



ROLLER AND SLEEVE COVERING FOR BOARD CONVERTING

Hannecard provides a wide range of roller and sleeve covering solutions especially developed cardboard applications, ranging from feeder rollers to flexographic and rotogravure printing rollers. The enhanced mechanical properties and improved print characteristics of our compounds - both rubber and polyurethane - will help you increase your roller's lifetime, achieve a higher quality level and boost your performance!

Abrasion Resistance

Due to the board's highly abrasive nature, classic roller coverings usually have a very limited lifespan and insufficient quality when being used in board transformation processes.

Hannecard has developed a vast range of compounds that combine outstanding mechanical properties like cut and abrasion resistance with an improved grip. This increases your rollers' lifetime and performance considerably.

Improved print quality

In order to comply with today's print quality demands from the packaging industry, it is important to dispose of printing rollers that meet all the requirements. Hannecard's printing rollers dispose of very good chemical properties, outstanding ink transfer characteristics and excellent rebound properties that will uplevel your print quality.

Feeder & Drive rolls

Solution	Product	Name	Characteristics
Standard	Rubber Single-layered	FeedCart-M Cream 45 shore A	<ul style="list-style-type: none"> • Good abrasion and water resistance • Excellent grip and infeed properties • Non-staining
	Rubber Double-layered	FeedCart-D25/65 Cream 25+65 shore A	<ul style="list-style-type: none"> • Good abrasion and water resistance • Non staining • Soft base layer provides better deformation and infeed
High-end	Polyurethane	Feedcart-XP Blue 40, 45 or 50 shore A	<ul style="list-style-type: none"> • Increased abrasion resistance • Superior mechanical properties (e.g. rebound ...) • Improved pressure resistance • Excellent ozone resistance
Alternative	Rubber	FeedCart-CR Black 75, 85 shore A	<ul style="list-style-type: none"> • Permanent roughness for constant grip and drive properties
	Polyurethane	Hannethane-CR Green 70, 80 or 85 shore A	<ul style="list-style-type: none"> • Permanent roughness for constant grip and drive properties



No Crush wheels

'No crush wheels' are used to prevent damage during the production, transportation and conversion of corrugated board.

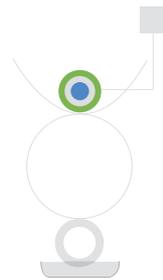
Polyurethane's excellent resistance to impact, abrasion, and tear improves the performance, increases the precision and quality of folding and cutting and provides a longer service life compared to rubber or plastics. Our no crush wheels come in a large number of standard and custom-manufactured sizes and colours.

Advantages

- No sliding of the paper upon the wheel
- Avoiding crush marks on the board
- Straight and stable feeding
- Longer lifetime, reduced down time

Rollers & sleeves for the printing section

Rotogravure printing rollers



Application		Solution*	Characteristics
Impression rollers	Standard	MultiGraf-SB-AS Black - Rubber 65-85 Shore A	<ul style="list-style-type: none"> • Excellent resistance to ozone • Very good resistance to ketonic solvents and acetates • Low resistance to oil and grease • Very good resistance to mechanical load • Good cut resistance
	non-ESA Advanced	HannePearl-AS New polyurethane generation Brown 80-90 shore A	<ul style="list-style-type: none"> • Best possible mechanical & dynamical behaviour, increased service time • Very good chemical resistance against cetones, alcohols. With acetates, to be used in combination with cut-backs to webwidth. • Anti-static covering
Impression rollers	Standard	Performa Rubber 70-90 shore A	<ul style="list-style-type: none"> • Uniform stable resistance • Higher temperature resistance vs. polyurethane • Suitable for <i>topload & sideload</i> systems*
	Advanced	Hanneresist-TL Black - polyurethane 70-80-89 shore A Top load	<ul style="list-style-type: none"> • Very high load resistance, very good dynamical properties with low heat build-up • Remarkable abrasion, cut and tear resistance • High resistance against printing solvents • Compatible with all ESA Top Loading systems
	ESA Advanced	HannePearl New ESA polyurethane generation Black 80-90Shore A Top & direct load	<ul style="list-style-type: none"> • All the possible mechanical & dynamical advantages of a polyuethane covering • Long lasting and stable electrical resistance • Use of the ESA at lower power levels compared to any other coverings • Homogeneous electrical resistance over the roller face • Lower heat build-up in the press • more info: www.hannepearl.com
Laser engraved inking rollers		DoseRight Rubber - Black 60 shore A	<ul style="list-style-type: none"> • Uniform and low volume inking • Low friction coefficient • High wear resistance
Paster rollers for splicers	Standard	MicroGraf Rubber - Black 40 shore 00	<ul style="list-style-type: none"> • Microcellular foam rubber • Constant elasticity • Perfect contact behaviour
	Advanced	MicroGraf+ Rubber - Black 40 shore 00	<ul style="list-style-type: none"> • Microcellular foam rubber sublayer with hard rubber top layer • Constant elasticity • Perfect contact behaviour • Increased abrasion and environmental resistance compared to MicroGraf
	Alternative	SpliceOGraf-XP PU - Yellow 22-30 shore A	<ul style="list-style-type: none"> • High elasticity • Increased mechanical and dynamical properties

* A wide variety of different systems are available on the market, depending on application, producer, load type and deflection compensation type. Hannecard offers specific solutions for every type of printing machine and all kinds of ESA-systems on the market



