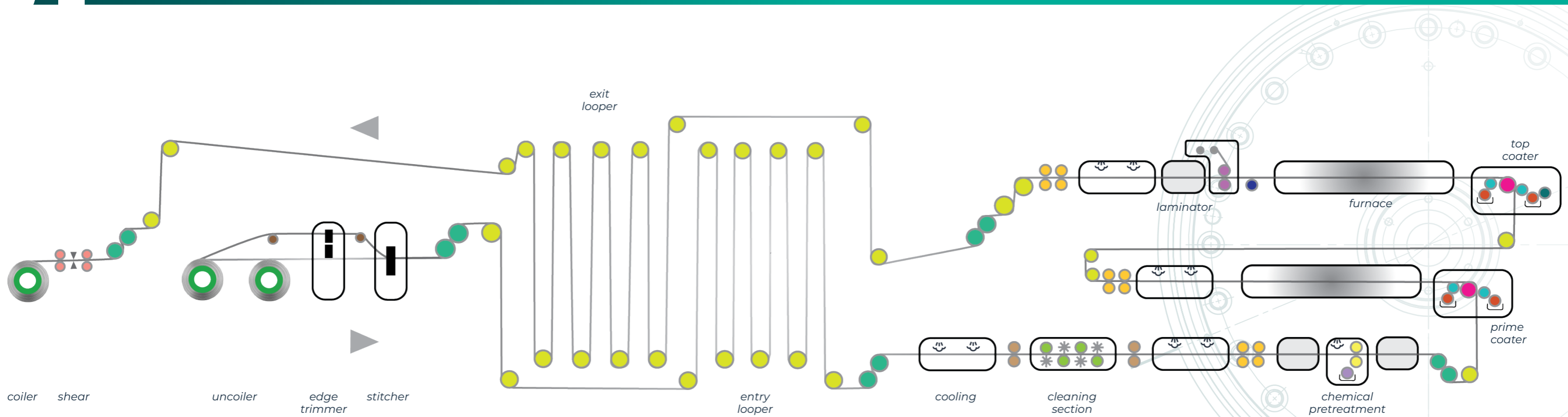


your roller  
**expert** for the metal industry

**HANNECARD**  
YOUR ROLLER EXPERT

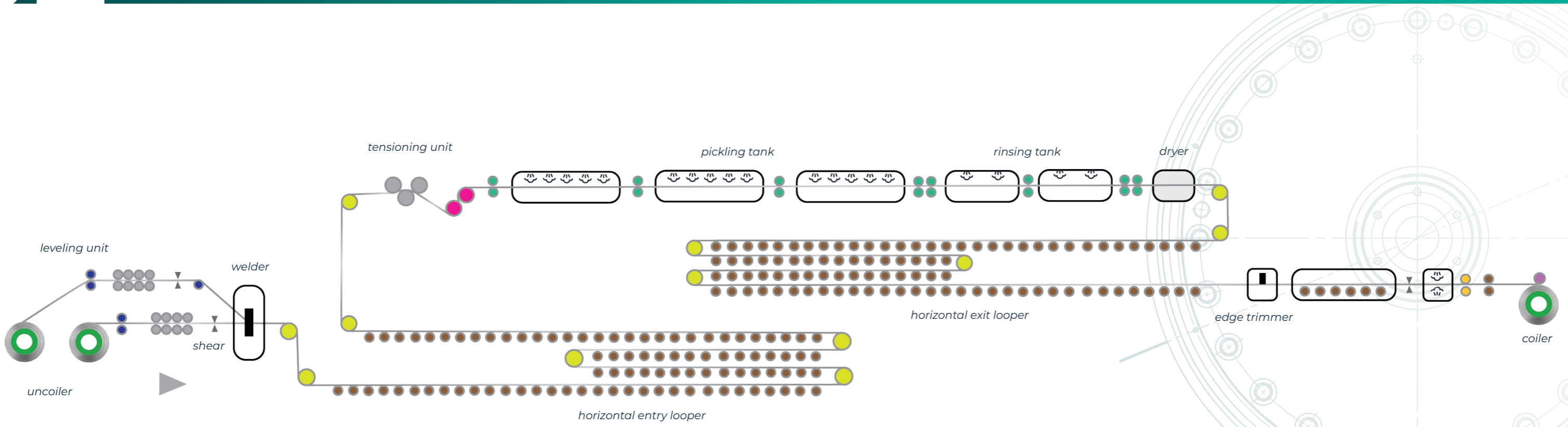
# CONTINUOUS COIL COATING LINE (CCL)



