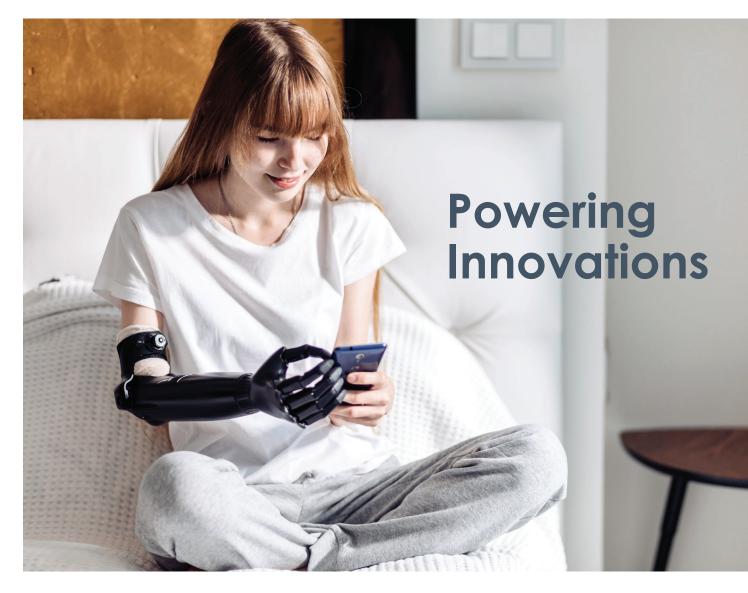


Custom-Engineered Battery Pack Manufacturing





Custom-Engineered Battery Technology You Can Trust

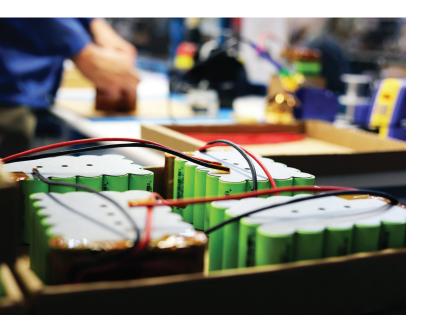
Founded in 1985 and headquartered in Pilot Mountain, North Carolina, PTI is a proven leading-edge battery manufacturer, delivering comprehensive energy storage solutions for performance and life-critical applications.

From concept through production, our proven team is committed to ensuring that reliable power is always available for every invention, by leaning on the most ideal technology and innovative processes. Whatever the mission critical application, PTI is backed by decades of expertise in creating power solutions for medical applications, aerospace, robotics, instrumentation, handheld communications, tools, electronics, and beyond.

Engineered in the USA

Domestic manufacturing not only supports our national economy and work force, but offers our clients a higher level of quality control, accessibility, flexibility, seamless collaboration and exceptional speed to market. Every effort is taken to maximize value for our clients and meet their performance goals, even for more challenging niche-market innovations. When results, reliability and safety are non-negotiable, the PTI team delivers.





We Stand Behind Our Work for Life.

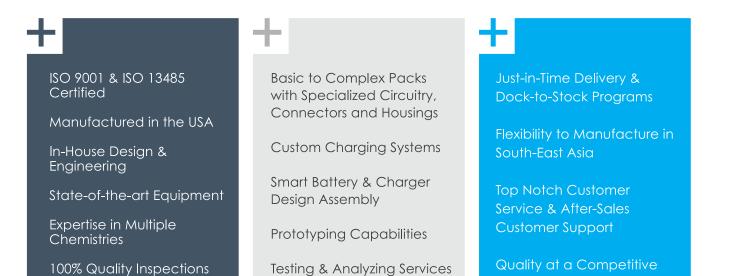
At PTI, our clients get a 100% lifetime warranty for workmanship because of our deep commitment to delivering the best-in-class and most reliable energy storage solutions.

Our state-of-the-art manufacturing processes and industry-leading supply chain enable us to guarantee quality integrity throughout our processes, and deliver premium energy storage solutions that our clients can count on.



As an ISO 9001 and ISO 13485 certified facility, our quality integrity is upheld in every step of the process, from design, manufacturing, delivery to after sales support.

Don't take our word for it. Take our track record of almost four decades and ask our loyal clients.





