HANNECARD
YOUR ROLLER EXPERT

ROLL COVERING FOR THE METAL INDUSTRY
STAINLESS STEEL PICKLING

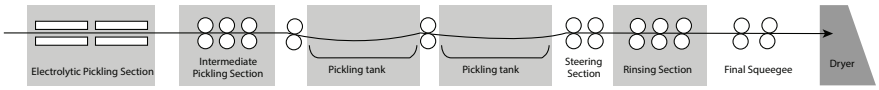
Maximum performance and an exceptional lifetime

THE REQUIREMENTS

- **Pickling solutions based on HF / HNO3 up to** 65 °C and based on HCl or H2SO4
- **Electrolytic salt baths** up to 90 °C
- **De-ionized water**
- **Resistance to edge cutting and strong abrasion**
- **Good steering** properties
- **Non staining**

Compared to classic pickling installations, the pickling process for stainless steel strip is quite exceptional. Not only are these installations more complex - requiring electrolytic and dip pickling - but also the specific use of an HF / HNO3 acid mixture creates a difficult set of conditions for the rubber covered rollers.

Hannecard provides you with a range of customised solutions that guarantee a maximum performance and exceptional lifetimes.



OUR SOLUTIONS

- Excellent **chemical stability**
- Very **high physical and dynamical properties**
- **Non staining compounds**
- **Excellent surface, squeezing and steering behaviour**
- Definition of the right *(crowned)* finish
- **PRINTAM** base layer and total protection technology
- **Mechanical maintenance, repair** and **engineering**

Covering Range		Roll Position				
Possibility	**Covering Type**	**Entry Squeegee**	**Intermediate Squeegee**	**Steering Section**	**Rinsing Squeegee**	**Final Squeegee**
Standard Rubber	**Inoxane** Black, 75 shore A			•	•	•
High-end Rubber	**MetalSqueeze-XP** Black, 70-80 shore A	•	•	•	•	•
	SmartSqueeze Grey, 70-80 shore A	•	•	•	•	•
Polyure-thane	**Hannelyse*** Brown, 75-85 shore A					•
	Everlast Brown, 80 shore A	•	•	•	•	•

* *Combined with our unique total protection layer PRINTAM®*

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PRINTAM® : LONG LASTING PROTECTION

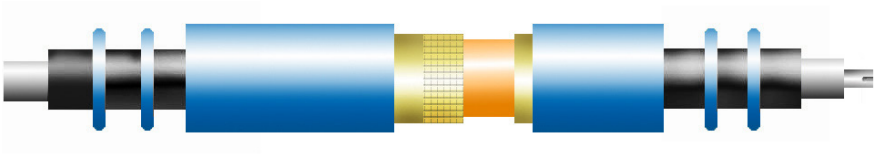
The Printam® technology is based on the combination of acid resistant resins and reinforcing fibres. It replaces the traditional hard rubber (ebonite) base layers and offers an almost complete protection against incidental cut-ins of the metal strip.
As such, acid infiltration and corrosion of the metal core is prevented.

Printam® base layers make it possible to use high performance polyurethane covers without the risk of bonding failures. Indeed, Printam® forms a barrier against vapour penetration through the PU and avoids corrosion underneath the bonding layer.

And there are plenty of other advantages.

THE ADVANTAGES OF PRINTAM®

- Resistant to all degreasing solutions, even at high temperature
- Resistant to edge cutting, as such preventing corrosion due to acid penetration
- Long lasting
- Can accept 10 times recoating
- Repairable
- Reduces the cost of recoating
- Avoids quality degradation of the roller ends
- High bonding strength with all Hannecard rubber and PU covering qualities
- Avoids bonding failures with polyurethane covers, even at high temperature



RELATED DOCUMENTS

- Solutions - **'Steel, Stainless Steel & non ferrous coils'**
- Solutions - **'Cleaning & Degreasing'**
- Solutions - **'Colour Coating & Chemcoating'**
- Solutions - **'Management of Mechanics'**
- Product Information - **'Printam'**

OPTIMISING THE WRINGER QUALITY

Getting the most out of your squeegee rollers does not only depend on the choice of the covering quality.
Hannecard helps you to optimise all parameters and to reach a maximum performance level :

- Failure mode analysis, roller inspection after use
- Measurement and analysis of the pressure nip between the squeegee rollers
- Profile optimizing (cylindrical, parabolic camber...)
- Roller alignment
- Solutions adapted to driven, partly driven and non driven rollers
- Avoid slip and aquaplaning
- Optimizing of cover hardness, thickness and surface aspect
- Optimizing of the working pressure
- Concept improvements : weight, inertia, rigidity, reinforced bearing seats, dynamic balancing, repair and maintenance, material choice, etc.

MORE INFORMATION?

For more information, please contact your local Hannecard partner or visit our website at:
www.hannecard.com