click on the product to discover more about the properties and characteristics

	RUBBER											PU					CARBIDE			
	ClearSqueeze XPE	HanneSil	Hannecoil S   D	HanneStar	Hannestar CR	MetalClean S	MetalClean XP   XPE	RollMet CR	RollMet HT	RollMet S	SmartSqueeze	Vulcan	Hannethane S	Hannethane XP	Monkal® 4	Monkal® 5	Monkal® 5 HP	PureDrive	Hannespray W Plus	
Elastic Mandrel Sleeve Decoiler (MET-R1)	●		● ● ●																	
Strip Support Roller (MET-P1)	●												● ● ●							
Bridle Roll (MET-P2)	●			● ●	● ● ●			● ●		●			● ● *						● ● *	
Deflector Roll (MET-P3)	●																			
Cleaning Squeegee Roll (MET-B1)	●					● ●	● ● ●													
Brush Back-Up Roller (MET-B3)	●					● ● ●														● ● ● *
Chemical Coater Applicator (MET-N2)	●														● ●	● ● ●				
Chemical Coater Pick-Up Roller (MET-N6)	●															● ● ●				● ● ● *
Paint Coater Applicator (MET-N1)	●														● ● ●	● ●	● ● *			
Paint Coater Pick-Up Roller (MET-N5)	●																			● ● ●
Cooling Squeegee Roller (MET-C1)	●					● ●	● ●					● ● ●								
Paint Coater Metering Roller (MET-N1)	●														● ● ●	● ● ●				
High Temperature Support Roll (MET-P5)	●	● ●							● ●											
Laminator Roll (MET-O2)	●	● ●										● ● ●								
Pinch Roller (MET-P4)	●			● ●										● ● *						
Coating Back-Up Roller (MET-N8)	●																			● ● ●
Elastic Sleeve Coiler (MET-R1)	●		● ● ●																	

