

MADE  USA

Beyond the limits of innovation

Hiossen Dental Implant

HÍOSSEN
IMPLANT



Smiles that last a lifetime

Hiossen is a global leader in the development of implant dentistry, headquartered in Englewood Cliffs, NJ. Together with our parent company, Osstem Implant, we became one of the top five dental implant companies with innovative implant designs backed by proven clinical research.

Since 2006, Hiossen Implant has been manufacturing implants in Pennsylvania, USA. The company adheres to stringent quality standards, producing its products in compliance with FDA regulations, CE Mark certification, ISO 13485, EU MDR, and MDSAP quality systems. With these certifications, Hiossen ensures a safe, high-quality implant system trusted by clinicians worldwide.

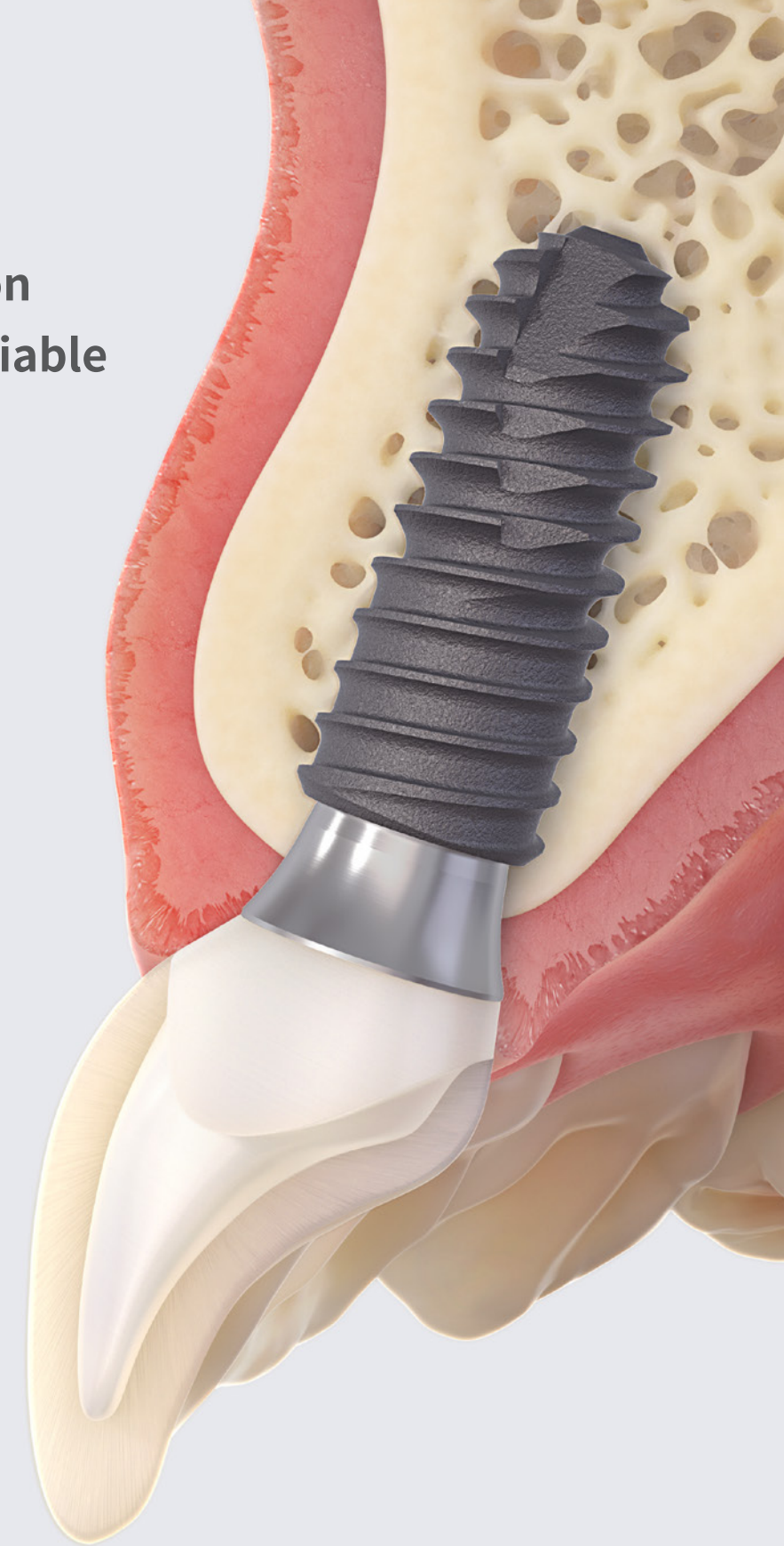
2.4M

implants sold
in the US 🇺🇸

16.5M

implants sold
worldwide 🌍

Exceptional Key Solution for Stronger & More Reliable Dental Implants



EK implants feature a 15-degree taper angle, strategically boosting the coronal wall thickness of the implant neck. This design enhancement significantly improves fracture resistance and overall strength. Its primary objective is to enhance the load-bearing capacity and screw joint stability within the internal implant-abutment connection, resulting in a more durable and reliable solution for patients.

