



Vacuum Rolls Eliminate Excess Fluid Pass-Through

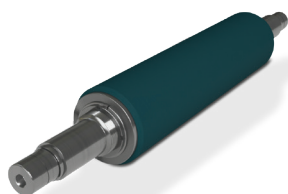
Case Study 003

Executive Summary

The NCCM® NT vacuum roll (VT density) was installed in a rinse section of a push/pull pickle line, ending an excess fluid pass-through issue due to better nonwoven sleeve design, improved shaft design and the roll's extreme porosity.

Featured Product

NCCM® NT Nonwoven Roll
Value-Add Nonwoven Roll



The low pressure alternative—excels in wringer, feeder and vacuum applications

NCCM Company Summary

NCCM Company produces nonwoven mill roll covers for the OEM, primary metals, automotive and industrial markets. NCCM Company and its 20+ value-add resellers, service centers and shops provide local service anywhere in the world. The NCCM® NT nonwoven roll is a low-pressure wringer, feeder and vacuum roll.

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Initial Challenge

A customer was experiencing excess fluid pass-through from a rinse section on their push/pull pickle line. The edge wetness issues were the primary focus when they approached NCCM Company for assistance. Excess fluid pass-through is an issue for a number of reasons. It wastes fluid, can lower the roll's operating friction and, when rinsing chemical fluids, can damage the rolls after the rinse section.

Desired State

The customer wanted to address and solve the edge wetness issue.

Custom-Engineered Solution

NCCM worked with the company and one of the value-add resellers (VARs) to address the situation. In this case, fluid control and wringing uniformity were increased through better nonwoven sleeve design, improved shaft design and a specially-engineered NCCM® VT density vacuum roll. The NCCM® VT roll (a specific density of the NCCM® NT roll) improves fluid control due to its extreme porosity. As the roll presses against the strip, it compresses as the nip. As it rolls off the strip, the decompression causes the roll to absorb excess fluid and leave a precise film behind.

Result and Customer Value-Add

This case is an example of NCCM's interest in helping companies solve problems through holistic solutions. The NCCM vacuum rolls were an immediate success. The company ordered several more as well as expanded NCCM vacuum rolls to additional locations.

Take Action

Where could you decrease edge wetness on your line(s)? Do not hesitate to visit NCCMCO.com, reach out to sales@nccmco.com or call +1 (715) 425-5885.

Supporting Charts and Graphs

Coefficient of Friction on Wet or Oiled Strips

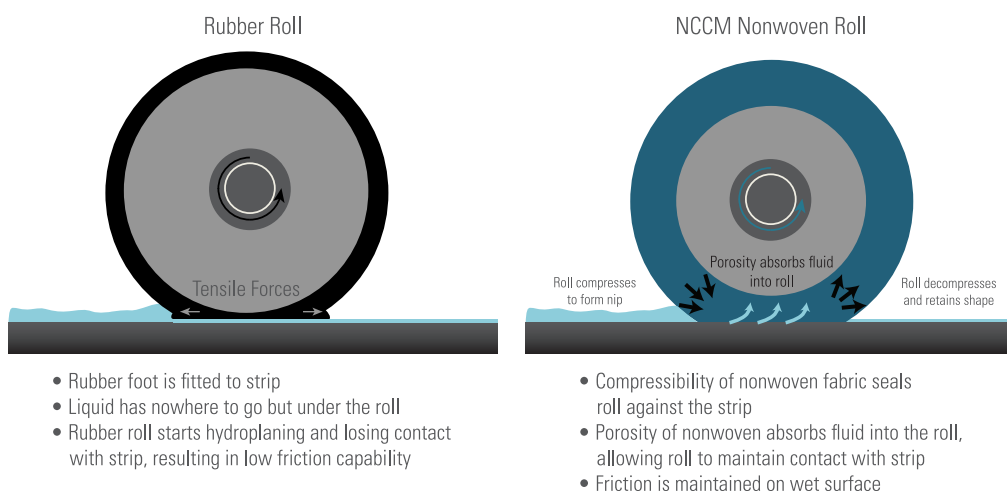


Fig. 1 Coefficient of Friction on Wet or Oiled Strips