

# Plant Services

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## Rockwell's Kinetix 5700 servo drive can help reduce cabinet-space requirements by up to 70%

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Machine builders that traditionally have used separate servo drives to meet high axis-count and power requirements for large custom machines can now consolidate to a single platform with the new Allen-Bradley Kinetix 5700 servo drive from Rockwell Automation.

The Kinetix 5700 servo drive offers dual-axis servos, a large 1.6 to 60 kilowatt power range, and time-saving tuning technology. Used in place of multiple servo drives, this next-generation platform can help machine builders reduce cabinet-space requirements by up to 70 percent, reduce wiring requirements by as much as 60 percent, and achieve easier configuration and commissioning.

The Kinetix 5700 servo drive uses Load Observer real-time tuning technology, which helps remove the need to tune each individual axis. This can help machine builders deliver high-performance motion control out of the box, and reduce commissioning time by days, weeks or even months for the largest machines.

Once a machine is operational, the Kinetix 5700 servo drive uses Tracking Notch Filter technology to detect and remove resonant frequencies, and automatically make tuning adjustments over time to help optimize machine performance. This can reduce the need for regular tuning maintenance and help prevent machine failures.

DSL feedback ports provide support for Kinetix VP servo motors with single-cable technology. This enables machine builders to package motor-power, brake and feedback wires all in a single cable, helping to reduce motion wiring requirements by as much as 60 percent.

The Kinetix 5700 servo drive also combines high-performance vector and servo motor control to help reduce machine complexity, and reduce time and labor costs during integration. Additionally, the Rockwell Software Studio 5000 Logix Designer software provides a single, easy-to-use design environment for configuring the Kinetix 5700 servo drive and integrating it with Logix controllers for both motion and safety applications.

From a safety standpoint, the Kinetix 5700 servo drive supports both hardwired safety and integrated safety over EtherNet/IP, in which safety data is transmitted using the same wires and IP addresses as motion and control data. Integrated safety can help reduce overall system wiring, save time and money during installation, and help remove potential points of failure. Integrated safety also makes safety zoning and configuration changes easier for end users by eliminating the need to physically re-wire devices.

**Category:** Equipment

**Product Type:** Motors, Drives,  
and Power

Transmission

Manufacturer: Rockwell Automation

## Company Information

**Rockwell Automation**>

Website: <http://www.rockwellautomation.com/>

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Rockwell's FactoryTalk VantagePoint software offers improved reporting functionalities

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Rockwell's Allen-Bradley Micro820 PLC features embedded Ethernet



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Enhanced resolution and widescreen options with PanelView Plus 7 standard operator interface from Rockwell Automation

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We don't have to tell you the maintenance/reliability industry is getting increasingly smart. Our sister site, [Smart Industry](#), focuses on the digital transformation of industry. Learn more below.

### **Multiscale modeling—a paradigm shift in the way we design everything**

Additive manufacturing is becoming more defined, and manufacturers, industry leaders, and even individual “makers” are exploring new and innovative uses for it.

### **Tech and the question of inevitability in manufacturing**

Many of us on the receiving end of a true technological breakthrough struggle to best leverage it for meaningful and competitive business gain.

### **A broader look at machine health**

Our near-term focus should be broader visibility of critical machine health through connectivity and reporting.

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