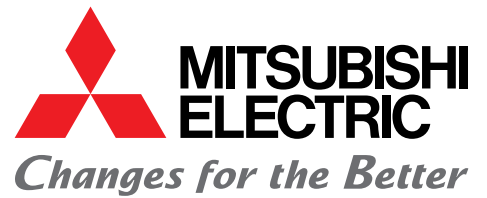




for a greener tomorrow



CODIAN
ROBOTICS



CODIAN ROBOTICS

High speed pick and place delta robot with seamless integration into the Mitsubishi Electric Controller



- Highly dynamic with Mitsubishi Electric servo technology
- Integrated safety functions
- Lightweight construction
- Developed for the packaging industry
- Easy to program using standard Mitsubishi Robot programming tool

Innovative robot solutions

Mitsubishi Electric has extended its expertise in robots to now encompass delta robots, working with Codian Robotics to deliver a high speed pick-and-place solution built on Mitsubishi servo technology, that integrates seamlessly with the Mitsubishi Electric controller. This could be done directly with the Mitsubishi Robot controller or with the motion solution.



Pick and place in excellence.

When manufacturers look to ramp up the speeds of their production lines, it is the manually intensive aspects of pick and place for packaging and assembly that quickly become a bottleneck. Where the items to be picked are relatively lightweight, with simple geometries, then delta robots can offer an effective and reliable high quality, high speed option that can reduce costs.

Mitsubishi Electric has worked with e-F@ctory Alliance Partner Codian Robotics to integrate Codian's industry-leading portfolio of delta robots seamlessly into the Mitsubishi Electric world. Users can take advantage of Mitsubishi Electric's highly dynamic servo technology to drive the parallel kinematic axes, and control the robot either via Mitsubishi Electric's standard robot controller, programmed using easy MELFA Basic Robot programming tool or via

the Simple Motion module or System Q motion controller on Mitsubishi Electric PLCs.

Further, a key area of Codian's robot development has been in reducing the weight of the moving parts, which combined with the highly dynamic Mitsubishi Electric servo drives delivers industry-leading pick-and-place cycle rates.

The result is a high performance delta robot solution that is simple to integrate into a packaging or assembly line. Seamless integration into the iQ Platform enables direct information exchange between the Codian robot and the wider automation system, supporting process optimisation initiatives such as Industry 4.0 or the Industrial Internet Consortium (IIC).



Control with simple motion with PLC Open FB

The Codian Robotics Delta robots are designed to support pick and place applications in nice markets. With their optimized variety of solutions they enhanced the Mitsubishi robot portfolio.

Typical applications such as food & beverage, cosmetics and pharmaceuticals – all areas where Mitsubishi Electric has an unrivalled reputation for high quality automation systems.

High performance

As an innovator in the development of parallel kinematic robot technology, Codian Robotics has driven the use of lightweight and application specific materials, such as carbon fibre, titanium, anodised aluminium, stainless steel and plastics.

Features of the Codian Robotics delta robots range include:

- Payloads up to 100 Kg
- ISO mount gripper interface
- Zero footprint – mounts above the application
- Low maintenance with easy to access components
- Integrated safety functions
- Standardized customisation
- Low total cost of ownership

Hygienic applications

The Codian Robotics HD series is specially designed to be a hygienic delta robot. The result is a optimal hygienic model, cavity free with sloping rounded surfaces and no bolts on the exterior of the robot body. Gearboxes, servo motors and cables are fully enclosed, and the robot meets IP69K standards, enabling clean-in-place (CIP) operations.

The waterproof Codian Robotics HD series is made of hygienically approved materials for the most demanding applications. The robot is available in titanium, 316L stainless steel and sanitary plastic and is finished with a ViwateQ surface finish that inhibits the growth of micro organisms.



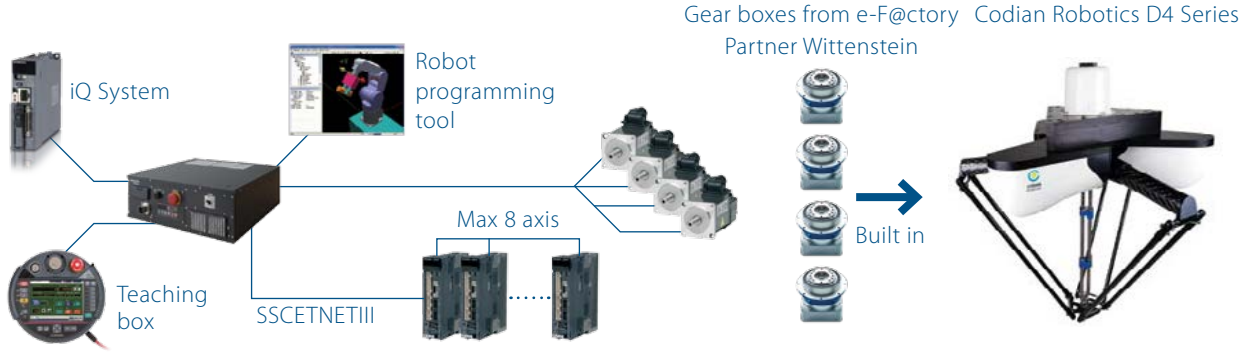
Waterproof food safe pick & place robot solutions



iQ Platform is integrated into CODIAN Robots



CODIAN Robotics integrated in the Mitsubishi Electric Controller



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