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Mitsubishi Electric's M80 and M800 series CNC control units offer easy and intuitive user experience

Touch screen era welcomed to CNC technologies

As a well-known brand offering CNC products and solutions to leading global machinery manufacturers, is recognized for its new generation M80 and M800 series CNC control units which provide the added value of touch screens. The improved display and keyboard design introduces a brand new dimension in machinery design. As the new series offer high efficiency and precision, touch screens guarantee easy and intuitive user experience thanks to a satisfactory design similar to smart phones.

Setting standards globally in various industries, including especially automotive and metal processing industries, with its high-tech CNC products, Mitsubishi Electric continues to break new grounds with innovative products. Mitsubishi Electric provides the equipment required for high precision surface quality and high speed processing as default while it fuels the beginning of a new era in terms of productivity and high precision with its new generation M80 and M800 series CNC control units. The new series, distinguished for promoting easy integration with factory automation technologies and production monitoring software, offer remarkable advantages in production phases with their smart and intuitive touch screens.

Intuitive touch screens with multi-touch technology

With their improved display and keyboard design, Mitsubishi Electric M80 and M800 series CNC control units introduce a new dimension in machine design thanks to the brand new design elements. The new series come with 8.4 inch, 10.4 inch, 15 inch and 19 inch high resolution display options. Coming as a standard specification in displays of 10.4 inch and above, Multi-touch capacitive touch screen offers an easy and intuitive user experience similar to smart phones. This innovative function gives an end to challenging keyboard operations, enabling operators to display any given section of the programme in addition to selecting a menu from other displays. Also, the new displays facilitate daily maintenance operations thanks to the long lasting durable glass design. The product range comes with keyboards that can be assembled vertically and horizontally.

19 inch vertical touch screen



Mitsubishi Electric has incorporated 19 inch vertical touch screens into M80W and M800W series CNC control units to provide display keyboards and document viewers which include multiple windows customizable by machine manufacturers. Hence, it becomes possible to view the CNC screen in the upper section while viewing the virtual keyboard, operator panel, document viewer or memo pad in the lower section. M80W and M800W series control units create high level of flexibility in machine operator panel design as the display is as thin as 50 mm in most parts of the unit.

Elegant outlook, ease of use, fast operations...

The improved display and keyboard design of the new series is as thin as 9.5 mm in many parts of the product. Displays come with a colour scale of grey and variable tones to maintain design integrity even when used with machines in different colours. Flat screen and keyboard surfaces not only provide an elegant outlook and ease of use but also enable users to perform operations faster than before. Frequently used functions and work menus are positioned conveniently on the display for easy reach and both the menus and their locations can be customized by operators. Also, work screen displays all the details such as tool type, left or right working system, cycle period and tool life in one glance. Tool holders and cutting edge types are easily displayed in order to promote safe use by even inexperienced operators.

3D simulation for easy control of complex programs

As the new series make it possible to monitor 3D models in any size and location, users are able to review the drawings and take sectional views of parts before going on with the operation. G Code assistant is provided as a standard specification to facilitate programming processes while three dimensional graphic control supports both turning and milling operations. Thus, it becomes possible to control even complex programs with three dimensional simulation capabilities.

Higher precision and productivity

Mitsubishi Electric's M80 and M800 series CNC control units offer more precise, faster and more productive operations with 4th generation SSS (Super Smooth Surface) control technology. The machining programmes can be stored in SD cards in addition to USB. The new Simple View capability facilitates transition from normal view mode to simple view mode to boost adaptation of inexperienced operators and provide information about the machine status by enabling alarms created during the operation to be displayed in the entire screen. Hence, machine operators have the opportunity to view the alarms from remote locations, which expand the control zone remarkably. User authorization level definition feature minimizes errors arising from unauthorized interventions by defining customized access authorization to operators according their roles in production processes.



Compatible with the previous series

The new series will be fully compatible with Manufacturing Execution System (MES) in addition to having high processing capacity and communicating with drives via the optic cable. Since Mitsubishi Electric's M80 and M800 series CNC control units are in perfect harmony with the previous M70 and M700 series, an additional harmonization or extra training will not be required for customers that will switch to the new series.

About Mitsubishi Electric Corporation

With over 90 years of experience in providing reliable, high-quality products, 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, energy, transportation and building equipment. Embracing the spirit of its corporate statement, Changes for the Better, and its environmental statement, Eco Changes, Mitsubishi Electric endeavours to be a global, leading green company, enriching society with technology. The company recorded consolidated group sales of 4,394.3 billion yen (US\$ 38.8 billion) in the fiscal year ended March 31, 2016. For more information visit: www.MitsubishiElectric.com*

** At an exchange rate of 113 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2016.*

About Mitsubishi Electric Turkey Operations

Mitsubishi Electric concentrates on sales and after-sales services for HVAC systems, factory automation systems, CNC-Mechatronics systems and advanced robot technologies in Turkey. In addition, the company provides support for satellite, elevator, visual data systems, power sources and transportation-based infrastructure projects. Mitsubishi Electric, the acknowledged manufacturer of Turksat 4A and 4B satellites contributing to communication and broadcasting infrastructure of Turkey and neighbouring countries, is also recognized for the automation technology used for Marmaray project. Having incorporated a company for development and manufacturing of room air-conditioners in Turkey in April 2016, Mitsubishi Electric intends to start manufacturing operations in Manisa plant by January 2018. For more information visit: tr.mitsubishielectric.com

About Mitsubishi Electric Turkey CNC Mechatronics Systems

Mitsubishi Electric provides CNC products and engineering solutions to the leading machinery manufacturers in Turkey. It sets the standards in various industries globally including automotive and metal processing industries with its high tech CNC products. For more information visit: tr3a.mitsubishielectric.com