Cell-Agnostic with Intrinsically-safe Technologies:

- A123
- Arts Energy
- Duracell
- Energizer
- FDK
- GP Batteries
- K2
- LG Chem
- Moli Energy
- Panasonic
- Saft
- Samsung
- Tadiran
- Varta



Price



Applications

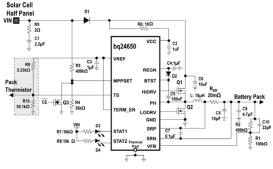
At PTI, we design and develop battery packs for a multitude of markets including but not limited to OEM, medical, robotics, hobby, government/military, security and telecommunications. Where there is an energy storage need, the PTI team is ready to take on each unique challenge to bring every innovation to life. We are the battery solutions people.



PTI Design

3 ProTechnologies.com

- Safety & Reliability
- Highest Energy Density
- Smallest Physical Size
- Lowest Weight
- Appropriate Charge Solution
- Long Life Cycle
- Acceptable Cost



Chemistries

As a full service battery pack manufacturer, PTI has extensive knowledge in various battery chemistries including alkaline, lithium, lithium-ion, lithium polymer, lithium iron phosphate, nickel cadmium, nickel metal hydride and sealed lead-acid batteries. Our relationships with top-tier manufacturers provide the flexibility to effectively meet each client's performance, cost and safety requirements.



Primary Non-Rechargeable Batteries

For applications with standby power requirements such as defibrillators, flashlights, asset tracking and radios.

Secondary Rechargeable Batteries

For applications in consumer & industrial markets such as starting, ignition, medical equipment, emergency/backup power, telecommunications, and portable tools/equipment.

- Lithium Manganese Dioxide
- Lithium Thionyl Chloride
- Lithium Poly-Carbonmonofluoride
- Lithium Sulfur Dioxide
- Alkaline
- Silver Oxide

- Lithium-Ion
- Lithium-Iron Phosphate
- Nickel Metal Hydride
- Nickel Cadmium
- Lithium Polymer
- Sealed Lead-Acid



Design & Engineering

As an industry leader with almost four decades under our belt, we keep our clients informed with the latest and greatest in battery pack technology. Our engineering team is dedicated to providing workable solutions for each of our clients and their unique product challenges.

At PTI, we are partners and collaborators throughout the concept, design and development process, to ensure optimal design and manufacturability. Our skilled team will work with you from conception to final production. We are your trusted partner and are committed to you every step of the way.

At PTI, our job is to help ensure the success of your products.

BMS Design & Prototyping

PTI leads the way in custom in-house design and prototyping of battery management systems to meet each clients' project requirements and timeline.

Mechanical Design & Prototyping

Our engineering team specializes in all mechanical aspects of custom battery pack and charger design with rapid prototyping capabilities.

Design for Manufacturability (DFM)

Offering world-class technical expertise in custom battery design and manufacturing, we excel at thinking outside the box to optimize DFM and squeeze out the greatest efficiencies while meeting performance and safety metrics.



Tailored Engineered Solutions

- Battery Pack Design
- Battery Management Systems (BMS)
- Fuel Gauging (SMBUS)
- Charger Solutions
- Battery Pack Enclosures
- DFM Review



When it comes to energy storage solutions, we are the design and engineering arm that clients lean on to bring their innovations to life. As a collaborative partner, we help identify comprehensive energy solutions from concept to production, delivering the best-in-class battery pack and charging options to meet each client's specific performance requirements and project parameters.



Battery Pack Design and Production

Custom Charger Design and Assembly

Custom Cable Assemblies

Electro Mechanical Assemblies

Inventory Management Systems

In-House Engineering Services

Contract Manufacturing

Site Engineering Services

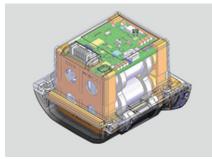
CAD Drawing Capabilities





Custom Medical Assemblies

As a leading provider of battery solutions in the medical industry, we are certified to ISO13485 and committed to achieving superior, measurable results through continuous improvement. The PTI team's expertise has supported many performance critical devices including defibrillators, patient monitoring and diagnotic devices, robotics, catheter cleaning equipment and complex life-critical medical equipment.



Design & Engineering

We are a specialized and full service manufacturer of custom energy storage solutions providing clients with extensive and innovative design & engineering capabilities. Our technical design capabilities include circuit board design & prototyping, smart circuitry/ integration/charge control, rapid prototyping, 3D printing & PCBAs. We look forward to every design challenge.



Testing/ Analyzing

We offer rigorous battery testing, programming, analyzing and cycling services, customized to meet each client's requirements.





At PTI, we specialize in the design and manufacture of custom battery pack solutions for original equipment manufacturers ("OEM") across a spectrum of industries. Designs are developed and engineered for optimum manufacturing and performance, with emphasis on creating value for our clients. Our clients can count on our proven expertise and industry leading life-time warranty on workmanship.



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