

Flexible line integration delivered by modular Linear Transfer System and its Smart Carriages

Intelligent conveying system powered by on-board battery offers productivity advantages with unique safety concept

SPS IPC Drives 2017, 28th –30th November 2017, Nuremberg

Hall 7 / Stand 7-391

At SPS IPC Drives 2017 Mitsubishi Electric is presenting the latest developments of its modular Linear Transfer System (LTS) with Smart Carriage technology. The new versions of the Smart Carriages build on their existing technical advantages – including on-board intelligence and data memory, plus freely configurable tracks – but now include on-board battery power to enable even more productivity. Operator safety is also addressed without compromising productivity: as workers approach, the Smart Carriages will first slow down, and then stop, but only in the section where there is a potential hazard.

The innovative Linear Transfer System addresses industry challenges such as shorter response times to new market trends, increased demands for customisation, and cost pressures. It offers greater production line flexibility by using on-board intelligence and connectivity to allow each carriage to behave differently and autonomously. For example, the Smart Carriages can choose the optimum route to reach

next station and enable processing of the product being carried as they go along.

The new on-board battery system not only powers on-carriage devices such as sensors, controllers and memory, but also drives the carriage itself. This offers key advantages over alternative systems because it removes the need to draw power from the track and increases layout flexibility. There are also reliability benefits, since there are no brushes contacting the track to draw motive power for the carriage, which can create dust and requires frequent cleaning. This advantage offers reduced maintenance and also makes the system suitable for use in clean environments.

A new safety concept allows cage-free operation and increased productivity. The implemented safety features such as Safe Torque Off (STO) and Safety Limited Speed (SLS) in combination with sensors detect when an operator is nearing the conveyor system and slow the carriages to a safe speed – but only in the local area where the operator might come into contact. Elsewhere on the LTS, operation continues at normal speeds and productivity is not compromised.

With a full suite of track pieces in different lengths and bend radii, and with the carriages being based on proven Mitsubishi Electric technologies, users can quickly and easily build a complete linear transfer system to meet their individual requirements.

Further information:

eu3a.mitsubishielectric.com/fa/en/solutions/capabilities/scs

Note:

Learn more about Mitsubishi Electric's presence at SPS IPC Drives:

eu3a.mitsubishielectric.com/SPS

See how Mitsubishi Electric is able to respond to today's automation demands:

eu3a.mitsubishielectric.com/fa/en/solutions

Image captions:



Photo 1: The innovative Linear Transfer System offers greater production line flexibility by using on-board intelligence and connectivity to allow each Smart Carriage to behave differently and autonomously.

[Source: Mitsubishi Electric Europe B.V., Getty Images]

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With over 95 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation is a recognised 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, as well as in products for the energy sector, transportation and building equipment.

With around 138,700 employees the company recorded consolidated group sales of Yen 4,238.6 billion (\$ 37.8 billion*) in the fiscal year that ended on March 31, 2017.

Our sales offices, research & development centres and manufacturing plants are located in over 30 countries.

Factory Automation – European Business Group

Mitsubishi Electric Europe B.V., Factory Automation - European Business Group (FA-EBG) has its European headquarters in Ratingen near Dusseldorf, Germany. It is a part of Mitsubishi Electric Europe B.V., a wholly owned subsidiary of Mitsubishi Electric Corporation, Japan.

The role of FA-EBG is to manage sales, service and support across its network of local branches and distributors throughout the EMEA region.

**Exchange rate 112 Yen = 1 US Dollars, last updated 31.03.2017 (Source: Tokyo Foreign Exchange Market)*

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