

# Technical roller systems

## Rubber roller coverings

### Spreader rollers

 **LÜRAFLEX®**  
Gerhard Lückenotto





Success based on tradition and innovation



**LÜRAFLEX®**



Since the founding of **LÜRAFLEX** in 1949, the company has never ceased to respond to the demands of the market. Our incentive is to develop solutions to your problems. It is our ultimate goal and one which we strive to fulfil with passion. Our aim is to be the preferred supplier for all rubber rollers. This applies in particular, to fields of application that require crease-free web guiding. At our site in Neuss, our qualified workforce produce high-quality rollers made from a variety of roller core materials with varying, specially designed elastomer coverings for many industries.

We produce your **LÜRAFLEX** rollers so that you can optimize your production processes with regard to quality, time and conservation of all resources. Being perfectionists, we are not satisfied until we have found the optimum solution for your application.

Continuous innovations and associated investments are as commonplace to us as the pleasure in providing creative solutions to problems and our passion for ensuring top quality in the perfect production process.

We invite you to view the following pages. Put us to the test.

Your **LÜRAFLEX** team.





## Functional rollers for use in various industries

We produce varying rubber roller coverings, spreader rollers, hoses and sleeves for reels for our customers.

Our products are designed and manufactured to meet the mechanical, thermal and chemical requirements of your production process. The material depends on the required use and the actual strain that the rollers are subject to. Thanks to its long years of experience and expertise **LÜRAFLEX** is in a position to choose the best possible material for your application. We have a wide range of special and innovative polymer-based material solutions, e.g. CR, CSM, EPDM, FPM, NBR, NR, SBR, silicone and PU.

**LÜRAFLEX** rollers and roller systems are employed in various industries and machine construction, e.g.:

- Paper industry (details see Page 6/7)
- Converting and plastic film industry (details see Page 8/9)
- Metal industry (details see Page 10/11)

## Additional industrial applications:

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### Foodstuffs industry

- Milk roller dryers
- Almond peeling rollers
- Form rollers



### Leather industry

- Tanning rollers
- Rollers for fleshing machines
- Rollers for leather splitting machines
- Guide and draw rollers



### Textile and non-woven industry

- Spreader rollers
- Sink rollers
- Squeeze rollers
- Pressing rollers
- Transport rollers
- Contact rollers
- Deflector rollers
- Draw and brake rollers



### Machine construction

- Transport rollers
- Drive rollers
- Roller coverings etc.

## Functional rollers for the paper industry

Rollers with an elastic covering are used in the manufacture and further processing of paper. They are an integral part of the continuously operating systems at each stage of production.

**LÜRAFLEX** roller coverings in the appropriate quality have been successfully used under diverse, and to a certain extent, under extremely difficult working conditions for decades.

## Paper industry

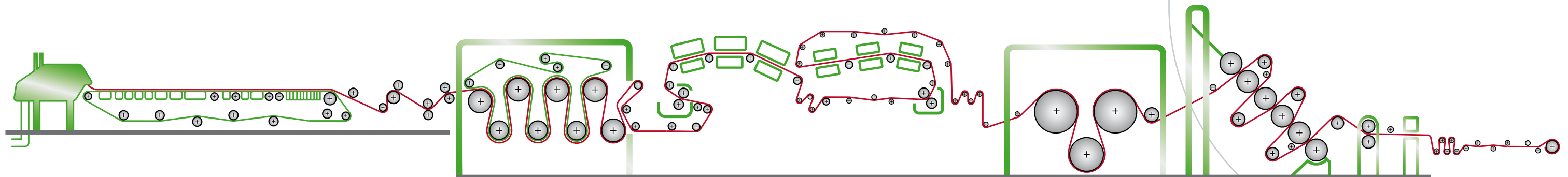


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The strain on the rubber roller coverings used in the paper industry are extremely complex. High abrasion resistance, high elasticity, outstanding damping, optimum sheet release, excellent dynamic features with high resilience are just a few of the requirements that the rubber roller coverings have to fulfil during use.

