



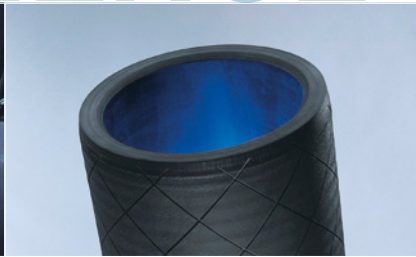
***Böttcher*Tec**

Roller Solutions for the Tissue Industry



Systems ►► Industry

EXPERIENCE + KNOW-HOW



Our Commitment, your Advantage:

■ Highly developed products

BöttcherTec Roller covering materials in rubber and polyurethane, specially designed for tissue production, 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 reinforce the selection and identify any compatibility issues 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 converting of tissue paper 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.



Systems ►► Industry



Paper Tissue: The modern Lifestyle Product

Few materials are so closely interwoven with the everyday life of millions of people all over the planet as tissue paper in all its forms. From simple functional wipes to high-end cosmetic and hygiene products, tissue accompanies us as human beings – literally – from cradle to grave. Tissue has long left behind the days when it simply performed a function: today, it has evolved into a true “lifestyle” product, appealing to the senses of

touch, smell and sight. Today, tissue products make life worth living, enhance our personal freedom and our self-esteem. Underlying this is a major industry engaged in the development, production and distribution of tissue products on a global scale. The growing complexity of the product itself is reflected in more complex and sophisticated manufacturing processes and more exacting quality demands. At the same time, the industry is called on to

reduce its impact on the environment by minimizing the energy consumed in the manufacturing process. To help them achieve these diverse goals, tissue manufacturers require suppliers as committed to their business as they are themselves. Modern, high-speed processes require materials which have kept pace with technology, specially designed to fulfill the specific requirements of the tissue industry.



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Böttcher: Global Partner of the Tissue Industry

In 19 factories all over the world, Böttcher is producing roller coverings designed to satisfy the most demanding requirements of tissue producers and converters. Producing rubber compounds in the central mixing facility of Germany guarantees consistent top quality worldwide, while

the application of these compounds locally ensures fast and efficient service. With in-depth process knowledge and experience in all stages of tissue production and conversion, Böttcher offers you best in class compounds to improve your process efficiency and product quality.

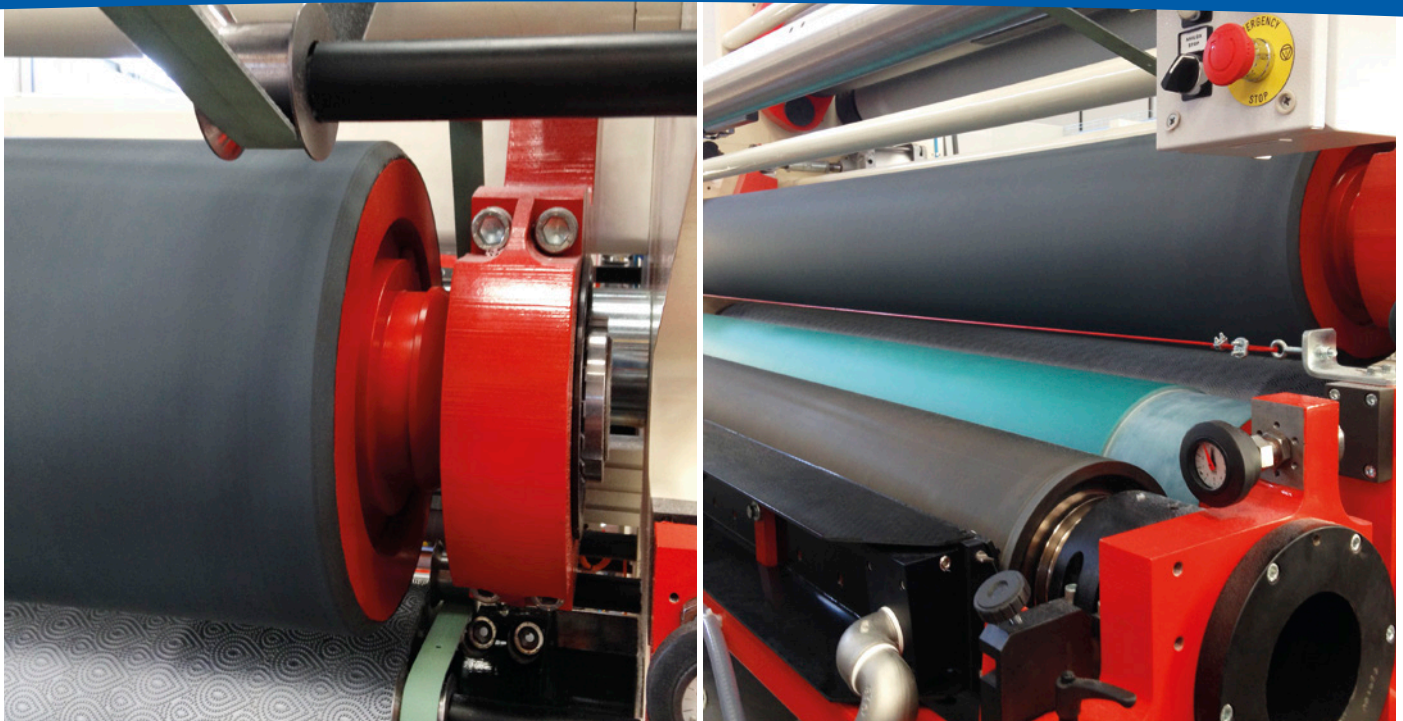
Roller Coverings: Tailor-made for each process step

As the world’s largest roller manufacturer, Böttcher offers a comprehensive range of products to support you at each stage in tissue converting. Embossing has a decisive influence on the bulk and quality of the finished product, characteristics which are perceived by the consumer as softness and absorbency. At the same time, consumers demand good mechanical strength of their tissue products. Böttcher’s high-tech embossing and counter rollers give you the quality and stability you need to get the balance just right. Laser-engraved hard rubber embossing rollers offer exceptional durability and elasticity and put

reduced stress on the tissue web, enabling you to achieve consistently high quality at top production speeds in both micro and macro-embossing.

