



NCCCM[®]

Global Roll Technology

Next level nonwoven roll technology solutions



We at NCCM believe everyone is a leader. To lead is to pursue curiosity, invite others into the process and achieve the next level with your peers. NCCM's management team leads the company in its goal-setting, strategic vision and cultural pillars.

MANAGEMENT DIRECTORY

- **Brent Niccum**, Founder and Chief Executive Officer
- **Jewels Niccum**, Founder and President of NCCM and the NCCM Transformation Foundation
- **Robert Schroeder**, Human Resources and IT Manager
- **Dean Benoy**, Senior Strategic Account and Product Manager
- **Kai Vöhl**, Director of Global Sales and Marketing
- **Joan Compte**, General Manager of European Manufacturing
- **Nathan Xu**, National Chinese Sales Manager

01 Mission

To lead each industry we serve by providing cutting edge and high value-add products and services that improve NCCM customers' productivity and product quality while decreasing cost of production and environmental footprint. We accomplish this through trust, strong relationships and advanced roll technologies and approach our business calling with a transformative, philanthropic mindset.

02 Company Profile

After purchasing the intellectual property for 3M's proprietary technology and material in 2009, Brent and Jewels Niccum, along with their sons Lew and Cole, took a step of faith and founded NCCM Company. Brent's 20 years of experience with 3M mill roll research and development technology and Jewels' experience in marketing has catapulted NCCM into the position of global market leaders in non-woven roll technology and development. The company's high value-add products can be found in a variety of markets including OEM, primary metals, automotive and industrial. NCCM currently has locations or resellers located in North America, South America, Europe and Asia.

03 Our Story

NCCM is all about people, products and legacy. According to our founders and owners, Brent, Jewels, Lew and Cole Niccum, these three words summarize the story of NCCM.

PEOPLE

As a family-owned and operated company, people are of primary importance to our success as a company. We depend on every member of our team, and every person brings value. Our people make it possible to produce the level of quality that has made us the global industry leader in nonwoven mill rolls. Our people include our VARs, partners and customers, without whom we would not be where we are today.

PRODUCTS

We are committed to continuous improvement of current products and innovative development of new products and technologies. We offer world-class 3M-based products as well as product lines from our own internally-developed technology. Dedication to product innovation and success is carried out through technical testing, feedback from customers, maintaining a problem-solving mindset, continual R&D and regular strategic planning.

LEGACY

Finally, legacy is a key theme of the philosophy behind the NCCM vision. Brent, Jewels, Lew and Cole Niccum are committed to continuing the legacy of innovation and integrity inherited from 3M while forging their own family-focused path on a global scale. Their desire is to move into the future dedicated to developing people and products in order to leave a legacy that will continue to make a transformative difference in lives and communities for generations to come.

04 Culture

Often people ask us what NCCM stands for. It is actually the Niccum name spelled without vowels, and it takes on a secondary meaning as an acronym for the culture that defines our company.

N: Next level

We recognize that everyone is created with amazing and yet unrealized potential. Therefore, it's our desire to see the company grow by encouraging every team member to move to the next level in their own growth and skill development.

Whether that comes in the form of on-the-job training specific to a certain task or workshop training designed to develop leaders, everyone is asked to learn and grow through continuous education. We see this as one of the keys to realizing our full potential as a company; as each team member realizes their full potential, the company gains another step toward realizing its full potential.

Our next level commitment extends to our customers as well. This is substantiated in our quality service commitment to providing 360 degree service as well as providing custom-engineered products. We are confident our service and products will push our customers' operations and quality to the next level.

C: Curiosity → Connection

Curiosity leads to greater connection and allows us to come together and encourage productive dialogue and problem solving. Curiosity is the first step toward understanding and connection. To remain stagnant in today's ever-evolving world is to fail. Therefore, staying curious is an important part of continuous innovation. As curiosity blossoms, people start asking questions, bringing up ideas and creating a community of collaboration.

C: Contribution

A company's culture is only as strong as the collective contribution of each employee. We ask everyone to contribute to our speak-up culture by sharing their observations and ideas to improve themselves, their coworkers and the company.

M: Measurement

The quality of our culture is measured by the time gap that exists between a problem occurring and the involved parties engaging in constructive, effective and problem-solving dialogue with the correct members of the organization. A speak-up culture saves time and expense, increases effectiveness and decreases job stress; therefore, we ask every team member to make that gap smaller and smaller by continually measuring our culture by this standard.



