Danieli Universal Endless (DUE®) The new evolution of Danieli thin slab casting and rolling plant

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Content

Over the last 25 years the thin slab casting and rolling process has been gaining a major market share in the production of hot rolled strip, progressively eroding the areas previously of exclusive domain of conventional mills. This is mainly thanks to the competitiveness of the process over conventional ones, and to the growing ability of this technology to cover the majority of market niches, well beyond the boundaries of the commodity market. After having significantly contributed to the continuous expansion of this production mode and after an extensive campaign of research and physical testing in reference plants, Danieli has progressively developed over the years a new generation of thin slab casting and rolling layout, marking a new phase in the evolution of this process. The new step-ahead is a new development within the Quality Strip Production (QSP) family, which is the Danieli’s strip-quality-oriented thin slab based plants. What makes this new concept different is the ability of “universal” rolling modes thanks to the fact that, now, within one single plant it is possible to perform different rolling modes, making this plant a major technology innovation compared to the previous generation. This new approach can be seen as the natural evolution of the original, successful Danieli concepts that marked the progress of the thin slab route, namely the application of the vertical curved design thin slab caster and the separation of the rolling stands into high reduction units and finishing units. Since the beginning they have represented the fingerprints of Danieli QSP technology and have become a source of inspiration for most of the recent innovations in the industry, confirming the advantages of the Danieli’s original concept.

Keywords QSP, Danieli Thin Slab Casting and Rolling, Evolution, DUE®, Semi-endless, Endless

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