

New - Mitsubishi Electric powered Delta robots from Codian Robotics

Ratingen, Germany 17.03.2016

Mitsubishi Electric's popular MELFA range of compact SCARA and articulated arm robots has been effectively extended by the introduction of new Delta style robots from well-known manufacturer Codian Robotics. Employing high precision servo motion technology and easy to use software from Mitsubishi Electric the new range is fast, precise and user friendly. Ideal for lightweight pick-and-place tasks, each robot can work autonomously using servo control or be integrated seamlessly into a Mitsubishi Electric automation environment.

This solution has been developed as a result of the [e-F@ctory Alliance](#) partnership, an initiative of Mitsubishi Electric where companies work together to create best in class automation solutions. As members of the alliance, Codian Robotics and Mitsubishi Electric are providing a more extensive combination of robot technology and control options to machine builders and robot integrators within the group and to the market in general.

Manufacturing and [packaging industries](#) are incredibly competitive and this translates into demands for higher speeds and high reliability to combat extremely tight margins on machinery and production lines. When low weight items are being assembled, processed and packaged the construction of the production lines is often equally lightweight. When introducing a robot to this environment it is an advantage to be able to save weight in construction and also reduce moving mass in the manipulator.

This is why Codian Robotics' delta robots are constructed using materials such as carbon fibre, titanium, anodised aluminium, 316 stainless steel and plastics. In combination with advanced servo driven movement this makes them ideal for typical 3-axis top-loading packaging applications and push-fit assembly.

There is also a waterproof model available made of hygienically approved materials which is ideal for wash-down environments such as food & beverage, cosmetic and pharmaceutical applications. The overhead pick-and-place range complements the [well-known articulated arm robots offered by Mitsubishi Electric](#) that can also be used to satisfy more complex manipulation requirements.

Integration flexibility is a key driver in this type of application where customers and integrators both want to save money and achieve higher reliability by making the robot integration faster and easier. In offering a high speed pick-and-place solution built on [Mitsubishi Electric servo technology](#), the robots produced by Codian Robotics will integrate seamlessly with a Mitsubishi Electric PLC for fast integration and reliable operation.

This can be achieved directly with the Mitsubishi Electric Robot Controller or with the motion solution, adding flexibility and convenience. Use of Mitsubishi Electric's robot controllers extends this concept further. The units are modular and can be used in standalone mode, or mounted directly onto the back plane of a Mitsubishi Electric iQ Platform controller to provide a fully integrated control system with a simple plug and play operation.

Programming is also made more convenient since Delta robots from Codian Robotics can be programmed using Mitsubishi Electric's easy MELFA Basic Robot programming tool, via the Simple Motion module or

System Q motion controller on Mitsubishi Electric PLCs. Mitsubishi Electric servo motors and MR-J4 Servo controllers are used, so compatibility with other products via the fast Mitsubishi Electric network SSCETNETIII/H is effectively built-in.

As an e-F@ctory Alliance partner Codian Robotics solutions are thoroughly tested to ensure compatibility and ease of implementation.

Note:

¹ See how Mitsubishi Electric is able to respond to today's automation demands:

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Image captions:



Picture 1: The high speed Codian Robotics pick-and-place solution is built on Mitsubishi Electric proven servo technology that integrates seamlessly with a Mitsubishi Electric controller for fast integration and reliable operation.

[Source: Codian Robotics, Mitsubishi Electric Europe B.V.]



Picture 2: Waterproof pick-and-place Delta robot solutions from Codian Robotics powered by Mitsubishi Electric are available. They are ideal for wash-down environments such as food & beverage, cosmetic and pharmaceutical applications.

[Source: Codian Robotics]



Picture 3: Codian Robotics' delta robots are constructed using advanced light-weight materials such as carbon fibre, titanium, anodised aluminium, 316 stainless steel and plastics.

[Source: Codian Robotics]

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Note to Editor: if you would like the text in another language please contact Philip Howe at DMA Europa – philip@dmaeuropa.com.

About e-F@ctory

e-F@ctory is Mitsubishi Electric's integrated concept to build reliable and flexible manufacturing systems that enable users to achieve many of their high speed, information driven manufacturing aspirations. Through its partner solution activity, the e-F@ctory Alliance, and its work with open network associations such as The CC-Link Partners Association (CLPA), users can build comprehensive solutions based on a wide ranging "best in class" principle.

In summary, e-F@ctory and the e-F@ctory Alliance enable customers to achieve integrated manufacturing but still retain the ability to choose the most optimal suppliers and solutions.

<https://eu3a.mitsubishielectric.com/fa/en/solutions/efactory>

<http://www.e-factory-alliance.com/>

About Mitsubishi Electric

With over 90 years of experience in providing reliable, high-quality products to both corporate clients and general consumers all over the world, Mitsubishi Electric Corporation is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, as well as in products for the energy sector, water and waste water, transportation and building equipment.

With around 129.000 employees the company recorded consolidated group sales of 36,0 billion US Dollar* in the fiscal year ended March 31, 2015.

Our sales offices, research & development centres and manufacturing plants are located in over 30 countries.

Mitsubishi Electric Europe B.V., Factory Automation European Business Group (FA-EBG) has its European headquarters in Ratingen near Dusseldorf, Germany. It is a part of Mitsubishi Electric Europe B.V., a wholly owned subsidiary of Mitsubishi Electric Corporation, Japan.

The role of FA-EBG is to manage sales, service and support across its network of local branches and distributors throughout the EMEA region.

**Exchange rate 120 Yen = 1 US Dollar, Stand 31.3.2015 (Source: Tokyo Foreign Exchange Market)*

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