NCCM® Premier Yellow

The Proven High-Value Nonwoven Roll



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

NCCM® Premier Yellow

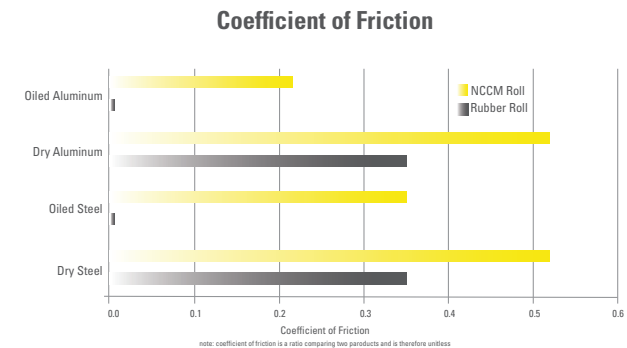
The renowned NCCM® Premier Yellow outperforms any other nonwoven roll in the world and has been a world-class benchmark for +25 years! With applications such as wringing, oiling, de-oiling, blank washing and more, the Yellow roll is custom-engineered to succeed in multiple industries and applications. Features such as repairability, long life, high coefficient of friction and fluid control contribute to the Yellow roll's dominance. Repairability allows the roll to be easily fixed instead of replaced. The long life of the roll is paired with consistent performance, saving companies downtime and replacement costs. High coefficient of friction reduces metal strip slippage and hydroplaning, and fluid control can be precisely determined and controlled. With documented case studies, compelling technical arguments and a team of NCCM certified VARs (value-added resellers) ready to analyze specific cases, the choice to place the Yellow roll in your line is clear.

NCCM® Premier Yellow	DENSITIES 3N, 4N, 5N, 6N, 7N, 8N, 9N and 11N	MAX. TEMPERATURE approx. 140°C (284°F)
	SIZES Max. rolls size: 647,7mm (25.5") OD; 457,2mm (18") ID Min. roll size: 50,8mm (2") OD; 25,4mm (1") ID	MAX. OPERATING PRESSURE 60N/mm (342 PLI)
	FLUIDS Water, oils and many different fluids in the pH range of 2–10. For example:	
<ul style="list-style-type: none"> • N-Butyl acetate • Cellosolve acetate • Isobutanol • Toluene • MEK 	<ul style="list-style-type: none"> • Isopropanol • Trichloroethane • Methylene chloride • Perchloroethane • Hexane 	<ul style="list-style-type: none"> • Trichloroethylene • Hydrocarbon oils • Petroleum oils • Synthetic oils

All application parameters are relative to specific applications and do not provide formal guarantees. Please contact an NCCM representative for further insight and questions on sizes, parameters and requirements.

NCCM® Premier Yellow	FEATURES	BENEFITS
	<ul style="list-style-type: none"> • Longest life • Repairability • Superior fluid control • Highest coefficient of friction • Self-healing • Cut resistant • Porosity 	<ul style="list-style-type: none"> • Reduced replacement cost • Reduced inventory cost • Reduced maintenance cost • Reduced fluid usage/cost • Reduced staining from poor wringing • Reduced defects on coil • Increased line uptime • Increased line speed • Cost effective

Please contact an NCCM representative for additional information on features and benefits.



NCCM® PREMIER YELLOW

For more detailed information scan the QR code or visit our website at NCCMCO.com



NCCM® N-Series

Value-Add Nonwoven Rolls



Custom-engineered for multiple positions in coil and sheet processing

NCCM® N2

The universal option—2 fulfill high-performance friction and fluid control demands

NCCM® N2 is an N-Series high-performance product for a variety of applications. With life far beyond rubber or polyurethane rollers and an excellent performance-to-cost ratio, the NCCM® N2 provides a positive return on investment. Built on world-leading nonwoven roll know-how, this product will take applications requiring friction and fluid control to the next level.

NCCM® NT

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

NCCM® NT is a competitively-priced nonwoven roll meant for low pressure pinch/feed, wringer and transport applications. Due to its nonwoven nature, the NCCM® NT possesses high porosity; as a vacuum roll, this feature allows for absorption of fluid and excellent drying.

