Electrified floor track systems from Eisenmann, with contactless power and data transmission

Böblingen/Stuttgart (Germany), February 10, 2015 – Plant engineering expert Eisenmann presents a dual-rail floor track systems with contactless power and data transmission at this year’s LogiMAT trade show in Stuttgart. The solution offers an alternative to conventional power and data transmission via conductor lines. It is suitable for applications where sparks and abrasion are unacceptable. Eisenmann can also equip electrified monorail systems with this low-maintenance version, where desired.

Eisenmann fitted the dual-rail floor track systems of a Chinese tobacco manufacturer with a contactless power and data transmission system at the customer’s request. As explosive mixtures of substances sometimes arise during tobacco processing, it was necessary to reliably eliminate the risk of sparking. The contactless transmission system is free of mechanical abrasion and does not need galvanized contacts. Like all Eisenmann electrified conveyors, the system is exceptionally quiet. It is not only employed in potentially explosive atmospheres, but also in the pharmaceutical sector, in cleanrooms and in cold rooms.

A useful alternative to continuous conveyors, Eisenmann dual-rail floor track systems are deployed in diverse industries. The trolleys can accelerate at 0.8 meter per second, travel at speeds of up to three meters per second, and can carry loads of up to 1.5 metric tons. The trolleys each have their own control unit, move around the track system automatically, and perform their tasks autonomously. Intelligent spacing enables handling of highly complex material flows. As a result, more than 450 pallets per hour can be moved in and out of a high-bay warehouse.

A diverse range of load carriers can be deployed to meet application-specific requirements, including roller or drag chain conveyors, and passive load carriers. The system’s extremely low profile enables a transfer height
of as little as 500 millimeters. The robust rail system has a very small footprint and a low load per square meter. With over six decades’ experience in production systems engineering, Eisenmann creates custom solutions based on electrified conveyor systems for material flow tasks of all kinds. Conventional or contactless drive and transmission solutions can be employed, in line with the nature of the application.

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Eisenmann is a leading global industrial solutions provider for surface finishing, material flow automation, environmental engineering and thermal process technology. The company develops and builds custom manufacturing, assembly and logistics plants that are highly flexible, energy- and resource-efficient. The family-run enterprise is headquartered in southern Germany and has been advising customers across the globe for over 60 years. Today, Eisenmann has a workforce of approximately 3,800 worldwide, with subsidiaries in Europe, the Americas and the BRIC countries. In 2013, Eisenmann generated annual revenues of 903 million euros, with total sales revenues of 774 million Euros according to German commercial code.
Images

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