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Press release

KOCKS intermediate block replaces traditional intermediate mill

Successful integration of 3-roll intermediate Block at Nucor Steel

The steel producer Nucor Steel Nebraska in the U.S. has successfully rolled the first bar on its new KOCKS intermediate Reducing & Sizing Block. The so-called iRSB[®] represents one of the latest advancements in KOCKS' long product production technology and has been designed to increase flexibility in Nucor's rolling mill. Additionally, its design minimizes potential trouble spots and improves safety for operators. Following the successful commissioning, the Final Acceptance Certificate (FAC) was signed only three weeks after the first bar was produced through the block.

Nucor Steel Nebraska, based in Norfolk, is a division of Nucor Steel Corporation, which is the largest steel producer in the U.S. The investment is part of a greater commercial strategy to align the product mix with current and future demand of customers and will reinforce Nucor as a leader in engineered bar and rod. The selection of the iRSB[®] was based on the substantial improvement of the whole rolling mill concept with regard to quality, flexibility, productivity, and process safety.

With the KOCKS 3-roll intermediate block, new, more sophisticated material grades can be most flexibly rolled and enhance the steel producer's product portfolio without major changes to the overall layout of the rolling mill. The KOCKS 3-roll iRSB[®] 370⁺⁺/8 replaces eight traditional 2-high stands, providing pre-sections in a tandem arrangement for the existing RSB[®] 370/5, which has been successful in operation since 2005.

KOCKS also supplied the roll-shop equipment and its software solutions. Furthermore, the RSB[®] is equipped with the KOCKS profile measuring gauge 4D Eagle[®] and is also connected to KOCKS' Size Control System (SCS[®]), which allows real-time adjustments of the operating parameters of the rolling block. This enables transparent process monitoring and the quickest possible process adjustments.

Image Caption: First bar rolled on KOCKS iRSB® 370⁺⁺/8 followed by the FAC at Nucor Steel Nebraska.



KOCKS Group:

The KOCKS Group, headquartered in Germany, is a global supplier of rolling mill equipment for sizing applications. Founded in 1946, KOCKS has become a globally recognized brand. The KOCKS 3-roll technology has gained the company a reputation as an innovator. The core competencies include consulting, planning, development, design, supply, assembly and commissioning of rolling mills and automation solutions as well as modification and modernization of existing rolling mills.