

INOWORX™

Motion Control Platform

Easiest
Motion Control
Solution
on the Planet



An Insight Automation Company

Revolutionizing Motion Control for Modern Engineers

At Cardinal Kinetic, we believe motion control should empower innovation—not complicate it. That’s why we developed the **InoWorx™ Motion Control Platform**, a game-changing solution for controlling brushless servo motors with precision and ease. Designed for engineers and non-engineers alike, InoWorx eliminates the steep learning curve, complex integrations, and excessive costs of traditional motion control systems.

With its intuitive interface, robust hardware, and ability to adapt to flexible applications, InoWorx makes motion control accessible, reliable, and efficient for today’s fast-paced industrial landscape.

Applications Across Industries

The adaptability of the InoWorx platform makes it an ideal solution for a wide range of industries. Whether your goal is automating production lines or enhancing robotic systems, InoWorx delivers unmatched performance tailored to your needs.

Common applications include:

- Industrial Automation
- Robotics
- Packaging Systems
- Materials Handling
- General Manufacturing
- Retrofitting Obsolete Control Systems
- Educational and Industrial R&D Test Fixtures



From improving efficiency in high-speed manufacturing environments to improving speed and precision in industrial sewing/textile applications, InoWorx ensures consistent results every time. Its compact design and powerful capabilities allow seamless integration into existing systems or serve as the foundation for new automation projects.



What is InoWorx™?

The Integrated, Simple Solution for Motion Control.

The InoWorx Motion Control Platform combines hardware and software into one seamless system, making it the easiest way to create precision motion where and when you need it. Unlike traditional systems that require multiple components and complex programming, InoWorx simplifies the process by integrating everything into a single environment.

APPROACHABLE DESIGN

- **Simplified Setup and Operation:** InoWorx eliminates the need for standalone control panels, PLCs, and costly software licenses. Its plug-and-play design ensures quick installation and minimal downtime.
- **Intuitive User Interface:** The platform's interface is crafted for ease of use, enabling users to navigate and operate the system without extensive training.

POWERFUL PERFORMANCE

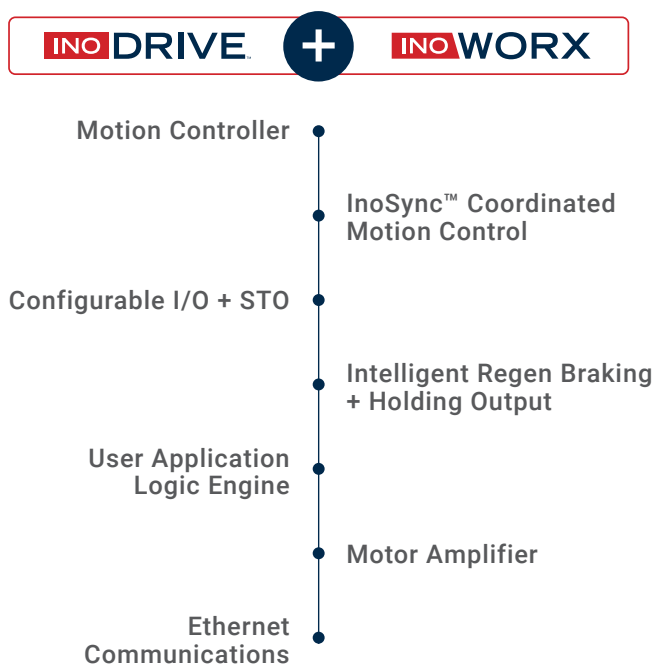
- **High-Performance Motor Control:** Effortlessly controls servomotors up to 400 watts (1kW peak), delivering smooth and precise motion suitable for demanding applications.

INTEGRATED SOLUTION

- **All-in-One Hardware:** Combines the functionalities of a servo amplifier, motion controller, and logic engine into a single, compact unit, reducing hardware complexity and saving space.

SCALABILITY AND FLEXIBILITY

- **Modular Architecture:** Easily expand your system by adding more InoDrive modules without significant reconfiguration. InoSync™ technology seamlessly synchronizes multiple InoDrives for applications where coordinated motion is needed.
- **Versatile Applications:** Works seamlessly across industries and applications such as manufacturing, automation, processing, and materials handling.