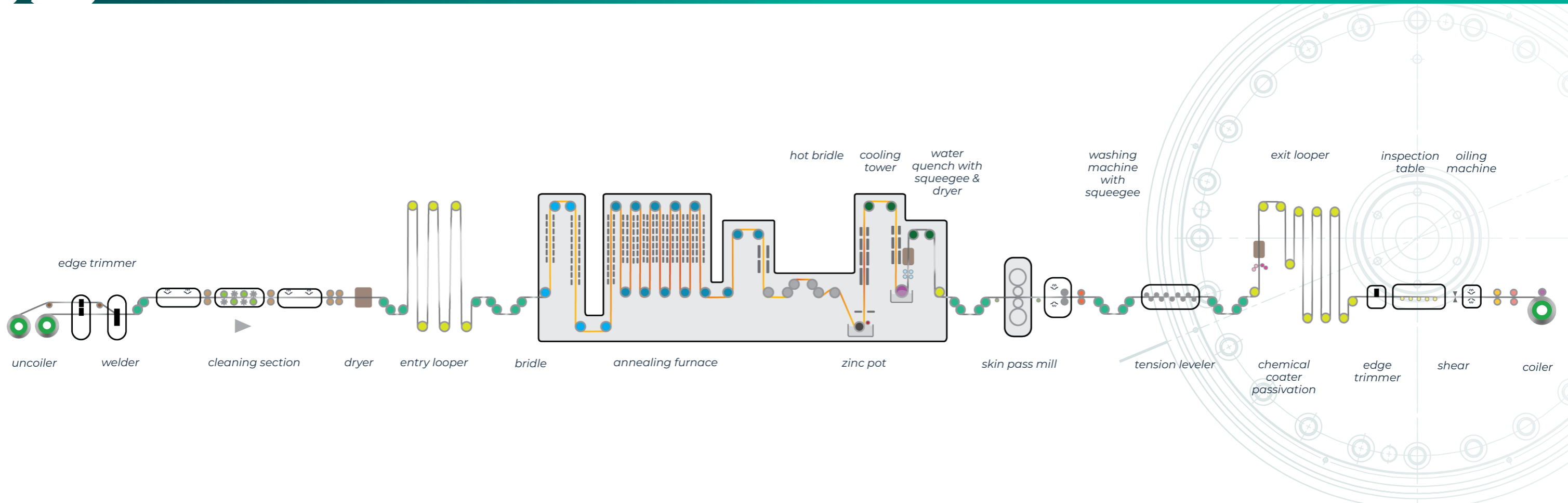
\* not suited for every position



- Pinch Roller (MET-P4)** ●
- Deflector Roll (MET-P3)** ●
- Strip Support Roller (MET-P1)** ●
- Bridle Roll (MET-P2)** ●
- Pickling Squeegee Roller (MET-A1)** ●
- Oiling Squeegee Roller (MET-Q3)** ●
- Snubber Roll (MET-P4)** ●

RUBBER			PU					
MetalSqueeze S	MetalSqueeze XP	SmartSqueeze	Hannethane	Hannethane D	Hannethane S	Hannethane XP	PureDrive	Hannelyse
					●*	● ● ●		
					● ●		● ● ●	
				● ● ●	● ● ●			
						● ●*	● ● ●	
●	● ●	● ● ●						● ● ●*
			● ● ●			● ● ●		
						● ● ●		

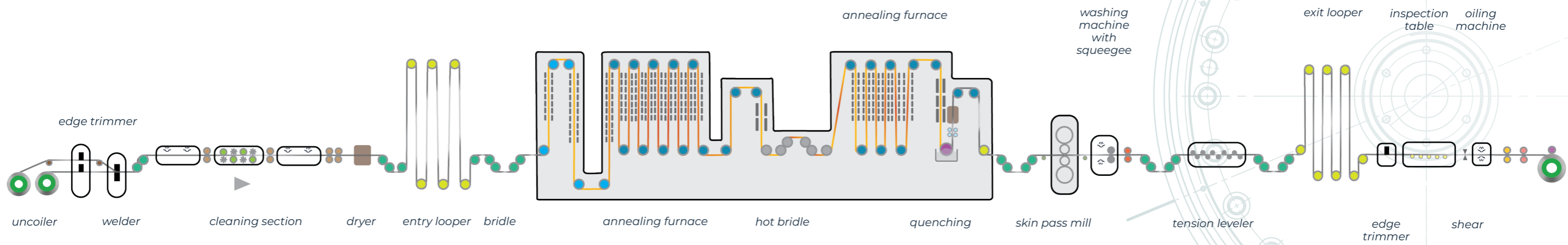
\* not suited for every position



	RUBBER										PU							CARBIDE				
	SmartSqueeze	ClearSqueeze XPE	Hannecoil S   D	HanneStar	MetalClean S	MetalClean XP   XPE	MultiCoat SB	MultiCoat XP	RollMet CR	RollMet S	Hannethane	Hannethane S	Hannethane XP	Hannethane CR	PureDrive	Monkal <sup>®</sup> 4	Monkal <sup>®</sup> 5	Hannespray Cr   Cr-Plus	Hannespray Kargen	Hannespray W   W-Plus	ZincGen A   B   S	
Elastic Mandrel Sleeve (MET-R1)	●		● ● ●																			
Bridle Roll (MET-P2)	●								● ●	●		● ● *		● ● *	● ● ●						● ● ●	
Cleaning Squeegee Roll (MET-B1)					● ●	● ● ●																
Cleaning Brush Counterpart (MET-B3)					● ● ●													● ● ● *				
Deflector Roll (MET-P3)										●	● ● *				● ● ●						● ● ●	
Low Temperature Furnace Roll MET-P10)																		● ● ●				
High Temperature Furnace Roll (MET-P10)																			● ● ●			
Zinc Pot Sink Roll (MET-S1)																						● ● ●
Zinc Pot Stabilizer Roll (MET-S2)																						● ● ●
Top tower Roll Roll (MET-S3)																		● ● ●				
Quench Sink Roll (MET-C2)		● ● ●								● ●												
Quench Squeegee Roll (MET-C1)	● ● ●	● ●											● ● *									
Skin Pass Mill Billy Roll (MET-H3)																					● ● ●	
Wash Machine Squeegee Roll (MET-C4)	● ● ●	● ● ●	● ●																			
Chemical Coater Pick-Up Roll (MET-N6)																		● ●				
Chemical Coater Apillicator Roll (MET-N2)																● ●	● ● ●					
Strip Support Roller (MET-P1)																		● ● ●				
Oiling Squeegee Roll (MET -Q2)											● ● ●		● ● ●									
Pinch Roll (MET-P4)				●						●			● ● ●									
Snubber Roll (MET-P4)				●						●			● ● ●									

