

Yaskawa Introduces Kinematics Toolbox for MotionWorks® IEC Pro

Simplified Kinematics for General Purpose Motion Controllers

Waukegan, IL - The Drives & Motion Division of Yaskawa America, Inc. is pleased to introduce a new Kinematics Toolbox for use with its MotionWorks® IEC Controllers. The Kinematics Toolbox is an IEC61131-3 user library which can be imported into projects created with Yaskawa's MotionWorks® IEC Pro, Version 2 programming software. The IEC61131-3 programming environment provides a perfect means to make simple kinematic mechanisms easier to implement with standard general-purpose motion controllers.

Kinematic mechanisms are being increasingly used by today's mechanical engineers to replace more traditional Cartesian-based mechanisms on automated machinery. These newer approaches often result in mechanical arrangements that are lighter and take up less space than a standard X-Y or X-Y-Z gantry. In many cases, the servo motors remain in a fixed location eliminating the need for cable carriers and reducing the overall inertia of the system. As such, the mechanism can help improve the overall machine speed, accuracy and throughput while reducing cost.

The Yaskawa Kinematics Toolbox includes two PLCopen control function blocks, along with supporting functions, which provide control of a Delta-2 style and a Four-Bar style kinematic mechanism. An example program of each configuration can also be found on the Yaskawa website so that users can have a good starting point for their own application. It is anticipated that additional mechanisms will be supported in the future depending on user responses and needs.

Kinematics Toolbox files and informational materials may be downloaded from the Yaskawa Website at:

- [Sell Sheet](#)
- [Toolbox Files](#)
- [Delta 2 Robot Example Code](#)
- [Four Bar Robot Example Code](#)
- [Free 30-day trial version of MotionWorks IEC Pro Software](#)

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About Yaskawa

The Drives & Motion Division of Yaskawa America, Inc. manufactures industrial automation equipment. Its products include industrial AC drives; commercial HVAC drives; spindle drives and motors; servo amplifier systems and motion controllers; and low-voltage industrial control switches. The company's products are used in automotive, building automation, chemical and petrochemical, food and beverage, machine tool, material handling, metal forming, packaging, pharmaceutical, solar, plastics and rubber, and textile applications. Yaskawa America's Motoman Robotics Division makes industrial robots that can weld, assemble, cut and handle goods for manufacturers.

Yaskawa America, Inc. employs more than 1,000 people at its manufacturing facilities in Waukegan, Ill. and in offices across the United States. For more information on the Kinematic Toolbox, please visit our website at www.yaskawa.com.

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