NH

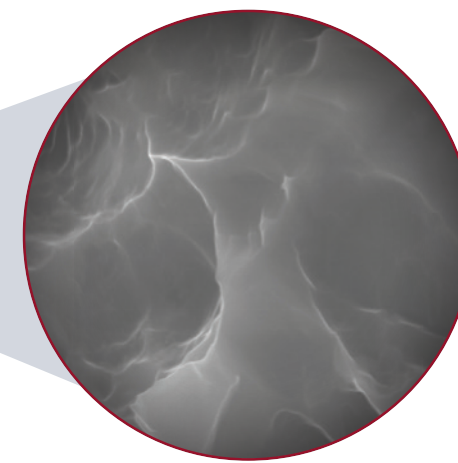
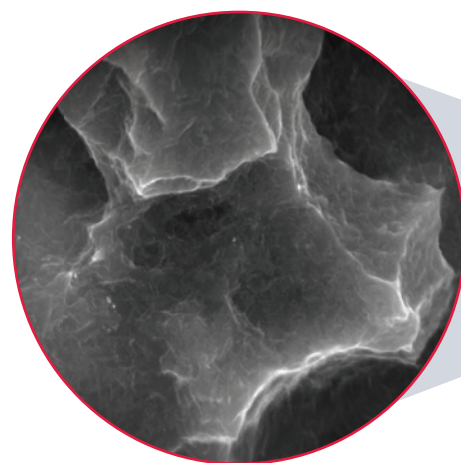
Surface Treatment

The resorbable Nano-hydroxyapatite surface combines the advantages of the conventional SLA surface treatment and the HA surface treatment to stimulate early wound healing and recruit osteoprogenitor cells. The NH surface treatment showed a 39% improvement in Bone to Implant Contact (BIC) due to a 12% platelet adhesion, leading to a 30% improvement in osseointegration.

SA

Surface Treatment

To ensure surgical success, the implant surface is treated with a sand-blasted with alumina and acid-etched technique (SA) that allows for optimal roughness. SA surfaces have been shown in literature to have an integration success rate of 99-100%.



Aggressive Corkscrew Threads

- Thread Pitch (40°): enhances the bone to implant contact and stress distribution for improved stability.
- Double threaded corkscrew speeds up insertion, ensuring efficiency during placement.

Open Thread

Helps prevent necrosis on the cervical margin after implant placement, allowing for easier insertion.

Tapered Implant Body

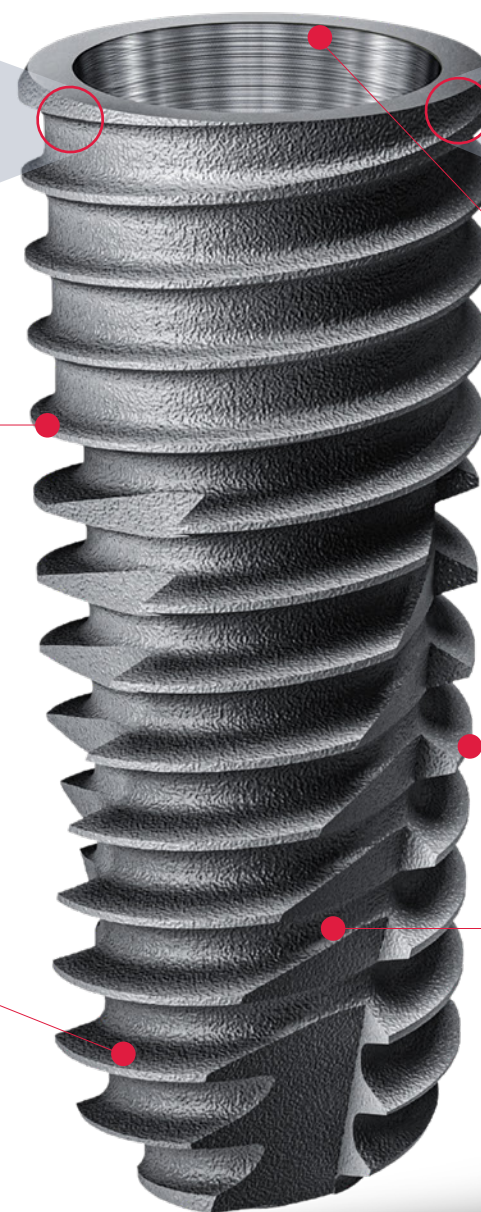
Increases Bone to Implant Contact (BIC) for greater primary stability.

Apical Cutting Edge

Smaller diameter in the apex that mimics the natural root, providing great initial stability.

Triple Helix Cutting Edge

- Self tapping effect: Increases BIC by penetrating through the bone.
- Chip pocket function: Cuts and collects autogenous bone.

