

Mitsubishi Electric has it all under control at EMO 2015

Ratingen, Germany 21st September 2015

Mitsubishi Electric will be demonstrating its integrated, multi-faceted approach to manufacturing and production automation at this year's EMO Exhibition (Milan, Italy, 5-10 October, Hall 3, Stand H18/L17).

Principle exhibits will include new generation CNC controls, innovative EDM machines and the latest Factory Automation technology.

There will also be displays of related technologies such as energy efficiency systems, robots, servo motion and industrial control and communications. Mitsubishi Electric will also be announcing a new expanded role for its e-F@ctory concept, bringing together automation and communication in line with development towards an Industry 4.0 future.

CNC

The show will host the European première of the new M800/M80 CNC. This is built around a bespoke ultra-high speed CPU (central processor unit) developed in-house by Mitsubishi Electric especially to meet the needs of advanced machine tool control. The CPU is complemented by an all-optical data communications network, which means instructions and programs can be executed instantly, leading to an improvement in machine performance.

Another exciting feature of the M800/M80 is the innovative split screen

user display, which is able to present two sets of information simultaneously. Typically one will be a conventional CNC readout, while the other will be bespoke to the application, so could be an operational status report, tool depiction, output figures, production schedules, machine condition report, or safety information.

With asset and information security increasingly important in production environments, the M800/M80 CNC is provided with ground breaking Access Entitlement-based data security. This means that users are only able to see and alter data related to their designated duties, so are unable to (accidentally or deliberately) alter other parts of the CNC's database.

EDM

An innovative new motor and control system has helped the Mitsubishi Electric Wire Cut EDM (electrical discharge machine) series redefine performance standards in terms of precision, energy efficiency, productivity and reliability. Instead of a conventional driven ballscrew mechanism, the EDM uses tubular shaft motors, which are state-of-the-art direct drives that are both accurate and efficient, yet require no lubrication or maintenance.

The fully optical control system is equally innovative, allowing data signals to travel at the speed of light, thus improving response times and allowing more data traffic to be handled.

The Wire Cut EDM, also has an automatic wire threading system, an integrated generator and a user friendly operator's display.

Factory Automation

Across the manufacturing and production world there is increasing

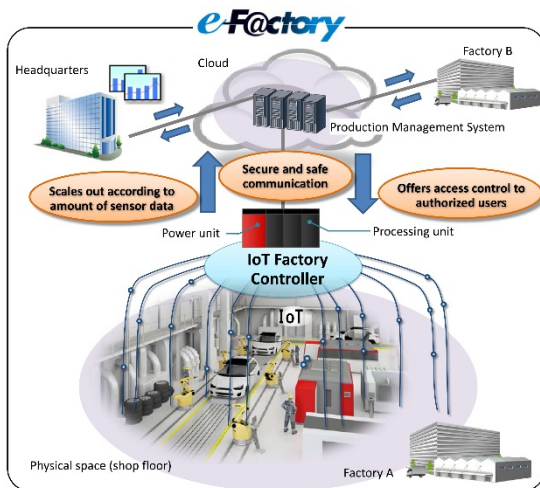
demand for greater integration for automation systems and subsystems, including connection with business execution systems and links with both suppliers and customers. Mitsubishi Electric's Factory Automation Group is at the forefront of these developments, something that is underlined by a renewed emphasis on its e-F@ctory concept at the exhibition.

The e-F@ctory idea has been used for several years to bring together both individual technology experts and companies from around the world to form partnerships that move technological solutions forwards, including data management and communications. As the vision of Industry 4.0 gains momentum, there is obvious synchronicity between the ideals which it lays out and Mitsubishi Electric Factory Automation's way of working.

The results will be demonstrated at the exhibition in the form of products and solutions such as the latest advanced PLCs (programmable logic controllers) integrated with a range of features and functions, plus advanced communication to form the company's iQ Platform. This technology allows a wide range of field devices and controllers to be fully integrated via a single backplane, which can then seamlessly and securely connect with higher level enterprise management systems.

Talk to experts from Mitsubishi Electric at the EMO Exhibition (Milan, Italy, October 5-10 2015, Hall 3 – Stand H18)

Image caption:



Picture 1: Mitsubishi Electric will also be announcing a new expanded role for its e-F@ctory concept, bringing together automation and communication in-line with development towards an Industry 4.0 future.

[Source: Mitsubishi Electric Europe B.V.]



Picture 2: The show will host the European première of the new M800/M80 CNC.

[Source: Mitsubishi Electric Corporation]



Picture 3: Electrical discharge machining technology has advanced to a new level with the launch of Mitsubishi Electric's new Wire Cut EDM series.

[Source: Mitsubishi Electric Europe B.V.]

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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 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)*

Further Information:

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