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Mitsubishi Electric draws attention to digital and smart factories in Konya Branch of Chamber of Mechanical Engineers

Roadmap to Digital Transformation for Industrialists of Konya

Answering Industry 4.0 with its digital factory concept e-F@ctory, Mitsubishi Electric explained roadmap to digital transformation in manufacturing to industrialists of Konya in "Why Industry 4.0" panel, organized by Konya Branch of Chamber of Mechanical Engineers. Participating in the event as a speaker, Mitsubishi Electric Turkey Factory Automation Systems OEM Business Development Senior Manager Tolga Bizel underlined that industrialists need to increase manufacturing quality while reducing costs in order to gain power in export and to compete in global markets by manufacturing in global standards and stated that Turkey can rapidly catch up with Fourth Industrial Revolution, provided they take the necessary steps.



Organized by Konya Branch of Chamber of Mechanical Engineers in order to inform industrialists on the new industrial phase and to form cooperations, "Why Industry 4.0" panel took place on 25 April. Giving a speech on the event where topics such as Industry 4.0 phases, current

technologies in software and automation fields, qualified human resources and integration of workers in the new industrial revolution were discussed, **Mitsubishi Electric Turkey Factory Automation Systems OEM Business Development Senior Manager Tolga Bizel** explained the roadmap to digital transformation in manufacturing to industrialists of Konya. Bizel gave information about Mitsubishi Electric's answer to Industry 4.0, the digital factory concept, e-F@ctory.

"Costs must be dropped while manufacturing quality is increased"

Reminding us of the importance of the ability to compete at a global level in order to have sustainable manufacturing capability in Turkey, Tolga Bizel said, "In order for industrialists to make production in global quality and to compete in global markets, they have to gain power in exports and optimize costs while increasing production quality. At this point, it is important that they closely follow factory automation sector and make necessary infrastructure investments in order to adapt to new technologies rapidly." Saying that future is expected to be built on communication, Bizel stated that establishing high speed and quality communication systems will be even more important for companies. Saying that managing raw materials and resources more effectively will also prove beneficial for companies at this phase, Bizel ended his words saying, "In the new phase, we can say that one of the vital aspects is to make sure if solutions provided to industrialists are indeed compatible with Industry 4.0 or not. We believe it is important for the managers of Turkish business world to make in-depth research on what Industry 4.0 really is, and to train their teams within that context."

"Turkey can catch up with Industry 4.0"



Emphasizing that forming production lines that can meet the requirements of rapidly changing and personalizing human needs as rapidly and efficiently as possible in Industry 4.0 phase has become the most important item on the agenda, Bizel said, "In this phase, digital factories equipped with robot technologies gain

importance for increasing manufacturing power of Turkey." Stating that as Mitsubishi Electric they give Turkish industry the opportunity to build tomorrow's factories starting today, Bizel talked about the brand's answer to Industry 4.0, the e-F@ctory concept;

"At Mitsubishi Electric, we believe Turkey will rapidly catch up with Fourth Industrial Revolution. And we, as a competitive actor of the new industrial phase, provide Turkey with technological solutions to get ready for future's factory automation. Mitsubishi Electric's answer to Industry 4.0, e-F@ctory concept, shines forward as an evolutionary step that can increase speed, quality and efficiency in manufacturing while dramatically cutting down costs. Even more, e-F@ctory is not a new occurrence, despite Industry 4.0 only recently became a topic of discussion. Mitsubishi Electric has been using e-F@ctory concept in its own production lines since 2003, and reflects the experiences it had by doing so to its customers and products."

Age of information-based manufacturing

Stating that Mitsubishi Electric's e-F@ctory concept aimed towards installing reliable and flexible production lines helps users reach their aim of high speed and data based manufacturing, Bizel said; "We make it possible to increase speed and efficiency, reduce margin of error by monitoring processes in real-time, cutting down production costs and thus increasing business volume. With our ability to gather data from the devices on a production line, we help reduce energy costs while shortening the time required activation and installation processes with our fully integrated automation platform."

Real time usage of manufacturing data is important

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 that incorporated into Mitsubishi Electric's e-F@ctory concept, the Cube Enterprise Solution Platform is the first step towards the digital transformation of factories. Stating that this platform provides the processing of necessary data between manufacturing department and IT systems, Bizel said, "Analyzing data offline, this platform collects data from manufacturing areas, processes them for an efficient analysis and uses analysis results in real time. This way, makes it possible to reduce preventative maintenance costs and achieve high quality production."

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 stated this industrial computer can perform high speed and high precision device control and data processing. Emphasizing that this way, factory data can be analyzed in real time within the factory without moving the data outside and cyber-threats can be drastically reduced, Bizel said, "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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