



CUSTOM GRIDS



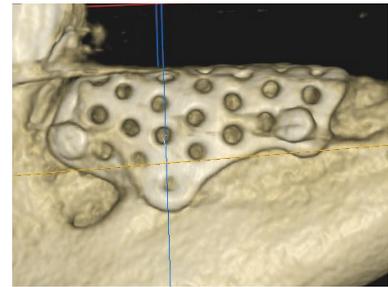
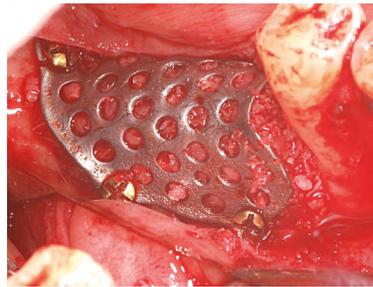
2025



Regenerative techniques allow for the correction of unfavorable anatomical situations, thanks to advanced surgical procedures and the use of dedicated biomaterials.

In **guided bone regeneration** (GBR), the situations that the clinician must address can vary greatly, but in all cases, the formation of new bone is influenced by:

- **mechanical stability of the graft** during the healing phase;
- **preservation of the volume** of the filled defect;
- **barrier effect** against cells from the soft tissues.



Titanium grids perfectly meet these requirements as they provide the rigid support that keeps the graft stable, maintain the space for the entire duration necessary for new bone formation, and prevent the growth of non-osteogenic connective tissue within the defect.

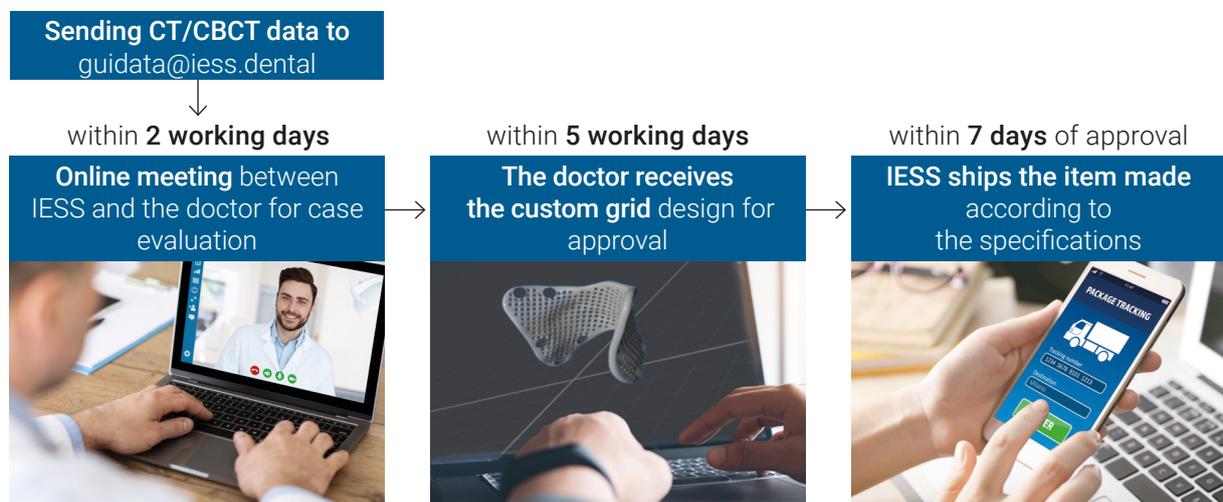
The main **limitation** of traditional titanium grids lies in the **need for intraoperative shaping**, a procedure that extends the surgery time, may alter the mechanical properties and create potential risks for the soft tissues. The presence of sharp edges or inadequate morphology can indeed lead to dehiscence during the healing phase, compromising the final outcome.

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New technologies allow these limitations to be overcome, offering **custom-made grids** tailored to the patient and to the conditions of the remaining alveolar ridge atrophy.

Through examinations such as CT or CBCT and dedicated software, it is possible to virtually model a **device perfectly adapted in shape and volume** to the defect to be treated before surgery.

The 3D design is created through the printing of titanium powders using laser melting technology, which ensures high standards of purity, structural homogeneity, and precision.



ADVANTAGES

The usage of **custom-made grids** follows the same procedures as traditional grids, but they offer many advantages:

- **greater protection of the inserted biomaterial**, which remains more stable thanks to the perfect fit of the grid in terms of morphology and volume.
- **no risk of soft tissue trauma**, thanks to rounded edges and the absence of sharp corners.
- simplification of the surgical phase and reduction of **operation time**, as there is no need to reshape the grid through trial and error.

The "**Top**" version is particularly useful in the presence of undercuts: thanks to the pre-cut lines and reduced thickness, removal is facilitated.

The **management of the procedure** becomes much simpler for the clinician, increasing the predictability and **success** of the regeneration process.



BASIC



TOP





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IESS Group Srl

Via Madonna della Salute 23
33050 Pozzuolo del Friuli (UD) Italy
T +39 0432669191 · info@iess.dental
www.iess.dental