

# Universal Densah® Burs Preserve and Enhance Bone



Traditional Drill Bits Extract and Diminish Bone  
Replace Your Bits with Burs One by One

The Densah® Bur is based on a new technology for osteotomy preparation that we have called “osseodensification”. Unlike traditional bone drilling technologies, osseodensification does not excavate bone tissue. Rather, it preserves bone bulk so bone tissue is simultaneously compacted and auto-grafted in an outwardly expanding direction to form the osteotomy.

When a Densah® Bur is rotated at 800-1500 RPM in a reversed, counterclockwise direction with steady external irrigation, called “Densifying Mode”, a dense compacted layer of bone tissue is formed along the walls and base of the osteotomy. Scientific literature has suggested that dense compacted bone tissue produces stronger purchase for dental implants, higher implant stability, and may facilitate faster healing.

Each Densah® Bur features patented multiple, precision-ground flutes within a tapered geometry designed to produce a fast feed rate in two modes of operation. The taper design allows the surgeon to constantly modulate pressure and regulate irrigation.

The flutes are tipped with a proprietary chisel edge that concentrates thrust force while reducing tool chatter to produce smooth haptic feedback that intuitively allows the surgeon to make “on the fly” adjustments.

In the “Densifying Mode”, downward surgical pressure coupled with steady external irrigation creates a gentle hydrodynamic pressure wave, which expands a pilot osteotomy without excavating bone tissue with minimal heat elevation. A densified zone of surrounding bone is generated while plastically expanding the bony ridge at the same time.

In the “Cutting Mode”, the Bur is rotated at 800-1500 RPM in a clockwise (CW) direction to precisely cut bone if needed.

A Densah® Bur kit contains Densah® Burs of progressively larger diameter, which are to be used sequentially to achieve the desired osteotomy size. Densah® Burs can be used with all standard engines and implants.



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