

Cold-Formed Steel Structures

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Introduction

Because of the recent increase and variety in business activity handling the usage of cold-formed steel structures within the housing industry, the research community working with this sort of structure has been faced with new challenges. This has fostered a reasonably sizable amount of considerable advances in structural engineering topics associated with cold-formed steel applications. The aim of this special issue of the Journal of Structural Engineering is to place together, during a single comprehensive issue, a stratified sample of the most recent and most relevant analytical, numerical, and experimental original research dedicated to investigating the behavior and style of cold-formed steel structures round the world. Indeed, this issue includes contributions from researchers working in 13 countries, located on four continents. A special feature of Sundwig S6-high rolling mills are the side-supported work rolls. The patented

Sundwig S6-high side support stabilizes the work rolls during this type of mill stand using mechanical, hydraulic lateral support equipment, thus preventing lateral excursion of these rolls. The diameter of the S6-high work rolls is merely approximately 30% of the diameter of the 4-high work rolls and double the diameter of these work rolls usually found in a 20-high steel mill for comparable strip widths. These small work rolls combined with the rugged stand and open design of the lateral support facilitates high pass reduction and transfer of high rolling torques for annealed and pickled, hot-descaled, or black strip.

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