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Mitsubishi Electric offers system integrators and equipment producers the solution package to guide the face mask production equipment

Great Support by Mitsubishi Electric to face mask producers

As the pandemic storms the entire world, sterile mask production and supply process has become more important ever. The pioneer of the factory automation industry, Mitsubishi Electric has mobilized its long-established know-how and high technology solutions to contribute in fight against pandemic all over the world and support business partners, accordingly launching the iQ Monozukuri FACEMASK solution package. This solution package which provides help in mask production equipment manufacturing is offered to equipment producers and system integrators all around the world. Technical Documentation and Operator's Manuals which describe the function blocks incorporated in the solution package, which consists of two different configuration for mask production, are publicly available at the global website of Mitsubishi Electric for free.



Standing out with its high technology solutions in many industries “from home to space”, Mitsubishi Electric has started to provide support to sterile mask producers which have an important role in this period of pandemic. iQ Monozukuri packages, located at the first step for the e-F@ctory applications, the Mitsubishi Electric's response to Industry 4.0, provide the best solutions for each of the processing, applications and equipment. Providing help in production of mask production equipment, iQ Monozukuri FACEMASK solution package is developed by the modification of the function blocks of iQ Monozukuri CONVERTING and iQ Monozukuri PACKAGING.

Mitsubishi Electric has made available publicly and for free the technical documentation which describes the function blocks for the devices to be used in the mask production equipment at its global website. iQ Monozukuri FACEMASK solution package is developed to provide a guidance for the equipment manufacturers thanks to sample configurations and projects.

Two different configurations created for the mask production equipment

Full-automatic equipment can be used for producing N95 type and several masks concurrently, and semi-automatic equipment for the plain mask production. iQ Monozukuri FACEMASK solution package describes the plain mask production for the semi-automatic equipment and provides following information among others.

Surface pieces, filter piece and nose strip are used as the mask production materials at the first stage of the plain mask production. At least four sensors are recommended for the iQ-R configuration offered as part of the solution package. These sensors are listed as signal sensor, edge sensor helping to avoid any misalignments in the mask production, sensors for surface piece finishing and filter piece finishing. In iQ-R configuration, surface and filter pieces are unwound by means of a servo-motor driving the unwinding axis. The feedback received from edge sensor via corner position axis are used to control the misalignment of the mask production material, and then main axis joins surface and filter pieces together sealing them vertically. Then, rotary cutters cut masks to a pre-defined size and then sends them to conveyor axis. After detected by the signal sensor, masks are attached with ear loops and sealed horizontally in the sealing axis to finish the mask production.

Operations for iQ-F configuration is same as those of iQ-R configuration, except the surface filter piece unwinding operations. Surface and filter piece unwinding operations and corner alignment operations must be carried out by equipment producer. Axes are controlled via Simple Motion module (servo motors). If different sensors will be used, then some modifications are required on the configuration as per these sensors. Both configurations allows easy intervention during the operation with the help of a graphic operator panel, and system can be monitored in real time.

In Turkey, team of Mitsubishi Electric Turkey Factory Automation Systems will provide the technical support for the solution package. Technical documentation and operator's manuals which describe the function blocks can be downloaded at the global website of Mitsubishi Electric for free.

https://www.mitsubishielectric.com/fa/assist/covid-19/iqmq_facemask.html

About Mitsubishi Electric Corporation

With nearly 100 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. Mitsubishi Electric enriches society with technology in the spirit of its corporate statement, "Changes for the Better," and environmental statement, "Eco Changes." The company recorded a revenue of 4,462.5 billion yen (U.S.\$ 40.9 billion) in the fiscal year ended March 31, 2020. For more information, please visit www.MitsubishiElectric.com*

**U.S. dollar amounts are translated from yen at the rate of ¥109=U.S.\$1, the approximate rate on the Tokyo Foreign Exchange Market on March 31, 2020*

About Mitsubishi Electric's Activities in Turkey

Main fields of activity of Mitsubishi Electric that stand out with its advanced technology solutions in various areas ranging from "Home to Space" 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 neighbouring 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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