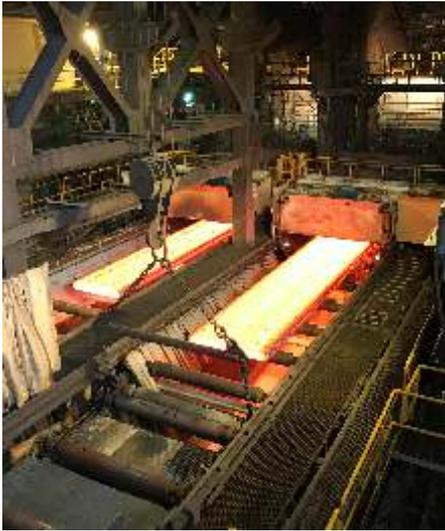# SMS group successfully designs and installs the world's first High Definition spray system

The new HD (High Definition) spray technology from SMS group was implemented and successfully commissioned in the two-strand slab caster at ArcelorMittal Bremen during November and December 2017.

SMS group retrofitted the two strands of the vertical bending caster one after the other and put them back into operation within one month of one another. The goal of the retrofit was to improve secondary cooling and slab quality.

At ArcelorMittal Bremen, 220-millimeter-thick steel slabs are cast with a maximum width of 2,670 millimeters.

Kai Küstner, Project Manager for the caster retrofit at ArcelorMittal Bremen: "We are very satisfied with the HD spray technology. The SMS group team was very committed and supported our trusting cooperation. This enabled smooth commissioning."

The HD spray system developed by SMS group is a scalable water distribution and control system which – compared to conventional solutions – requires far less space and pipework.

The SMS group concept of control circuits across the width of the slab that can be individually activated and deactivated is already being successfully applied in a great number of plants. The HD spray technology newly developed by SMS group offers ArcelorMittal Bremen a variety of additional benefits. Compact HD spray boxes fitted close to the spray nozzles, and not in the water distribution room, take over the function of control valves. This helps to significantly reduce the required interconnecting pipework.

Pneumatically operated pressure control valves and the related automation system form the centerpiece of the HD spray system. The secondary cooling water is distributed and controlled only just before the cooling nozzles. This makes negative influences such as long control lines or pressure losses a thing of the past. What's more, the use of HD spray in combination with an air-water cooling system reduces process air consumption by 30 percent.

SMS group's scope of supply comprised the entire basic and detail engineering, delivery and erection of the HD spray system and the new segment piping, as well as supervision of the commissioning.

ArcelorMittal Bremen produces over 3.5 million tons of flat steel every year. Europe's leading automobile manufacturers are among its most important customers.

CMI has been chosen by JFE Meranti Myanmar as the supplier

In January 2018, the venture, JFE Meranti Myanmar has ordered two high performance processing lines from CMI Industry Metals, an international technology provider for the steel and metals industry, with headquarter in Belgium. The new continuous hot-dip galvanizing (CGL) and color coating lines (CCL) are to be erected in Myanmar's Thilawa Special Economic Zone.

With this investment JFE Meranti Myanmar, that is held by a Singapore-based holding company, owned by JFE Steel, Meranti Steel, JFE Shoji, Marubeni-Itochu Steel and Hanwa, is going to cater for the steadily growing steel demand in Myanmar, and reduce the percentage of steel products that are currently imported into the country. The hot dip galvanizing

line capacity will reach 180,000 tons/year and the color-coating line a capacity of 90,000 t/y.

The new lines, aiming at a high level of production flexibility and strip quality, feature the full spectrum of CMI's process technologies: Multi-stage cleaning sections and ultralow emission furnaces.

Next to a twin pot system to enable both zinc and zinc-aluminum coatings, the CGL line additionally features CMI's patented jet cooling system with energy recovery, Air-Knife and APC Blow stab low vibration cooling system, as well as an Inline skin pass mill and Tension leveler, Chemical roll-coat post treatment, and rotary Exit shear. While the galvanizing line is planned to begin operation early 2020, the color coating line is supposed to enter into operation at the end of 2019.

This project further strengthens CMI's leading position for the complete supply of high performance processing lines.