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Next generation M80 and M800 series CNC control units provide intuitive user experience with special screen and keyboard design

Future-Focused CNC Control Units from Mitsubishi Electric

Standing out with its advanced technology solutions in numerous sectors ranging from "Home to space", Mitsubishi Electric provides world's leading machinery manufacturers with CNC products and engineering solutions. M80 and M800 series CNC control units with advanced technology make future-oriented CNCs that appeal to new generation operators who grew up with technologies such as smartphones and tablets easier to use. Stating that they help CNC users reach their goals by providing them with more affordable, faster and precise manufacturing possibilities, Mitsubishi Electric Turkey Factory Automation Systems Mechatronics CNC Department Senior Manager Hakan Aydın informed about their studies aimed towards Turkish machinery industry.



Setting the standards in the world in numerous industries with its CNC products incorporated with advanced technology, mainly being automotive and metal working industry, Mitsubishi Electric continuously increase the added value they add to manufacturers in terms of CNC processing centers and CNC milling machines. Informing us on the company's works aimed at Turkish machinery sector, **Mitsubishi Electric Turkey Factory Automation Systems Mechatronics**

CNC Department Senior Manager Hakan Aydın, stated they help CNC users reach their goals by providing them more affordable, faster and more precise manufacturing possibilities.

Machinery industry will grow in the age of Industry 4.0

Stating that Turkey is higher on the list compared to numerous European countries in terms of population density, young work force and work quality, Hakan Aydın said; "One of the driving lines of work of our country, the machinery industry will grow stronger during Industry 4.0 era. We, as Mitsubishi Electric, strive to help Turkish industry adapt to rapidly increasing competition conditions with advanced technology innovative products, quality service and spare parts services, project design studies designed with our engineering knowledge and know-how as well as post-sales services which we pay great attention to."

Next generation M80 and M800 series CNC control units

Stating that next generation M80 and M800 series can support systems of up to 32 axis, eight spindle and eight component systems including multi-spindle synchronization control, Aydın also shared this information with us; "The series that incorporate Mitsubishi Electric's problem-free surface control function can optimize acceleration and deceleration of each axis even during automated operation. Enabling higher precision measurements in the same duration or reduced cycle-times with uncompromising precision, the series can even be used in simultaneous, five axis machine operations. M800 CNC control units stand out as a high end control unit designed for high-speed and high-precision machine operations and multi-axis and multi tool system control. Incorporated with the CPU designed specifically for CNC applications, M80 can support up to 11 axis in total. Also provides the ideal solution for high efficiency and ease of use in a wide range of market. The CPU designed specifically for CNC industry by our brand provides increased processing speed on faster and more sensitive surfaces."

Multi-touch capacitive touch screen



Stating that M80 and M800 series CNC control units stand out with their screen and keyboard design, Aydın said; "The new series streamline the operation of future oriented CNC's that appeal to new generation operators who grew up with technologies such as smartphones and tablets. High resolution screens include; 8.4 inch, 10.4 inch, 15 inch and 19 inch options in the new series. Multi-touch capable capacitive touch-screen panel which is standard for 10.4 inch or bigger screens provide smartphone-like easy and intuitive user experience to both experienced and new operators.

This function which brings an end to difficult key presses, each section can be viewed with ease while a menu in another screen can be selected with ease. Also, new screens make daily maintenance a breeze with their long lasting, sturdy glass structure. Horizontally and vertically mountable keyboards are also included in the product ecosystem."

Simple View feature provides more convenient operation

Stating that the new series make it possible store and back-up large-scale, complex machine programs on included USB as well as via SD card, Aydın continued, "With its new Simple View feature, it is possible speed up adaptation period of new and inexperienced users by switching from normal monitor screen to simplified monitor screen while it is also possible to view any occurring alarms during operations in full-screen view mode, thus having more information about the current status of the machine. This way, machine operators can see alarms even when they are away from site, thus having a larger area of control. With user authorization level specification feature, it is possible to minimize errors caused by unauthorized interventions by specifying separate access permission per operator depending on their roles in production."

Provides easy integration with factory environment

Stating that M80 and M800 series which are compatible with numerous open network protocols, provide easy integration with the entire factory environment while standing out for their flexibility, Hakan Aydın also said they make it easier to establish a connection among robots, sensors, other equipments and CNC. Aydın said; "In the series which makes it

possible to view 3D models in any size and position, part drawings can be viewed post-operation and parts' cutaway views can be viewed. While G Code helper, which is included as standard provides much easier programming advantage; three dimensional graphical control supports both lathing and milling. This way, even complex programs can be control with ease via three dimensional simulations." ending his words.

About Mitsubishi Electric Corporation

With over 95 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 4,519.9 billion yen (in accordance with IFRS; US\$ 40.7 billion) in the fiscal year ended March 31, 2019. For more information visit: www.MitsubishiElectric.com*

**At an exchange rate of 111 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2019.*

About Mitsubishi Electric's Activities in Turkey

Main fields of activity of Mitsubishi Electric that stand out with its advanced technology solutions in various areas ranging from "Home to Space" in Turkey are; air conditioning systems, industrial automation systems, advanced robot technologies, CNC mechatronics systems, elevator and escalator systems and visual data systems. Designating Turkey whose power and potential it believes in as a major production headquarter, Mitsubishi Electric produces energy efficient and environment-friendly air conditioners for Europe and Turkey in its digital factory in Manisa which is the brand's first room air conditioner factory in Europe. Working to integrate factories of Turkish industry into digital transformation period, Mitsubishi Electric also draws attention with its automation technologies in the world's deepest sunken tube tunnel, the Marmaray project. Operating in several fields in Turkey such as automotive components, semi-conductor devices, transportation and energy systems, Mitsubishi Electric applies its radar technology which is developed for airports to increase safety for airplanes and flights within its operations in public systems in Antalya Airport. One of the leading developers in space research and development systems, Mitsubishi Electric is also the manufacturer of Turksat 4A and 4B satellites which contributes to Turkey's and neighbouring countries' communication and broadcasting infrastructure. For detailed information; tr.mitsubishielectric.com

About Mitsubishi Electric Turkey Factory Automation Systems

Mitsubishi Electric Turkey Factory Automation Systems; provide added value in terms of rapid integration, productivity, flexibility and productivity to the leading industrial companies in Turkey in various fields such as automotive, food, packaging, metal and PVC processing machines. The new industry, also called "Industry 4.0", responds with e-F@ctory, i.e. the digital factory concept. For more information; tr3a.mitsubishielectric.com

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