## Extract from our product portfolio:

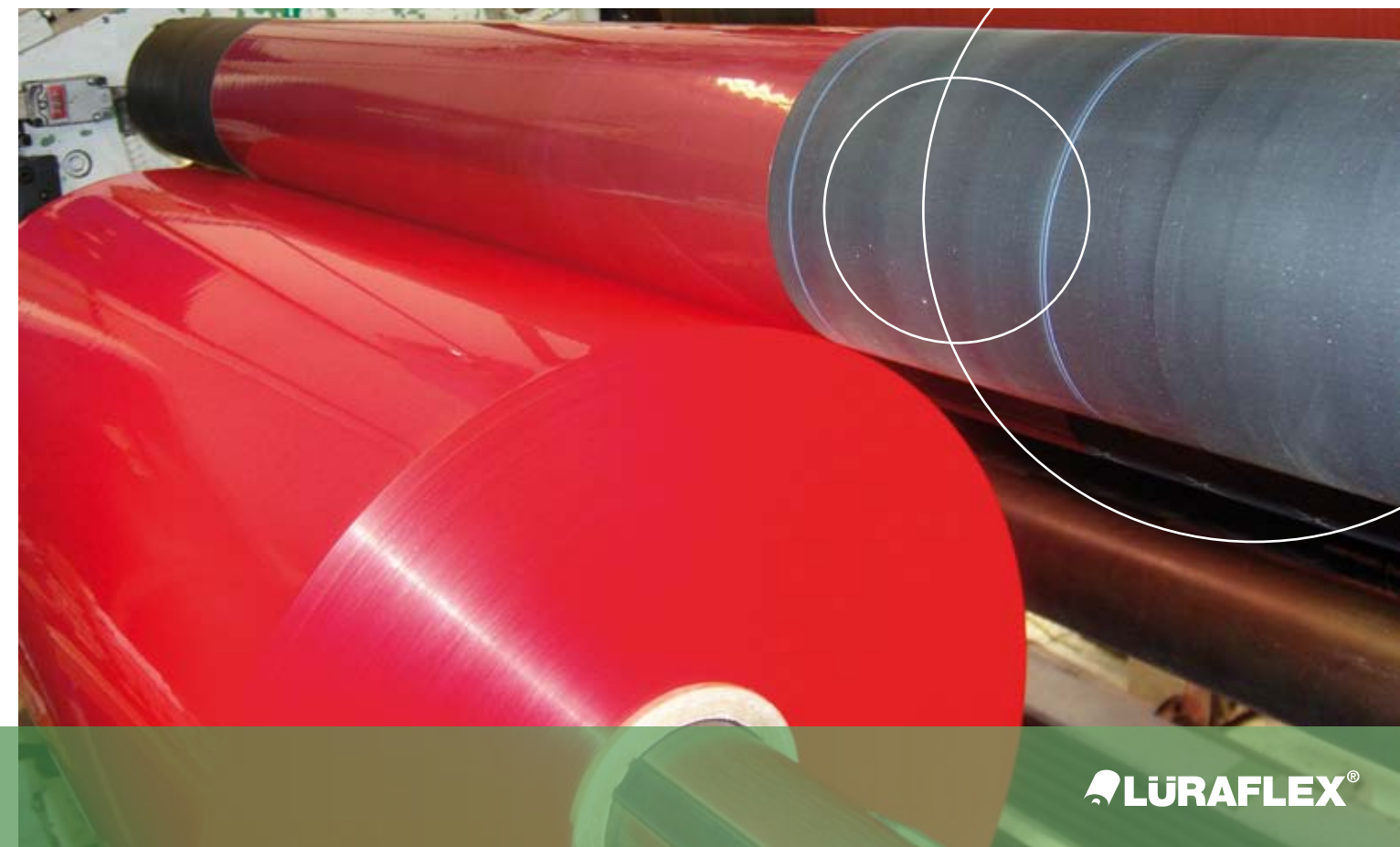
- Wire rollers
- Driving rollers
- Felt rollers
- Paper rollers
- Coater rollers, coater backing rollers
- Splice rollers for flying splice
- Contact rollers for winders (Sensomat rollers)
- Tambour rollers
- Pre-heating rollers
- Spreader rollers
- Air chamber rollers





