

Digital Surgical Dentistry System

Revolutionizing Alveolar Height Augmentation:



Why Customize Your Osteomesh® for Alveolar Height Augmentation?

Traditionally, customizing a titanium mesh for alveolar height augmentation involves a lengthy process of 3D metal printing, requiring extended communication between the surgeon and the designer, and resulting in a delivery time of 6 – 9 weeks.

With Osteopore's Digital Surgical Dentistry (DSD) System, you now have the flexibility to customize your Osteomesh® chair-side during surgery with precise shaping and moulding, all within the same day as the patient's visit.

Streamline Surgical Procedures:

Same day treatment for patient, pre-mounding the Osteomesh® significantly reduce the operation time, benefiting both surgeons and patients.

Prioritize Soft Tissue Health:

Precise customization minimizes soft tissue disruption, ensuring extra care for the soft tissue by avoiding several trials of inserting the mesh.

Elevate Patient Comfort:

The Osteopore DSD System significantly reduces the duration of mouth opening, making the procedure more tolerable while adding comfort to your patients.

Are you ready to take your surgical dentistry practice to the next level?

Our Digital Surgical Dentistry (DSD) System combines a comprehensive package, including our state-of-the-art **Osteomesh®**, water bath, and the precision 3D3 Mini 2 printer. We offer a complete solution designed to enhance your surgical procedures and patient outcomes.

3D3 MINI 2 PRINTER:

Creating precise patient models at your fingertips

Engineered to perfection, this advanced printer is tailored for Alveolar Height Augmentation.

Equipped with impressive specifications, including:

- 4K Resolution: Achieve anatomical accuracy with 4K clarity.
- **50µm per Layer**: Fine layers capture intricate features precisely.
- Stability: Double guide rail system ensures steady performance.
- 3 print platform sizes:
 - i) 140mm*80mm
 - ii) 80mm*80mm
 - iii) 50mm*50mm
- Print Height: Accommodates complex anatomies with a 90mm height.
- Light Cure Box: Built-in for streamlined post-print curing.
- Efficient Speed: Optimal balance between speed and accuracy.
- File Support: Works seamlessly with STL files.
- Multiple Connections: Connect via LAN, WiFi, or USB.
- Compact: Dimensions of 261mm(W) x 322mm(D) x 420mm(H)
- Weight: 13kg
- Warranty: 1-year warranty





Enhancing Precision with Post Curing Station

Our DSD System includes a post curing station that complements the 3D3 Mini 2 printer.

Specifications:

- **Timer:** Tailor the curing time with intervals of 1 minute, ranging from 5 to 60 minutes.
- **Curing Method:** Choose between water and air for your specific needs.
- Curing Wavelength: 405nm
- Curing Size: 180X100mm
- **Dimensions:** 220mm (L) X 220mm (W) X 325mm (H)
- Weight: 5.5kg

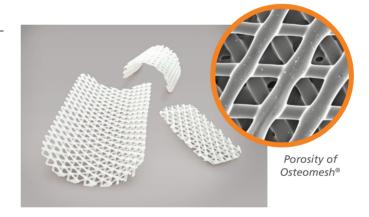
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PREPARATION OF OSTEOMESH®:

Revolutionizing Alveolar Height Augmentation

At the heart of our system lies the Osteomesh®—a semi-flexible, bioresorbable mesh engineered to provide exceptional dimensional retention and graft material support.

This innovative solution offers predictable shape and volume of regenerated bone tissue in guided bone regeneration, setting a new standard for surgical dentistry.



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MOULDING OF OSTEOMESH® ON WATER BATH BEFORE USE



Our water bath ensures the **Osteomesh®** achieves the ideal consistency, guaranteeing optimal results in Alveolar Height Augmentation.

It is recommended to place a sterile beaker or a sterile polyethylene bag/sheet in the water bath machine before pouring the sterile saline solution.

Customize Your Dental Scaffold for Alveolar Height Augmentation with Osteopore's Digital Surgical Dentistry (DSD) System now!



STERILIZATION OF THE MODEL

The model is printed from autoclavable polymer.

After autoclaving the model, it can be used
in the sterile field.





TRY-IN OF THE OSTEOMESH®

onto the patient's model crafted by the 3D3 Mini 2 Printer allowing for precise customization before the surgery.



PREPARATION OF OSTEOMESH®

- SIZING OF DEFECT: Select the suitable size of Osteomesh®, remove it from single wrap sterile packaging and place in dry sterile bowl.
- TRIMMING OF OSTEOMESH®: Using a pair of sterile surgical scissors, Osteomesh® is trimmed to the desired shape. Totally removing the borders of the mesh is recommended.
- MOULDING OF OSTEOMESH®: Warm up sterile saline to the appropriate temperature in the waterbath for moulding.

 Refer to the table for the appropriate temperature.

Mesh Thickness (mm)	Temperature (°C)
< 0.75	42 – 45
0.75 - 1.25	45 – 47
> 1.25	50

*Note: The saline temperature should not exceed the maximum temperature stated in the table.

- Immerse Osteomesh® for approximately 10 seconds to make it more malleable.
- ▶ Using the sterile model as a guide, contour and form the Osteomesh® in the desired vertical and horizontal measurements for approximately 5 seconds.
- Remove Osteomesh® from the warm saline while holding it in its new shape for another 10 seconds.
- Repeat step until desired shape is formed.



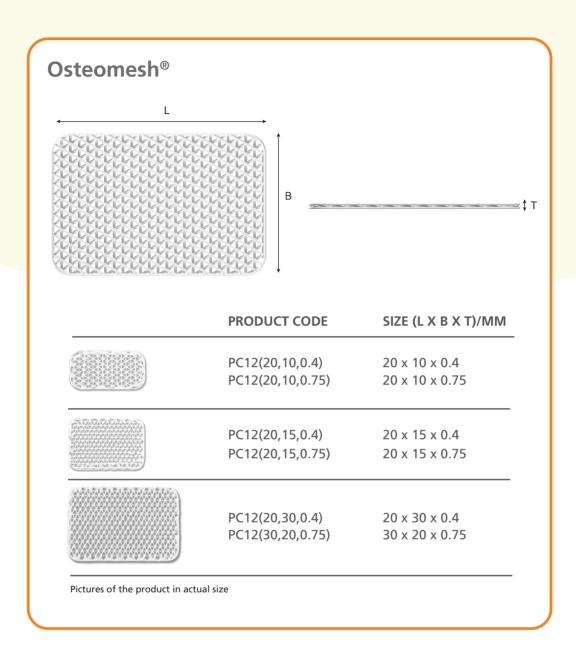


Scan the QR code for a video guide on trimming of the Osteomesh®.





PRODUCT SPECIFICATIONS For Ordering



Dental Model Material

PRODUCT CODE: SF001103B 1 Liter

- High Strength
- Grey, White, Tooth Color
- Autoclavable
- Water-washable
- High Stability



For professional use.
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