NCCM® NS

The Soft Touch solution—eliminates scratches and ensures mirror finish surface processing

NCCM® NS delicately handles the most specialized surfaces to reduce material damage and the resulting material waste. If product rejection costs are increasing due to scratches or gouges, NCCM® NS is a worthwhile investment.

NCCM® N2	DENSITIES 3N2, 5N2, 6N2, 7N2, 8N2 and 9N2	MAX. TEMPERATURE approx. 140°C (284°F)
	SIZES Max. rolls size: 647,7mm (25.5") OD; 457,2mm (18") ID Min. roll size: 50,8mm (2") OD; 25,4mm (1") ID	MAX. OPERATING PRESSURE 44N/mm (251 PLI)
FLUIDS Water, oils and many different fluids in the pH range of 2–10. For example:		
<ul style="list-style-type: none"> • N-Butyl acetate • Cellulosolve acetate • Isobutanol • Toluene • MEK • Isopropanol • Trichloroethane • Methylene chloride • Perchloroethane • Hexane • Trichloroethylene • Hydrocarbon oils • Petroleum oils • Synthetic oils 		
<small>All application parameters are relative to specific applications and do not provide formal guarantees. Please contact an NCCM representative for further insight and questions on sizes, parameters and requirements.</small>		

NCCM® NT	DENSITIES 3T, 5T, 6T and 7T VT (vacuum rolls)	MAX. TEMPERATURE approx. 125°C (257°F)
	SIZES Max. rolls size: 647,7mm (25.5") OD; 457,2mm (18") ID Min. roll size: 50,8mm (2") OD; 25,4mm (1") ID	MAX. OPERATING PRESSURE 22N/mm (125 PLI)
FLUIDS Water, oils and many different fluids in the pH range of 2–10.		
<small>All application parameters are relative to specific applications and do not provide formal guarantees. Please contact an NCCM representative for further insight and questions on sizes, parameters and requirements.</small>		

NCCM® NS	DENSITIES 3NS, 4NS, 5NS, 6NS, 7NS, 8NS, and 9NS	MAX. TEMPERATURE approx. 140°C (284°F)
	SIZES Max. rolls size: 647,7mm (25.5") OD; 457,2mm (18") ID Min. roll size: 50,8mm (2") OD; 25,4mm (1") ID	MAX. OPERATING PRESSURE 50N/mm (286 PLI)
FLUIDS Water, oils and many different fluids in the pH range of 2–10. For example:		
<ul style="list-style-type: none"> • N-Butyl acetate • Cellulosolve acetate • Isobutanol • Toluene • MEK • Isopropanol • Trichloroethane • Methylene chloride • Perchloroethane • Hexane • Trichloroethylene • Hydrocarbon oils • Petroleum oils • Synthetic oils 		
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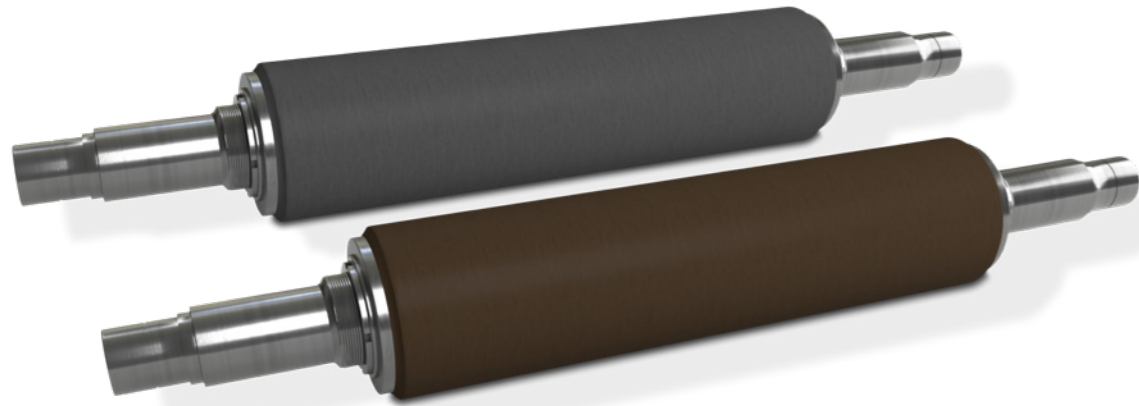
NCCM® N-SERIES



