1A, “Risk Factors” in the Company’s Annual Report on Form 10-K. The Company assumes no responsibility to update the “forward-looking” statements in this overview as a result of new information, future events, or otherwise.





About Richardson Electronics

ENGINEERED SOLUTIONS



Richardson Electronics (NASDAQ: RELL) designs and manufactures nearly 50% of the products it sells for power, microwave, and imaging solutions to industries worldwide.

Technical expertise and “engineered solutions” based on our core engineering and manufacturing capabilities

Value added solutions through design-in support, system integration, prototype design and manufacturing, testing, logistics, and aftermarket technical service and repair

Global infrastructure and support to serve customers wherever they are located

VISION

To make our world a better, more sustainable place by providing innovative technology solutions.

MISSION

We provide solutions that improve our world through innovative engineering and manufacturing in collaboration with our employees, customers and technology partners.

VALUES

- We are a diverse family; we take care of our people.
- We focus on long term viability for our company, our community and our world.
- Every interaction is important and deserving of respect.
- We believe in hard work, reward, and the determination to succeed.



Key Facts & Figures



Strong balance sheet with robust cash and cash equivalents and no debt



Certified experts that are ISO 9001:2015 and ISO 13485:2016 certified



440+ employees with over half in sales, engineering and product management



More than 20,000 OEM and end-user customers throughout the world



Headquarters in LaFox, Illinois



RELL is global with 60+ locations worldwide with legal entities in 24 countries



Our Business Units



Power & Microwave Technology (PMT)

- FY2024 Revenue: \$128.7M
- Power grid and microwave tubes (EDG)
- Power management for 5G (PMG; started in 2014)
- In-house manufacturing and partnering with leading technology suppliers
- Global engineering and design support
- Key supplier to semiconductor industry



Green Energy Solutions (GES)

- FY2024 Revenue: \$23.2M
- Designs and manufactures key products for the fast-growing energy storage market and power management applications
- Leverages existing global infrastructure and expertise
- Products for numerous green energy applications such as wind, solar, hydrogen, EVs, and synthetic diamonds



Healthcare

- FY2024 Revenue: \$12.1M
- CT and MRI replacement tubes
- Diagnostic imaging replacement parts
- CT service training and technical support
- P3 Service Contracts for managing maintenance and repair costs
- State of the art manufacturing facility



Canvys

- FY2024 Revenue: \$32.4M
- Custom display solutions for healthcare, industrial, retail and transportation applications
- All-in-one computer display solutions
- Engineering design and support

A Legacy of Engineered Solutions A Future of Innovation



Power Grid Tubes



CW Magnetrons



Ignitrons & Thyratrons



Microwave Generators



Pulse Magnetrons



Ultracapacitors



CT Replacement Tubes



Refurbished CT Systems



Custom OEM Displays



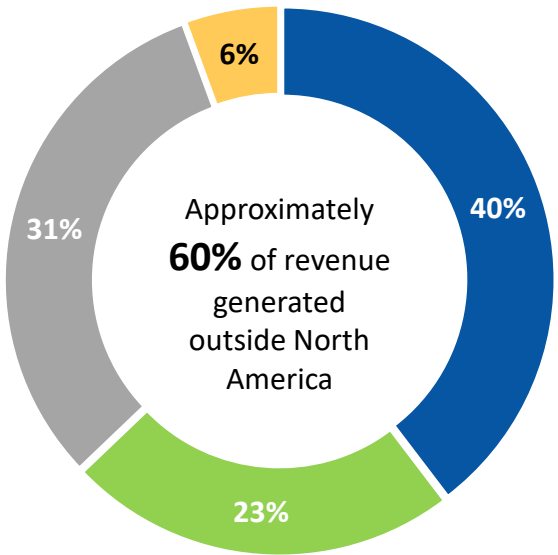
All-In-One Computer Solutions



Local Service Supported Through Extensive Network of Over 60 Global Locations



FY2024 Sales by Geography



■ North America ■ Asia/Pacific ■ Europe ■ Latin America

Sophisticated Global Infrastructure

- More than 60 sales offices & stocking locations
- Global field engineering support including over 75 RF, Microwave and CT engineers for leading technology suppliers
- Service and repair supported by local presence
- IT Infrastructure supports global visibility into real time inventory, quote and orders
- Information shared across organization to identify opportunities and facilitate design wins

Global Logistics and Supply Chain Capabilities

- Importer of record in 24 countries with international distribution hubs in North America, Asia, and Europe
- Shipment to any location worldwide in one to three business days
- Transactions in local language, and local currency
- Maximum flexibility including small quantity orders
- Export Control Classifications Number (“ECCN”) items flagged for export control



Growth Strategies

Strategy Supported by Strong Core Business, New Products and New Markets

Management has created a strategic plan focused on driving growth and creating sustainable value for shareholders



Growth supported by strong core business, 75+ years of engineering capabilities, and global platform



Strategy focused on leveraging core engineering capabilities to expand product lines into large, fast growing global markets



Global footprint supports customers and maintains strong strategic partnerships with leading manufacturers

New markets and applications support significant expansion to the Company's growth opportunities

Unique Relationships with Technology Partners Deepens Customers Relationships



Technology Partners

Engineered Solutions

Customers



Strong relationships with global technology partners expands Richardson Electronics' sales and deepens customer relationships from components to Engineered Solutions

Growth Opportunities and Focus:

