Technology is changing the way the world works. Complex electromechanical systems solve the manufacturing problems of yesterday, while engineers work diligently to innovate for the future.

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As a result, we secure your current electronic and electromechanical systems, thereby ensuring your future.
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We are vertically integrated to provide our customers with seamless development of electronics based solutions—from inception to manufacturing through the product life cycle and beyond.

Our Complex Systems unit has a diverse and highly skilled group of engineers that focus on maximizing efficiency and cost containment at various steps in the design, engineering, and manufacturing process. These Box Build specialists act as an intelligent source and ideal partner for development firms and OEMs and are a trusted source and supplier for low to medium volume/high complexity systems.

Our engineering services, led by our rapid prototyping and pilot build process, offer our customers a high quality product that can quickly be placed into their channels of distribution. Once a product has been proven viable, we offer domestic and low cost country manufacturing and distribution solutions.

Discover clearly superior expertise.

Our customers design some of the most technically advanced products in the world, and they demand the same high level of expertise from us.

At Sparton, no matter what area of an industry your device is designed for, we have the expertise to bring it to life. Moreover, we specialize in developing the “brains” of a device...a highly complex task that is perfect for companies to outsource.

With facilities located throughout the United States, Sparton offers the flexibility of local support and manufacturing expertise for small to mid-size production volume. Plus, our facility in Vietnam—the first of its kind in that country to receive an ISO 9001:2000, AS9100:2004 certification—provides the manufacturing power and cost savings potential for high volume products as well.

Sparton Complex Systems is a one-stop supplier for the designing, engineering and manufacturing of complex electronics, electromechanical products and sub-assemblies.

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Complete System Design From Scope of Work Through Production Release

We offer our customers an extremely efficient global network, including six strategically located facilities focused on meeting our customers’ needs. This network also provides our customers with the flexibility they need to respond quickly to changes in end-market demand.

One of the first services of its kind, Sparton Express provides the means for manufacturing and testing multiple aspects of your existing or newly designed electronic assemblies prior to full production. We’re compatible with Proof-of-Concept (PoC) prototypes, where product design is still evolving, and Ready-to-Ship (RTS) prototypes, where final testing or certifications are required and products need to be ready to ship for you and your clients to launch their products quickly and have them ready for production release.

For 111 years, the Sparton Corporation has partnered with businesses large and small to develop new ideas. From our first steel parts forged in 1900 to today’s sophisticated electronic and electromechanical products, we’ve maintained a leadership role in the industry, providing end-to-end expertise for markets as diverse as medical, defense and security, navigation and exploration, aerospace, gaming, and more.

Complete Turnkey Product Build
Quality Systems
Supply Chain & Logistics Support
Engineering Services
Accuracy, Repeatability & System Testing
Mechanical Motion
Robust Handling Systems
Thermally Controlled Systems
Lasers/Optics
Embedded Systems
Electronic/Module/Panel Design
DFX Analysis & Obsolescence Management
User Interface Development
Systems Engineering
Circuit Card Assembly
Test Fixture Design/Qualification
CQI, GMP, MDD, FDA & FDA Compliant

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CORE COMPETENCIES

- Complete Turnkey Product Build
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- Supply Chain & Logistics Support
- Engineering Services
- Accuracy, Repetitability & System Testing
- Mechanical Motion
- Robust Handling Systems
- Thermally Controlled Systems
- Lasers/Optics
- Embedded Systems
- Electronic Module/Board Design
- DfX Analysis & Obsolescence Management
- User Interface Development
- Systems Engineering
- Circuit Board Assembly
- Test Fixture Design/Qualification
- QSP, CQMP, MDD, CSA & PDA Compliant

SPARTON EXPRESS

One of the first services of its kind, Sparton Express provides the means for manufacturing and testing mid-volume, short-run prototypes of complex electronics assemblies prior to full production. We’re compatible with Proof-of-Concept (PoC) prototypes, where product design is still evolving, and Ready-to-Produce (RTP) prototypes, where final testing or certifications need to be completed. It provides a safe solution for you and your clients before absorbing the costs of a production release.

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One of the first services of its kind, Sparton Express provides the means for manufacturing and testing multiple aspects of your existing or newly designed electronic assemblies prior to full production. We’re compatible with both Proof-of-Concept (PoC) prototypes, where product design is still evolving, and Production-Ready (PR) prototypes, where final testing or certifications are the last step prior to product launch. It provides a safe solution for you and your clients before absorbing the costs of a production release.

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