For more detailed information scan the QR code or visit our website at NCCMCO.com

NCCM® CX-Series

Chemically-Resistant Nonwoven Rolls



Advanced solutions for caustic, alkaline and acidic applications

NCCM® CX-Series

Our NCCM® CX and CX-Plus mill rolls are the ideal choice for use with harsh caustic, alkaline and acidic chemistries. They are specially designed to achieve peak performance in caustic cleaners on tinning, galvanizing or coil coating lines. Self-healing properties provide cut resistance against strip edge damage, and our high-tech nonwoven material's wear resistance extends roll life long past traditional rubber coverings. Custom-engineered to specification, they can also make a significant contribution to increased productivity and outperform rubber rolls in pickling lines by far.

NCCM® CX	DENSITIES	OPERATIONAL pH
	4CX, 5CX, 6CX and 7CX	pH range 0~14
	SIZES	MAX. TEMPERATURE
	Max. rolls size: 647,7mm (25.5") OD; 457,2mm (18") ID Min. roll size: 50,8mm (2") OD; 25,4mm (1") ID	93°C (200°F)
	MAX. OPERATING PRESSURE	
	13,7N/mm (78 PLI)	
<small>All application parameters are relative to specific applications and do not provide formal guarantees. Please contact an NCCM representative for further insight and questions on sizes, parameters and requirements.</small>		

NCCM® CX-Plus	DENSITIES	OPERATIONAL pH
	5CXP and 7CXP	pH range 0~14
	SIZES	MAX TEMPERATURE
	Max. rolls size: 647,7mm (25.5") OD; 457,2mm (18") ID Min. roll size: 50,8mm (2") OD; 25,4mm (1") ID	116°C (240°F)
	MAX OPERATING PRESSURE	
	17N/mm (98 PLI)	
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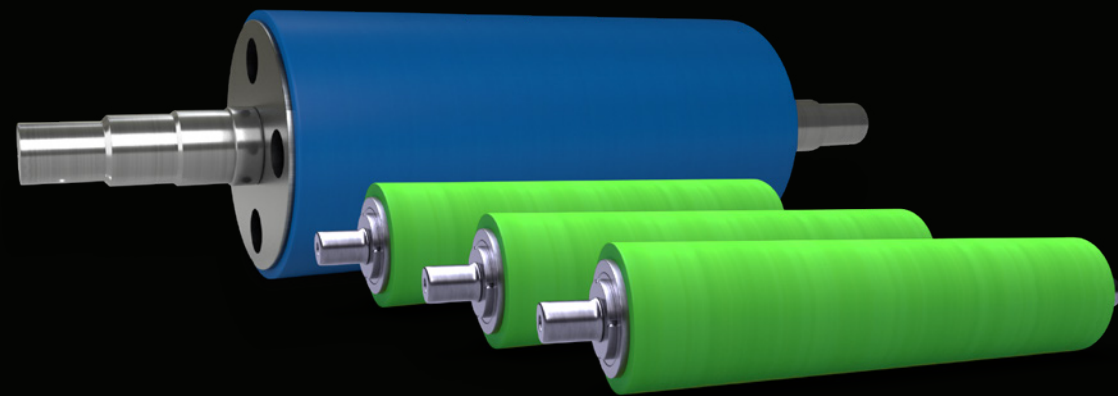
NCCM® CX-SERIES

For more detailed information scan the QR code or visit our website at NCCMCO.com



NCCM® R-Series

Long-Life Nonwoven Table and Bridle Rolls



The replacement for rubber and urethane

NCCM® RU

Nonwoven strength and durability at a urethane price point

Newly-patented NCCM® RU nonwoven rolls are equivalent in cost to urethane competitors, but each NCCM® RU roll can last up to 5x longer than its rubber or urethane counterpart. This cost savings can be easily calculated by taking the current number of rolls purchased, dividing by 5, multiplying that number by the cost per NCCM® RU roll and comparing it to the total price of the rolls previously purchased. This saving is enough reason to consider the NCCM® RU roll, but the purchase decision becomes even more clear when not only the life but also the performance of the roll outshines any competitor's product. That's new and revolutionary for the roll industry!

NCCM® RK

Consistently high friction over remarkably long life

NCCM® RK is an extremely long-lasting nonwoven bridle roll meant for highly demanding applications. Strip slippage is often eliminated due to a high coefficient of friction. Custom-engineered for specific applications, a wide range of sizes are available for a variety of bridle applications.

