

# Steel Belts for the Laminate Industry

Your Customized Designs with Natural Haptic



## Robust, Long-lasting & Natural: Textured Steel Belts from Berndorf

Offering the perfect alternative to real wood, laminates enjoy greater appreciation today than ever before. Keeping up with the latest design trends and retaining the ability to satisfy the specific needs of the end customer requires not only a comprehensive selection of decors but also steel belt textures that match this sweeping selection. The harmonious blend of décor paper and tactile properties take the quality of the product to an even higher level.

The Berndorf Band Group has been analyzing the ever-increasing requirements of society for years, devoting tremendous resources to the advancement of their design and technology.

The consistent efforts in research and development and the close cooperation with leading manufacturers in the wood working industry have earned the group the ability to implement designs on endless Steel Belts with a visually even more natural surface effect.

### Extended Steel Belt Life

The Berndorf Band Group has especially developed machines for the reconditioning of textured stainless Steel Belts. During this process the gloss level of the Steel Belt gets gently restored, which brings it back close to its original condition.

### Innovations at a Glance

- 2016:** World's only manufacturer of textured Steel Belts
- 2017 - 2018:** Investment in two new digital printers
- 2019:** Sale of the first embossing in register textured Belt with 250 µm deep & strong rounded texture
- 2020:** Development of the matt-effect-technology **GlossNite®**
- 2021:** Commissioning of the separate laboratory plate production

## High-quality Textures Thanks to Embossing in Register Textures

The aspect of producing products that are as close to nature as possible is also becoming increasingly important in the laminate industry. Aside from pairing the look of real wood or stone with the durability of a laminate floor, the registered embossing process also translates this natural look into a true-to-life feel of the products. The result is floor coverings with wood decors that can hardly be distinguished from the original materials.

The company uses a high-precision manufacturing process to produce raw steel belts, which form the basis of a continuous production process that produces synchronous surface textures. Highly advanced digital printing and etching technology optimizes repeatability, ensuring a consistent embossing result and the incorporation of customer-specific designs.



### ADVANTAGES

- » Manufacture of highly sophisticated, customized textured designs
- » Outstanding economy when compared to press plates and release paper
- » Constant reproduction quality of individual textures
- » Extensive selection of surface textures for embossing in register products

## Ilumina® & GlossNite®: Gloss & Matt Effect

In addition to the use of embossing in register textures, Berndorf Band Group also offers exclusive Gloss or Matt Effect variants for continuous press Steel Belts.

This development makes us the only manufacturer in the world that can offer customers a diverse selection of surface textures with a natural 3D effect for continuous Steel Belt productions. According to customer requirements, the laminate can be individually enhanced by the use of **Ilumina®** and **GlossNite®**.



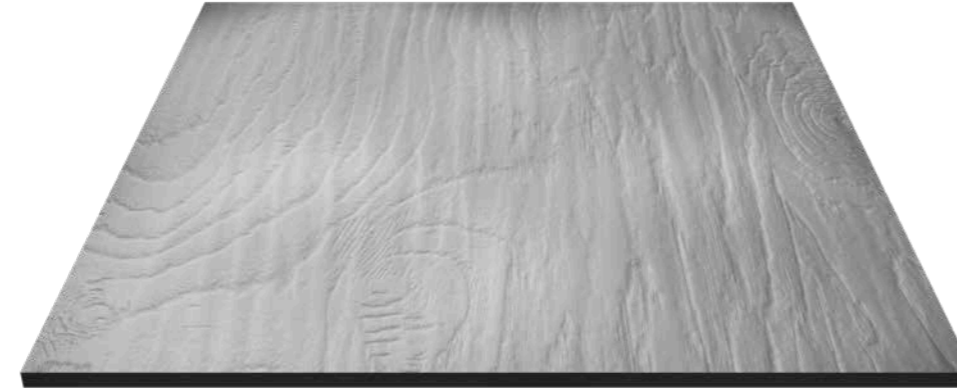
### ADVANTAGES

- » Depth effect of the product
- » More natural reproduction of real wood
- » Enhancement of the final product by combination with embossing in register textures

## Highly Detailed Optics due to Strong Rounding

In recent years, Berndorf Band Group has invested in the further development of rounding technologies in textured Steel Belts.