Richardson's Strategy Aligned with Compelling Market Dynamics



Market	Market Driver / Update	Richardson Opportunity
 <p>Green Energy/Power Management</p>	<ul style="list-style-type: none"> • Power management section of systems using distributive technology • Growing markets that need new technology and products to support changing power management systems 	<ul style="list-style-type: none"> • Developing patented technology for niche applications in niche markets • Patented products for growth markets such as wind, solar, EV, generators, BMS modules, and ESS (energy storage systems)
 <p>Power Grid Tubes</p>	<ul style="list-style-type: none"> • New applications are supporting growth in microwave tubes and magnetrons • Examples include emerging markets such as synthetic diamonds, hydrogen, and building materials 	<ul style="list-style-type: none"> • RELL is one of the few remaining tube manufacturers and engineering companies • For example, RELL's 6KW magnetrons are being used for producing synthetic diamonds; replacement cycle every two years
 <p>Semiconductor</p>	<ul style="list-style-type: none"> • Semiconductor capex cycle expected to remain strong over the long term • LAM Research, a RELL semiconductor customer, expects demand to return to growth in fiscal 2025 	<ul style="list-style-type: none"> • Products support the global semiconductor wafer fab equipment market • RELL well positioned for high mix/low volume production and engineering design and support
 <p>Healthcare</p>	<ul style="list-style-type: none"> • Very few replacement options for CT tubes • OEMs charge high prices for tubes and parts if hospital is not covered by expensive OEM service contract 	<ul style="list-style-type: none"> • Helping customers improve efficiency and deliver better clinical outcomes while lowering the cost of healthcare delivery • \$10 billion estimated global opportunity for aftermarket for diagnostic imaging parts and service

Growth Strategies Align with Large Multi-Year Secular Trends



IRA (Inflation Reduction Act)¹

- **\$370 Billion** invested in Energy Security and Climate Change Programs (electric, solar, battery) over the next ten years.
- The Inflation Reduction Act creates a new production tax credit for domestic manufacturing of components along the supply chain for solar modules, wind turbines, battery cells and modules, and critical minerals processing.

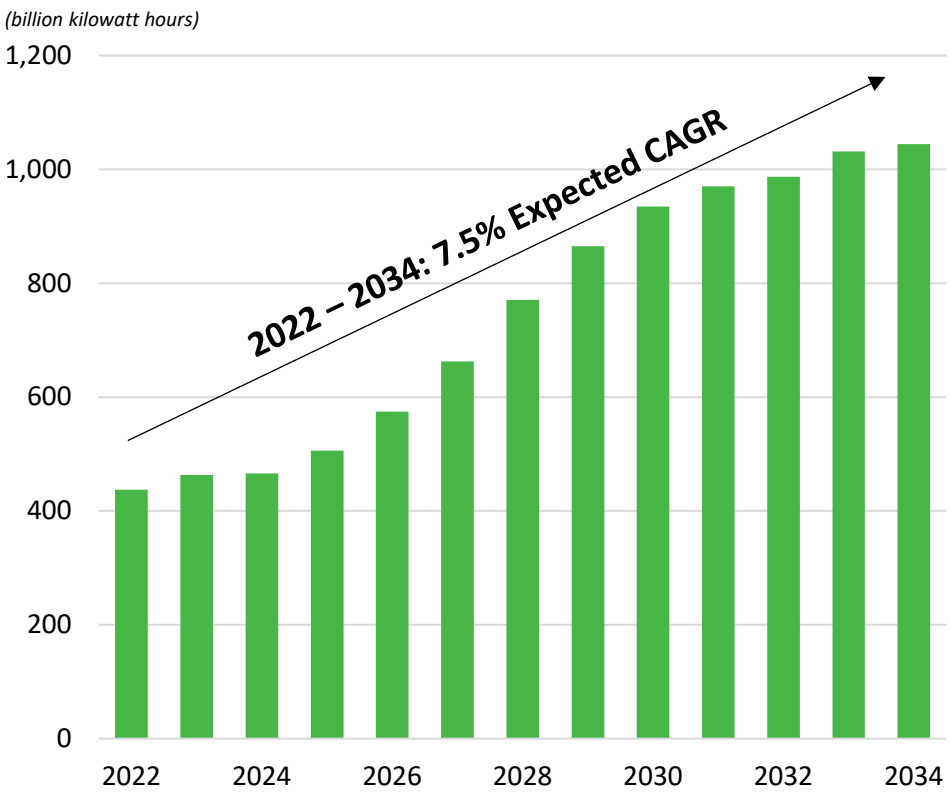
IIJA (Infrastructure Investment and Jobs Act)²

- The legislation includes around **\$550 billion** in new federal investment in America’s roads and bridges, passenger and freight rail, power and grid reliability and resiliency, and more.

International Energy Agency Renewables Report 2023³

- Solar PV and onshore wind additions through 2028 is expected to **more than double** in the United States, the European Union, India and Brazil compared to the last five years.

Growing Wind Generation⁴



¹ <https://www.whitehouse.gov/wp-content/uploads/2022/12/Inflation-Reduction-Act-Guidebook.pdf>

² <https://www.whitehouse.gov/briefing-room/statements-releases/2021/08/02/updated-fact-sheet-bipartisan-infrastructure-investment-and-jobs-act/>

³ https://iea.blob.core.windows.net/assets/96d66a8b-d502-476b-ba94-54ffda84cf72/Renewables_2023.pdf

⁴ According to the 2023 Annual Energy Outlook from the U.S. Energy Information Administration

ULTRA3000® Case Study: New Product and Market Development



Customer Problem:

Wind turbine manufacturers and operators needed an environmentally friendly solution to extend the life of auxiliary power supplies for their Pitch Energy Modules

Richardson Electronics' Solutions:

Developed the first ultracapacitor-based plug-and-play replacement for batteries within wind turbine pitch systems