## Functional rollers for the converting and plastic film industry

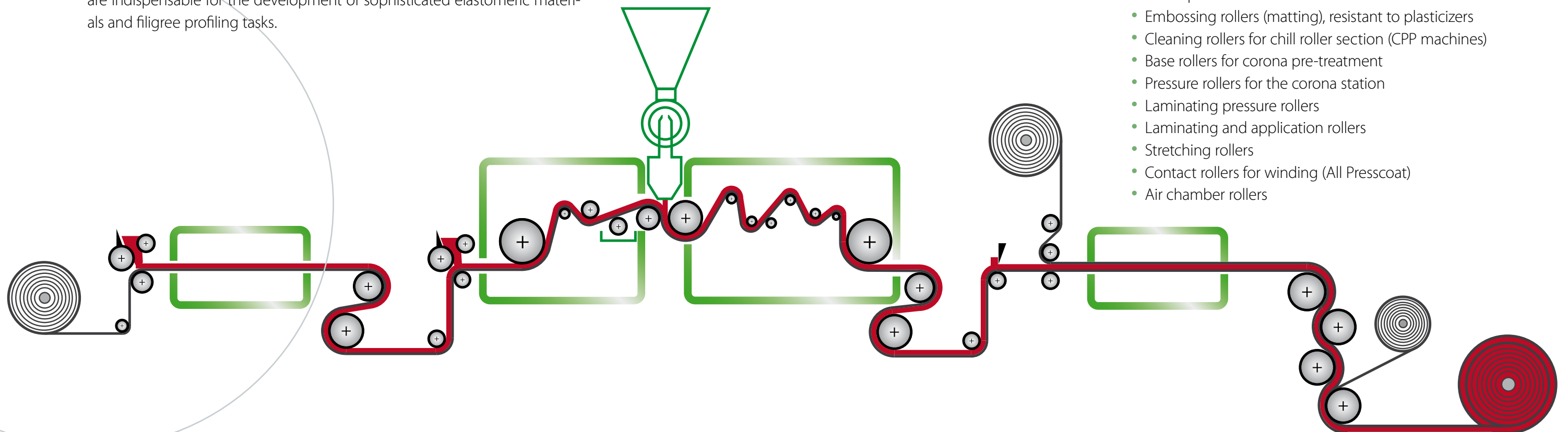
The use of different chemicals in the converting and plastic film industry frequently affects the rubber roller covering, e.g. solvents and plasticizers, gases and high process temperatures. For some applications the rollers must have an electrically conductive covering.



## Converting and plastic film industry

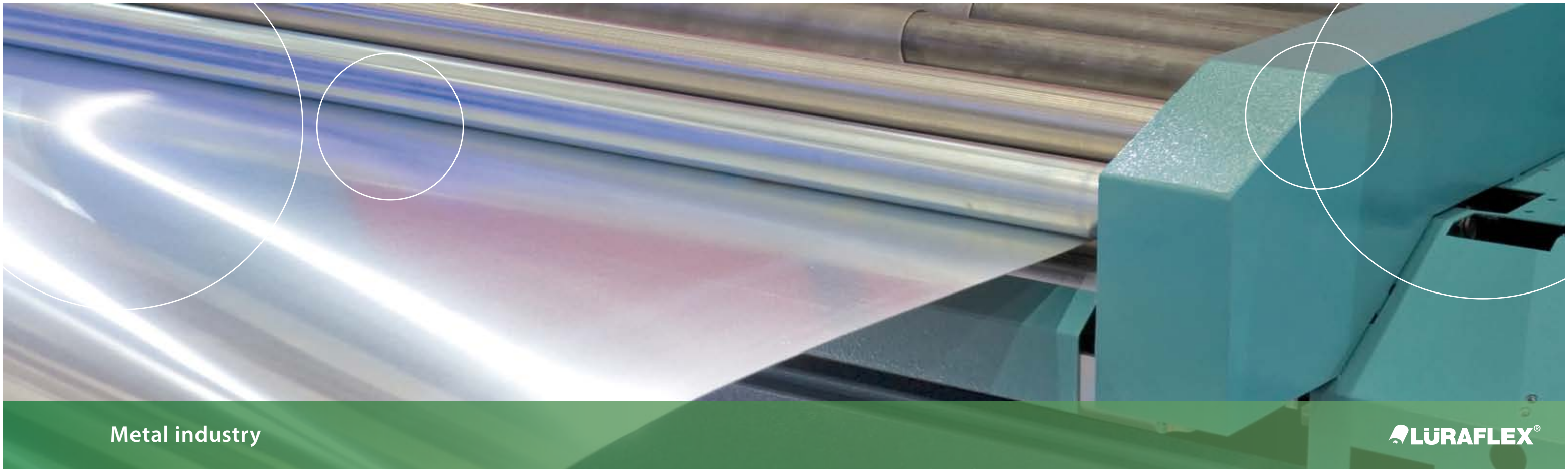
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Materials, processes and requirements undergo continuous development. Complicated web guides, increasing speeds and both complex materials and composites require appropriate solutions. The close proximity to the processes and the continuous communication with the engineers on site are indispensable for the development of sophisticated elastomeric materials and filigree profiling tasks.