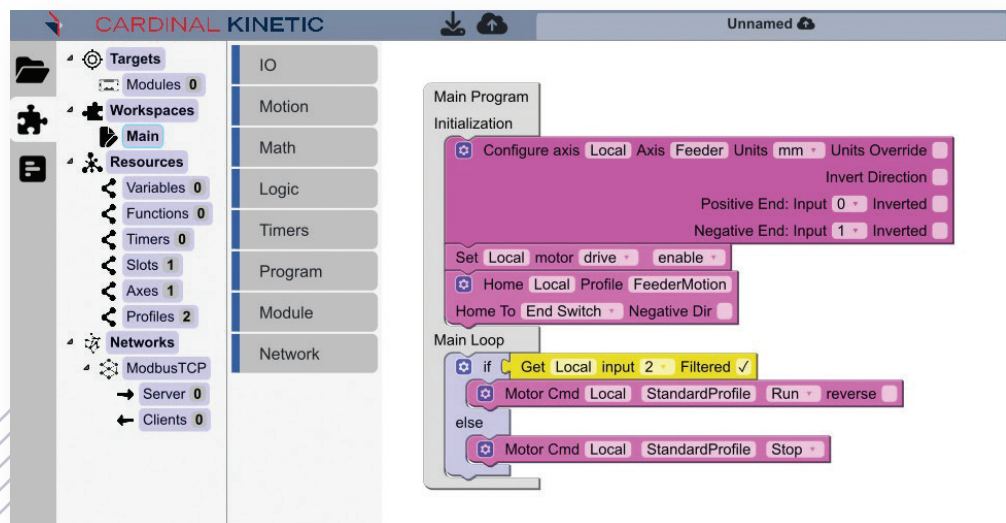
InoWorx Programmer™: Intuitive Programming for Simple Control

Simplify Motion Control — No Coding, No Complexity, Just Results.

Say goodbye to complex coding or ladder logic diagrams. The **InoWorx Programmer** revolutionizes how you configure and control your motion systems.

- **Code-Free Environment:** Utilize a visual, drag-and-drop interface to create motion sequences and automation workflows without writing a single line of code.
- **Real-Time Monitoring:** Graphically represent, test, and visualize your configurations before deploying them to the hardware.
- **Built-In Manual:** Always available context-driven interactive manual helps you find the topic you're looking for quickly and efficiently.

With its drag-and-drop interface, and user-friendly tools, you can configure servo motors and automation systems in record time. Whether you're automating a single axis or coordinating a multi-axis system, the InoWorx Programmer ensures seamless operation with minimal effort.



InoDrive™ Hardware

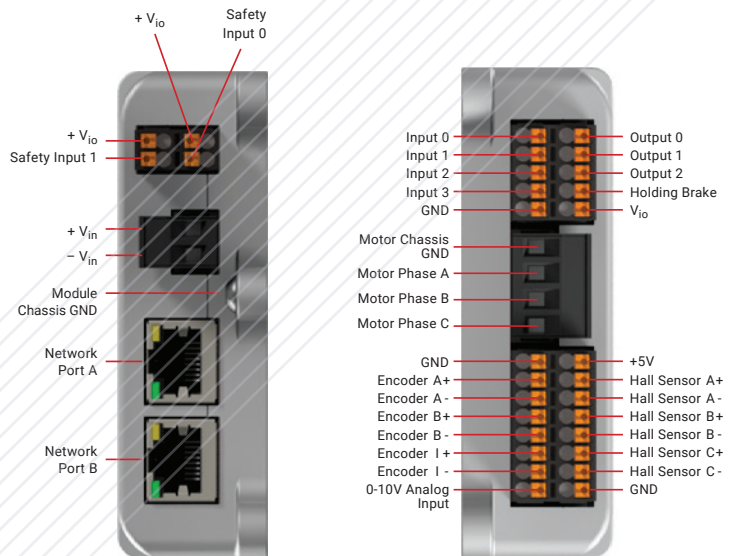
Compact. Powerful. Engineered for Excellence.

