

ADVANCED MOTION CONTROL SOLUTIONS FOR PACKAGING AUTOMATION



Authorized Solution Partner



**CYBERNETICS
AUTOMATION
SOLUTIONS**

Motion Perfect 5

Design, Develop, Test, Deploy and Secure

Servo Drive Support

- Stand-alone or EtherCAT based drive commissioning
- Simple setup of commonly used parameters
- Tuning tools and control mode selection
- Display and edit EtherCAT profile

EtherCAT Diagnostics

- Graphical view of network, either linear or network topology
- Graphical indication of device status
- Diagnostic view to show network status registers

IEC Editor

- Improved ladder usability in free form ladder (FFLD)
- Global data types and global variables across all IEC tasks
- Single step debugging

Robot Programming System (RPS)

- Easy setup of Trio SCARA robots
- New 3D models for Trio SCARA robots
- Improved 3D visualization setup allowing direct association with robot

Packaging Machine Setup

- Guided setup for vertical form fill and seal machines
- New high order polynomial CAM function

Controller Tree

- Improved navigation to EtherCAT axes
- Added global data type and global variables for IEC tasks
- Improved grouping

Flex Slice system

- Firmware update to selected FlexSlice modules via EtherCAT

Uniplay

- Added support for Recipes, user defined Alarms and MODBUS RTU
- Updated image Toolbox for HMI designs

TrioBASIC Editor

- Added INCLUDE to program via drag and drop
- Support for 'STATIC' values
- Colour indication of search result in scroll bar

SCARA Robot and Robot Programming System

Trio's SCARA deliver precision, speed, and reliability for demanding packaging applications. The integrated robot programming system simplifies complex movements through intuitive teach pendant functionality and offline programming capabilities. With built-in kinematics for various robot configurations, the system eliminates complex mathematical calculations, allowing users to focus on application logic.

The seamless integration between motion controllers and robotic systems enables synchronized operations between conveyors, product handling, and packaging processes, significantly reducing integration time and engineering costs.



THE MOTION SPECIALIST

Products

Flex-6X Nano is a compact yet powerful motion coordinator supporting up to 64 axes with EtherCAT networking. Features high-speed position locks, flexible I/O connectivity, and onboard programming memory. Ideal for space-constrained packaging applications requiring precise synchronization.

EtherCAT



Flex-7 is an advanced motion controller supporting up to 128 axes with multi-tasking capability via EtherCAT, with update rates down to 125µs. Flex-7 has separate cores dedicated to motion and communications combined with Gigabit Ethernet.

EtherCAT



PC-MCAT-2 is an innovative 'Motion + PC Solution'. A choice of Intel processors from Celeron through to core i3 - core i7 is used to drive a high performance motion controller and a compact PC that can run user applications under Windows.

EtherCAT



The **MC6N-ECAT** is a high performance Motion Coordinator dedicated to running remote servo and stepper drives via EtherCAT. It is based on the 1GHz i.MX7 Dual ARM Cortex A7 Core Processor supporting up to 64 axes of motion for ultra precise axis resolution.



UNIPLAY HMI Trio's range of Human Machine Interfaces (HMI) improves control and visualisation over motion-first automation solutions. The UNIPLAY HMI range provides plug-and-play integration with Trio's motion controllers and programming environment.



DX3, the single-axis AC servo drive, is the most optimised entry level solution with excellent performance and practical control functions. DX3 has a power range from 50W to 7.5kW and various communication options. DX3 is fully integrated into Trio's application development tool, Motion Perfect.

EtherCAT



DX4 servo drives offer drive and motor packages that provide performance and dependability, optimised to do more with less. The DX4 comes in 3 frame sizes with power ratings from 50W to 3kW. The DX4 is fully integrated into Motion Perfect.