HanneFlex - Exceptional cut resistance

Flexography printing rollers

Application		Solution	Characteristics
Fountain rollers *	Standard	FlexoGraf-SL Rubber Black 60, 65 & 70 shore A	<ul style="list-style-type: none"> • Excellent mechanical properties • Very good resistance to water based inks • Good abrasion resistance • Good resistance to cleaning products • Temperature resistance up to 110°C
	Advanced	HanneFlex Polyurethane Dark blue 60, 65 shore A	<ul style="list-style-type: none"> • Excellent mechanical properties • Exceptional cut resistance • Excellent abrasion resistance • Outstanding crush resistance
Cliché rollers & sleeves		FlexoGraf-L ** Black 60 shore A	<ul style="list-style-type: none"> • Very good resistance to polar solvents (<i>MEK</i>), esters (<i>acetates</i>), ketones and alcohols • Excellent ozone and water resistance • Remarkable purity and homogeneity

* Fountain rollers can be provided with the required parabolic camber, depending on the machine type.

** This covering can be directly applied either to the metallic cylinder or to a glassfiber sleeve. For further information about our range of glassfiber based sleeves, please get in touch with your nearest Hannecard-partner.

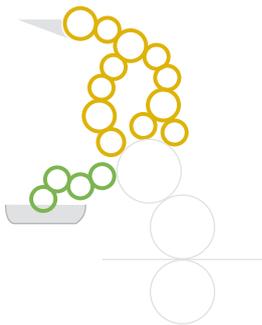


Cylindrical Finish



Parabolic Crowning

Offset printing rollers



Application		Solution	Characteristics
Inking rollers	Standard	MultiPrint-I Rubber Black 25-40 shore A	<ul style="list-style-type: none"> • Very good compatibility with greasy and water based inks • Excellent ink transfer properties • Good abrasion and cut resistance • Excellent wettability • Suited for alternated use of classic and UV inks
	Advanced	MultiPrint-SP Rubber Green 35-45 shore A	<ul style="list-style-type: none"> • Excellent resistance to polar solvents (<i>acetates, alcohols and ketones</i>) • Outstanding wettability • Especially suited for UV coatings and inks • Good abrasion and cut resistance
Dampening rolls		MultiPrint-M Rubber Black 25-40 shore A	<ul style="list-style-type: none"> • Resistant to mineral oils, petroleum based products and aliphatic solvents • Increased dampening properties even with reduced alcohol content

Laser Engraving - Advantages

Compared to the photopolymer system

- **Just one step between prepress and final printing:** no chemical process, no mounting of photopolymer plates onto a cylinder ...
- Laser engraved rubber is **less sensitive to inks** than photopolymer
- Laser engraving technology **enables high-speed printing** while maintaining quality
- **Better abrasion resistance** for laser engraved rubbers (longer lifetime)

Stripping rollers

after printing the cardboard, the shape is die-cut. Then the machine has to separate the pack from the skeleton (the part of the cardboard which is not usable).

For this operation the cardboard is transferred between a covered roll for stripping cylinder and a metal roll.

Solution	Characteristics
HanneStar- AS Rubber Black 80 shore A	<ul style="list-style-type: none"> • Excellent resistance to mineral and vegetal oil, fuel, grease and (animal) fat • Very good physical properties, tear and abrasion resistance, good elasticity and resilience • Antistatic

Why choose the hannecard EasySleeves® :

- **Optimized design** : all EasySleeves® are designed to have optimal thickness, structure, material & flexibility to get the maximum result for every application.
- **Optimized composition** : the newest resins, reinforcements & additives guarantee an unseen shape stability, lifetime and control of the electrical properties.
- **Optimized bonding** : the combination EasySleeve® + Hannecard elastomer cover guarantees the highest bonding strength in the market.



TAPERED SLEEVES FOR ROTOGRAVURE APPLICATIONS & CYLINDRICAL SLEEVES FOR FLEXO PRINTING



As a further improvement of the old "Speedwell" standard, Hannecard developed EasySleeve®.

EasySleeve® has been specifically optimized for the demanding needs linked to laminator, impression and coater rollers. The shape and dimensions are chosen for easy mounting, yet high stability and lifetime in every application, even for big-size sleeves. Hannecard also supplies different kinds of mandrels (standard and low deflection), both to OEM and end-users.

The Hannecard EasySleeves® comply with all existing machines in these industries. The unique features and benefits of the Hannecard EasySleeves® are:

- Comply with old "Speedwel" standard
- Enable new dimensions (after sale service)
- High insulation if required
- High conductivity if required
- different combinations possible: Insulating inner layer + conductive outer layer or conductive inner layer + insulating outer layer
- Associated to bonding system of the rubbers and the polyurethanes fine-tuned by application

Increase Your Performance with Hannecard !

- **A unique product programme:** Hannecard manufactures **both rubber and polyurethane roll coverings** to better respond to your needs.
- **Proven solutions:** Hannecard is the preferred supplier of many OEM companies in the packaging sector.
- **Geographically close:** Various production units, joint ventures and licensee partners worldwide assure an **increased reactivity**.
- **3 laboratories** work constantly on developing new compounds and on the performance optimisation in all industrial areas we work for.
- **Supply from A to Z:** new roller cores, metal and composite rollers, assembled rollers.
- **Guaranteed performance:** reliable quality and increased lifetime.

MORE INFORMATION?

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