FY2021

FY2022

FY2023+

PRODUCT DEVELOPED

PRODUCT LAUNCHED

PRODUCT LINE AND MARKET EXPANSION

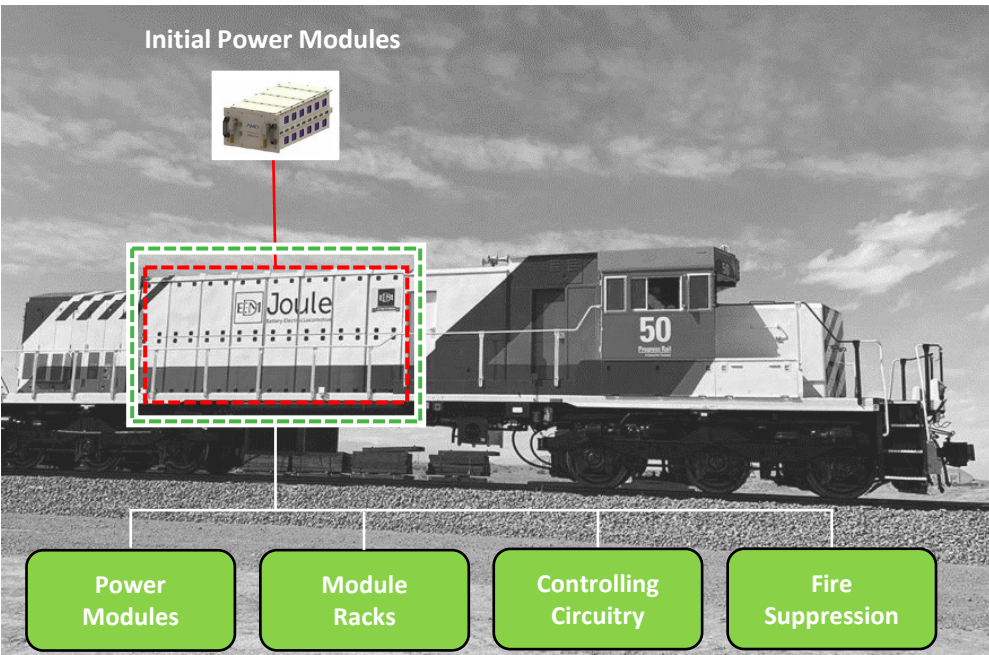
- Leveraged experience in ultracapacitor technologies
- Worked with technology partners
- Created specifically for replacement market within wind turbine generators (WTG)
- Patented product with 30+ protected embodiments

- Product from conception to > \$10 million in shipments and backorders in < 14 months
- Initial launch just for replacement product within existing GE WTG
- Over 40K modules shipped since product inception

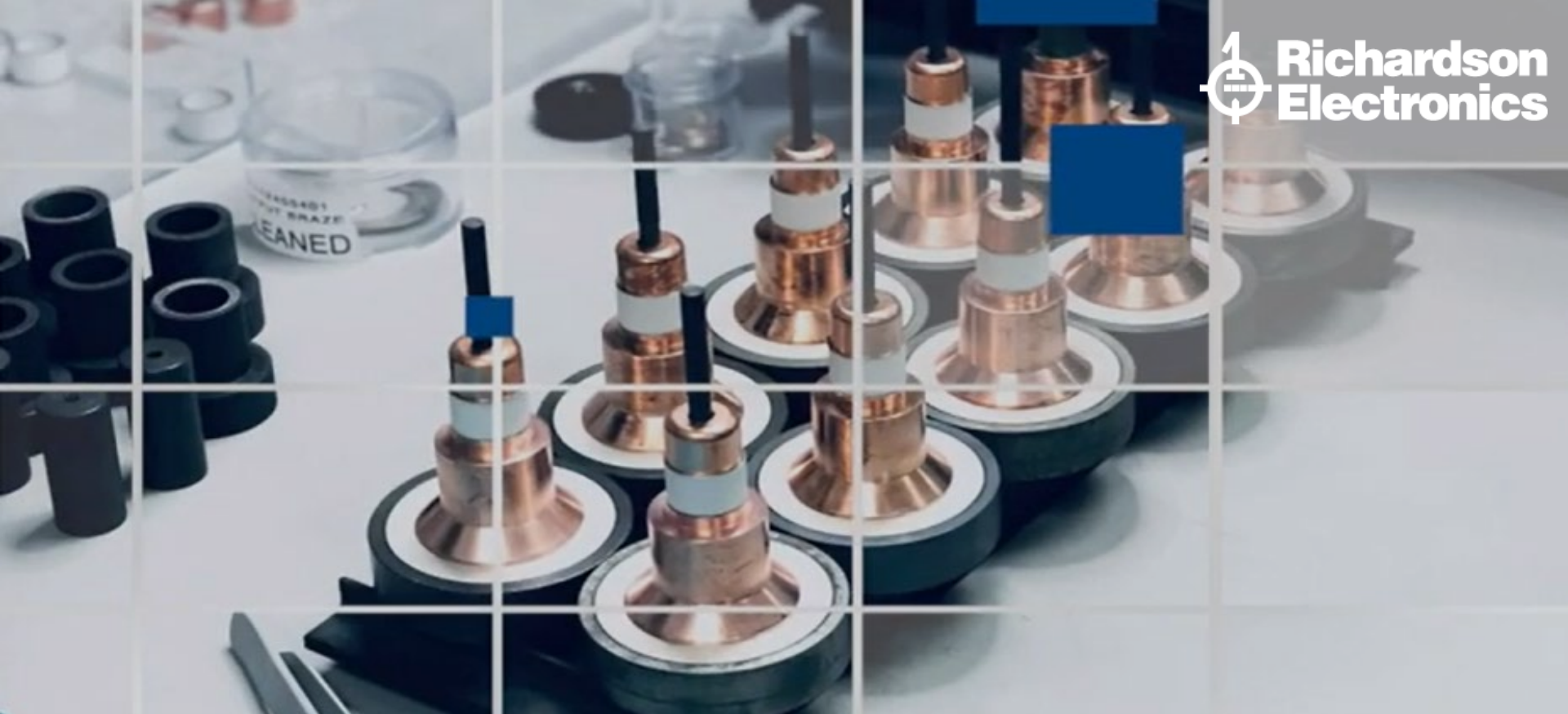
- Expanded market opportunity to serve multiple WTG manufacturers and operators
- Developed new ancillary products including the: UltraUPS3000, ULTRAPEM™ Multi-Brand Pitch Energy Module, and new Diagnostic and Voltage Reduction Tools
- IGBT/Silicon Carbide power modules

Progress Rail Case Study: Building Larger Customer Relationships

- 1 Relationship with Progress Rail begins, and Richardson Electronics starts supplying IGBT power module design to Progress Rail in Brazil
- 2 Richardson Electronics began working on a design development for battery management systems with Progress Rail Brazil
- 3 Richardson Electronics works with Progress Rail in the U.S. to offer Engineered Solutions beyond initial scope
- 4 Progress Rail selects Richardson Electronics to design and manufacturer superstructures for Progress Rail's Electric Locomotives in North America
- 5 Product line expansion including battery start modules for trains and other applications



