

PRODUCT OVERVIEW

The Best Bone Densification Burs Kit (DDK-40) is a 29-piece osseodensification instrument set designed for dental implant placement. It combines externally irrigated tapered burs, tissue punches across five diameters, sinus lift lateral reamers, parallel alignment pins, and a ratchet extender into a single procedure-ready kit covering pilot osteotomy through sinus cavity preparation.

Manufactured from premium ISO-grade surgical stainless steel and CE-compliant with EU Medical Device standards, this kit is fully autoclavable and compatible with 800 to 1500 RPM handpieces in both clockwise cutting and counterclockwise densifying modes. It is available for single-unit or bulk order with customizable packaging.

Built for the Procedure.

Osseodensification is a bone preparation technique in which counterclockwise bur rotation compacts rather than removes bone, increasing implant site density. Established implantology protocol recognises this approach as a method for enhancing primary stability, particularly in low-density bone sites where standard drilling would compromise osseointegration outcomes. The tapered, externally irrigated bur geometry in this kit is consistent with protocol requirements for controlled osteotomy expansion across sequential diameters from 2.0 mm to 5.5 mm.

Lateral approach sinus lift technique requires instruments that create a controlled window in the sinus wall without membrane perforation. The membrane sinus lift lateral reamers in this kit, ranging from 3.3 mm to 8.0 mm with a dedicated cutter membrane tip, are designed with rounded atraumatic heads consistent with standard sinus elevation technique, providing controlled sinus cavity expansion while protecting the Schneiderian membrane.

TECHNICAL SPECIFICATIONS

Product Name	Best Bone Densification Burs Kit 29Pcs
Model / SKU	DDK-40
Material	Premium Surgical Stainless Steel (ISO Grade)
Finish Options	Satin / Mirror (Shine) / Matte / Customer Preference
Total Instruments	29 pieces
Drill Diameters	2.0 mm, 2.3 mm, 2.5 mm, 3.0 mm, 3.3 mm, 3.5 mm, 4.0 mm, 4.3 mm, 4.5 mm, 5.0 mm, 5.3 mm, 5.5 mm; Pilot: 1.6 mm
Tissue Punch Sizes	3.5 mm, 4.0 mm, 4.5 mm, 5.0 mm, 5.5 mm
Sinus Lift Reamers	3.3 mm, 3.7 mm, 6.0 mm, 8.0 mm, 8.0 mm Cutter Membrane
Parallel Pins	1x Standard Pin, 2x XL Pin, 2x Standard Pin (5 total)
Ratchet Extender	1 piece
Long Implant Burs	13 pieces
Short Implant Burs	7 pieces
Compatible Speed	800 to 1500 RPM
Dual Function	Cutting Mode (Clockwise) / Densifying Mode (Counterclockwise)
Reusable	Yes
Sterilisation	Autoclavable

CLINICAL APPLICATIONS

Clinical Procedure	Instrument Role in Procedure
Dental Implant Placement	Sequential osteotomy preparation from pilot drill through final diameter using tapered burs in cutting and densifying modes
Lateral Approach Sinus Lift	Controlled sinus wall fenestration and cavity expansion using atraumatic membrane reamers
Soft Tissue Access	Circular tissue punching across five diameters for implant site access in all standard implant platforms
Osteotomy Alignment	Parallel pin placement to verify osteotomy parallelism during multi-implant procedures
Bone Densification (Low-Density Sites)	Counterclockwise bur rotation to compact rather than remove bone in soft or low-density bone sites

KEY FEATURES

29-Piece Complete Kit:	Covers full implant workflow from pilot osteotomy through sinus lift in one set
Dual-Mode Bur Compatibility:	Operates in cutting mode (clockwise) and densifying mode (counterclockwise) at 800 to 1500 RPM
Externally Irrigated Burs:	Cooling channels integrated into bur design to reduce heat generation during osteotomy preparation
5-Diameter Tissue Punches:	3.5 mm to 5.5 mm circular punches covering narrow, standard, and wide implant platforms
Atraumatic Sinus Reamers:	Rounded-head reamers from 3.3 mm to 8.0 mm including dedicated cutter membrane tip for lateral sinus approach
ISO-Grade Stainless Steel:	All instruments manufactured from premium surgical stainless steel conforming to ISO material benchmarks
Fully Autoclavable:	All reusable instruments compatible with standard steam autoclave sterilisation cycles
Customizable Packaging:	Available in sterile, leather kit, polythene, box, or customer-specified packaging formats

