

CleanStrip

CLEAN STEEL
CLEAN PROCESS
CLEAN ENVIRONMENT





CleanStrip Process

Machinery Supplier: SMS Demag Ltd.

(formerly Pro-Eco Ltd.) - Canada

Investment

: Approx. 1.0 billion baht

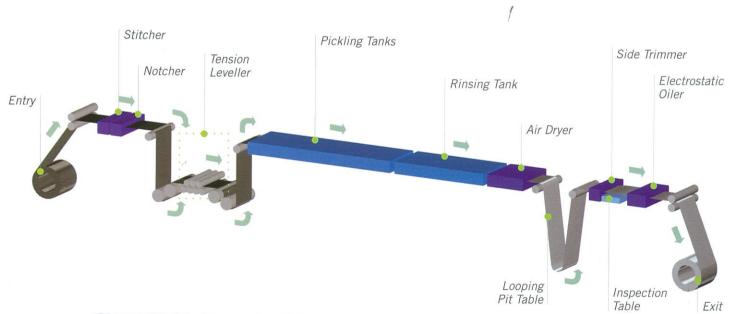
Capacity

: Maximum 1.0 million tonnes

per annum

Special facilities equipped in CleanStrip's Pickling and Oiling Line

Facility	Function	Value to customers
Strip Stitcher	Connect strips to run in continuous mode	Better pickling quality throughout the strip length
Tension Leveller	Improve strip waviness	Completely flat strip outcome
Turbo Tunnel Pickling	Circulate acid to homogenize its concentration	Better pickling quality throughout the strip length
Stain Free Rinsing	Secure clean water in rinsing tank	Stain free product
Electrostatic Oiling	Secure homogenized oiling to strip surfaces	Better oiling film for longer rust preventing
Edge Trimmer	Trim-off strip edges (upon request)	Ready strip width for customer usage
Acid Regeneration Plant	Regenerate used acid to secure fresh acid to the line	Better pickling quality throughout the strip length



CleanStrip Characteristics

Specification

Specific coil weight

Coil inside diameter

Coil outside diameter

Oil type

Edge trimming

Skinpass surface

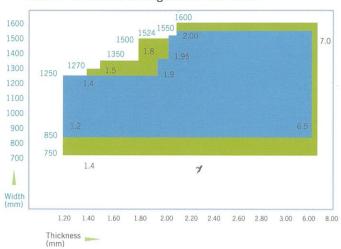
Dimension & tolerance

- : Available for all international standards
- : Maximum 20 kg/mm width
- : 508 mm (20") or 610 mm (24") at customer option
- : Maximum 2,100 mm
- : Light and clear oil
- : Available on request
- : Available on request
- : As per reference specification

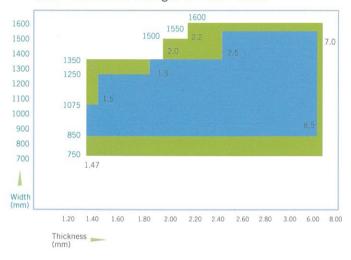
CleanStrip Size Available



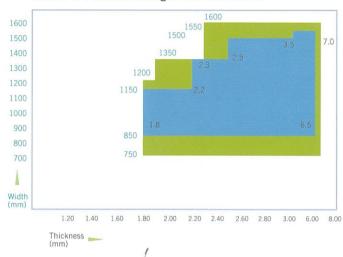
Class # 1: Tensile Strength 290-400 N/mm2



Class # 2 : Tensile Strength 400-500 N/mm²



Class # 3 : Tensile Strength 500-650 N/mm²

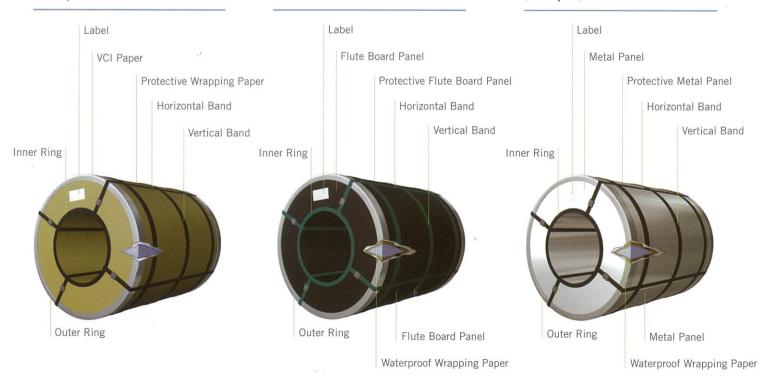


Packing

Type # 1 : Paper Packing (mainly for domestic)

Type # 2 : Hard Plastic Packing

Type # 3 : Steel Packing (for export)

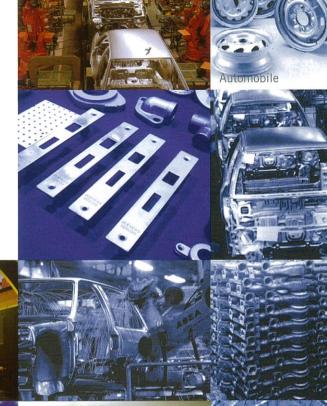


CleanStrip Application

Automobile Mechanical Tube Electrical Appliance Furniture Structure









Electrical Appliance



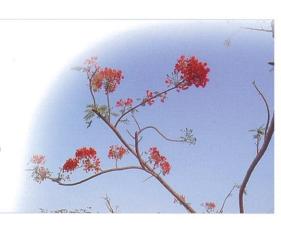
Mechanical Tube







MAIN MISSION TO MAINTAIN **ENVIRONMENT**





- ISO 14001 Environmental Management System

- Clean Technology Certificate

2001

- The Prime Minister's Industry Award 2001 for Environmental Management

- The 2001 National Award in Safety, Occupational Health, and Workplace Environment