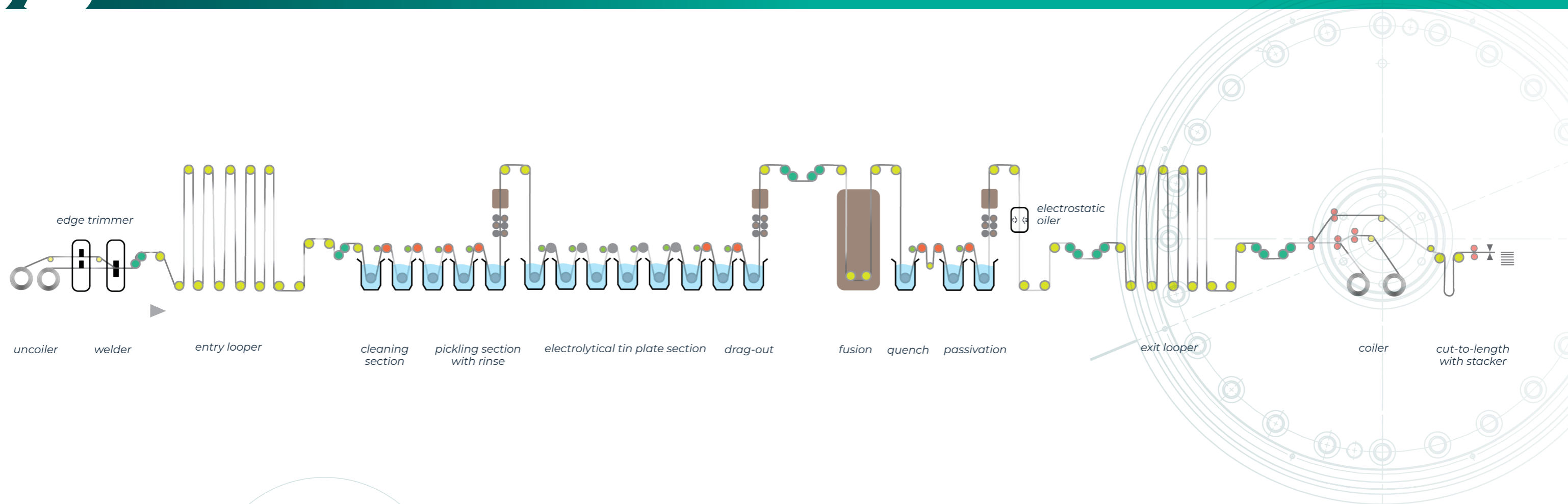
\* not suited for every position

# 04 CONTINUOUS ANNEALING LINE (CAL)



	RUBBER								PU				CARBIDE				
	SmartSqueeze	ClearSqueeze XPE	Hannecoil S   D	Hannestar	MetalClean S	MetalClean XP   XPE	RollMet CR	RollMet S	Hannethane	Hannethane S   D	Hannethane XP	Hannethane CR	Hannecoil XP	PureDrive	Hannespray Cr   Cr-Plus	Hannespray Kargen	Hannespray W   W-Plus
Elastic Mandrel Sleeve (MET-R1)	●		● ● ●														
Bridge Roll (MET-P2)	●						● ●	●		● ● *		● ● *		● ● ●			
Cleaning Squeegee Roll (MET-B1)	●				● ●	● ● ●									● ● ●		
Cleaning Brush Counterpart (MET-B3)	●				● ● ●												
Deflector Roll (MET-P3)	●									● ● *				● ● ●			
Low Temperature Furnace Roll (MET-P10)	●														● ● ●		
High Temperature Furnace Roll (MET-P10)	●															● ● ●	
Quench Sink Roll (MET-C2)	●	● ● ●					● ●										
Quench Squeegee Roll (MET-C1)	●	● ●									● ● *						
Skin Pass Mill Billy Roll (MET-H3)	●																● ● ●
