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## **World giant Mitsubishi Electric appreciated for its advanced robot technologies**

### **HIGH SPEED AND PRECISION ROBOT TECHNOLOGIES**

**Turkey witnesses proliferation of the use of robots in various industries. In that respect, global technology giant Mitsubishi Electric is distinguished for the solutions and applications it provides in terms of the sales and after-sales services of high technology robots in Turkey.**

Robots are currently of critical importance for manufacturing processes in factories thanks to the speed and other advantages they provide. Robots have recently become quite a regular workforce in that they are used in almost all industrial plants manufacturing products to meet human needs. Thanks to its high robot technology, Mitsubishi Electric creates difference with its high-speed robots operating with a precision close to human arms or hands in various industries such as food, medicine, packaging, automotive, and domestic appliances. Manufacturing all the components of robots in its own plants, Mitsubishi Electric is able to offer services to different industries by combining its production know-how and expertise to promote the robot technologies.

#### **Different industries, single solution**

Mitsubishi Electric's robots have turned out to be a ground-breaking innovation in factory automation processes in that they are frequently preferred for assembly and quality assurance processes including assembling door handles of cars and testing the keys of sound systems. Mitsubishi Electric also provides various solutions involving robots for a number of operations such as packaging wet tissues, encasing pharmaceuticals, polishing and gluing shoes, packaging sugar cubes and other food and packaging industries requiring mass production, dosaging and packaging.

## **Internal manufacturing of robot components**

Mitsubishi Electric robots are primarily preferred by customers who wish to perform operations at or close to human arms at high speed thanks to the high precision those robots provide. Concentrating on small or medium segment robots, Mitsubishi Electric derives its “know-how” on small and fast robots from its experience as a semi-conductor manufacturer. Furthermore, it produces all the components of robots including gearboxes and mechanical and electronic parts.

## **Cost effective, flexible and comfortable production**

Offering services on factory automation and advanced robot technologies to Turkish customers, Mitsubishi Electric Turkey Factory Automation Systems aims to contribute to more flexible production processes with its robots in addition to reducing production costs and increasing human comfort by ensuring that robot technologies are adopted in all industries having such a requirement.

Robot performance is affected from the precision of engines and transmissions in addition to mechanical structure of robots. Mitsubishi Electric’s robot control unit ensures flexibility of motion control as well as speed, accuracy and precision of the system. Besides, robot arms are capable of stretching based on the force that is applied to them by acting as a spring with the help of the stretching functions. It is possible to integrate conveyor and product monitoring, force control and visibility to Mitsubishi Electric robots for advanced tasks.

## **6-axis robot age**

Mitsubishi Electric's RV-F series extremely dynamic 6-axis robot is worthy of being used in high-speed systems thanks to its capability to imitate the movements of human arm and its cycle time of 0.32 second and it increases efficiency. Its dynamic structure enables it to perform flexible dance figures easily.

6-axis industrial robot by Mitsubishi Electric not only provides added value for freedom of movement but also offers more resoluteness and versatility thanks to its double-arm structure. Mitsubishi Electric robots have a carrying capacity varying from 2 kg to 20 kg at the range of 504 - 1503 millimetres based on the model. Working at extremely narrow locations creates no problem for RV-F series which has a number of advantages including being mounted on wall or ceiling. All systems are equipped with the same compact CR750 robot controller.

Mitsubishi Electric robots and factory automation systems are widely preferred by various factories and production plants in Turkey thanks to the superior advantages they provide. Among the targets of Mitsubishi Electric Turkey Factory Automation Systems division is the Turkish domestic appliance industry since the company has gained vast experience worldwide.

### **Competition advantage!**

Turkey is a country with manufacturing capability. It needs to have competition advantage to ensure this capability remains sustainable. It needs to increase its production quality while reducing the costs in order to remain competitive. Robot systems turn out to be the ideal solution that will provide all those benefits effectively.

Robots are required to remain in charge of some electronic operations in addition to mechanical works due to the fierce competition in modern business world. Mitsubishi Electric Turkey Factory Automation Systems' digital factory technology e-F@ctory enables robots to communicate with other products available in the production line since e-F@ctory concept is based on an integrated and open architecture spanning all the products in the factory automation process. Thus, the concept optimizes the production lines according to specific requirements in order to facilitate customers to gain advantage in the competitive environment.