



## **Böttcher**Tec

Roller Solutions for the Wood and Furniture Industry



Systems ►► Industry

# EXPERIENCE + KNOW-HOW



## Our Commitment, Your Advantage:

### ■ Highly developed Products

**BöttcherTec** Roller covering materials in rubber and polyurethane, specially designed for the forestry and furniture industry, hardness and temperature resistance tuned to the specific requirements of each process step. Outstanding quality for stable processes, long roller life and minimum downtime.

### ■ Global Presence

Central rubber compounding in our highly automated mixing facility ensures identical quality and material characteristics wherever in the world you are. Local application on rollers in our 20 roller manufacturing plants provides local service and short lead times.

### ■ Complete, systematic Solutions

Individual support and material selection on site by our technical support staff. Laboratory tests help identify any compatibility issues with stains, varnishes, adhesives, etc. before they have a chance to negatively impact your process. Fast and cost-effective service all over the world through our manufacturing network – Böttcher is always close to you!



### ■ In-depth Application Competence

For decades, Böttcher has been working with customers at all levels in the production and processing of wood and wood-based products to fine-tune the performance of roller materials to fulfill the ever-increasing demands of the industry. Unrivalled technological capabilities and laboratory equipment make it possible to develop and produce materials which transcend the limitations of conventional roller coverings.



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## Forestry and Furniture: Materials for a Sustainable Future

Wherever we go and whatever we do, wood is an integral part of our lives: we walk and sit on, sleep in and live under furniture, floor coverings and roof constructions made of wood. As a material, wood keeps us in touch with nature, exudes warmth, security and individuality – no two pieces of wood are the same. Wood is at the centre of discussion on climate change and irrevocable environmental damage: the demand for high-quality wood jeopardizes the tropical rain forests and with it countless species of birds and animals whose home they are. At the same time, scientific studies show that wood as a building material can significantly reduce the carbon emissions and the

environmental impact of construction projects. Sharing the planet and ensuring a sustainable supply of wood at all stages in its development is a task which confronts us all. Between ecology and a rapidly growing global population requiring homes and furniture, the wood processing industry faces a multitude of challenges: preserving the fabric of nature while often bringing welcome jobs to rural and otherwise under-developed regions, the industry fulfills both an economic and a social function. And as a supplier of long-term and global partner to the industry, the Böttcher Group helps the industry to take on and master the challenge.

## Böttcher: Global Partner of the Wood-Processing Industry

As the world's largest roller manufacturer, with 20 factories in 14 countries, Böttcher develops and manufactures elastomer roller coverings specifically tailored to the requirements of wood processing. All our rubber compounds are produced in our central mixing facility in Germany, ensuring consistent quality all over the world, while our international roller manufacturing network guarantees local service and short delivery times. Wherever you are in the world, you can rely on Böttcher for product supply and support.



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## BöttcherTec Rollers: Tailor-made for each Step of the Process

Every stage in the processing of wood and the manufacturing of furniture, floor coverings and construction materials poses its own challenges. In each operation – sawing, sanding, staining or varnishing – the roller coverings have to be specifically designed to withstand the specific chemical and mechanical demands of the process. The chemicals involved in these processes can attack, prematurely age and even destroy the roller

coverings. From the development of the roller material to conducting compatibility tests in our extensive laboratories, we at Böttcher use our experience and our know-how to help you pick the right roller coverings and keep your process running smoothly. Roller hardness, temperature resistance and surface finish all have to be tailored to the specific requirements of each process step. For example, our porous rubber coverings for stain-

ing are available in a range of pore structures and densities, ensuring the correct transfer pressure and volume for each type of material. To help you optimise your sanding process, we offer roller coverings in a variety of durometers and with different gradients in the surface profile: harder coverings and steeper gradients remove more material, softer rollers and flatter profiles enhance the smoothing and polishing effect.

### Mechanical properties of roller coverings

- **BöttcherTec** roller covering materials are very wear-resistant and will outlast most other rollers
- For particularly tough applications (e.g. doser rollers) we have developed hard rubber and polyurethane coverings
- Special surface finishes guarantee good traction (important for transport rollers, etc.)
- Anti-aging additives make the materials resistant to ozone and UV light
- High elasticity, less edge marking

### Chemical properties

- Formulated to stand up to water- and oil-based coatings, stains and other process chemicals
- Roller surface does not become tacky, remains easy to clean
- Anti-adhesive coverings for laminating
- Coverings do not stain or mark the wood

### Special features

- Special grooving options (e.g. Optiroller for precise dosing and transfer when varnishing)
- Porous rubber coverings in a range of durometers and densities