Our glue applicator roller coverings are available both in rubber and in polyurethane. Both offer smooth, even surfaces with excellent chemical resistance and release properties, ensuring a complete and even transfer of adhesives and coatings and easy cleaning properties. The enhanced mechanical properties of the polyurethane covering make it ideal for use in the toughest of applications and at higher than normal speeds.

True to our philosophy of supplying specialised solutions for specialised applications, our coverings for marrying rollers are also available in rubber and polyurethane. Common to both are the anti-adhesive properties of the surface. These facilitate paper release and minimize paper dust build-up on the surface. The same properties make it very easy to remove any residue from the roller when it does appear. Due to the elevated roller hardness, the plies are married in a shortened, very even contact nip. The polyurethane version in particular offers exceptionally long service life under even the most exacting conditions.



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Making the most of your product: printing sleeves

Flexographic printing is a particular speciality of the Böttcher Group. For decades, Böttcher has manufactured and supplied more graphic rollers than

any other roller manufacturer. This applies to all fields of printing, and to none more than Flexography. From cliché and adapter sleeves to press-

ready sleeves in Direct Laser Engraving (DLE), Böttcher offers top quality products and specialist support service.



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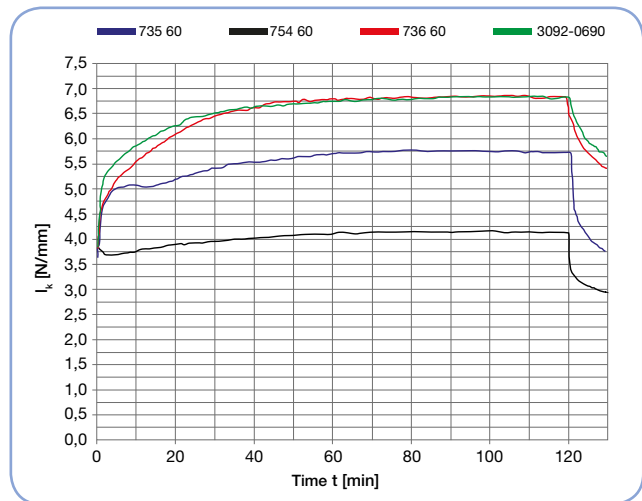
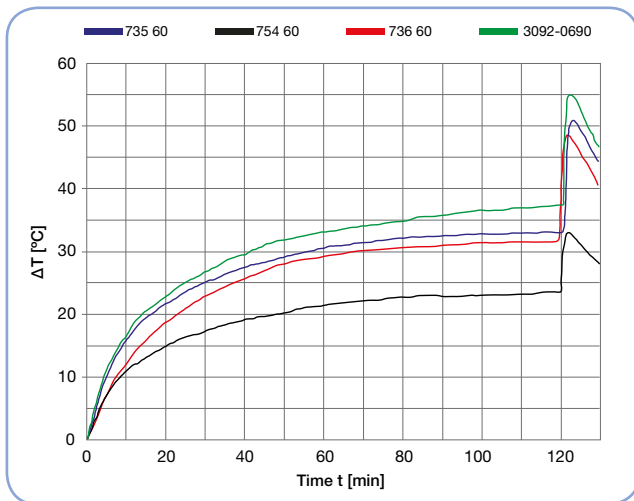
Set and forget: How roller quality makes your life easier

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.



© Paper+Design tabletop



Roller elasticity is only loosely linked to hardness in Shore A or D. Roller coverings with identical hardness may have radically different dynamic properties. Roller materials with high

elasticity will run cooler and perform at higher speeds than more “sluggish” materials designed to absorb vibration. In each diagram, all materials have a hardness of

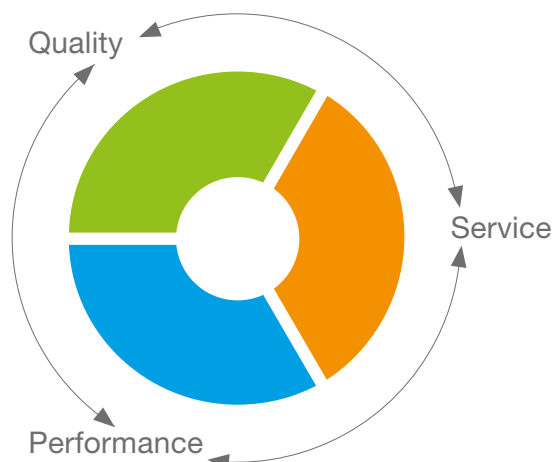
60 Shore A, but compound 754 60 (represented by the black line) develops lower nip forces and less heat build-up.

Rely on us for quality, service and performance

Böttcher quality is not merely the result of meticulous production. 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. 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 production more economical.



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