

# FLEXOGRAPHY ROLLER COVERING INCREASE YOUR ROLLER PERFORMANCE & REDUCE DOWNTIME COSTS

In the past few years, the complete environment of flexography has been continuously the object of a strong evolution, thanks to enhanced print substrates and a large number of technological advances like e.g. improving sleeve technology, new types of printing plates, redesigning the printing presses, and refining roller covering compounds..

## FLEXOGRAPHY - THE ADVANTAGES

- A **constantly improved** quality.
- A **highly flexible** use .
- **Short change-over times** from one printing job to the other.
- **Ideal for** editions in **small volumes**.
- **Cost-saving**.

## DESIRED PROPERTIES

- Chemical resistance
- Hardness
- Good ink transfer
- Resilience
- Ozone resistance
- Abrasion resistance

## MORE INFORMATION?

For more information, please contact your local Hannecard partner or visit our website at: [www.hannecard.com](http://www.hannecard.com)

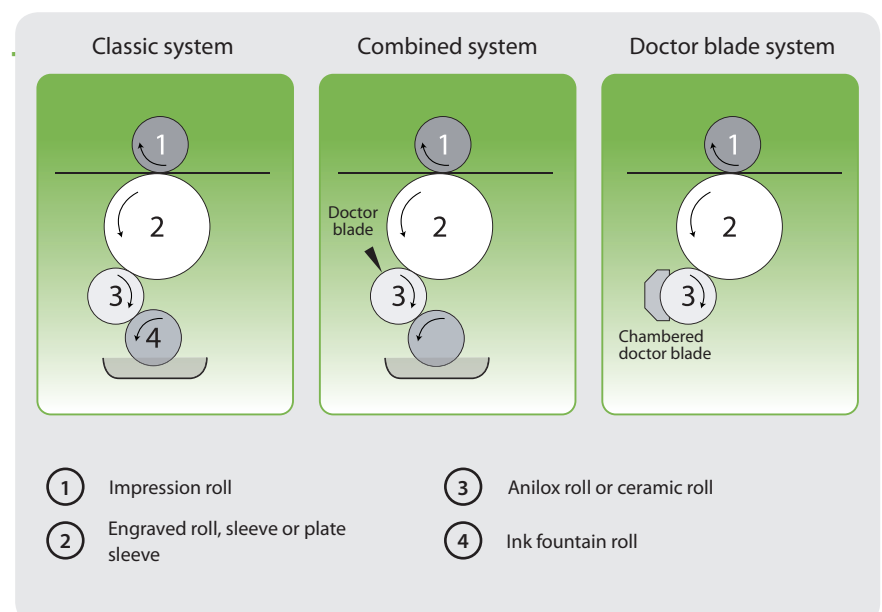
The selection of a suitable roller covering is a key element that determines the quality of your end product. Elastomer compounds are used in the following flexo areas: ink fountain rollers, laser engraved cylinders or plate sleeves.

The most important feature is undoubtedly the chemical resistance. The flexo industry uses a wide variety of products that contain solvents and chemicals that control the ink viscosity. A good chemical resistance is therefore a decisive element whether it comes to choosing the right elastomer.

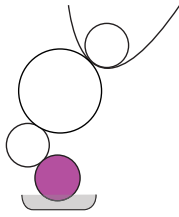
Some other important characteristics are the ink transfer qualities, hardness and abrasion resistance.

All elastomer compounds contain a number of properties that make it appropriate for a given application. However, every situation is different. Therefore it might sometimes be desirable to adapt a roll covering so that it suits your needs.

We kindly invite you to take a look at the range of compounds we have developed for the flexo industry.



## INK FOUNTAIN ROLLS



The *ink fountain roll* is used to take up the ink and deposit it upon the surface of the cylinder or sleeve, which can be either engraved or not, using a screen roll (or «*anilox*» roll). In some cases, it is replaced by the chambered doctor blade (*image 1*) or more and more often, by combined systems installed on new equipments.

We offer you qualities with high chemical

resistance, which assure a good ink transfer, that are good compression resistant and that have a long lifetime.

According to the specifications of your machine manufacturer, or once the mould form has been taken by our technicians, we can produce a cylindrical or a barrel-shaped cambered finish. This is to ensure a nip on the whole length of your cylinder.



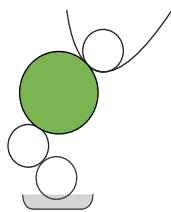
Image 2 - **HanneFlex** - Exceptional cut resistance

Type d'encre	Nom	Produit	Caractéristiques & Avantages
Water based inks	<b>FlexoGraf-SL</b> Black 60, 65 Shore A	Rubber	<ul style="list-style-type: none"> <li>• Excellent mechanical properties</li> <li>• Very good resistance to water based inks</li> <li>• Good abrasion resistance</li> <li>• Increased resistance to oils, alkaline products and diluted acids</li> </ul>
	<b>HanneFlex</b> Dark blue 60, 65 Shore A	Polyurethane	<ul style="list-style-type: none"> <li>• Exceptional cut resistance</li> <li>• Excellent abrasion resistance</li> <li>• Outstanding crush resistance</li> </ul>
Solvent based and UV inks	<b>FlexoGraf-SB</b> Black 70 Shore A	Rubber	<ul style="list-style-type: none"> <li>• Very good resistance to polar solvents (MEK), esters (acetates), ketones and alcohols</li> <li>• Very good abrasion resistance</li> <li>• Remarkable dynamic properties</li> </ul>

## ENGRAVED CYLINDERS OR PLATE SLEEVES

It is this very cylinder that applies the ink to the print substrate. On this position you will find either :

- **The metallic cylinder** which is rubber covered and laser engraved or not;
- or **the metallic cylinder** onto which is fixed a photopolymer printing plate;
- or a **laser engraved (or not, such as for the covered cylinder) sleeve** that is slipped onto a pneumatic core holder ;
- or a **photopolymer plate sleeve** that is slipped onto a pneumatic cylinder. This covering



### LASER ENGRAVING - ADVANTAGES Compared to the photopolymer system

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

Product Name	Product	Characteristics and advantages
<b>FlexoGraf-L</b> Black 60 Shore A	Laser engravable rubber	<ul style="list-style-type: none"> <li>• Very good resistance to polar solvents (MEK), esters (acetates), ketones and alcohols</li> <li>• Very good resistance to UV and solvent based inks</li> <li>• Excellent ozone and water resistance</li> <li>• Remarkable purity and homogeneity</li> </ul>

type is applied either directly onto the metallic cylinder, or onto a fibreglass sleeve, **EasySleeve-CY**, which allows a large flexibility in decoration change.