**Relationship Expanded to Support Entire Superstructure
Content \$1.0 million - \$4.5 million per Train**



Business Unit Update

Green Energy Solutions (GES) Opportunity

High double-digit year-over-year revenue growth target

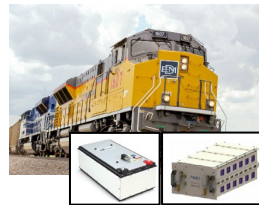
Targeted 30-40% average GES gross margin



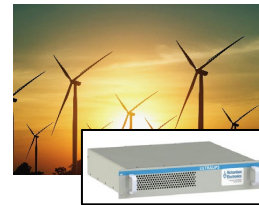
Pitch Energy Modules for Wind Turbines



Power Systems For Industrial, Materials and Chemical Markets



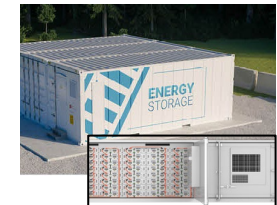
Power Modules For EV-Electric and Diesel Locomotives



Power Control Systems for Wind Turbines



Superstructures for EV-Electric Locomotives



Utility Scale Energy Storage Solutions

Applications In Production

Applications In Development

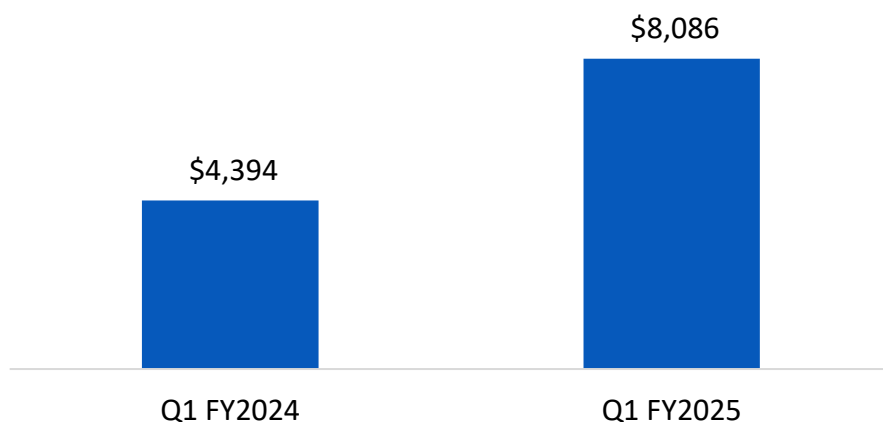
GES's strategy is to provide specialized technical expertise and engineered solutions using our core design engineering and manufacturing capabilities on a global basis

GES Q1 FY2025 Update

GES Highlights

- In Q1 FY2025, GES sales grew 84% year-over-year, driven by growth in numerous new products, programs, and customers
- Customer pipeline and opportunities continue to increase as the Company capitalizes on significant energy transformation projects
- Improved sales expected in FY2025 driven by:
 - Growing opportunities with new customers, products, and geographies for the wind turbine industry
 - New EV applications, power management, and energy storage
 - Growing partnership with Progress Rail, a Caterpillar Company, for production of lithium iron phosphate batteries for use in electric locomotives

GES Sales (\$ in 000s)



Power & Microwave Technology (PMT) Opportunity



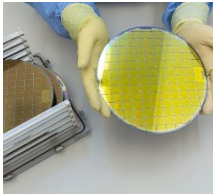
The leading provider of power and microwave components and related consumable parts

- **Electron Device Group (EDG)** which includes legacy tube business and semiconductor wafer fab; recurring revenue from sole-source consumable products
- **Power and Microwave Group (PMG)** which includes RF, wireless semiconductors, modules and power components
- Global provider of Engineered Solutions focusing on industrial tube manufacturing, microwave generators, power supplies and customer specific applications and assemblies
- Highly specialized in demand creation for new technologies
- We partner with manufacturers of leading edge and disruptive technologies. These technologies drive the latest innovations for our customers.

Bringing key technologies and solutions to the world for power, microwave niche applications



Power Management



Semiconductor



Defense



RF and Wireless Communications



Marine



Avionics



Scientific & Medical



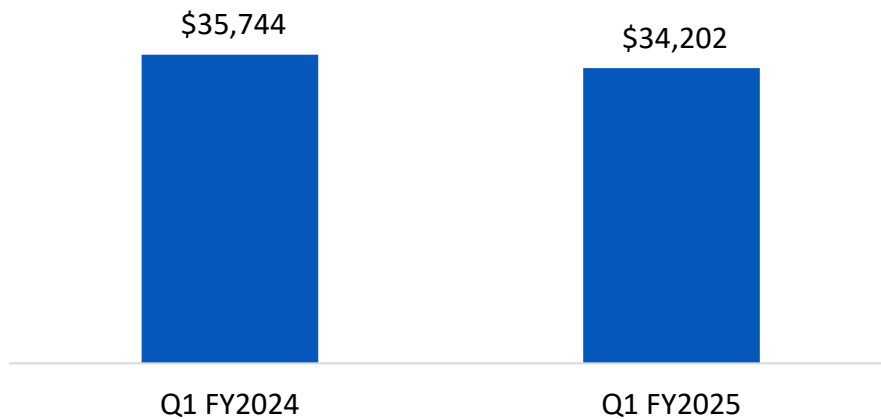
Industrial

PMT Q1 FY2025 Update

PMT Highlights

- Q1 FY2025 sales declined 4.3% compared to the prior year due to product mix, a nonrepeating order from the U.S. government, and a 13-week quarter versus 14 weeks in Q1 FY2024.
- Experienced growth in RF and microwave components business, as well as the semiconductor wafer fab equipment business
- Positive outlook in the Semi-Fab market with key customers forecasting growth in FY2025
- Continuing to expand product lines and leverage the Company's global customer base of over 20,000 customers

PMT Sales (\$ in 000s)



Richardson Healthcare provides OEM quality replacement parts and training to support in-house clinical engineering and third-party equipment maintenance companies.



