

CURRENT PRESS RELEASE

of the bredent group

Senden, August 2026

Digital workflow precision: bredent presents brePRINT 05 surgical guide

With brePRINT 05 surgical guide, the bredent group is expanding its 3D printing portfolio to include a TPO-free material for the production of surgical drilling templates for guided implantology.

The transfer of digital planning into clinical reality is a key challenge in guided implantology. Even minor deviations in the workflow can affect the position of the implant. brePRINT 05 surgical guide was developed to support navigated implantology through the use of a drilling template and to enable the precise transfer of the intended implant position into clinical practice.

The new resin has a flexural strength of at least 70 MPa and can be autoclaved. Therefore, it meets the need for dimensionally stable and hygienic drilling templates for surgical applications. Its visual process control is a key feature. Depending on its processing status, the material changes to a specific colour: After printing, the drilling template appears yellowish, after light-curing it turns greyish, and after autoclaving it turns milky translucent. This allows the current processing status of the drilling template to be clearly identified.

Other properties include a low viscosity of 575 mPas, which helps fluid processing, thermal stability up to 130°C, and a shelf life of three years when stored correctly. The material is suitable for printers in the wavelength range of 385 to 405 nm.

brePRINT 05 surgical guide is now available.

Product information:

Product: brePRINT 05 surgical guide

REF number: bpsurguid1m

Content: 1000 g

Colour: Milky translucent

Use: Production of surgical drilling templates for guided implantation



Image 1: brePRINT surgical guide bottle, colour: milky translucent
Image source: bredent group



Image 2: Visual process control according to status and process step (from left to right: printed - cured - sterilized)
Image source: bredent group

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About the bredent group

The bredent group is an internationally active, family-owned company headquartered in Senden (Bavaria), Germany. The company has been operating in the dental market since its foundation in 1974 and is now represented in more than 100 markets worldwide. With over 600 employees, it comprises three specialised business divisions: bredent, bredent medical and Dental Concept Systems (DCS).

The company develops, manufactures and distributes individual products and system solutions with a focus on implantology, prosthetic rehabilitation, biomaterials and digital dentistry, as well as comprehensive, tailored treatment concepts "Made in Germany". In doing so, the bredent group supports dentists and dental technicians in producing and maintaining functional, aesthetic and affordable dentures.

The bredent group pursues a holistic approach that focuses on practical and durable applications for modern dentistry and dental technology. The company's activities are based on close collaboration with users and continuous advancement of products, processes and systems to improve long-term treatment success and quality of life for patients.

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