## Extract from our product portfolio:

- Spreader rollers
- Draw, transport, guide and deflector rollers
- Take-up rollers
- Embossing rollers (matting), resistant to plasticizers
- Cleaning rollers for chill roller section (CPP machines)
- Base rollers for corona pre-treatment
- Pressure rollers for the corona station
- Laminating pressure rollers
- Laminating and application rollers
- Stretching rollers
- Contact rollers for winding (All Presscoat)
- Air chamber rollers



# Metal industry



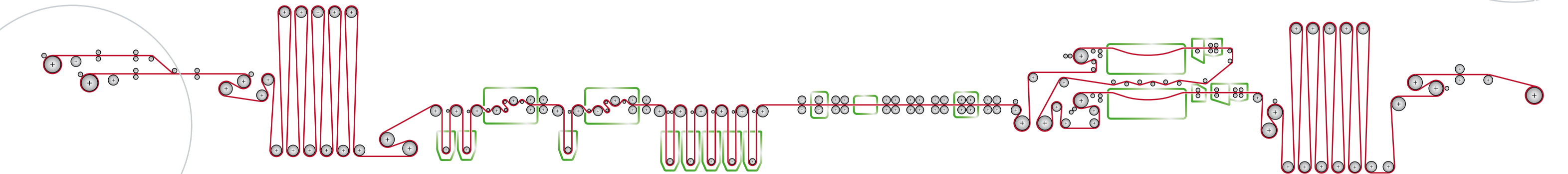
## Functional rollers for the metal industry

Rubber rollers and sleeves for wind-off or pay-off reel used in the production, treatment and finishing of steel, stainless steel, aluminium and non-ferrous materials suffer severe stress. In addition to high mechanical stress caused for example by sharp and rough strip edges or welded strip ends, the rollers and coverings are often subject to high temperatures and the effects of oil, rolling emulsion and various acids in pickling lines.

We produce a variety of roller systems for the metalworking industry.

## Our product portfolio includes:

- Pickling rollers
- Sink rollers
- Squeeze rollers
- Pressure rollers
- Transport rollers
- Sleeves for wind-off or pay-off reel
- Draw and brake rollers
- Pinch rollers
- Guide rollers
- Smoothing rollers