Richardson Healthcare’s CT Tube Programs provide exact form and function replacements for popular OEM CT scanners helping reduce healthcare costs by offering an alternative to higher cost OEM parts.



The Company has invested over \$35 million in its Healthcare SBU, creating a best-in-class, value-added CT Tube and CT refurbishment platform.



Richardson Healthcare first launched the ALTA750D in May 2018, followed by the ALTA750G in 2022, and expects to launch a Siemens repaired CT Tube Program in 2023.

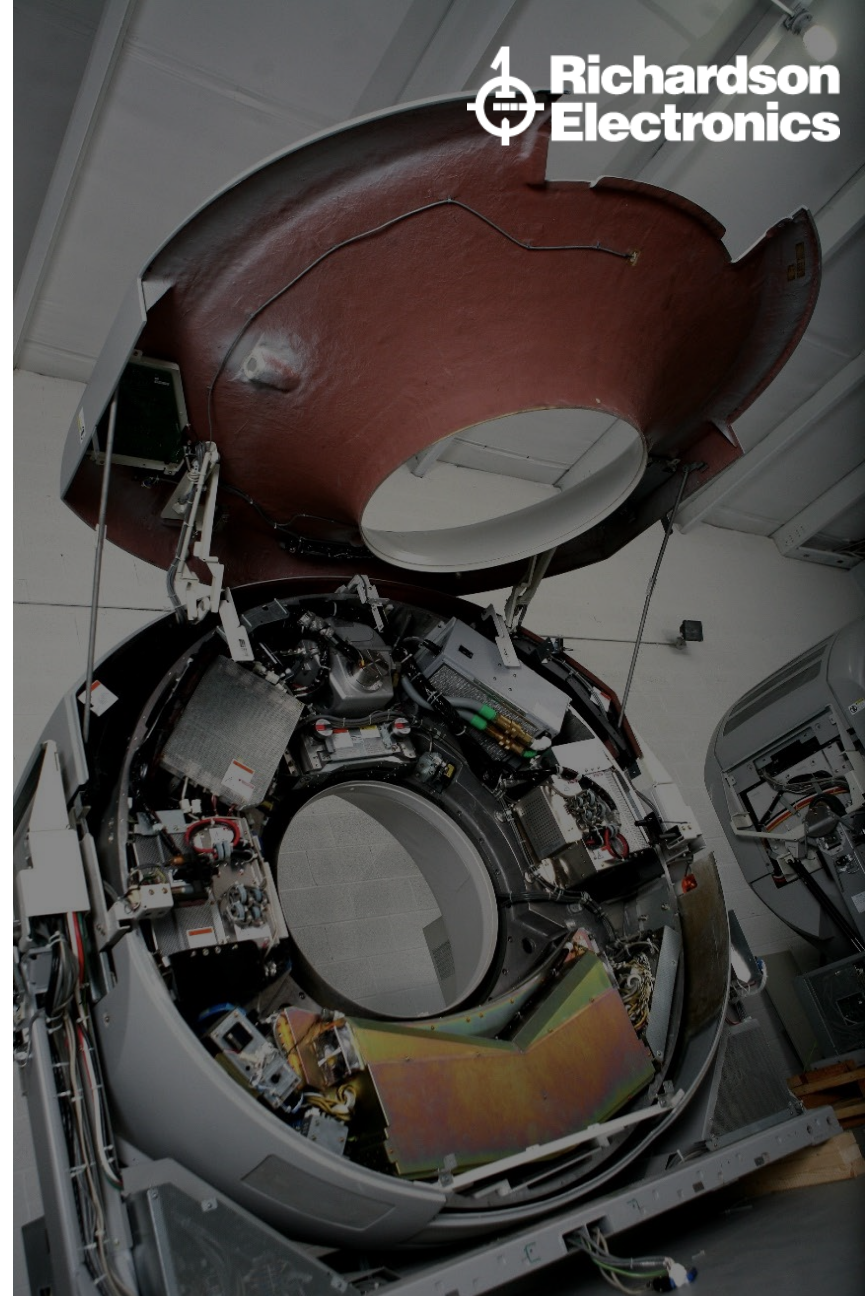
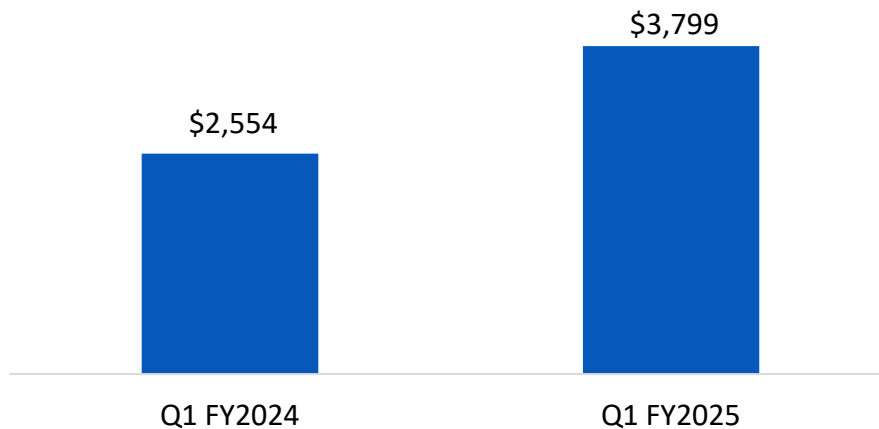
\$10 billion estimated global opportunity for aftermarket diagnostic imaging parts and service

Healthcare Q1 FY2025 Update

Healthcare Highlights

- Q1 FY2025 sales increased 48.7% compared to the same quarter last year.
- All healthcare product lines showed growth over the prior year's first quarter, primarily driven by the repaired Siemens Straton Z tubes and the Company's proprietary ALTA tubes.
- Gross margin for the quarter improved to 32.4%, up from 31.6% in the same period last year, primarily driven by a favorable product mix, which included higher-margin parts sales and lower scrap charges.
- Management continues to closely monitor Healthcare's financial performance and consider strategic alternatives.

Healthcare Sales (\$ in 000s)



Canvys is a global value-added integrator and manufacturer that specializes in creating comprehensive visual technology solutions for OEMs.



