News Release

Oerlikon Metco IIoT transforms thermal spray systems with a digital solution that significantly boosts production and quality control

June 22, 2023 – Paris and Wohlen, Switzerland – Oerlikon Metco is revolutionizing thermal spray equipment with digitalization and the implementation of Metco IIoT, the first Industry 4.0 platform for the thermal spray industry. Oerlikon has been developing thermal spray equipment for decades, and they understand the relationship between machine, material and processes and how these factors can affect both output and coating quality.

Now they have used this expertise to develop Metco™ IIoT, the first digital platform that allows to connect thermal spray systems within an Industry 4.0 platform, enabling a Smart Thermal Spray Factory. The aim is to understand the production process through data analysis and monitoring in real time and to improve it based on this information. This enables simpler, faster and more efficient operation of machines and production systems, reducing the scrap rate and increasing throughput.

“Optimized concepts for preventive maintenance (predictive maintenance), improved operator guidance and paperless production are key requirements for future-proof production and Metco IIoT does just that,” states Alexander Mohnfeld, Oerlikon’s Head of Product and Project Management Equipment.

To do this, Metco IIoT consolidates process-related machine data from one or more systems on a central platform. Raw data for further analysis, for example in the case of quality problems, is therefore available at any time without having to physically access one or more machines. The real-time status is displayed regardless of the number of spray systems or locations—and regardless of geographic location—allowing you to quickly identify errors, optimize systems and processes, and achieve reliable repeatable results. For example: Metco IIoT's data analysis capabilities make it possible to detect downtime; compare machines; even locations; track quality-related indicators; and more.

Data can be stored locally or in the Metco IIoT Cloud Service for historical analysis and quality control, depending on customer requirements. Metco IIoT is currently available for the MultiCoat, MultiCoatPro, and UniCoatPro, with plans for expansion to other systems.

Visit Oerlikon at the Paris Air Show, June 19-25, Booth E157 Hall 2B
For interviews or more information, please contact us.

About Oerlikon Surface Solutions Division

Oerlikon is a leading global provider of surface and additive manufacturing solutions and services. The division offers an extensive portfolio of market-leading thin-film, thermal spray and additive manufacturing technologies, equipment, components and materials. Emission reduction in transportation, maximized longevity and performance of tools and components, increased efficiency and intelligent materials are hallmarks of its leadership. Pioneering technology for decades, the division serves customers with standardized and customized solutions across a worldwide network of more than 170 sites in 37 countries.

With its technology brands – Oerlikon Balzers, Oerlikon Metco and Oerlikon AM – the Oerlikon Surface Solutions division focuses on technologies and services that improve and maximize performance, function, design, reliability and sustainability, which are innovative, game-changing advantages for customers in the automotive, aviation, tooling and general industries and in the luxury, medical, semiconductors, power generation and oil & gas markets.

The division is part of the publicly listed Oerlikon Group (SIX: OERL), headquartered in Switzerland, which has 13,000 employees and generated CHF 2.9 billion in revenue in 2022.
For more information see: www.oerlikon.com/surface-solutions

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Metco IIoT is a digital platform designed for the thermal spray industry: It helps to understand the production process through data analysis and monitoring in real time, and to improve it based on this information. This leads to simpler, faster and more efficient operation, reducing the scrap rate and increasing throughput.