This innovative technology makes it possible for laminate flooring to add another level of texture with handscraped optic und haptic during manufacturing. The result is a better real wood replica that scores with a warmer haptic and rustic details.



### ADVANTAGES

- » Handscraped optic
- » Haptic and visual enhancement of the laminate flooring
- » Applicable to rustic woods and washed out stone textures

## Time-to-Market Laboratory Plate Production

Our Berndorf experts turn customer-specific design requests into practice at any time. Thanks to the investment in a separate digital laboratory plate production in Berndorf (AT), textures of the same quality as those of the final Steel Belt can be displayed in advance.

Within very short time, initial designs on laboratory plates are ready to show to the customer. The significant reduction of the development period hereby sets new standards for the industry and enables a faster time-to-market for the final product.

After confirmation of the design proposal, a perfect reproduction of the design is made. In this process the high-quality texture of the laboratory plate is adopted unchanged for the production of the continuous endless press Steel Belt.

Thanks to the continuous development of state-of-the-art production processes at Berndorf Band Group, customers can count on the highest quality and unique optical characteristics of their Steel Belt.



With the **Ilumina®** & **GlossNite®** matt-gloss technologies, the Berndorf Band Group can produce innovative textures with sophisticated surface effects. In combination with the new laboratory plate production, individual textures can be developed with a significantly shorter time to market. This allows us to exceed industry standards.



*Adrian Miller*  
Director Global Product Management



The application areas for Steel Belts and Belt Systems of Berndorf Band Group are as broad and individual as your requirements. Give us the opportunity to discuss your goals in a personal meeting. Together we will find the right solution for your requirements.


## Our worldwide sales and service network available on [www.berndorfband-group.com](http://www.berndorfband-group.com)


 **Berndorf Band Engineering GmbH**  
Leobersdorfer Strasse 26  
2560 Berndorf, Austria  
T: +43 2672 800 0  
E: [engineering@berndorf.co.at](mailto:engineering@berndorf.co.at)


 **Nippon Belting Co., Ltd.**  
1-24-6, Kanda Suda-cho  
Chiyoda-ku 101-0041,  
Tokyo, Japan  
T: +81 03 3257 3050  
E: [toiawase@nippon-belting.com](mailto:toiawase@nippon-belting.com)


 **Berndorf Belt Technology, Inc./  
SBS Steel Belt Systems USA, Inc.**  
59 Prairie Parkway  
Gilberts, Illinois 60136, USA  
T: +1 847 841 330 0  
E: [sales@berndorf-usa.com](mailto:sales@berndorf-usa.com)

 **Beijing Berndorf Technology  
Development China Co., Ltd.**  
No 17, Xinggu West RD,  
Xinggu Economic &  
Development Zone, Pinggu  
101200 Beijing, China  
T: +86 108 072 390 1  
E: [sales@berndorf.com.cn](mailto:sales@berndorf.com.cn)

 **Berndorf Band GmbH**  
Leobersdorfer Strasse 26  
2560 Berndorf, Austria  
T: +43 2672 800 0  
E: [band@berndorf.co.at](mailto:band@berndorf.co.at)

 **Berndorf Sondermaschinenbau GmbH**  
Leobersdorfer Strasse 26  
2560 Berndorf, Austria  
T: +43 2672 835 700  
E: [office@berndorf-bsg.at](mailto:office@berndorf-bsg.at)

 **Berndorf Steel Belt  
Systems Ltd., Co.**  
#15, Bodeum 2-ro  
Seo-gu, 22664 Incheon,  
South Korea  
T: +82 328 160 432  
E: [bsbs@berndorf.co.kr](mailto:bsbs@berndorf.co.kr)

 **Berndorf Band  
Latinoamerica S.A.S.**  
Calle 62 sur # 30 a 75  
Barrio las Brisas, Sabaneta  
Antioquia, Colombia  
T: +57 313 605 31 99  
E: [office@berndorf-lat.com](mailto:office@berndorf-lat.com)