Canvys is focused on providing small run, smart displays for specialized applications - often for demanding environments.



Canvys brings together a deep understanding of visual technologies, wide-ranging capabilities and a worldwide network to create complete solutions for OEM customers.



Expertise manufacturing display sizes from 5" to 58", with custom enclosures, touchscreen integration, and all-in-one computer solutions.

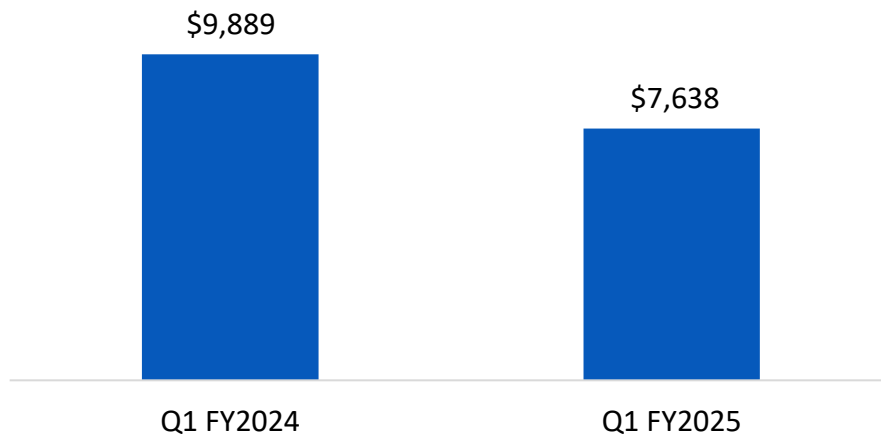
2,000+ global blue-chip customers rely on Canvys to supply leading display solutions for their unique needs

Canvys Q1 FY2025 Update

Canvys Highlights

- Net sales decreased 22.8% year-over-year in the first quarter of FY2025 due to lower demand in both North American and European markets.
- Management remains optimistic that customer demand will see an upturn by early next calendar year
- Many new programs are underway, and demand is expected to improve in the back half of FY2025
- Gross margin increased to 34.3% during the first quarter of FY2025 from 34.0% for the prior year period primarily due to improved product mix

Canvys Sales (\$ in 000s)

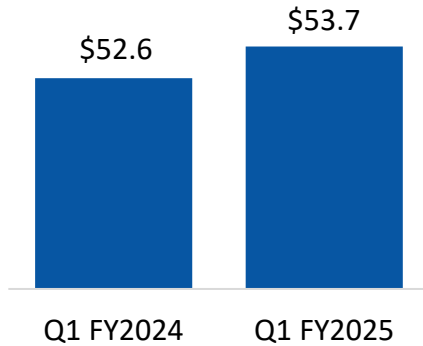




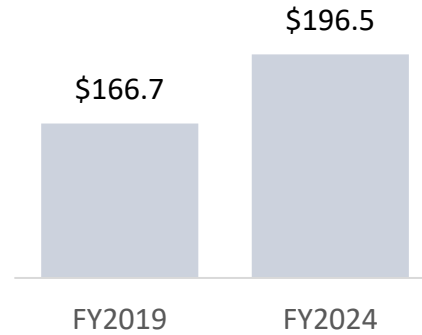
Financials

Q1 FY2025 Financial Highlights

Net Sales (\$ in millions)

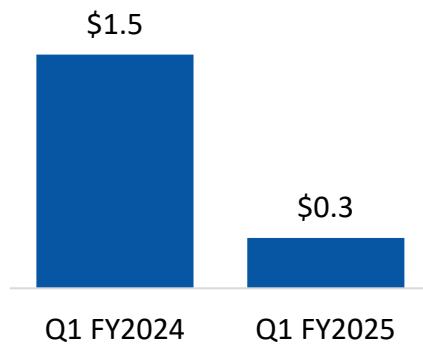


5-Year Growth CAGR Growth: 3.3%

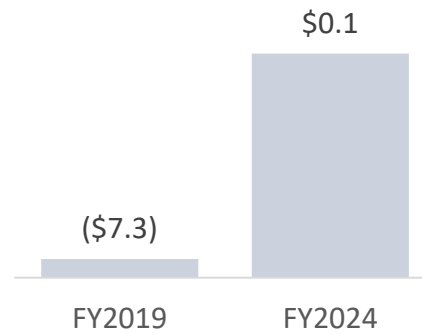


- Strong start to the fiscal year, with net sales exceeding both internal projections and exceeding performance from the fiscal 2024 first quarter.
- Sales expanded in the Green Energy and Healthcare business units, reflecting the continued success of the Company's long-term growth strategies.

Net Income from Continuing Operations (\$ in millions)



5-Year Growth CAGR Growth: n/a



- Q1 FY2025 gross margin was negatively impacted by under absorption. The Company expects gross margin to improve in the second half of FY2025.
- The Company is focused on improving gross margins, reducing inventory levels, strengthening the balance sheet, and investing in long-term strategic growth opportunities

Q1 FY2025 Balance Sheet and Cash Flow

- Strong balance sheet with no debt, and \$23.0 million in cash and cash equivalents
- No borrowings outstanding under \$30.0 million revolving line of credit
- Generated positive operating cashflow for the second consecutive quarter
- Allocated \$0.9 million of capital in Q1 FY2025 to support the Company's regular cash dividend
- The Company continues to invest in working capital to support its growth initiatives
- Capital expenditures were \$0.9 million in Q1 FY2025 primarily related to the Company's facilities and IT systems

(\$s in 000s)	August 31, 2024	June 1, 2024
Cash and Cash Equivalents	\$23,035	\$24,263
Accounts Receivable	\$30,862	\$24,845
Inventories, net	\$110,994	\$110,149
Total Assets	\$197,863	\$192,445
Total Debt	\$0	\$0
Total Liabilities	\$38,799	\$34,493
Shareholders' Equity	\$159,064	\$157,952

