Steelscape Inc in Kalama, WA, USA has successfully installed Stressometer flatness control system

Steelscape’s 4-hi single stand reversible mill running with a Stressometer 7.0 FSA system, controlling the flatness on both entry and exit sides.

Choice makes the difference
Steelscape is owned by BlueScope Steel Limited and Nippon Steel Corporation with steel assets throughout the world. Steelscape offers customers an endless combination of choices. Customers may order their steel bare or painted; passivated, oiled and/or resincoated; in a wide range of thicknesses, widths, grades and coating weights. Vertically integrated processing means higher quality.

Steelscape is the only coated-steel producer in the western United States that can process the raw material (hot band coil) – from pickling to painting – in its own facilities. Such vertically integrated processing results in shorter lead times, lower cost and greater consistency in quality for the customer. Our facilities are strategically located to best serve the West Coast and South East coated steel markets. Our facilities are equipped with state-of-the-art testing equipment.

Each coil is monitored and tested during every stage of the coating process. And once the order has been shipped, customers can count on us for sound advice and flexible service. Our facilities are strategically located near the three major modes of shipment – ship/barge, truck and rail – to ensure that all destinations can be served promptly and efficiently.

What has been achieved?
We ask Mr. Paul Tunak, Process Engineer:
“The Stressometer flatness control system is running extremely well. After fifteen months of the Stressometer installation we have not had one shape-related strip break problem. Also we have seen an increased uptime with the new flatness system.”

“Stressometer is a very robust and reliable system and we really trust the feedback we get from the system. Operators are very comfortable with the system and we reached comfort levels very quickly after the installation. At Steelscape we are diligent with maintenance.”
"After fifteen months of the Stressometer installation we have not had one shape-related strip break problem."

Paul Tunak, Process Engineer at Steelscape Inc in Kalama, WA, USA.

“We have created a new target shape, which gives tighter edges. We have no wavy edges anymore. At first we had some problems with the Millmate Strip Scanner (MSS), but now we are very happy after changing to new components and good service from ABB. The Strip Scanner is working perfectly and we have had no issues with the MSS in a year. That is very good.”

Mr. Bob Pliler, Operator, comments the Stressometer 7.0 installation:
“With the Stressometer system everything is running extremely well. There is nothing I would like to change. I am very happy with all the ABB equipment. We had a very smooth transition at start-up and the Stressometer flatness system works very well in automatic mode. And so far we’ve had no strip breaks due to shape-related problems.”

Supplied equipment
ABB Force Measurement has supplied the following to the 4-hi single stand reversible cold rolling mill:
• One Stressometer 7.0 FSA flatness system
• Two standard rolls, diameter 313 mm
• 27 measuring zones, each zone 52 mm wide
• One Millmate Strip Scanner system
• One Millmate strip tension system, PillowBlock tensiometer system

The Stressometer 7.0 FSA system delivery includes skewing, work roll bending, spot cooling and Stressometer Flatness Logger 6.3 system. A short commissioning time was needed and the last tuning of the equipment took place before setting the mill in full production.

<table>
<thead>
<tr>
<th>Mill data CRM</th>
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<tbody>
<tr>
<td>Mill builder</td>
<td>IHI</td>
</tr>
<tr>
<td>Rolled material</td>
<td>Steel</td>
</tr>
<tr>
<td>Tonnage</td>
<td>450,000 tons/year</td>
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<tr>
<td>Coil weight</td>
<td>25 tons</td>
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<tr>
<td>Strip width min./max.</td>
<td>610 to 1350 mm</td>
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<tr>
<td>Exit strip thickness min./max.</td>
<td>0.20 to 1.5 mm</td>
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<tr>
<td>Max. rolling speed</td>
<td>1480 m/min</td>
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<tr>
<td>Work rolls</td>
<td>490 to 430 mm</td>
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<tr>
<td>Backup rolls</td>
<td>1360 to 1260 mm</td>
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<tr>
<td>Mill motor</td>
<td>5500 kW</td>
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