

# Nucor Brandenburg MultiPlate: The Most Advanced Plate Mill of America



## Authors

**Antonio Comelli** (top left), Sales Manager, Flat Rolling Technology, Danieli & C. Officine Meccaniche S.p.A., Buttrio, Italy  
a.comelli@danieli.it

**Lorenzo Lusina** (top right), Executive Manager, Projects, Danieli Corp. USA, Cranberry Twp., Pa., USA  
l.lusina@danieli.it

**Marco Mossutti** (bottom), Sales Manager, Electrics & Automation, Danieli Automation S.p.A., Buttrio, Italy  
m.mossutti@dca.it

The Danieli MultiPlate is a single facility that can produce wide heavy plates, light discrete or coiled plate with yield strengths up to 1,800 MPa. It is configured in a layout that can process both ingots and slabs, can make straight or cross-rolling and can roll in flat as well as Steckel mode. The plant configuration includes Danieli equipment for in-line quenching and a multipurpose leveler to cover a product portfolio to serve the construction, energy, oil and gas, mining, and defense industries. The latest installation at Nucor Steel Brandenburg establishes a new benchmark in plate production worldwide.

## Introduction

The long-standing partnership and collaboration between Nucor and Danieli has created many successes over the years. Today, both teams are proud to declare another accomplishment, with the successful start-up of the 1.2-million-tons-per-year plate mill complex in Kentucky.

Nucor Corp., the largest steel producer in North America,<sup>1</sup> is now operating the largest plate mill complex of its kind in America, and the widest plate/Steckel mill in the world.

## Discussion

### Project Figures

The numbers give an indication of the magnitude of this project: Over 450 acres of land transformed from greenfield into steel complex; over 1,500,000 million square feet under roof; more than 30,000 tons of equipment supplied by Danieli; and 260,000 cubic yards of concrete and civil work underline the scope of the investment, along with the effort devoted to the installation.

The project was well into the manufacturing phase when the world was paralyzed by the COVID-19

Figure 1

Greenfield area prepared for the mill.