NCCM® RU	DENSITY RU single density	WALL THICKNESS approx. 12,7mm (0.5") approx. 19,1mm (0.75")
	OUTSIDE DIAMETER RANGE approx. 101,6–1.219,2mm (4–48")	MAX. FACE WIDTH approx. 2.844,8mm (112")
	OPERATIONAL pH Range 2–10	MAX. TEMPERATURE approx. 90°C (194°F)

All application parameters are relative to specific applications and do not provide formal guarantees. Please contact an NCCM representative for further insight and questions on sizes, parameters and requirements.

NCCM® RK	DENSITY RK single density	WALL THICKNESS approx. 12,7mm (0,5") approx. 19,1mm (0.75")
	OUTSIDE DIAMETER RANGE approx. 101,6–1.219,2mm (4–48")	MAX. FACE WIDTH approx. 2.844,8mm (112")
	OPERATIONAL pH Range 2–10	MAX. TEMPERATURE 75°C (167°F)

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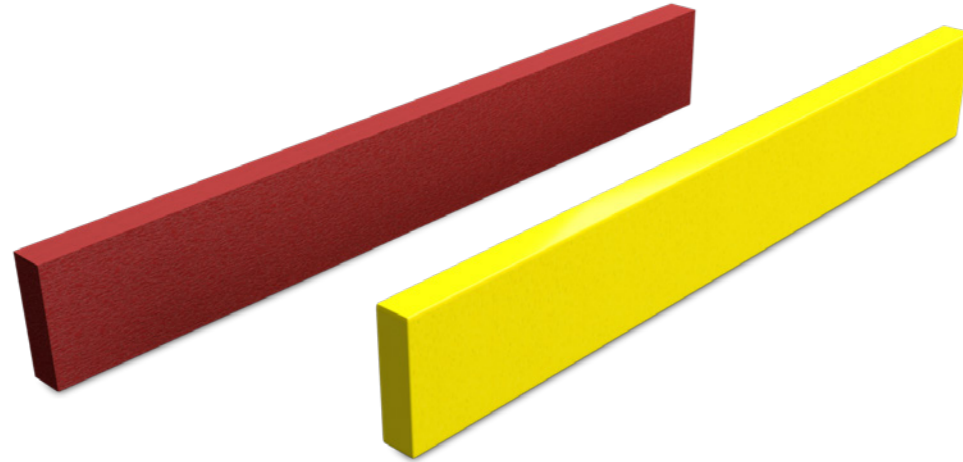
NCCM® R-SERIES



For more detailed information scan the QR code or visit our website at NCCMCO.com

NCCM® V-Series

Long-Life Nonwoven Wipes and Bars



Unique nonwoven technology for sweeping and wiping applications

NCCM® V-Series

NCCM® V-Series nonwoven wipes and bars take the place of rubber, felt or cork products in a variety of material handling applications. As a versatile, high-value solution for consistent and long-lasting performance, the NCCM® V-Series replaces easily-gouged and damaged traditional materials. NCCM® Wiper Bar II excels in applications demanding fluid control and squeegee capabilities, and NCCM® Mill Wipe is an excellent choice for oxide and debris removal as well as other sweeping, wiping and cleaning applications. Cost savings are often realized due to the minimization of costly line downtime for traditional bar replacements. In addition, the uniform, even-edged and long-lasting performance of the NCCM® V-Series increases product processing quality. Compressibility also contributes to NCCM® Mill Wipe and NCCM® Wiper Bar II success as the material maintains tight and uniform contact with uneven surfaces and varying thicknesses.

