



ROLL COVERING FOR BOARD CONVERTING

Hannecard provides a wide variety of roll covering solutions for the transformation of board - 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!

YOUR REQUIREMENTS

- Good **resistance to abrasion**
- **Excellent grip** properties
- Outstanding **print quality**

Abrasion Resistance

Due to the cardboard's highly abrasive nature, classic roll 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 AND DRIVE ROLLERS

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.

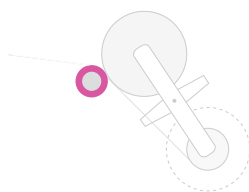
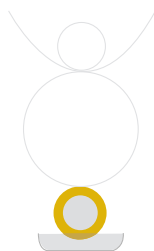
Polyurethane's excellent resistance to impact, abrasion, and tear improves the performance, increases the precision and quality of folding and cutting and provides a longer service life compared to rubber or plastics. Our no crush wheels come in a large number of standard and custom-manufactured sizes 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	PressoGraf-SL Rubber - Black 70-85 shore A	<ul style="list-style-type: none"> • Outstanding resistance to high loads and mechanical efforts • Very good water repulsive properties > <i>no deformation</i> • Very low hysteresis • High cut resistance • Antistatic
		PressoGraf-SB Rubber -Black 70-90 shore A	<ul style="list-style-type: none"> • Excellent proof against water & ozone • Increased chemical resistance against ketones, alcohols & esters • Antistatic
	Advanced	PressoGraf-XP PU - Black 90 shore A	<ul style="list-style-type: none"> • Outstanding resistance to high loads and mechanical efforts > <i>increased service times</i> • Excellent cut and abrasion resistance • Anti-static
Impression rollers for ESA-printing	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 Polyurethane 70-90 shore A	<ul style="list-style-type: none"> • Increased abrasion resistance (<i>3 x higher than rubber</i>) • Superior cut resistance (<i>1.5 x higher than rubber</i>) • Lasting and stable electrical resistance • Homogeneous electrical resistance over the roller face • Suitable for <i>topload</i> and <i>direct load</i> systems *
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

Flexography printing rollers



HanneFlex - Exceptional cut resistance

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
		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 (MEK), esters (acetates), 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.

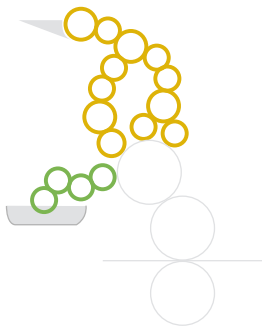


Cylindrical Finish



Parabolic Crowning

Offset printing rollers



Application		Solution	Characteristics
Inking rolls	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 (acetates, alcohols and ketones) • 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)

FIBERGLASS SLEEVES

EasySleeve Series

Next to its comprehensive range of compounds, Hannecard has added a series of in-house designed and manufactured fiberglass sleeves that come in a wide range of dimensions.

For rotogravure applications, the following sleeve types have been developed:

- **Insulating sleeves**
- **Conductive sleeves**
Thanks to the matrix-type structure of these sleeves, Hannecard guarantees a volume resistivity lower than 10 kOhm. In combination with our conductive elastomers, it enables the effective static discharge to the metal core
- **Novelty : Semi-insulating sleeves**
Specially developed for ESA gravure printing on materials with a risk of static load build-up. These sleeves have a slightly reduced resistivity between 0,8 and 2 GOhm.

For flexography, cylindric rubber covered sleeves - according to Stork dimensions - can be obtained, both with a smooth and laser engraved finishing.

RELATED DOCUMENTS

- Solutions - 'Flexography'
- Solutions - 'Rotogravure'
- Product Information - 'MicroGraf'
- Product Information - 'HanneFlex'

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