



**NEW 3200 mm
PLATE-STECKEL MILL**

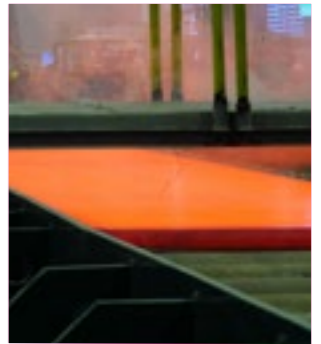
AHMSA - ALTOS HORNOS DE MÉXICO,
S.A.B. DE C.V.

NEW PLATE-STECKEL MILL

COMPLETE PLATE MILL SOLUTIONS

TECHNICAL HIGHLIGHTS FOR PRIMETALS NEW PLATE-STECKEL MILL

- Flexible production unit for a range of grades including high strength line pipe plate
- Exact tolerances for temperature and geometry for the entire plate / strip length by multi-setpoint strategy
- Fast processing of widely differing plates / strips by analytic online process models and neural networks
- Automatic mill pacing for highly productive rolling



In March 2007, Primetals Technologies received an order to supply a new Plate-Steckel rolling mill to AHMSA - Altos Hornos de México, S.A.B. de C.V.

This was the first major hot rolling mill project in Mexico for a number of years. Once complete, the project will boost the product portfolio and production capability of AHMSA.

MAIN TARGETS OF THE INSTALLATION

The nominal annual production capacity is 1,000,000 tonnes of hot rolled products, of which 750,000 tonnes is hot rolled plate and 250,000 tonnes is hot rolled coil. To maximise product quality and productivity, Primetals Technologies have included a number of patented technological features.

Primetals Technologies were specifically responsible for:

- Engineering design and co-ordination for the Plate-Steckel Mill process technology
- Technical services including training
- Auxiliary equipment management
- Complete electrical and automation for Furnace, Mill and Shearing Line

The first plate and the first wide coil were rolled in the second quarter of 2013 at which time the commissioning period started in preparation for rolling many different grades of materials including API pipeline grades.

DESIGN DATA

PLATE-STECKEL MILL

Plate thickness	4.5 - 50 mm
Plate width	1,600 - 3,200 mm
Plate length	6 - 40 m
Maximum rolling force	80,000 kN
Work-roll diameter	915 - 1,010 mm
Motor power	2 x 8,000 KW
Roll bend force	2,500 kN/side
Rolling speed	0 - 11.0m/s

PRODUCTION DATA

PLATE-STECKEL MILL

Annual Production	1.0 Mtpy (hot rolled product)
	750,000 tonnes hot rolled plate
	250,000 tonnes hot rolled coil
Products	Structural Steels
	Pipeline Steels
	Shipbuilding Plate

SCOPE OF SUPPLY

- Coiler Furnaces and Pinch Roll Units
- Edging Mill Stand
- Plate - Steckel Mill Stand inc SmartCrown®
- Rotary Crop Shear
- Laminar Cooling Systems
- Downcoiler
- Hot Leveller
- Cooling Beds: 2
- Shear Line
- Basic & Process Automation from Furnace to Shearline
- Main & Auxiliary Drive Systems
- Commissioning
- Training

Primetals Technologies Limited

A joint venture of Mitsubishi Heavy Industries and partners

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Brochure No.: T04-O-N089-L4-R-V2-EN

Printed in Austria

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