

14 August 2024

Mitsubishi Electric Türkiye Supports Domestic Machine Manufacturers in CNC Machine Production



Hakan Aydin, Mechatronics CNC Department Manager of Mitsubishi Electric Türkiye Factory Automation Systems, stated that with the next-generation technologies and ease of use offered by the M8V series, they aim to enhance the competitiveness of local CNC machine manufacturers.

1. Mitsubishi Electric Türkiye recently introduced the M8V series, the new version of the M8 CNC series. Could you explain the importance of this product for Mitsubishi Electric and the industry? Could you also share its technical features by comparing it with the previous generation?

As Mitsubishi Electric, we had the opportunity to introduce the updated version of the M8 series, the M8V CNC series, to our business partners at the “Shaping The Future” themed launch event held in Istanbul on March 7, 2024. The M8V CNC series was first introduced globally in July 2021 and has been available to industry professionals since January 2022. The new M8V series facilitates the work of professionals across various industrial applications, particularly in CNC machining centers, CNC lathes, and CNC laser machines. As a continuation of the M8 series, the M8V CNC series offers manufacturers faster and more efficient operation, delivering higher productivity and profitability.

Mitsubishi Electric is among the world's largest CNC manufacturers. Equipped with significant advantages that open the door to a new world for manufacturers, the M8V CNC series features next-generation technologies and capabilities such as drag-and-drop operation, multi-touch functionality, WLAN wireless connectivity, and higher speed and surface accuracy compared to previous series, all offered as standard. Thanks to a CNC-dedicated CPU, innovative OMR-CC control technology, and automatic cutting load/feed control, the system delivers high precision

while improving cycle times by up to 12%. At a time when smart factories and Industry 4.0 have become essential, this series also offers standard features such as easy network connectivity, direct robot control, and Remote4u technology, while tolerating CAM-based tool path errors by approximately 15% more than the previous generation. In addition, with up to twice the number of look-ahead blocks compared to the previous generation, the new series delivers higher speed, higher precision, superior surface quality, longer tool life, and shorter cycle times in metal machining.

2. Ease of use was strongly emphasized during the launch of the new M8V series. Could you highlight the key features related to this aspect once again?

Thanks to the new intuitive design of the M8V CNC series, parameters related to cutting conditions—particularly those affecting surface quality—can be adjusted much more easily. In addition, frequently performed operations such as workpiece programming and tool management can be carried out faster and more efficiently.

Through our innovative control technologies, we continue to bring high product quality and engineering expertise to the industry in Türkiye, as we do worldwide. Integrating flexibility, functionality, and advanced technologies, the M8V CNC series enables manufacturers to operate faster and more efficiently, thereby achieving higher productivity and profitability.

3. Mitsubishi Electric is among the world's largest CNC manufacturers. We know that you prioritize R&D and innovative solutions. Could you provide an overview of your CNC products and solutions within the Mitsubishi Electric ecosystem? What is your roadmap specifically for Türkiye?

As Mitsubishi Electric Factory Automation Systems, we offer a broad product portfolio capable of addressing many needs in industrial automation. Within this portfolio, Mitsubishi Electric Mechatronic CNC products play a key role by delivering value-added solutions to leading CNC machine manufacturers and industries worldwide.

Our activities in Türkiye can be summarized under two main headings. The first is providing service and spare parts support for CNC machines equipped with Mitsubishi Electric CNC products imported from abroad. The second is supplying, engineering, and commissioning essential components such as CNC controllers, motors, and drives for CNC machines manufactured by local machine builders operating in Türkiye.

With a service approach where customer satisfaction is the most critical parameter, we conduct meticulous and comprehensive work not only before and during sales but also in after-sales services. We believe that our recent investment in the CNC Refurbishment Center reflects our confidence in customer satisfaction, the potential of Turkish industry, and our long-term strategic goals with our business partners.

4. What are your views on the future of CNC machines and technologies produced in Türkiye?

CNC machines will continue to maintain their importance in manufacturing over the next 5–10 years and will further evolve with advanced technologies, remaining indispensable elements of production lines. We foresee that within the next decade, Türkiye's valuable machine manufacturers will reach a level where they can meet a significant portion of domestic demand by integrating new technologies into their production capabilities. As Mitsubishi Electric, we will continue to bring high-quality CNC technologies based on innovation, usability, and network communication to the industry in Türkiye, just as we do globally.

5. I would like to talk about a newly established center in Türkiye whose impact is expected to grow: the Mitsubishi Electric Türkiye CNC Refurbishment Center. Could you provide information about this center?

Sustainability is a subject of great importance to Mitsubishi Electric. In this context, the Mitsubishi Electric Türkiye CNC Refurbishment Center, which we have launched at our headquarters, enables faulty products to be refurbished under new-product conditions and reintroduced into circulation. Sustainability—defined as the ability to endure over time—is critical for the future of our planet. Mitsubishi Electric demonstrates its commitment through global environmental policies and continues to develop environmentally friendly solutions to leave a more livable world for future generations.

6. Finally, Türkiye will host a major industry event in September. What are your thoughts on MAKTEK Eurasia 2024, to be held between September 30 and October 5, 2024?

The MAKTEK Fair, which will be held for the 8th time, has gained international recognition over the years and stands as one of the most important exhibitions for Turkish industry. As in every MAKTEK fair, CNC machines equipped with Mitsubishi Electric CNC products will be showcased at nearly every stand. Throughout the exhibition, we will be present to support our business partners on site, participate in sponsored events, and bring together international professionals with Turkish industrialists.