



Cutting Down Costs and Maintenance at U.S. Reversing Mill

Case Study 002

Executive Summary

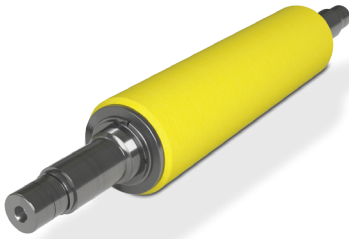
NCCM® Premier Yellow nonwoven rolls proved value and return on investment by lasting over 3x longer than the competing nonwoven roll in a U.S. reversing mill.

About NCCM

NCCM Company produces nonwoven mill roll covers for the OEM, primary metals, automotive and industrial markets. NCCM's flagship product, the NCCM® Premier Yellow nonwoven roll, is a high value-add product providing superior long life and fluid control.

Featured Product

NCCM® Premier Yellow
The Proven High-Value Nonwoven Roll



The yellow original—outstanding in technical features, performance and service life

Key Features

- ✓ Repairability
- ✓ Long Life

NCCM Company Marketing and Sales Team
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Initial Challenge

The plant was running a competitor's nonwoven rolls, and the rolls were not lasting between maintenance cycles. The plant tried multiple types of our competitors' rolls, but these did not fare much better, and some only lasted for a matter of hours.

Desired State

The reversing mill was looking to get more service life from their rolls. An investment in a higher-quality roll, such as the NCCM® Premier Yellow nonwoven roll, yields a higher ROI over time and saves on shipping, inventory, and excess line downtime costs.

Custom-Engineered Solution

An NCCM representative and a value-added reseller (VAR) visited the plant and collaborated to understand the problem and deliver a custom engineered solution. Within a few weeks, NCCM® Premier Yellow nonwoven rolls were installed in the line.

Result and Customer Value-Add

The NCCM rolls lasted the full six-week maintenance cycle. After ten weeks, the reversing mill was shut down for maintenance unrelated to the rolls. The rolls were taken off the line, reground, and then placed back on the line and performed like new for another six weeks.

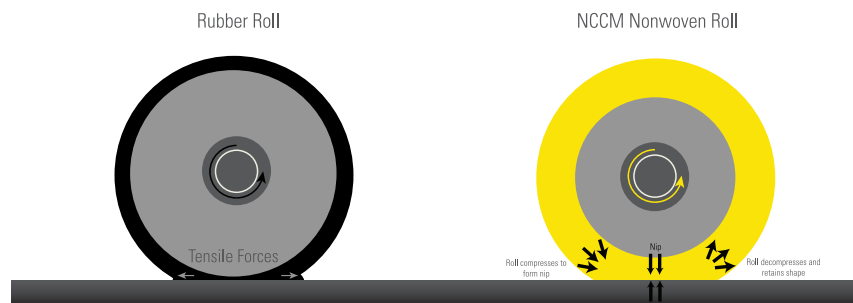
In this application, the NCCM rolls were reground two to three times and lasted a total of 18 weeks. The competitor's rolls lasted for a maximum of five weeks. When the long life of the NCCM roll is accompanied by compressibility and elasticity, the advantages and appeal of NCCM custom-engineered nonwoven rolls become even more pronounced.

Take Action

What kind of wringer rolls are running in your reversing mills? Reach out to an NCCM representative and we'll develop a customized solution that will upgrade your line. Do not hesitate to visit NCCMCO.com, reach out to sales@nccmco.com, or call +49 151-2540-4346.

Supporting Charts and Graphs

Compressibility of NCCM Nonwoven Rolls



- Tensile force causes rubber to expand on strip
- Non-compressible rubber has nowhere else to go
- Results in debris and shards trapped against strip surface
- Cuts from shards spread and grow on roll

- Compressibility of nonwoven fabric seals roll against the strip, causing a nip
- Roll decompresses as strip exits the nip
- Debris or shards are pulled into nonwoven and the strip is protected; in fluid control applications, excess fluid is also pulled into the roll
- Coefficient of friction increases because of compressive nonwoven nip