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17 June 2019

Solution Platform and industrial computer from Mitsubishi Electric that provides high cyber security and time savings and prepare factories for Industry 4.0

First Step to Digital Transformation

Within the phase of Industry 4.0, it became the most important item on the agenda of industries to install manufacturing lines that meet the constantly evolving and personalized needs in the fastest and most efficient way possible. In this phase which can be described as the digitalization of the industry, transition to digital factories becomes more important for Turkey to increase production power. Answering this new phase of industry with e-F@ctory concept, Mitsubishi Electric makes it possible for Turkey to build tomorrow's digital factories, starting today. Mitsubishi Electric Turkey Factory Automation Systems OEM Business Development Senior Manager Tolga Bizel told us that it is possible to build factories that can meet all needs of Industry 4.0 and to test production before the factory is built via virtual factories thanks to e-F@ctory. Emphasizing that the Cube Enterprise Solution Platform incorporated into e-F@ctory concept is the first step to digital transformation, Bizel said that thanks to this platform, necessary data processing is provided between manufacturing department and IT systems. Stating that with the industrial computer MELIPC incorporated into Cube Enterprise Solution Platform, data within a factory can be analyzed in real time within production line without sending this data outside, Bizel emphasized that this way, cyber security threats are greatly eliminated.

Stating that faster and more flexible factories became essential for manufacturers to compete in global markets in the phase of Industry 4.0, **Mitsubishi Electric Turkey Factory Automation Systems OEM Business Development Senior Manager Tolga Bizel said**, in this period, most important item on the agenda of industry is "production" and stated; "When we look how many transactions are performed online over shopping sites globally within a minute, we can see why we need a rapid change. In the new era, consumers are forcing manufacturers to undergo a change. This change is not just about speed either, the customers' demands for personalized products also increase day by day. Gaining attention all over the world with its high manufacturing power and potential, it is important for Turkey to adapt to digital manufacturing for sustainable development. In order to achieve this, development costs must be decreased while production rate and quality are increased. At this point, as a competitive actor of the new industrial phase, we provide solutions so that Turkish industry can be prepared for tomorrow's digital and smart factories equipped with advanced robotics technologies starting today."

It's possible to establish the factories of the future, starting today with e-F@ctory Stating



that machines came to a point where they can perceive what is going on around and they can communicate with one another via internet protocols today, Bizel said; "It is possible with Mitsubishi Electric's answer to Industry 4.0, e-F@ctory, to build tomorrow's digital factories starting today. Today, thanks to e-F@ctory infrastructure, robots can communicate with

other products on production lines and they are ready to share information within themselves and the main system controlling the factory without human intervention in order to increase efficiency. Because in e-F@ctory concept, all products that make up the factory automation work integrated to one another with open architecture. Standing out as an integrated solution for installing reliable and flexible manufacturing systems, e-F@ctory improved speed, quality and efficiency in manufacturing while reducing costs considerably. With this concept, Mitsubishi Electric provide industrialists with the ability to establish their factories in a way to fulfill the requirements of Industry 4.0. Prior to factory investment, it allows industrialists to shape their investments in accordance with the data received from factory and production simulation as a result of creating a virtual factory and evaluating efficiency."

Preventive maintenance cost is reduced, manufacturing quality is improved

Stating that in factories, it is very important to use and analyze manufacturing data in real time and coordinating such data with IT systems for digital transformation, Bizel said; "At this point Cube Enterprise Solution Platform incorporated into our e-F@ctory as the first step of digital transformation of factories provide necessary data processing between production area and IT system. Collecting production area data while analyzing data in offline mode and processing data for efficient analysis and using analysis results in real-time, this platform makes it possible to reduce preventative maintenance costs and achieve high quality production."

Real time analysis of data within a factory is possible



Stating that incorporated into Cube Enterprise Solution Platform, the industrial computer MELIPC can perform real time control that cannot be performed with general industrial computers, Bizel said; "with MELIPC that can perform device control and data processing at high speed with high precision, factory data can be analyzed in real time within the factory without the need to carry data outside. This way, cyber-threats are greatly eliminated. Thanks to the real-time analysis, decisions that must be taken in production lines can be made much more quickly. This system makes it possible to design each factory in accordance with its digital transformation needs." 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 endeavors to be a global, leading green company, enriching society with technology. The company recorded consolidated group sales of 4,444.4 billion yen (in accordance with IFRS; US\$ 41.9 billion) in the fiscal year ended March 31, 2018. For more information visit: www.MitsubishiElectric.com*

**At an exchange rate of 106 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2018.*

About Mitsubishi Electric's Activities in Turkey

Mitsubishi Electric's main fields of activity 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 neighboring 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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