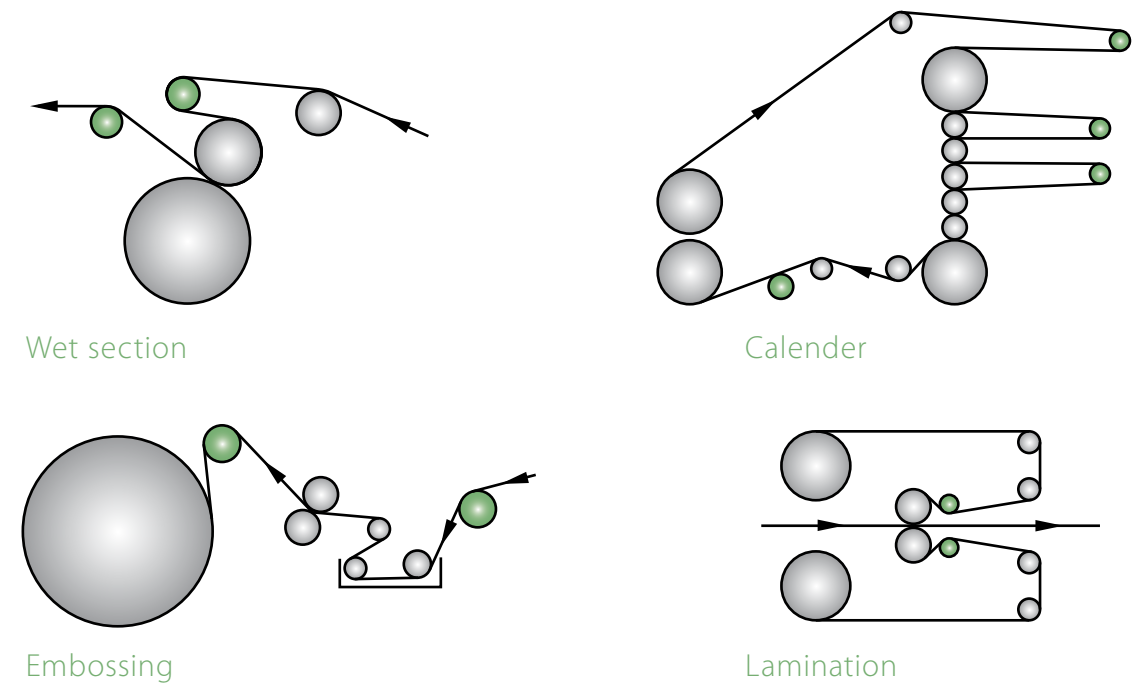




## LÜRAFLEX Spreader Rollers

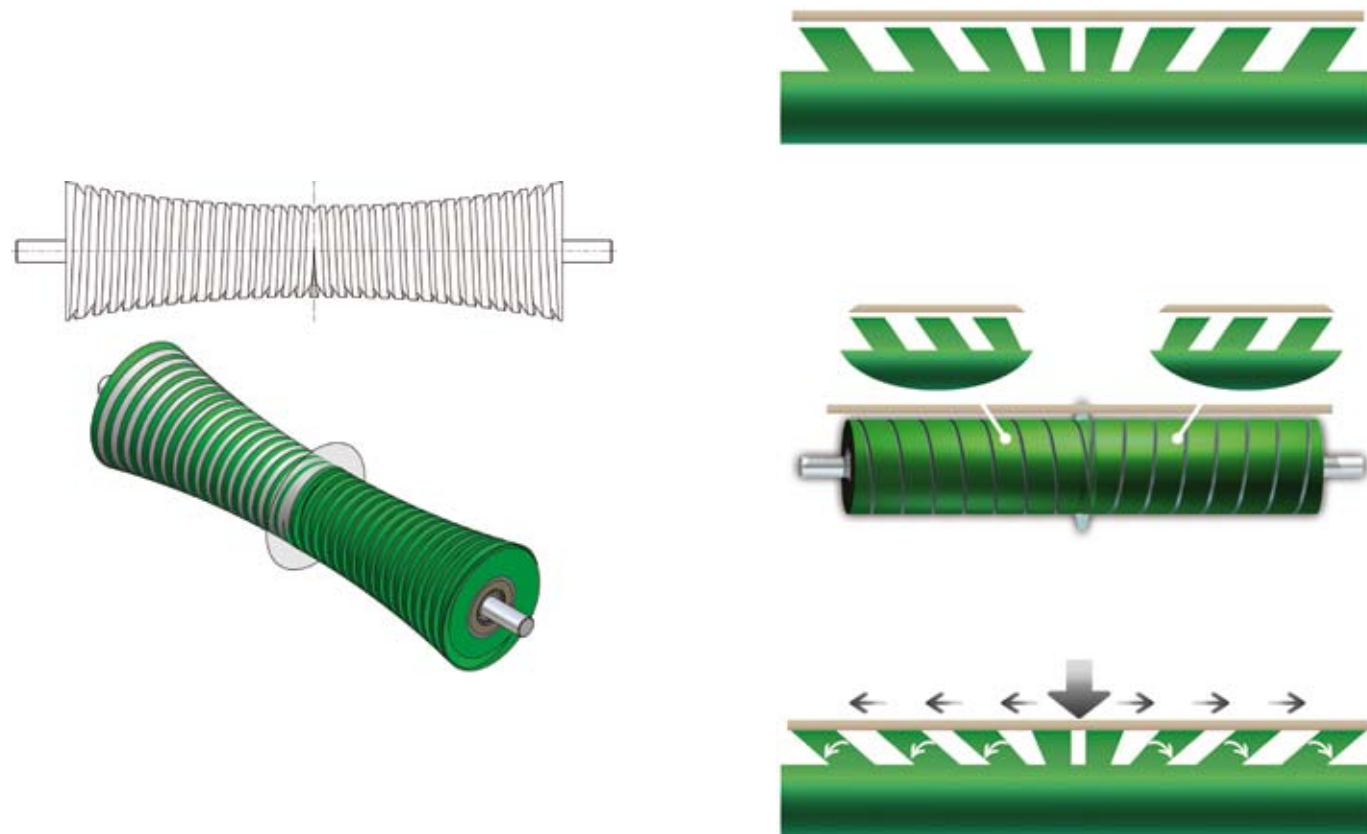
are used for the removal of creases from different material webs. Effective performance is obtained by a special profiled surface. Even virtually tension-free materials are smoothed. The wrap angle ( $10^\circ - 180^\circ$ ) together with the web tension provides a sideways spreading action to give the desired result.