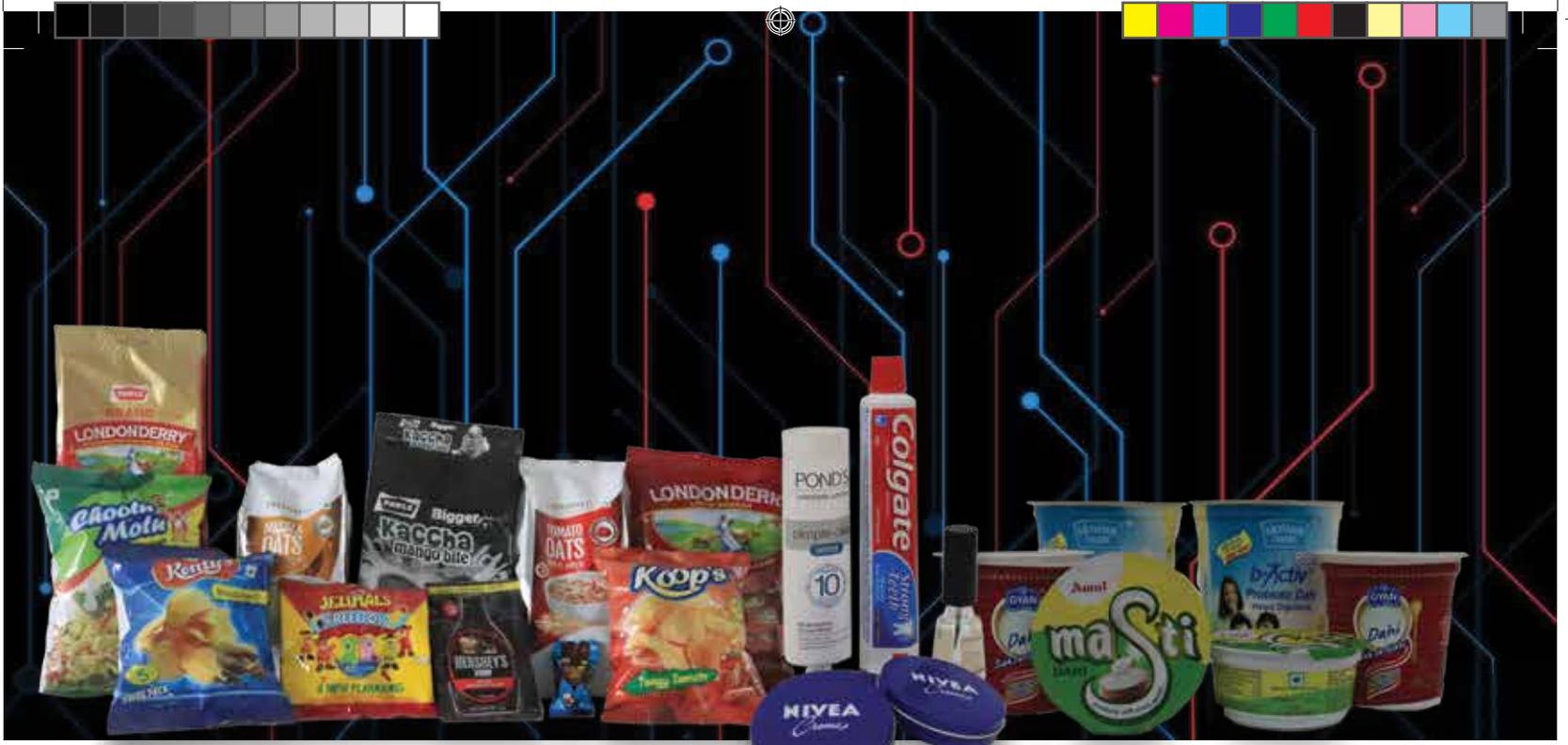
EtherCAT



DX5 dual axis drive modules come in 2 compact frame sizes and combined with the power supply units can be configured for up to 16 axes with power ratings from 400W to 750W. It is designed to be matched with the MXL motors and accessories. DX5 is fully integrated into Motion Perfect.

EtherCAT





Reasons to use the Trio Solution

- Faster time to market
- Template based programming
- Key vertical focus
- Reliable, efficient & modular system
- Productivity with mechatronics fundamentals
- High level of program security
- Trend setting technology
- Easy to integrate with dynamic consumer behaviour
- Economical Solution

Applications for Packaging Industry



Bottling



Capping



VFFS / HFFS



Shrink Wrap



Case Erector



Converting



Blister Packaging



Flow Wrap



Palletizing



Cartonners



Inspection



Labelling



Robotics



Printing



End of Line

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Cybernetics Automation Solutions
Lokmanya House, Office No.36, 4th Floor,
Paud Road, Kothrud, Pune-411038

+91 9860359857

info@cybernetics-automation.com

www.cybernetics-automation.com

TRIO MOTION TECHNOLOGY
UK | USA | CHINA | INDIA | EUROPE
WWW.TRIOACTION.COM



Trio Motion Technology India Pvt.Ltd.,
Teerth Business Center, 3rd Floor, Unit No. 7 Block EL-15,
MIDC, Bhosari, Pimpri-Chinchwad, Pune, 411026 India

+91 8275065446

indiaoffice@triomotion.com

www.triomotion.com

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