SURPRISINGLY INGENIOUS

Advanced Manufacturing for the Italian Railway

Wednesday, 14th April

10.00 – 15.00

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PROFILE

With reliable solutions, Frauscher Sensor Technology provides and manages relevant information, to make rail operations easier and more efficient. Best-in-class wheel detection systems and axle counters based on inductive sensor technology are essential components for a wide range of applications. Frauscher offers comprehensive support and individual trainings so that customers are able to design, configure, install, adapt and maintain all components and systems by themselves. The company's products are in use in more than 100 countries worldwide and in all rail segments - from main lines and urban mass transit to industrial infrastructures.

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PROFILE

GMUNDNER FERTIGTEILE, a specialist in precast concrete components, has been developing and producing innovative overall solutions since 1972. They are valued throughout the world for their reliability and durability in various load situations and climatic zones.
The BODAN level-crossing system creates crossings for road traffic while at the same time fulfilling the complex requirements of rail transport. The elastically suspended plates of polymer concrete are laid like a bridge and extensively dissipate the traffic loads from the road into the ballast bed.
The excellent life cycle, minimal installation work and low maintenance costs speak for themselves. BODAN has convinced its users in more than 20 countries worldwide – from pedestrians to heavy goods vehicles.

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PROFILE

JOANNEUM RESEARCH Forschungsgesellschaft mbH is a business-oriented provider of innovation and technology. More than 250 experts work in the strategic area of "Information and Production Technologies" on innovative solutions to support the digital transformation in manufacturing, the optimisation of manufacturing technologies and processes (generative manufacturing) and robotics. Relevant examples for the railway sector are the creation of digital twins of the infrastructure, optical quality inspection, acoustic vandalism detection and the improvement of manufacturing processes through laser and plasma technologies. These solutions enable automated condition and risk assessment as well as optimised maintenance.

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PROFILE

The Kruch Railway Innovations company is a globally operating business based in Vienna, Austria. Kruch has expertise in two main fields: Highly specialized, life-cycle-cost optimised components for overhead contact lines and systems for digitalising overhead contact lines.
These fields include trendsetting products such as:

- Simulation tools for the energy flow in contact lines
- Automatised checkpoints for trolley bus pantographs
- Cost-optimised cantilever systems
- Hanger clamps and feeder clamps for catenary systems

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PROFILE

Leading in Insulation Technology as a leading international provider of customised insulating solutions, KUVAG offers a wide range of products in the field of traffic engineering. On one hand the KUVAG Group combines technological leadership with the highest standards of quality, on the other an exceptional flexibility in meeting specific needs with long-term experience in the development and serial production of innovative products. The components made of epoxy resin, SMC, silicone, thermoplastics and composites with glass and aramide fibres satisfy the customers' highest demands. Superior engineering is the key success factor in transport technology and the strength of KUVAG. The products are reliably in use for millions of passengers every day.

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PROFILE

PENGG KABEL GmbH is a traditional Austrian company with two production sites in Styria. At these sites the company produces cables - copper telecommunication cables, railway signalling cables and fibre optic cables – as well as the whole range of passive fibre optic system components for the telecommunication and railway industry. In addition, PENGG KABEL GmbH offers assembly services in the field of copper as well as fibre optic technology, which ideally complement their range of products. As a full-service supplier in the field of passive telecommunications infrastructure, the company is available for their customers at any time.

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PROFILE

Innovation in Switch Point Construction With Austroroll® the company reduces downtime, increases track availability and - at the same time - lowers maintenance costs for its customers. Austroroll is a maintenance-free switch point roller that stands out because of its impressive robustness, simple assembly and high operational efficiency. It is the only permanent flexible switch point roller in the world and has a 5 year warranty. Its significant advantages are that the resulting switch throwing force is drastically reduced and it is no longer necessary to lubricate the slide plates. This minimises both operating costs as well as switch point malfunctions and protects the environment. Now also for swing-nose crossings.

NOTES

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