Our spreader rollers are designed specially to meet our customers' requirements. For optimum results we currently use numerous different profiling tools for our spreader rollers which enable us to cope with even the most difficult challenges.



## Spreader Rollers

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Our spreader roller system has to a large extent a cylindrical form. It can be used for virtually all types of material webs and requires no drive. Thanks to its cylindrical shape the roller geometry requires no complicated adjustment. The **LÜRAFLEX** system can be used for numerous processes and provides excellent spreading results not only at low but also at high speeds. The special construction has the effect that the profiles function as small spring assemblies and thus ensure a stable material web.





Complete traceability of the process chain from the receipt of the individual components and processing to the delivery of the finished LÜRAFLEX rollers ensures consistent high product quality.



With great passion and attention to detail, we produce at our site in Neuss high-quality roller systems on an area of approx. 4000 m<sup>2</sup>.  
We produce rollers up to a length of approx. 9500 mm, with a max. Ø 1550 mm and/or a weight of up to 12 tons.  
Optimum metal binding to the roller core constitutes the basis for long-term use of the highly stressed rubber roller coverings.

Modern roller covering technologies provide homogenous roller coverings for the most sensitive applications.  
Surface treatment includes turning, grinding, profiling and drilling and is a key factor of many functional rollers.  
Dimensional checking, balancing and final acceptance of the LÜRAFLEX rollers ensure and document not only the agreed specifications but also a high quality of the system and the service provided.



