

Allen-Bradley Kinetix 5700 Servo Drive



Helping to Deliver an Innovative Motion Control System

The Kinetix® 5700 helps expand the value of integrated motion on EtherNet/IP to large custom machine builder applications.

With Logix as a single control engine, and one design environment – Studio 5000® – machine builders now have more flexibility to scale, design and control to help meet their needs. The Kinetix 5700 can help reduce commissioning time and improve machine performance. It offers the simplicity, power and space savings you need to help get your machine up and running faster.

The Kinetix 5700 is designed for machines with large axis counts with higher power requirements. It is available in single and dual axis servos with integrated and hardwired Safe Torque-Off.



Features and Benefits

- Features dual axis modules
- Provides a large 1.6 to 60kW power range
- Controls servo and induction motors
- Wide range of feedback types supported
- Includes dual ethernet ports to support linear and device level ring topologies
- Reduces wiring with single cable technology
- Tuning-less commissioning for most axes
- Delivers best-in-class power density that reduces cabinet space requirements
- Offers innovative snapfit bus system
- Capacitor modules help reduce energy consumption
- Extension modules provide installation flexibility

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Integrated Safety

The Kinetix 5700 servo drive with integrated safety on EtherNet/IP, eliminates the need to separately wire the drive for safety. It reduces overall system wiring, saves time and money in installation and helps remove potential points of failure, thus resulting in less down time and troubleshooting. Integrated safety provides the capability to change the safety zoning and configurations, without needing to physically rewire the devices. Other features:

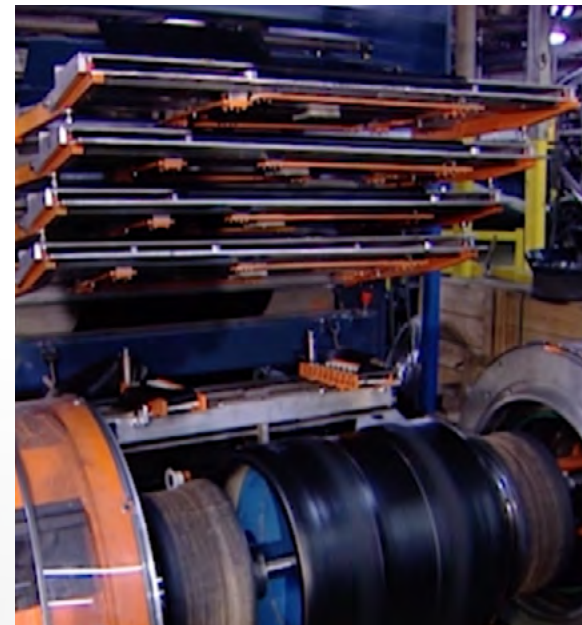
- Reduces Complexity with a single Network, EtherNet/IP for motion and safety functions
- Use EtherNet/IP to provide rich diagnostic data
- Simplifies zoning and reduces changeover time
- Network or hardwired safety - Safe Torque Off – SIL3 PLe

Advanced tuning

Traditionally, tuning the axis on a machine was a special art. Whether it was commissioning a machine or providing maintenance due to changing mechanics over time — tuning has been a time consuming job. The use of Load Observer real time tuning technology:

- Helps save time by eliminating the need for tuning each axis
- Automatically compensates for unknown mechanics, and compliance – such as in belts, flexible couplings, and shafts
- Automatically adjusts for applications where inertia varies during operation
- Enhances machine performance

The Kinetix 5700 can help reduce commissioning time and improve machine performance.



Kinetix 5700 Target Industries and Applications

The Kinetix 5700 servo drive is a solution for OEMs requiring large, high performance machines with ControlLogix® or CompactLogix™. It is the ideal choice for machine builders that have high axis count and higher power requirements. The Kinetix 5700 with integrated safety, provides added benefits to customers looking for an EtherNet/IP solution for safety. The Kinetix 5700 combines high performance servo and vector motor control, which helps reduce machine complexity and reduces time and labor costs for integration. The Kinetix 5700 helps address complex application needs in a wide variety of industries.

Target Industries:

- Beverage
- Consumer Products
- Food
- Automotive & Tire

Target Segment- Converting Print and Web Handling

- Diaper Machines
- Corrugated Paper Machines
- Wipe and Napkin Machines
- Flexo-folder-glue and Diecutters
- Narrow Web Press
- Tissue Converting
- Wire Rolling machines
- Bag Machines
- Slitter Rewinders
- Coating and Laminating Machines

Target Segment- Manufacturing and Assembly

- Tire Building machines
- Press Feeds
- Conveyors
- Material Handling
- Foundry Pouring Systems

Target Segment- Packaging

- Cartoning
- Pouching
- Tray Loaders
- Case Packing
- Product Distribution Systems
- Baking and Confectionery lines
and systems



Kinetix 5700 Power Supply Specifications

| Model | Input Voltage | Output Current | Peak Output Current | Module Width |
|-----------|---------------|----------------|---------------------|--------------|
| 2198-P031 | 325-528VAC | 10A | 31A | 55mm |
| 2198-P070 | 325-528VAC | 25A | 70A | 55mm |
| 2198-P141 | 325-528VAC | 47A | 141A | 85mm |
| 2198-P208 | 325-528VAC | 69A | 207A | 85mm |

Kinetix 5700 Servo Drive Specifications

| Model | Output Current (RMS) | Peak Output Current | Power Rating | Module Width |
|----------------|----------------------|---------------------|--------------|--------------|
| 2198-D006-ERS3 | 2x2.5A | 2x6A | 2x 1.6 kW | 55mm |
| 2198-D012-ERS3 | 2x5A | 2x12A | 2x 3.2kW | 55mm |
| 2198-D020-ERS3 | 2x8A | 2x20A | 2x 5.4 kW | 55mm |
| 2198-D032-ERS3 | 2x13A | 2x32A | 2x 8 kW | 55mm |
| 2198-D057-ERS3 | 2x23A | 2x57A | 2x 15 kW | 85mm |
| 2198-S086-ERS3 | 43A | 86A | 30 kW | 85mm |
| 2198-S130-ERS3 | 65A | 130A | 45 kW | 85mm |
| 2198-S160-ERS3 | 85A | 160A | 60 kW | 100mm |



The innovative snap fit bus system requires no tools and can help you to more easily assemble and install. The Kinetix 5700 also incorporates Load Observer real time tuning technology, yielding high performance control while eliminating the need to tune most axes, thus reducing your commissioning time. DSL Feedback ports support single cable technology and helps simplify wiring with Allen-Bradley® Kinetix VP motors.

For more information visit: <http://ab.rockwellautomation.com/>

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