## Set and forget: How Roller Quality makes your Life easier

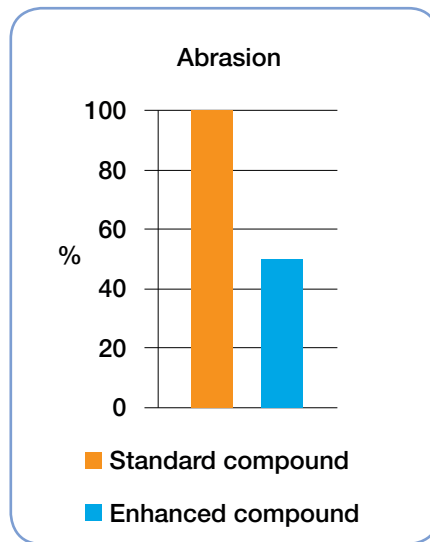
You know your machines and processes better than anyone, we know our materials and their influence on the result. Putting our joint knowledge to work enables the selection of the best material for your roller needs. When conducting on-site trials or investigating problems, we will be right there at

your side to support you in finding the best possible solution. We are happy to analyze your process requirements and develop customized materials to deliver the results you need. We see ourselves as a “Productivity Provider”: your rollers should simply do the job, day after day, week after week. Stable

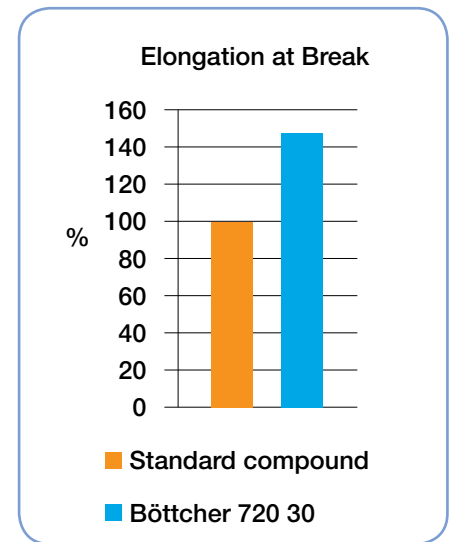
performance and a long life cycle mean that in future you can concentrate more on your process and product quality, without being distracted by roller issues. That’s what we mean when we say “Set and Forget”: install, set and then concentrate on getting the best results from your process.

Wood is a natural material and as such subject to diversity and irregularity. It requires roller coverings specifically designed to accommodate these variations: differences in surface roughness and material thickness can cause friction and varying mechanical loads during processing, leading to premature wear of the rollers. Roller materials specifically designed to be simultaneously more elastic and mechanically robust counteract this and extend roller life.

Coating rollers must be chemically resistant to the different varnishes and at the same time lay down an even coat. Coating edges and grooves is particularly challenging: to achieve an even distribution of the material, the roller covering has to deform and adapt



to the uneven surface. This causes localized stretching of the elastomer covering, which in time can cause the



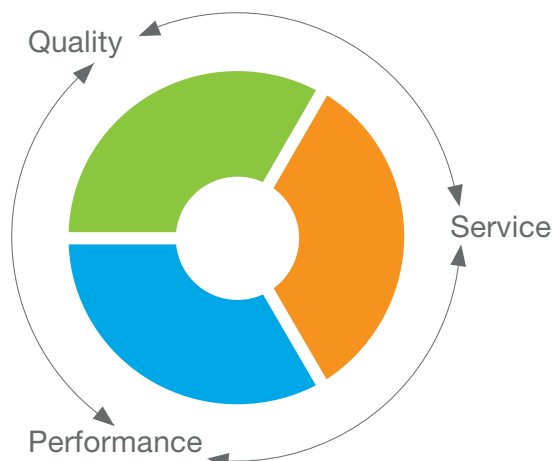
material to rupture. The correct balance of malleability and tensile strength is a hallmark of Böttcher roller materials.

## Rely on us for Quality, Service and Performance

**Böttcher quality** is not merely the result of a tightly controlled production process. It also requires a great deal of research and development. We test 3,000 new compounds for rollers every year, for example. Of those, the field is narrowed to 300. And only the 30 materials that meet our requirements without reservation eventually reach the market – so that you can be sure of working with the best possible solution at all times.

**Böttcher service** combines the experience gained over 280 years with state-of-the-art know-how and ambitious commitment to our products and our customers. That gives you the assurance of having a reliable partner who knows his business and has his eye on future developments to be prepared for each new trend and challenge.

**Böttcher performance** has only one objective: to make you even more productive with our high-quality solutions. We make your concerns our concerns, so that your processes become even more reliable and your operations more economical and efficient.



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