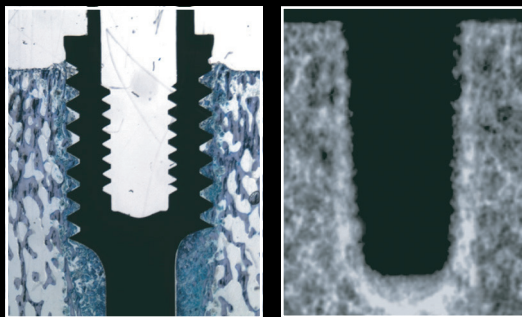


# Preserve The Bone - Enhance The Host

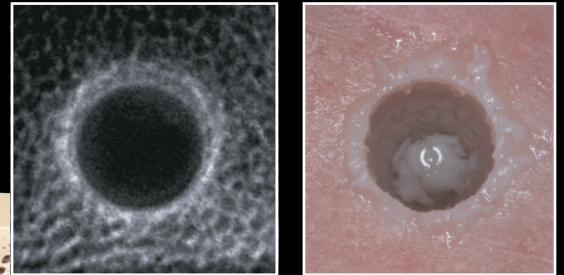
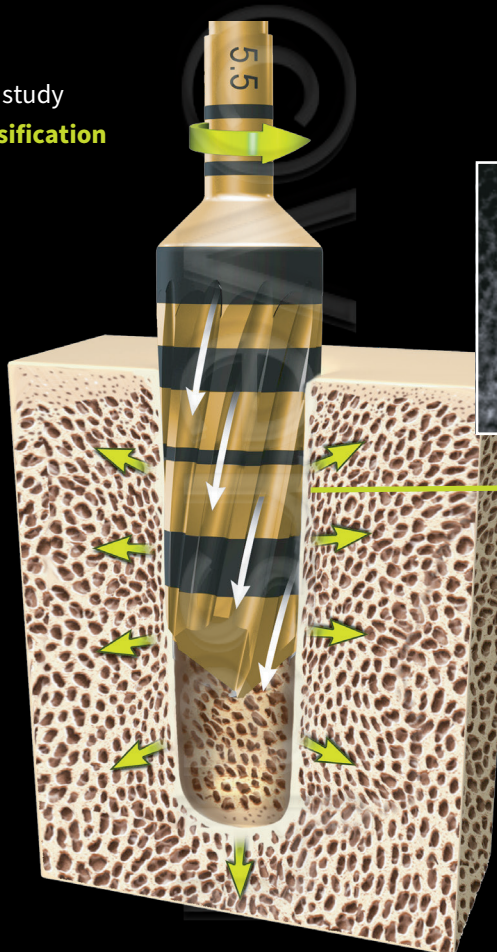
The Densah® Bur technology is based on a novel biomechanical bone preparation technique called “Osseodensification.” Unlike traditional dental drilling techniques, when a Densah® Bur is rotated at high speed in a reversed, non-cutting direction with steady external irrigation bone tissue bulk is preserved and simultaneously compacted and auto-grafted in outwardly expanding directions.

Biomechanical and histological validation study has concluded, in Porcine tibia, **osseodensification creates a densification crust around the preparation site by compacting and autografting bone along the entire depth of the osteotomy.**<sup>5,6</sup>

Dense compacted bone tissue produces stronger purchase and may facilitate faster healing.



Compaction Autografting Increases BIC<sup>5,6</sup>



Densifying Crust in Osseodensification Mode due to Compaction Autografting

## OSSEODENSIFICATION

Hydrodynamic Bone Preparation



## Compaction Autografting / Condensation

Maintaining Bone Bulk Results  
In Higher BIC (Bone to Implant Contact)

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03. Kold S, et al. Bone compaction enhances fixation of hydroxyapatite-coated implants in a canine gap model. *J Biomed Mater Res B Appl Biomater*, 2005;75(1):49-55.
04. Schlegel KA, et al. Bone conditioning to enhance implant osseointegration: an experimental study in pigs. *Int J Oral Maxillofac Implants*, 2003;18(4):505-511.
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