At the core of the InoWorx platform lies the **InoDrive** module - a robust, motion control unit engineered for excellence.

- **Compact and Robust Design:** InoDrive's sleek form factor conserves space while its industrial-grade construction ensures durability in harsh environments.
- **Integrated Capabilities:** Combines servo amplification, motion control, and logic processing into a single device, streamlining your hardware requirements.
- **High Compatibility:** Supports a wide range of brushless servo motors and integrates seamlessly with various sensors and peripherals.
- **Advanced Safety Features:** Includes dual channel STO, overcurrent protection, temperature monitoring, and fault diagnostics to safeguard your operations.

TECHNICAL SPECIFICATIONS:

- **Power Output:** Up to 400 watts
- **Communication Protocols:** Modbus TCP
- **Input Voltage Range:** 12V to 48V DC
- **Operating Temperature:** -20°C to +55°C



Optimize Your InoWorx Motion Control System with Certified Accessories

- DC Power Supplies
- Motors
- Gearboxes
- I/O Accessories
- HMIs
- Brackets, cables, and cooling fans to complete your system



Why Choose InoWorx™?

Simplify Motion Control, Amplify Productivity

Traditional motion control systems are often expensive, complex, and difficult to implement. **InoWorx** breaks those barriers with a solution that's easy to understand, quick to deploy, cost-effective, and is based in the USA. Choosing InoWorx means investing in a solution that not only meets your current needs but also positions your business for future success.

BENEFITS OF INOWORX:

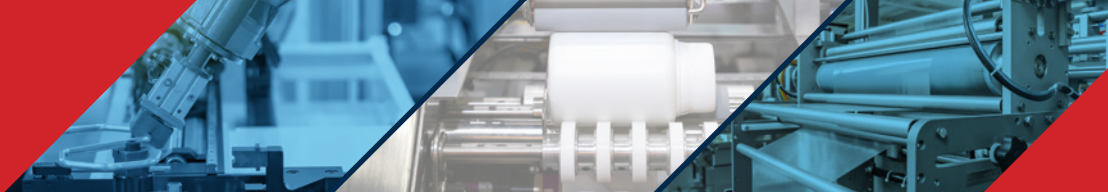
- **Simplified Implementation**
 - **Quick Deployment:** Reduce setup times with an out-of-the-box solution that's ready to integrate.
 - **User-Friendly:** Minimal training required due to the platform's intuitive design.
- **Cost-Effective Operation**
 - **Lower Total Cost of Ownership:** Eliminate the need for multiple devices and expensive software licenses.
- **Scalable and Future-Proof**
 - **Modular Expansion:** Easily add new units or upgrade existing ones as your operations grow.
 - **Software Updates:** As a cloud-based solution, your system is always up-to-date – automatically receiving the latest features without the need for manual updates
- **Reliable Support**
 - **Expert Assistance:** Our team of specialists is available to provide guidance and troubleshoot any issues.
 - **Comprehensive Resources:** Access to detailed manuals, tutorials, and online support forums.

Ready to Transform Your Operations?

Discover how InoWorx can drive innovation and efficiency in your business.

Contact us today at +1 859-908-0316
or email us at sales@cardinalkinetic.com.





Explore More with Cardinal Kinetic

Discover how our innovative solutions
can transform your operations.

Visit WWW.CARDINALKINETIC.COM
for more information.

MOTION CONTROL SIMPLIFIED™



Jim McNicholas
Director of Business Development

Direct: 859.787.3014
jmcnicholas@cardinalkinetic.com



About Cardinal Kinetic

At Cardinal Kinetic, we are dedicated to breaking down the barriers of traditional motion control. Our mission is to make advanced motion solutions accessible, efficient, and intuitive for businesses of all sizes.

With a focus on innovation and customer success, we strive to deliver products that meet and exceed industry standards. Our commitment to excellence drives us to improve and continually expand our offerings.

Contact Information:

2746 Circleport Dr. | Erlanger, KY 41018, USA

Phone: 859-980-0316

Email: sales@cardinalkinetic.com