Wash Machine Squeegee Roll (MET-C4)	●	● ● ●		● ●													
Strip Support Roller (MET-P1)	●									● ● ●							
Oiling Squeegee Roll (MET-Q2)	●								● ● ●		● ● ●						
Pinch Roll (MET-P4)	●							●			● ● ●						
Snubber Roll (MET-P4)	●							●			● ● ●						

\* not suited for every position

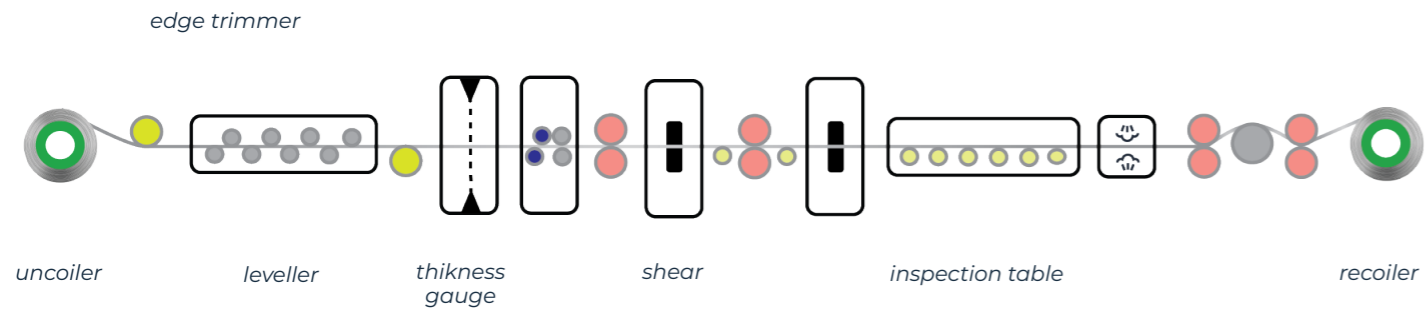


- Bridle Roll (MET-P2)
- Deflector Roll (MET-P3)
- Plating Sink Roll (MET-E2)
- Plating Hold-Down Roller (MET-E1)
- Plating Deflector Roll (MET-E3)
- Plating Squeegee Roller (MET-E4)
- Pinch Roller (MET-P4)
- Strip Support Roller (MET-P1)

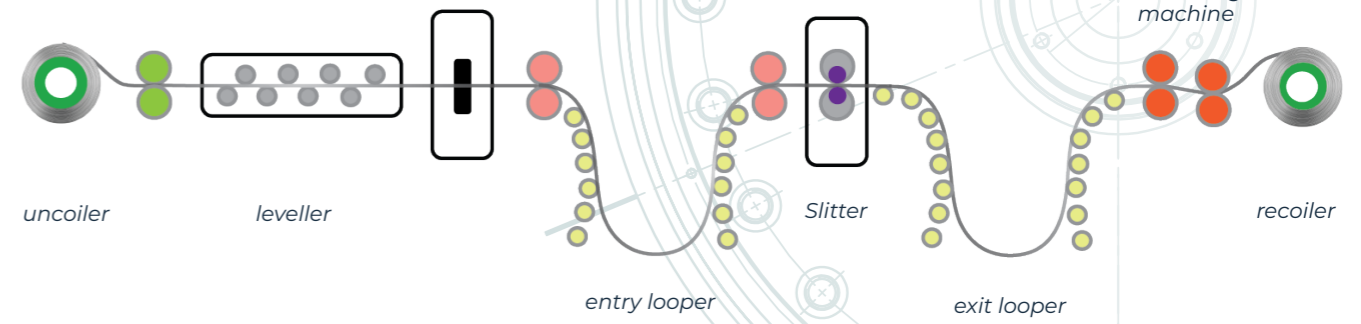
RUBBER						PU				
MetalSqueeze S	MetalSqueeze XP	SmartSqueeze	RollMet S	RollMet CR	Hannestar	Hannethane CR	Hannethane S	Hannethane XP	PureDrive	Hannelyse
				••••	••	••••				
			••		••		••		••••	
	••••									
•	••	••••	•							••••*
	••••		••				••*		••*	
•	••	••••								
					••			••••		
							••••			

