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Mitsubishi Electric continues to support education as a pioneer of automation technologies

Mitsubishi Electric robot at the disposal of future engineers from KTU

Mitsubishi Electric donated a 6-axis industrial robot to Karadeniz Technical University (KTU) with a view to contributing to the raising of professionals who will steer the automation and high end robot technologies in the future. The robot which was introduced during the “Project Market from Thought to Reality” event which was organized at the university so as to expand the awareness as to the importance of R&D and innovation shall be an invaluable aid for engineering students at KTU in their practical courses and projects. Mr. Tolga Bize, Mitsubishi Electric Turkey Factory Automation Systems OEM Business Development Senior Manager, uttered a speech during the ceremony in which he explained e-F@ctory platform, Mitsubishi Electric’s response to Industry 4.0, as well as the latest developments with robot technologies before he acted as one of the members of the jury which evaluated the competing projects in the Project Market.

Mitsubishi Electric, recognized for its support in establishment of Robot Training Centres that are meant to raise engineers who will steer the future of industrial robot technologies which assume an increasingly more important role in industry, has recently donated a 6-axis industrial robot to Karadeniz Technical University (KTU). The new generation robot by Mitsubishi Electric was introduced during the “Project Market from Thought to Reality” event organized by KTU on June 7-9 for promoting the awareness on the

importance of R&D and innovation. While Mr. Kosuke Shamoto, Mitsubishi Electric Turkey FA Center Department Manager, was offered a plaque of appreciation by KTU, Mr. Tolga Bize, Mitsubishi Electric Turkey Factory Automation Systems OEM Business Development Senior Manager, acted as a lecturer and member of jury at the event. Taking part in the jury responsible for evaluating the projects competing at the Project Market, Tolga Bize provided the students with up-to-date information about the current status of Industry 4.0 and robot technologies in addition to anticipations for the future.



Age of digital factories integrated with high end robot technologies

Mr. Bize underlined that the most important agenda item of factories is to set up the production lines that are capable of meeting the rapidly evolving and customized human requirements in the fastest and most efficient manner under Industry 4.0. "In this phase, it is essential for Turkey to adopt digital factories integrated with high end robot technologies in order to promote its manufacturing power," he said. Heraldng that Mitsubishi Electric provides Turkish industry with the opportunity to establish the digital factories of the future right now, Mr. Bize continued to explain e-F@ctory platform, the corporate response to Industry 4.0:

"As a digital factory platform designed by Mitsubishi Electric in response to Industry 4.0, e-F@ctory is an evolutionary step that can result in significant cost savings in addition to increasing speed, quality and productivity in manufacturing operations. Furthermore, e-F@ctory is not that new although Industry 4.0 has come to the fore in recent years. Mitsubishi Electric has been using e-F@ctory platform in its own production lines since 2003, which enables it to offer the know-how derived from such usage to its products and services."

Age of robots collaborating with humans

Mr. Bizeł pointed out that the production lines in which production processes are performed based on the interaction between humans and robots prove to be more efficient than those solely making use of robots and continued: "Having performed the tasks independently in general terms until recently, the robots now collaborate with human beings. Assuming a critical role for manufacturing processes at factories, robots are becoming increasingly popular among various industries and turning into a regular workforce thanks to their high speed and other advantages. Robots are increasingly used in especially manufacturing industry in Turkey."

"Turkey will embrace Industry 4.0 with the young generation"

Mr. Bizeł said "We can see that Turkish industry is quite receptive to the Fourth Industrial Revolution. And, as an assertive actor in this new industrial phase, we are working for supporting the education of the young generation who will manage the automation technologies in the future. In addition to contributing to the establishment of "Robot Training Centres" at universities, we participate in various organized at universities throughout Turkey in order to share up-to-date information with the students. We aim to assist future engineers in adapting to the developments in technologies so that they can get ready for competition in the business world."



Mr. Bizeł underlined the fact that the new industrial phase requires human beings to improve their qualifications since the availability of human resources capable of using the new technologies is of utmost importance for enterprises before he concluded his speech saying: "Cyber physics systems make it obligatory to make heavy use of information technologies and internet. We believe that several new business disciplines will evolve in different industries as a result of the industrialization efforts initiated under the guidance of fundamental sciences. We expect that a better qualified work force with a higher income

level will come to the fore in the future. And the young generation will have to keep up with developments and gain more qualifications in order to be ready for the business world of the future.”

About Mitsubishi Electric Corporation

With over 90 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 4,238.6 billion Yen (US\$ 37.8 billion) in the fiscal year ended March 31, 2017. For more information visit: www.MitsubishiElectric.com*

** At an exchange rate of 112 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2017.*

About Mitsubishi Electric Turkey Operations

Mitsubishi Electric concentrates on sales and after-sales services for HVAC systems, factory automation systems, CNC-Mechatronics systems and advanced robot technologies in Turkey. In addition, the company provides support for satellite, elevator, visual data systems, power sources and transportation-based infrastructure projects. Mitsubishi Electric, the acknowledged manufacturer of Turksat 4A and 4B satellites contributing to communication and broadcasting infrastructure of Turkey and neighbouring countries, is also recognized for the automation technology used for Marmaray project. Having incorporated a company for development and manufacturing of room air-conditioners in Turkey in April 2016, Mitsubishi Electric intends to start manufacturing operations in Manisa plant by January 2018. For more information visit:tr.mitsubishielectric.com

About Mitsubishi Electric Turkey Factory Automation Systems

Mitsubishi Electric Turkey Factory Automation Systems division provides added value to leading industrial corporations in Turkey in a range of fields including automotive, foodstuff, packaging, metal and PVC processing machinery in terms of fast integration, efficiency, flexibility and productivity. It has adapted to “Industry 4.0”, the new industrial phase, with its digital factory platform known as e-F@ctory. For more information visit: tr3a.mitsubishielectric.com