NCCM® Wiper Bar II	DENSITIES	PRODUCT THICKNESS	NCCM® Mill Wipe	DENSITIES	PRODUCT THICKNESS
	soft, medium and hard	3,2mm (1/8") 6,4mm (1/4") 9,5mm (3/8") 12,7mm (1/2") 15,9mm (5/8") 19,1mm (3/4") 25,4mm (1")		soft, medium and hard	3,2mm (1/8") 6,4mm (1/4") 9,5mm (3/8") 12,7mm (1/2") 15,9mm (5/8") 19,1mm (3/4") 25,4mm (1")
	PRODUCT WIDTH	PRODUCT LENGTH		PRODUCT WIDTH	PRODUCT LENGTH
	25,4mm–558,8mm (1"–22")	25,4mm–2,794mm (1"–110")		25,4mm–558,8mm (1"–22")	25,4mm–2,794mm (1"–110")
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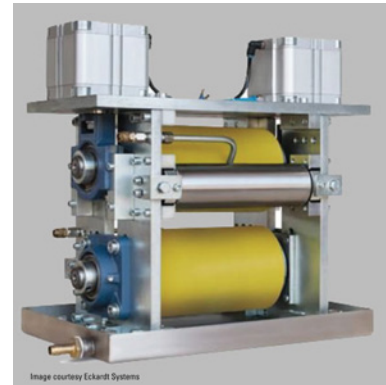
Automotive
Blank and Coil Washing



Outstanding in long life and high precision oil film control

Excellent cleaning and oiling of blanks prevents costly quality errors later on in the stamping process. NCCM's nonwoven rolls last 2-5 times longer than any other nonwoven. Other products claiming to have long life will cease to perform well as time goes on, but NCCM nonwoven rolls maintain their initial "new roll" performance throughout their whole life (up to 5 regrinds). This consistently superior performance achieves oil film targets to the lowest requirement of below 1 g/m².

Industrial
Metals Processing and Materials Handling



Use the unique features of high-tech nonwovens to make your products better

NCCM nonwoven rolls lead multiple markets, and the same high performance is available for industrial applications. NCCM nonwoven rolls used in simple oiling applications provide a precise solution for previously uneven oil application and result in less oil waste. NCCM® V-Series (Wiper Bar II and Mill Wipes) and Specialty Felts bring excellent and long-lived service to a variety of sweeping, wiping and tanning applications. Whatever the material handling or industrial needs, find the solution with NCCM Company.

OEM
Manufacturing Technology



World-class from pre-sales to after-sales

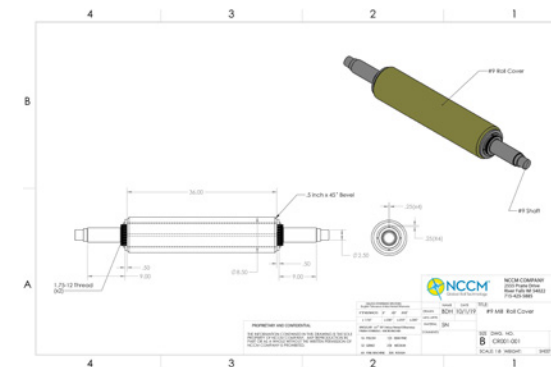
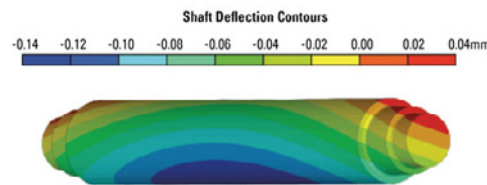
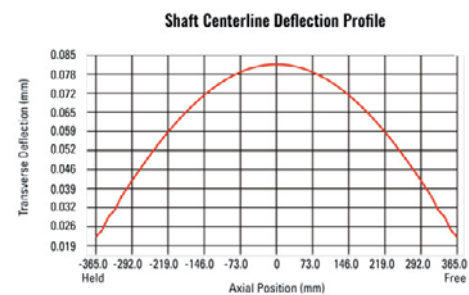
The NCCM value for OEMs and machine builders is the deep technical design competence we bring to each new roll build based on broad application engineering knowledge. Our service does not end with an order being supplied; with our global presence and comprehensive network, we also provide on-site installation support and local follow-up service for each new roll installed around the world.

Primary Metals
Sheet, Coil and Tube Processing



Upgrade in process line efficiency you would not imagine

Our products excel in the primary metals market due to unmatched long life. This feature leads to more line uptime and fewer operating, maintenance and unplanned downtime costs. Our products deliver increased fluid control and upgraded surface quality as well as increased line speeds and decreased manufacturing costs. With a range of products for any price or performance constraint or necessity, NCCM can provide a solution that is right for any line.