\* not suited for every position

## INSPECTION LINE



## SLITTER LINE



	RUBBER			PU				
	HanneCoil-S	RollMet-S	Hannestar	Hannethane	Hannethane-S	Hannethane-XP	PureDrive	Kaltryl
Elastic Mandrel Sleeve (MET-R1)	• • •							
Deflector Roll (MET-P3)		•		• •	• •		• • •	
Strip Support Roller (MET-P1)		•		• • •	• • •			
Pinch Roller (MET-P4)		•				• • •	• •	
Tensioning Roller (MET-P2)		•		• •	• •	• •	• • •	
Edge Trimmer Pressure Ring (MET-P6)			•			• • •		
Slitter Ring (MET-P7)			•			• • •		
Brake Roll (MET-P8)						• •		• • •



## CARBON STEEL PICKLING

**HANNECARD**  
YOUR ROLLER EXPERT

### ROLLER COVERING FOR THE METAL INDUSTRY CARBON STEEL STRIP PICKLING

**Solutions for a maximum performance and an exceptional lifetime**

**YOUR REQUIREMENTS**

- Production based on hydrochloric acid (HCl 20%) on rollers and conductors at 60°C
- Temperature between 40 and 80°C
- Low demands on roller surface
- Simple and safe coating application

**OUR SOLUTIONS**

- Maximum resistance to scaling and abrasion
- High chemical stability
- Resistance to elevated high temperature
- Excellent shock, expansion and tearing behavior
- Adherence of the required mechanical load
- High resistance to HCl and H<sub>2</sub>SO<sub>4</sub> acid
- High pressure resistance
- Mechanical maintenance and engineering

**OUR SOLUTIONS**

**● Solutions for squeeze rollers**

Product	Advantages	Disadvantages
Prinastem®	<ul style="list-style-type: none"> <li>Excellent surface, expansion and tearing behavior</li> <li>High resistance to HCl and H<sub>2</sub>SO<sub>4</sub> acid</li> <li>High pressure resistance</li> </ul>	<ul style="list-style-type: none"> <li>High chemical stability</li> <li>Resistance to elevated high temperature</li> <li>Excellent shock, expansion and tearing behavior</li> </ul>
Prinastem®	<ul style="list-style-type: none"> <li>High chemical stability</li> <li>Resistance to elevated high temperature</li> <li>Excellent shock, expansion and tearing behavior</li> </ul>	<ul style="list-style-type: none"> <li>High resistance to HCl and H<sub>2</sub>SO<sub>4</sub> acid</li> <li>High pressure resistance</li> </ul>
Prinastem®	<ul style="list-style-type: none"> <li>High chemical stability</li> <li>Resistance to elevated high temperature</li> <li>Excellent shock, expansion and tearing behavior</li> </ul>	<ul style="list-style-type: none"> <li>High resistance to HCl and H<sub>2</sub>SO<sub>4</sub> acid</li> <li>High pressure resistance</li> </ul>

**● Solutions for sink and deflector rollers**

Product	Advantages	Disadvantages
Prinastem®	<ul style="list-style-type: none"> <li>High chemical stability</li> <li>Resistance to elevated high temperature</li> <li>Excellent shock, expansion and tearing behavior</li> </ul>	<ul style="list-style-type: none"> <li>High resistance to HCl and H<sub>2</sub>SO<sub>4</sub> acid</li> <li>High pressure resistance</li> </ul>
Prinastem®	<ul style="list-style-type: none"> <li>High chemical stability</li> <li>Resistance to elevated high temperature</li> <li>Excellent shock, expansion and tearing behavior</li> </ul>	<ul style="list-style-type: none"> <li>High resistance to HCl and H<sub>2</sub>SO<sub>4</sub> acid</li> <li>High pressure resistance</li> </ul>