- The Environmental Impact Assessment 2001 (EIA Awards)

2002

- TIS 18001

- The 2002 National Award in Safety, Occupational Health, and Workplace Environment

2003

- The Prime Minister's Best Industry Award

- The 2003 National Award in Safety, Occupational Health, and Workplace Environment

2004

2005

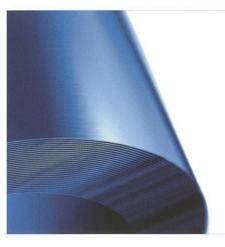
- The 2004 National Award in Safety, Occupational Health, and Workplace Environment

- The 2005 National Award in Safety, Occupational Health,

and Workplace Environment







LEADER OF QUALITY STEEL, PRODUCTS IN SOUTHEAST ASIA





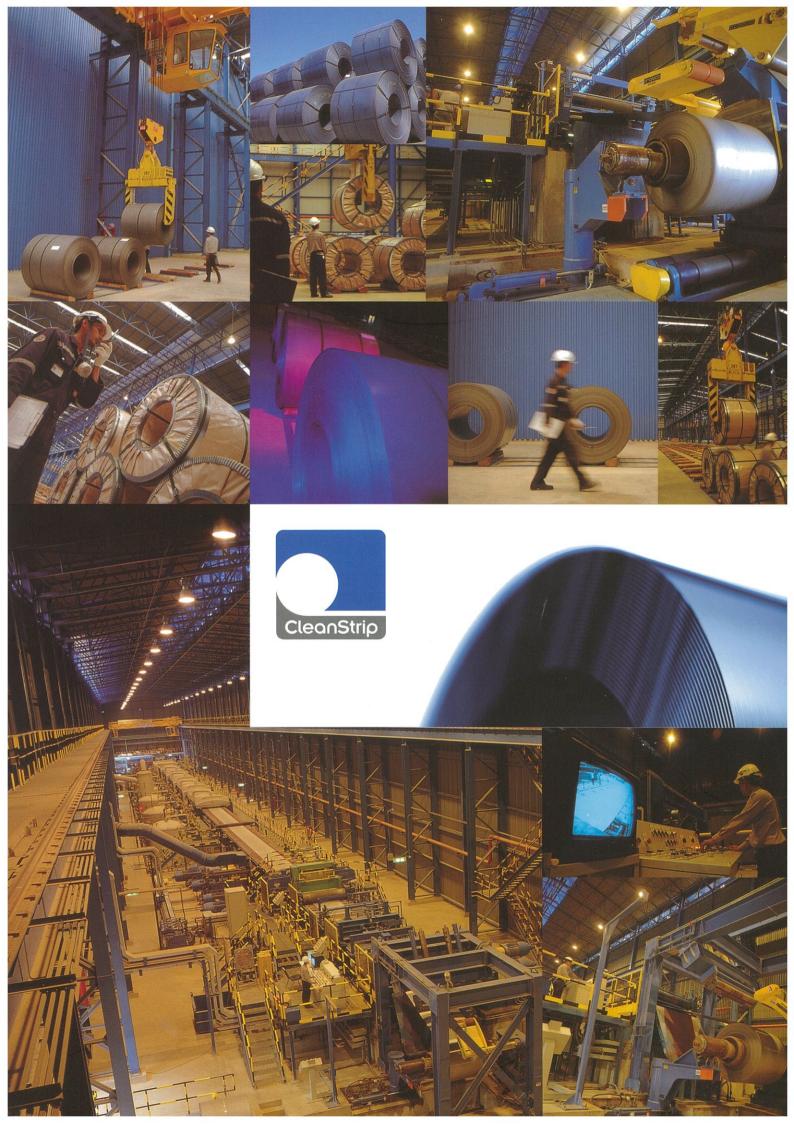
CleanStrip - Another Step of Success

Operating a modern stand-alone hot strip mill with a capacity of 4 million metric tonnes per year (MMTY), Sahaviriya Steel Industries Public Company Limited, or SSI, is the largest hot rolled steel sheet in coil producer in Thailand. To supply our products with excellent quality and full customer satisfaction, SSI is fully committed to develop our hot rolled sheet product to serve various markets continuously. 90% of our hot rolled coils produced annually are delivered to local customers in the form of finished products for use in automobiles, steel structures, steel pipe, home appliances and a variety of other products. A portion of that hot rolled steel sheet output is further processed into value-added products such as cold rolled steel sheets and galvanized steel sheets.

In response to increasing demand for high-grade specification products, SSI has invested in a Pickling and Oiling Line (P/O Line) with an investment of about Baht 1,000 million, located in the same area of our Hot Strip Mill in Bang Saphan steel complex. This **CleanStrip**, high-grade product, is recognized as a product with special clean surface quality, widely used in variety of applications such as automobile, electrical appliance, furniture, pipe, and mechanical tube.

With the state-of-the-art push-pull pickling technology, SSI can produce upto 1.0 million metric tonnes per annum of **CleanStrip**, with 1.20 to 6.50 mm in thickness and 650 to 1,650 mm in width to serve all international specifications. The entire manufacturing process is computer-controlled so as to make products that meet our customers' demands. In addition, fully automated facilities improve precision and product quality.

Under ISO 14001 environmental management system, SSI is dedicated to environmental conservation ensuring a lasting harmony in the community where we operate. Environmental-friendly process and clean technology is selected as priority with the aim of zero-emission in mind. This is reason why an additional investment in Acid Regeneration Plant (ARP), which regenerate and recycle the acid in close-loop system with no discharge to the environment, had been decided. At the same time we strive to contribute to society and community through activities including environmental protection, working with environment-related organization and volunteer activities to support for the rehabilitation of mangrove forests.





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