



THE HANNECARD ADVANTAGES

with long service life

0.4 and 3.5 um

ture passivation

applicator rollers

pick-up rollers

Low surface contamination

High purity and homogeneity

Surface finish (Ra-value) between

Optimized solutions for improving the coating thickness and aspect

Adapted solutions for high tempera-

Unique Monkal® technology for

Special thermal spray coatings for

Rubber and polyurethane solutions

Perfect behaviour in contact with all

passivation and conversion products

ROLLER COVERING FOR **HE 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.

In this process, a thin insoluble layer is applied on the surface of the metal strip, giving it one or more of the following properties:

- Corrosion protection
- Improved adhesion layer for future coating
- Lubrication
- Aesthetic improvement

The best known treatment is chromate passivation, but due to increasing concerns about the toxicity of chrome 6 (Cr6+), other products based on chrome 3, titanium and zirconium have been introduced. Also phosphate and fluor based products are often used.

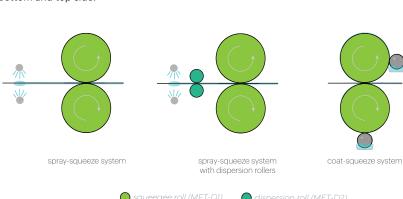
In most cases lastomer coated rollers are used to apply the layer. The play a critical role in controlling the thickness and aspect. Nowadays, often chemical coaters are used, but also spray-squeeze units and combined machines.

Hannecard is a world-wide recognized specialist when it comes to choosing the right rollers and elastomer covers for these applications. Our solutions are based on many years of experience and include professional advice. This allows us to reach the highest quality of the end product, as well as the best service life.

Spray-squeeze & coat-squeeze technology

These methods allow the insertion of small units in horizontal position. As the dosing of the coating is less accurate, the squeegee rollers play an important role in obtaining the required quantity and aspect.

Hannecard offers different rubber and polyurethane solutions, adapted to each specific machine, as well as special surface finishes to perfectly control the layer thickness for both bottom and top side.







Solution	Туре	Characteristics
ClearSqueeze- XPE	Special rubber 50, 60, 70 & 80 shore A Blue	Excellent chemical resistance to all passivation and conversion products, even at higher temperature High purity, non-staining Very good edge squeezing Very good mechanical strength and abrasion resistance New ECO quality
SmartSqueeze TopSqueeze	Special rubber 50, 60, 70 & 80 shore A Green / Grey	Very good chemical resistance to all passivation and conversion products High purity, non-staining Very high mechanical strength and abrasion resistance For high load applications and longer service life
Hannedyn	Special polyurethane 60 shore A Blue	Good chemical resistance to all passivation and conversion products up to 40 °C High purity, non-staining Outstanding abrasion resistance Perfect edge squeezing, due to improved deformability Very long service life between regrinds

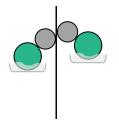
Solutions for dispersion rollers

Solution	Туре	Characteristics
MetalSqueeze-S	Rubber 60, 70 & 80 shore A Black	Standard rubber solution
		Very good chemical resistance to all passivation and conversion products
		Special surface finish for perfect dispersion
MetalSqueeze-XP	Rubber 60, 65, 70, 75, 80 & 90 shore A	Improved rubber solution, improved service life
		Excellent chemical resistance to all passivation and conversion products, also at high temperature
		Special surface finish for perfect dispersion
Hannethane-S	Polyurethane 70, 80, 90 & 95 shore A	Polyurethane solution for highest service life
		 Good chemical resistance to all passivation and conversion products up to 40 °C
		Special surface finish for perfect dispersion





A roll coater, placed in vertical position, guarantees the best controlled application of passivation and conversion chemicals. Stainless steel pick-up rollers are used to improved the dosage. By means of speed differences in forward or reverse direction, both coating quantity and aspect can be perfectly controlled.



Double-sided chemical coating

chemical coater roll (MET-N2)

pick-up roll (MET-N6)

Hannecard provides worldwide the best solutions for the applicator rollers and can also provide long-lasting coatings, as well as surface control for the metallic pick-up rollers.

Solution	Туре	Characteristics
Monkal-4®	Beige 40 - 65 Shore A Polyurethane	Opaque polyurethane Best surface energy (wetting) properties in the market Good chemical stability to most chemicating products up to 40 °C
Monkal-5®	Green 15 - 70 Shore A Polyurethane	 Transparent polyurethane Extended hardness range Improved abrasion resistance Good chemical stability No pick-up of solids, low contamination, easy to clean
MultiCoat-SB	Green 35 - 75 Shore A Rubber	Very high chemical resistance to (acid) surface treatment products up to 80 °C Medium abrasion resistance
MultiCoat-XP	Green 50 - 60 Shore A Rubber	Very high chemical resistance to (acid) surface treatment products up to 60 °C Very high resistance to abrasion and to edge cutting. Maximum lifetime

Solution	Туре	Characteristics
	900 – 1100 HV Chromium Carbide	Very high density and hardness
		Extended lifetime compared to chrome plating
		Shock and impact resistance
		• Thickness 75 – 300 μ
		Possible to apply on stainless steel roller core

MORE INFORMATION?

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