## ANNEALING FURNACE

**HANNECARD**  
YOUR ROLLER EXPERT

### ROLLER COVERING FOR THE METAL INDUSTRY CONTINUOUS ANNEALING LINE

**Roller covering for the metal industry**

**Prinastem®: Long Lasting Protection**

Prinastem® technology is based on the combination of acid resistant resins and reinforcing fibers. It provides a high degree of protection against corrosion and offers an almost complete protection against mechanical wear and tear. The result is a long service life.

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## COILS

**HANNECARD**  
YOUR ROLLER EXPERT

### ROLL COVERING FOR THE METAL INDUSTRY STEEL, STAINLESS STEEL, ALUMINIUM AND NON-FERROUS COILS

**Ever since the early days of synthetic rubber development, Hannecard has produced roller coverings for the manufacturing and finishing of steel, stainless steel, aluminium and non-ferrous strip.**

**Today the Hannecard group proposes a comprehensive range of products, solutions and services for every possible application.**

**GENERAL REQUIREMENTS**

- Optimal chemical, physical and mechanical behaviour
- Maximum performance
- Maximum flexibility
- Reduction of material
- Quality improvement of the customer's end product

**GENERAL CHARACTERISTICS**

Product	Advantages	Disadvantages
Prinastem®	<ul style="list-style-type: none"> <li>High chemical stability</li> <li>Resistance to elevated high temperature</li> <li>Excellent shock, expansion and tearing behavior</li> </ul>	<ul style="list-style-type: none"> <li>High resistance to HCl and H<sub>2</sub>SO<sub>4</sub> acid</li> <li>High pressure resistance</li> </ul>
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## COIL COATING

**HANNECARD**  
YOUR ROLLER EXPERT

### ROLLER COVERING FOR THE METAL INDUSTRY MONKAL®

**THE ONLY ROLLER COVERING ESPECIALLY DEVELOPED FOR COATING APPLICATIONS**

**With the development of the Monkal® polyurethane covering range, Hannecard has achieved a major breakthrough. The Monkal® compounds are specially designed for coating purposes and combine extreme purity with high and consistent performance. Thanks to its worldwide production, its unrivalled purity, the combination with special concepts and the unique covering range, Monkal® is today the most used roller covering technology in the world for coating applications.**

**Monkal®**

Monkal® polyurethane solutions are developed for their unique coating behavior. Their purity and their long lifespan make Monkal® easy to spread and can be adhered with a brush, roller or spray. The use of a roller is recommended for high speed applications. If you have coating problems in your plant, Monkal® may be the best solution for your high and consistent quality.

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## HANNECOIL

**HANNECARD**  
YOUR ROLLER EXPERT

### HANNECOIL

**CUSTOM-MADE RUBBER AND POLYURETHANE ELASTIC MANDREL SLEEVES FOR THE ALUMINIUM, STEEL AND STAINLESS STEEL INDUSTRY**

Hannecard, expert in rubber and polyurethane roller coverings and sleeves since 1926, also offers a wide range of custom-made elastic mandrel sleeves. Our mandrel sleeve solutions assure an excellent functionality and they also guarantee a long lifetime.

**Technical solutions**

The Hannecoil roller and polyurethane sleeves are recognized and well known worldwide for their unique characteristics. Our expertise allows an excellent roller and sleeve coating quality. For steel and stainless steel, we offer a wide range of elastic mandrel sleeves. For aluminium, we offer a wide range of elastic mandrel sleeves. For stainless steel, we offer a wide range of elastic mandrel sleeves. For copper, we offer a wide range of elastic mandrel sleeves. For nickel, we offer a wide range of elastic mandrel sleeves. For titanium, we offer a wide range of elastic mandrel sleeves. For Inconel, we offer a wide range of elastic mandrel sleeves. For Hastelloy, we offer a wide range of elastic mandrel sleeves. For Monel, we offer a wide range of elastic mandrel sleeves. For Duplex, we offer a wide range of elastic mandrel sleeves. For Super Duplex, we offer a wide range of elastic mandrel sleeves. For Invar, we offer a wide range of elastic mandrel sleeves. For Kovar, we offer a wide range of elastic mandrel sleeves. For Invar, we offer a wide range of elastic mandrel sleeves. For Kovar, we offer a wide range of elastic mandrel sleeves.