Capital Allocation

Debt free balance sheet allows for strategic deployment of capital

Capital Allocation Strategies

Focused on Supporting Long-Term Growth Opportunities

Investing in Infrastructure and IT Systems

- Invested \$4.8 million in facility renovations in fiscal 2023 and 2024 to support the growing demand for Green Energy Solutions (GES) products
- Continual enhancements of IT infrastructure to support global opportunities

Organic Growth Initiatives

- Since 2021, Richardson Electronics has invested over \$16 million in research & development, onboarding talented engineers, and enhancing its sales teams

Sustained Dividend

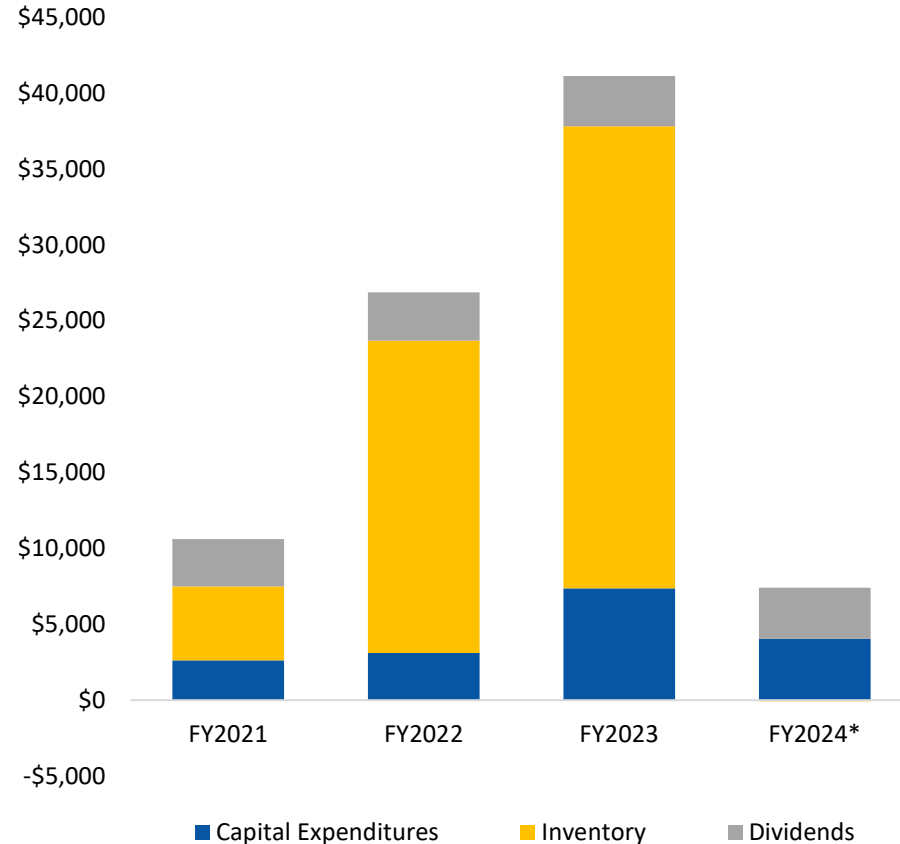
- The Company has paid out a regular quarterly cash dividend to common shareholders since 1990

Cash Flow Management

- Maintaining a healthy level on cash on the balance sheet
- Approximately 73% of cash on Richardson's balance sheet is spread out across 20 of the company's foreign subsidiaries
- Focused on converting inventory to cash in FY2025

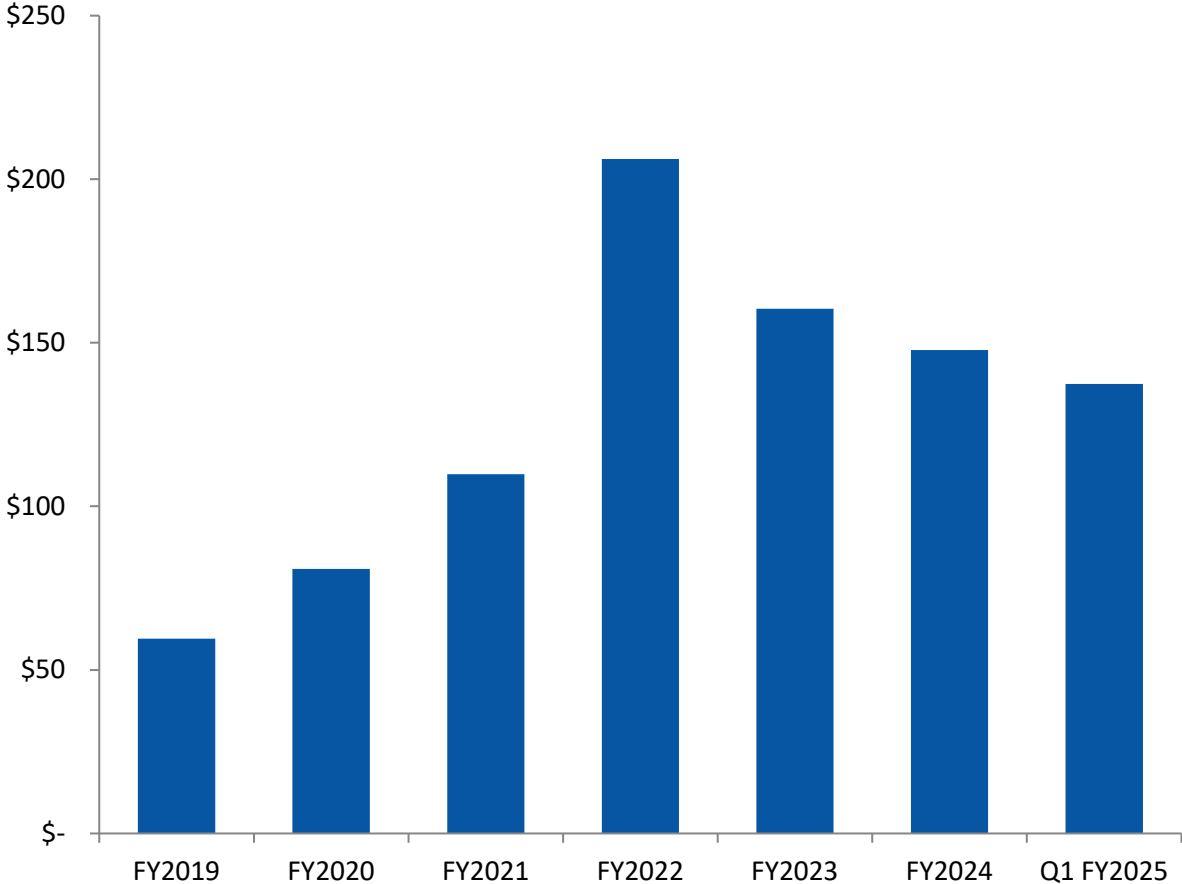
Capital Allocation Priorities

\$ in thousands



*FY2024 includes a \$0.1 million reduction in inventory

Total Company Backlog
(\$ in millions)