For more detailed information scan the QR code or visit our website at NCCMCO.com



NCCM Global Roll Technology		Product Category/Description	Lines																																																						
PREMIER	Premier Yellow	The Proven High-Value Nonwoven Roll The yellow original—outstanding in technical features, performance and service life First choice TECH SOLUTION roll Outstanding in performance, features and long life	<table border="1"> <tr><td>API</td><td>BAL</td><td>CAL</td><td>CCL</td><td>CCL</td><td>CTL</td><td>CTL</td><td>CTL</td><td>CRM</td><td>DL</td><td>DPL</td><td>EGL</td><td>EGL</td><td>ETL</td><td>GL</td><td>HDGL</td><td>LM</td><td>OCL</td><td>PL</td><td>PL</td><td>RM</td><td>SL</td><td>SPM</td><td>TL</td><td>TLL</td><td>TM</td><td>TM</td></tr> <tr><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr> </table>	API	BAL	CAL	CCL	CCL	CTL	CTL	CTL	CRM	DL	DPL	EGL	EGL	ETL	GL	HDGL	LM	OCL	PL	PL	RM	SL	SPM	TL	TLL	TM	TM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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N-SERIES	N2	Value-Add Nonwoven Rolls Custom-engineered for multiple positions in coil & sheet processing Multi-purpose roll to UPGRADE product and process qualities in multiple positions. UNIVERSAL and highly competitive OEM roll for new lines and positions.	<table border="1"> <tr><td>API</td><td>BAL</td><td>CAL</td><td>CCL</td><td>CCL</td><td>CTL</td><td>CTL</td><td>CTL</td><td>CRM</td><td>DL</td><td>DPL</td><td>EGL</td><td>EGL</td><td>ETL</td><td>GL</td><td>HDGL</td><td>LM</td><td>OCL</td><td>PL</td><td>PL</td><td>RM</td><td>SL</td><td>SPM</td><td>TL</td><td>TLL</td><td>TM</td><td>TM</td></tr> <tr><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr> </table>	API	BAL	CAL	CCL	CCL	CTL	CTL	CTL	CRM	DL	DPL	EGL	EGL	ETL	GL	HDGL	LM	OCL	PL	PL	RM	SL	SPM	TL	TLL	TM	TM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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NT	Cost competitive LOW PRESSURE feeder or wringer ALTERNATIVE Roll for special VACUUM applications	<table border="1"> <tr><td>API</td><td>BAL</td><td>CAL</td><td>CCL</td><td>CCL</td><td>CTL</td><td>CTL</td><td>CTL</td><td>CRM</td><td>DL</td><td>DPL</td><td>EGL</td><td>EGL</td><td>ETL</td><td>GL</td><td>HDGL</td><td>LM</td><td>OCL</td><td>PL</td><td>PL</td><td>RM</td><td>SL</td><td>SPM</td><td>TL</td><td>TLL</td><td>TM</td><td>TM</td></tr> <tr><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr> </table>	API	BAL	CAL	CCL	CCL	CTL	CTL	CTL	CRM	DL	DPL	EGL	EGL	ETL	GL	HDGL	LM	OCL	PL	PL	RM	SL	SPM	TL	TLL	TM	TM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
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NCCM Global Roll Technology		Product Category/Description	Applications/Positions																						
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N2	Value-Add Nonwoven Rolls Custom-engineered for multiple positions in coil and sheet processing Multi-purpose roll to UPGRADE product and process qualities in multiple positions. UNIVERSAL and highly competitive OEM roll for new lines and positions.	<table border="1"> <tr><td>Wringing</td><td>Oiling</td><td>Blank Washing</td><td>Tension/Break</td><td>Snubber</td><td>Bridle</td><td>Cradle</td><td>Deflector</td><td>Pinch/Feeder</td><td>Table/Conveyor</td><td>Vacuum</td></tr> <tr><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr> </table>	Wringing	Oiling	Blank Washing	Tension/Break	Snubber	Bridle	Cradle	Deflector	Pinch/Feeder	Table/Conveyor	Vacuum	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
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We continue expanding across the globe to fulfill our goal of servicing your rolls locally around the world.



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★ INTERNATIONAL VALUE-ADD DISTRIBUTION AND ROLL SERVICE NETWORK

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INTERNATIONAL VALUE-ADD DISTRIBUTION AND ROLL SERVICE NETWORK

Contact sales@nccmco.com to connect with your local VAR, distributor or roll service center.

GLOBAL LOCATIONS

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Repairability

Long Life

High Coefficient of Friction

Fluid Control

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