KIT CONTENTS DETAIL

Drill Sizes

Drill Code	Diameter	Primary Use	Design
Pilot	1.6 mm	Initial guide for osteotomy	Short tapered pilot with sharp point
(1525)	2.0 mm	Initial pilot osteotomy	Slim, straight fluted design
(1828)	2.3 mm	Step drilling in narrow sites	Slim, tapered design
(2228)	2.5 mm	Stepwise enlargement	Narrow, externally irrigated
(2535)	3.0 mm	Enlarging osteotomy	Tapered, externally irrigated
(2838)	3.3 mm	Intermediate drilling	Straight with tapered tip
(3238)	3.5 mm	Medium step drilling	Straight, precision cutting
(3545)	4.0 mm	Bone preparation for implants	Fluted, controlled cutting
(3848)	4.3 mm	Osteotomy for medium implants	Tapered cutting, externally irrigated
(4248)	4.5 mm	Bone expansion	Tapered, reinforced cutting edge
(4555)	5.0 mm	Final osteotomy for wide implants	Externally irrigated, precision cutting
(4858)	5.3 mm	Enlargement for large implants	Fluted, precision-cut design
(5258)	5.5 mm	Final wide osteotomy	Large tapered, irrigation supported

Tissue Punches

Size (mm)	Usage	Design
3.5 mm	Soft tissue access for narrow implants	Circular, sharp-edged punch
4.0 mm	Soft tissue access for medium implants	Circular punch, stainless steel
4.5 mm	Soft tissue access for standard implants	Wider circular cutting edge
5.0 mm	Soft tissue access for large implant osteotomy	Circular, reinforced edge
5.5 mm	Soft tissue access for wide platform implants	Wide circular punch, smooth cutting

Sinus Lift Lateral Reamers

Reamer Size	Procedure Use	Design
3.3 mm	Initial sinus wall penetration	Rounded head, controlled cutting
3.7 mm	Enlarged sinus access	Slightly wider, smooth rounded head
6.0 mm	Sinus cavity expansion	Broad head, atraumatic cutting edges
8.0 mm	Lateral approach sinus lift	Large rounded reamer, safe against membrane
8.0 mm Cutter Membrane	Final enlargement for lateral approach	Wide cutter for precise sinus entry

USAGE AND CARE GUIDELINES

1. Inspect all instruments before each use. Check bur edges, pin straightness, and punch cutting edge integrity.
2. Clean immediately after use. Rinse under running water to remove blood and biological material before drying.
3. Decontaminate using a validated washer-disinfector or manual cleaning protocol appropriate for rotary dental instruments.
4. Sterilise by steam autoclave per facility protocol. All instruments in this kit are fully autoclavable.
5. Use burs at 800 to 1500 RPM only. Clockwise rotation for cutting mode; counterclockwise for bone densification mode.
6. Apply continuous external irrigation during drilling to prevent heat buildup and preserve bone vitality.
7. Store in the supplied kit tray or a clean, covered instrument cassette. Do not store loose.
8. Do not use any instrument showing signs of deformation, edge damage, corrosion, or impaired function.

FREQUENTLY ASKED QUESTIONS

Q: What material are the instruments in this kit made from?

A: All instruments are manufactured from premium ISO-grade surgical stainless steel.

Q: Is this kit autoclave-compatible?

A: Yes, all 29 instruments are fully autoclavable per standard facility sterilisation protocol.

Q: What procedures is the Best Bone Densification Burs Kit used for?

A: The kit is used for dental implant placement, lateral approach sinus lift, soft tissue punching, and bone densification in low-density sites.

Q: What speed range is compatible with this kit?

A: All burs are compatible with 800 to 1500 RPM handpieces in both cutting and densifying rotation modes.

Q: Does HAMSAN SURGICAL ship this kit internationally?

A: Yes, HAMSAN SURGICAL ships globally with estimated dispatch within 4 to 5 business days of order confirmation.

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