- Total backlog at the end of Q1 FY2025 was \$137.4 million versus \$147.8 million at the end of Q4 FY2024, and \$59.5 million in FY2019.
- Combined GES and PMT backlog of \$97 million at August 31, 2024
- Growing backlog for semiconductor wafer fabrication assemblies being driven by rising semiconductor demand associated with AI and the need for more data centers, 5G deployment and other factors including ongoing efforts to localize semiconductor manufacturing
- Growth in the semiconductor wafer fab equipment market expected to continue over the next several years

- We remain optimistic about our growth opportunities, based on customer demand for recently launched products, new technology partners, semiconductor wafer fab recovery and new engineered solutions
- We continue to gain market share with new customers, exclusive supplier agreements, new products and our growing list of patents
- Much of GES' business is project-based and timing is not always easy to predict
- There are certain macro and timing related variables that make it difficult to forecast, but we expect our long-term growth strategies to produce sustainable annual growth
- Near-term strategies are focused on improving gross margin, controlling expenses, managing inventory, and conserving cash, while continuing to support long-term growth opportunities
- Long-term strategy focused on diversifying sales to high-growth, higher-margin opportunities
 - Growing diversity of sales will help offset the impacts of challenging semiconductor wafer fab market
 - Significant opportunities associated with demand for our GES solutions to deliver sustainable annual sales growth
- It's not a matter of IF, but WHEN!



Appendix

Detailed Company Overview

Strategic Business Unit Overview: GES

- Newest strategic business unit formed because of our exceptional growth in demand for green energy applications (sales previously including in PMT segment)
- Green solutions is key to our long-term growth strategy
- Rapidly expanding line of energy storage products for various green energy applications, and we plan to announce several new product launches in the second half of FY2024
- Capitalizing on emerging markets trends through the combination of key technology partners and our engineered solutions capabilities, while leveraging our existing global infrastructure

Applications & Markets

- Wind
- Solar
- Power Management
- Synthetic diamond
- Electric Vehicles
- Hydrogen
- Battery Chargers for EV and Industrial

Select Customers



Product and Services Highlights

Ultracapacitor Pitch Energy Modules for Wind Turbines



Battery Modules and Superstructure for EV Locomotives



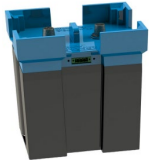
UltraUPS for Industrial and IT Applications



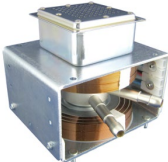
Hybrid Starter Modules for Locomotives



UltraGen 3000 for Remote Monitoring Capabilities



YJ1600 for Synthetic Diamond Industry



Strategic Business Unit Overview: PMT

- The leading distributor of power grid and microwave tubes and related consumable parts (EDG Group)
- Power and Microwave Group (PMG) brings key semiconductor active and passive technologies for RF, wireless, and microwave niche applications
- Partnering with manufacturers of leading edge and disruptive technologies to drive the latest innovations for customers
- Organic growth focused on product line expansion, leveraging 20,000+ global customer relationships, and manufacturing growing resources and capabilities
- Additional growth opportunities supported by partnerships and potential acquisitions

Applications

- SATCOM
- CO2 laser cutting
- Diagnostic imaging
- Dielectric/induction heating
- High energy transfer
- High voltage switching
- Plasma
- Power conversion
- Radar
- Microwave

Markets

- 5G
- Aviation
- Broadcast
- Communications
- Industrial
- Marine
- Medical
- Military
- Semiconductor

Product and Services Highlights

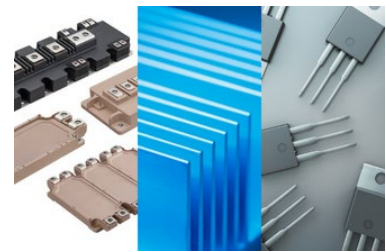
EDG Products



RF & Microwave Products



Power Management Products



Strategic Business Unit Overview: Healthcare

- Richardson Healthcare helps lower the cost of healthcare delivery with high value parts, upgrades and training solutions for hospitals and third-party service providers
- Healthcare manufactures, repairs, refurbishes and distributes high value replacement parts and equipment for the healthcare market
- Customers include hospitals, medical centers, asset management companies, independent service organizations and multi-vendor service providers

Supported Brands

- Canon (Toshiba)
- Siemens
- Hologic
- Richardson Healthcare
- GE
- Philips

Select Customers



Product and Services Highlights

CT Tubes



Parts



Refurbished CT Systems



Training and Service



Strategic Business Unit Overview: Canvys

- Canvys develops custom display and All-In-One computer solutions for Original Equipment Manufacturers (OEMs). We evaluate each customer's unique needs and craft the right solution
- Key capabilities supported by local collaborative approach with customers, compliance with medical device regulation, and global logistics capabilities
- ISO certification provides products that comply with the most demanding quality standards throughout the entire delivery process
- Manufacturing fully customized displays that pair revolutionary technologies with solutions for individual customer needs

Applications

- Air Traffic Control
- Broadcast
- Dental Care Units
- Endoscopy Systems
- Food Industry
- Manufacturing
- Medical Navigation
- Ophthalmology
- Robotics
- Transportation
- Vending Machines / Kiosks

Select Customers

We sell to 7 of the top 10 medical device companies worldwide.

Product Highlights

5" to 58" Custom Displays



All-in-One Computer Solutions