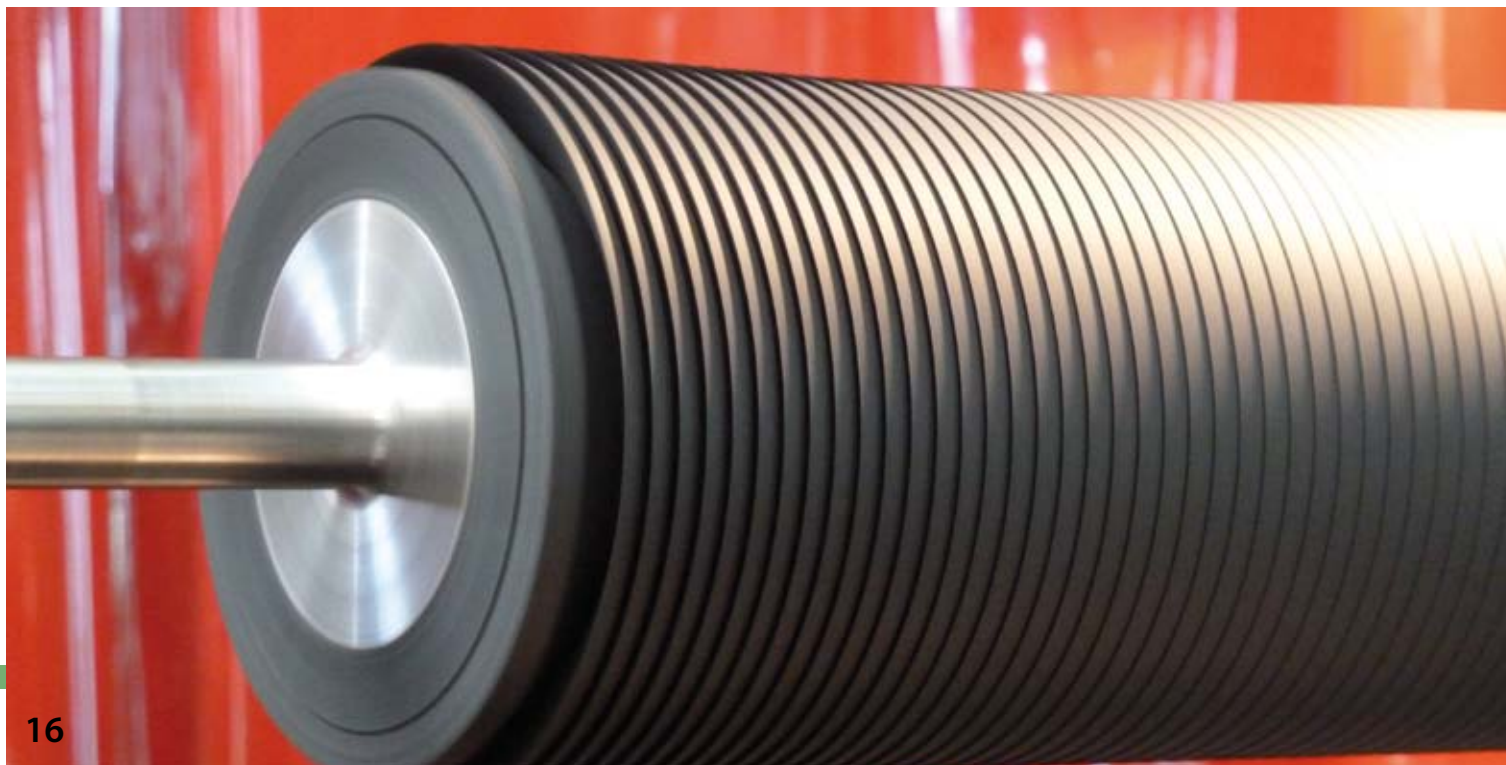


## Production



### Profiling

The partially CNC-controlled machinery and the experience gained over the past years enable us to incorporate complex geometrical profiles in the covering of the roller.



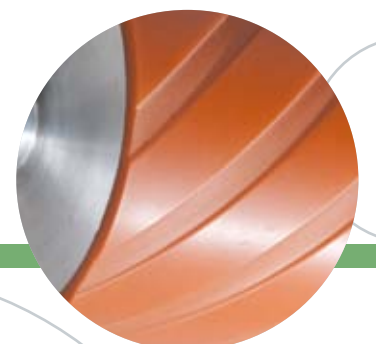
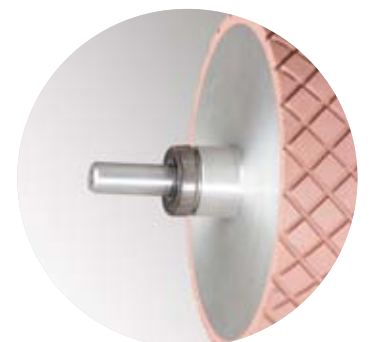
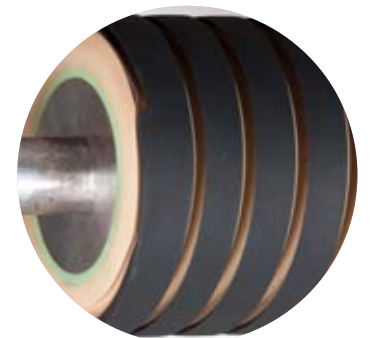
### Available profiles

using different processes e.g.  
Turning, milling, cutting, grinding, thermomechanical

using different geometries e.g.  
V-profile, cross profile, radial and axial profile,  
spirals both degressive/progressive

using different designs e.g.  
Rounded to groove base/square, rounded outer edge,  
broken, sharp edged

with variable groove depth, e.g.  
Groove depth adapted to roller crown,  
groove depth convex/concave





## Our quality and our commitment

Our holistic approach is reflected in our quality standards. Our aim is to recognize the requirements of our customers and to comply fully with all individual agreements that have been made.

This guiding principle is geared to maximum customer satisfaction and thus in turn to long-term business success for the members of the organisation and the company.

Our quality management system is based on the principles of DIN ISO 9001:2008 and applies to all our members and their involvement in our organisation. It creates transparency of the processes, a clear organisational structure, an increase in performance and a reliable traceability of our products. An internal control system provides us with a basis for continuous further development.

We feel obliged to comply with the international quality, environmental, energy and occupational safety standards and to continuously improve same. Our aim in this respect is to supply top quality products and simultaneously conserve resources by providing creative solutions to customers' problems.

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