## ELASTIC MANDRE SLEEVES

**HANNECARD**  
YOUR ROLLER EXPERT

### ROLL COVERING FOR THE METAL INDUSTRY MANDREL SLEEVES FOR COLD ROLLED & COATED STEEL STRIP

**Assure grip and prevent coil damage**

Elastic mandrel sleeves are used to coil or uncoil cold rolled and coated strip. They assure an excellent grip on the coil and, thanks to their elastic nature, prevent scratches and marks on the strip. Furthermore, elastic sleeves are often used to increase the coil inside diameter.

**We give you 4 good reasons for using Hannecard elastic mandrel sleeves:**

- 1. A product range unique in the market**
- 2. Dimensional precision**
- 3. Technical support**
- 4. Our Solutions**

**STRONG RECOMMENDATION:**

- Excellent functional quality
- Excellent grip
- Excellent resistance to scaling and abrasion
- Excellent shock, expansion and tearing behavior
- Excellent resistance to HCl and H<sub>2</sub>SO<sub>4</sub> acid
- Excellent resistance to high pressure
- Excellent mechanical maintenance and engineering

**MONKAL®**

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## CLEANING & DEGREASING

**HANNECARD**  
YOUR ROLLER EXPERT

### ROLLER COVERING FOR THE METAL INDUSTRY CLEANING & DEGREASING

**Exceptional lifetime, maximum performance**

Most transformations and coating lines for steel and aluminium strips are equipped with cleaning stations in order to remove production oils, dirt, lacquers, and in the cleaning stations, which guarantee a maximum performance combined with an exceptional lifetime.

**Prinastem®: Long Lasting Protection**

Prinastem® technology is based on the combination of acid resistant resins and reinforcing fibers. It provides a high degree of protection against corrosion and offers an almost complete protection against mechanical wear and tear. The result is a long service life.

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## MECHANICAL FORCES

**HANNECARD**  
YOUR ROLLER EXPERT

### ROLLER COVERING FOR THE METAL INDUSTRY MANAGEMENT OF MECHANICAL FORCES

**The production and coating of steel, stainless steel and non-ferrous strip requires a perfect management of traction, tension and cleaning in every step of the process. Covered rollers are often used to improve the friction coefficient on the strip while protecting it against damage.**

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- Excellent grip
- Excellent resistance to scaling and abrasion
- Excellent shock, expansion and tearing behavior
- Excellent resistance to HCl and H<sub>2</sub>SO<sub>4</sub> acid
- Excellent resistance to high pressure
- Excellent mechanical maintenance and engineering

**MONKAL®**

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## COLOUR & CHEMICAL COATING

**HANNECARD**  
YOUR ROLLER EXPERT

### ROLLER COVERING FOR THE METAL INDUSTRY COLOUR & CHEMICAL COATING

**Coil coating applications have gained more and more importance over the years due to the evolution towards value added strip products (steel, aluminium or other non-ferrous materials).**

**Prinastem®: Long Lasting Protection**

Prinastem® technology is based on the combination of acid resistant resins and reinforcing fibers. It provides a high degree of protection against corrosion and offers an almost complete protection against mechanical wear and tear. The result is a long service life.

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## STAINLESS STEEL PICKLING

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YOUR ROLLER EXPERT

### ROLLER COVERING FOR THE METAL INDUSTRY STAINLESS STEEL PICKLING

**Maximum performance and an exceptional lifetime**

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## PASSIVATION & CONVERSION COATING

**HANNECARD**  
YOUR ROLLER EXPERT

### ROLLER COVERING FOR THE METAL INDUSTRY PASSIVATION & CONVERSION COATING

**Most metallic strip products require a passivation or conversion treatment in order to make them suited for use in automotive, construction, household and many other applications.**

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