

PRESS RELEASE

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SMS group presents digitalization-driven potentials at the leading trade fair for the aluminum industry held in Düsseldorf

New impulses for the aluminum industry



Focus on digitalization - SMS group at the ALUMINIUM trade fair in Düsseldorf (hall 9, booth No. 9C20).

During the “ALUMINIUM 2018” trade fair, from 9 – 11 October 2018, Düsseldorf, will once again be in the limelight of the global aluminum industry. SMS group is going to focus its trade fair presence in hall 9 (booth number 9C20) on digitalization and on the momentum Industrie 4.0 and digitalization have on the aluminum

producing and processing sectors.

One of the highlights will be the presentation of the Anti Chatter Device for cold rolling mills. This device reduces vibrations occurring in rolling mills, especially in tandem mills. Such vibrations may lead to defects of the rolled stock and damage to the rolling equipment. By reducing the chatter effect, it is possible to increase the rolling speed and the yield while improving the product quality. This pioneering technology is already in use in a first pilot operation. SMS group will also present the X-Shape flatness measuring roll. With its closed roll surface, high-precision flatness measurement capabilities and optical signal transmission, this system plays a key role in cutting-edge measuring and control technology for premium quality cold-rolled aluminum strip.

The data collected by means of intelligent sensor technology is used by SMS group not only to control the plant, but also to digitalize comprehensive production and business processes. An example of this is the PQA[®] (Product Quality Analyzer), which collects all relevant production and process data, analyzes the data in a continuous manner based on specified rules, provides instructions for action in case of deviations from the specified quality, and evaluates the products after each process step with regard to their suitability for the next step and the attainment of the quality specified for the final product. All this makes PQA[®] an essential digital tool for quality management.

In terms of service and maintenance, digitalization opens up new possibilities for the entire life cycle of a plant. “Smart Maintenance Solutions” aim at increasing the availability of the plant and the quality of the final products in a sustainable manner by combining various software solutions. In the future, digital plant structures will provide maintenance and repair teams with centralized access to all relevant parameters. The required information will become available from systems such as eDoc, an electronic parts catalog, the IMMS[®] (Integrated Maintenance Management System) or Genius CM[®] (Condition

Monitoring). SMS group is also going to demonstrate the link between “smart” data and “smart” training an augmented reality environment. Those participating in training benefit from the use of virtual and augmented reality in the form of enhanced learning. For example, complex maintenance work can be immersed in and experienced much more realistically.

Another momentum from digitalization and Industrie 4.0 takes effect in the field of manufacturing technology. At the trade fair, SMS group is going to demonstrate this by way of the example of 3D-printed components which are characterized by enhanced functionality, reduced weight and/or shorter lead times. SMS group is also going to present the competence center for 3D printing in Mönchengladbach, which includes the pilot plant for the production of high-purity metal powder built last year.

In addition to the presentation of their own digital developments, SMS group invites customers and partners to talk about their successful cooperation with SMS group during the implementation of new plant projects, modernization projects or during technical service assignments. In the run-up to the trade fair, further information on the program is available on our micro-site: www.sms-group.com/aluminium2018.

SMS group is a group of companies internationally active in plant construction and mechanical engineering for the steel and nonferrous metals industry. It has some 14,000 employees who generate worldwide sales of about EUR 3 billion. The sole owner of the holding company SMS GmbH is the Familie Weiss Foundation.