



Biomaterials@Straumann®
Because one option is not enough.

botiss maxgraft® cortico

PREFABRICATED ALLOGENIC BONE PLATE



maxgraft® cortico

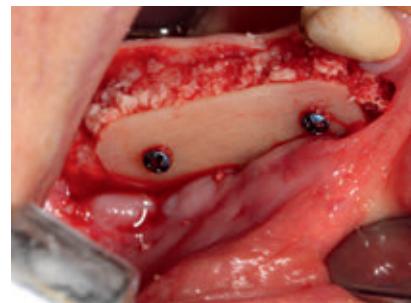
maxgraft® cortico has the function of a stable, dense, avital and slowly resorbable barrier enabling safe and micro-movement free protection of the augmented area, creating the desired environment for new bone growth in horizontal and vertical dimensions.

FEATURES AND BENEFITS

Safety and biocompatibility	The cleaning process of maxgraft® products preserves the natural structure of both the mineral phase and the organic phase (collagen). Collagen attracts endothelial cells and osteoblasts by chemotaxis. This ensures the reliable incorporation and allows complete remodeling over time. maxgraft® products are safe and have an impressive safety track record with no reported cases of disease transmission.
Biofunctionality	maxgraft® cortico is an avital cortical bone plate with full remodeling potential. Due to its slow remodeling it allows outstanding space maintenance for new bone growth in horizontal and vertical dimension. The physiologic content of human mineralized collagen as well as the overall structure most similar to a patient's own bone allows excellent biocompatibility and predictable integration combined with long-term stability.
Easy handling; established technique	The convenience of the shelf availability, predictable size and thickness of maxgraft® cortico obviates the need for bone harvesting and allows a faster and easier treatment procedure. maxgraft® cortico is easy to stabilize with screws, micro-movements of the augmented site are easily prevented, best possible conditions for bone healing supported.
Patient comfort	maxgraft® is the safe and trusted bone regeneration solution most similar to a patient's own bone. It is a true alternative to autologous bone, eliminating donor site complications such as morbidity, infection or postoperative pain. It improves patient comfort by reducing the number of surgical intervention sites and/or decreases invasiveness.

PROPERTIES

Attribute	Description
Origin	Donors are only accepted from selected central European countries that have successfully transferred Directive 2004/23/EU into national law. maxgraft® products are produced at the Cells + Tissuebank Austria (C+TBA), a non-profit organization aiming to provide allogenic transplants for orthopedic and dental regeneration. C+TBA is certified and audited by the Austrian Ministry of Health in accordance with the European Directives and regulated by the Austrian Tissue Safety Act (GSG 2009).
Composition	Cortical bone from human donors
Healing/integration time	5-6 months
Storage temperature	5-30 °C
Shelf life	5 years



Courtesy of Dr. med. dent. Kai Höckl, Freiburg, Germany

APPLICATION AND HANDLING

Shell technique with maxgraft® cortico

The concept of the shell technique is the preparation of a biological container which creates the necessary space for full incorporation of the particulated bone graft material. The maxgraft® cortico bone plate functions as a stable, avital and potentially resorbable barrier. It enables a safe and motion-free protection of the augmented area and helps creating the needed environment for new bone growth.

Opening

maxgraft® is delivered sterile and must be used immediately after opening in an aseptic environment.

Trimming

maxgraft® cortico can be trimmed extraorally using a diamond disk to match the required size.

Rehydration

maxgraft® cortico does not need to be hydrated.

Application of maxgraft® cortico

The plate is positioned with a distance by predrilling through the plate and the local bone. Osteosynthesis screws are used to create an immobile compartment.

To prevent perforations of the soft tissue, sharp edges need to be removed, e.g. by using a diamond ball.

Additional use of a granulated bone substitute is recommended for filling the created gap between host bone and maxgraft® cortico. The use of autologous and/or allogeneic granulated bone grafting material (maxgraft® granules) is recommended for maximum regeneration potential.

Covering

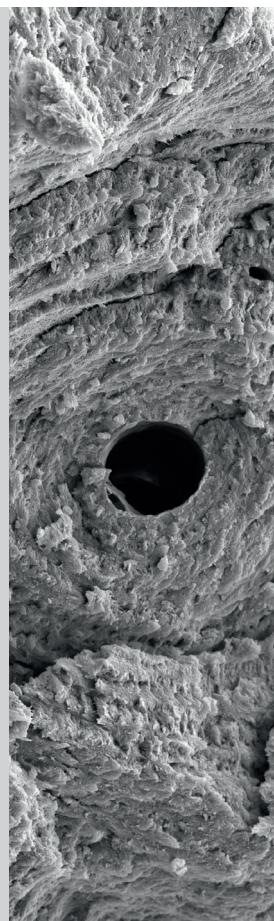
Always cover the augmentation site with a barrier membrane to ensure undisturbed osseous regeneration, and to prevent migration of particles into the oral cavity.

Wound closure

Ensure that soft tissue coverage of the augmented site is complete and free of tension. Undisturbed vascularization of the augmented site is of utmost importance.

Healing time and re-entry

The appropriate healing time is patient- and site-dependent and has to be decided by the clinician based on the assessment of the patient's individual situation.



Recommended for

maxgraft® cortico is recommended for surgeons experienced in implantology, oral surgery, and craniomaxillofacial surgery (CMF):

- Horizontal augmentation
- Vertical augmentation
- Ridge preservation
- Bone defect augmentation

Available in the following sizes

Code	Description	Product
BO-31251	25 x 10 x 1 mm cortical bone plate	maxgraft® cortico



For further informations please visit
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