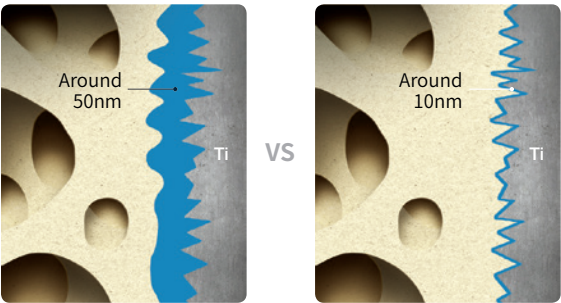


1 Faster Bone Healing – Improved Osseointegration

Hiossen’s ET NH (Nano-hydrophilic) provides a unique surface treatment that features a hydrophilic SA combined with a low crystalline Nano-HA. This super hydrophilic NH surface helps ensure optimal treatment outcomes with every implant you place on any type of bone, providing faster bone healing and improved osseointegration.

01. Ultra Thin Nano-Coating

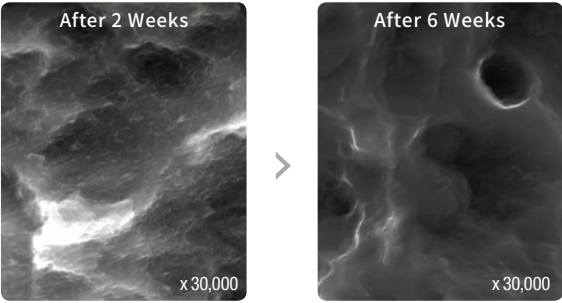
Bioresorbable apatite coating is 10 nanometers thick.



Thickness of coating layer **5,000 : 1**

02. Bioresorbable apatite

Bone forms directly to the SA surface as the apatite layer is resorbed during osseointegration.

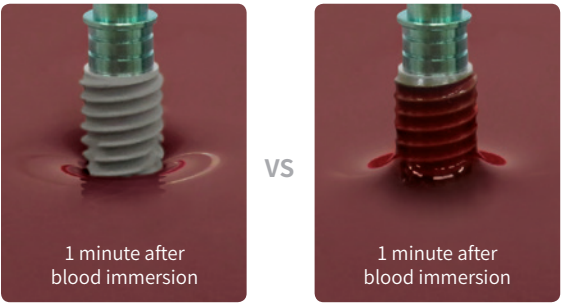


Coating layer is present

Coating layer is absorbed

03. Super Hydrophilic

12% increase in platelet adhesion (better initial osseointegration) and a 12% increase in cell differentiation (faster osseointegration).

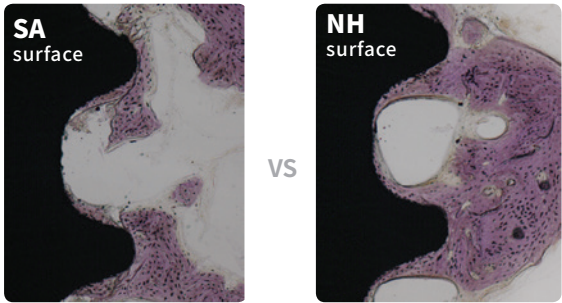


Hydrophobic

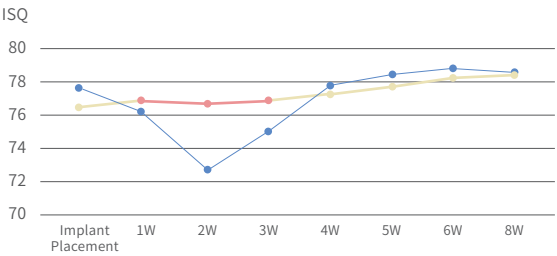
Super Hydrophilic

04. Significant Improvement to BIC

The super hydrophilic bioresorbable apatite increases Bone to Implant Contact (BIC) by 39% compared to SA.



05. Superior hydrophilic for enhanced osseointegration



- Increased implant success rates
- Excellent cell response and initial stability
- Shortened treatment times by over 30%

2 Highly Predictable Success Rates

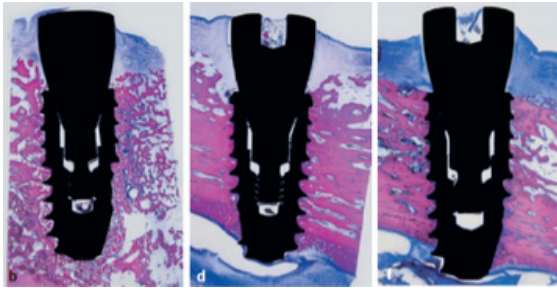
This prospective clinical study conducted in 2018 shows the ISQ (Implant Stability Quotient) measurement for four weeks after implant placement using Hiossen ETIII NH Implant. The following table shows the mean ISQ values of implants placed on the maxilla and mandible during the clinical study period. No implant failure or complication occurred.

ISQ values during the study period					
	Implant Placement	Week 1	Week 2	Week 3	Week 4
Maxilla	75.1±6.2	76.2±5.6	76.9±4.8	77.1±5.1	78.4±5.3
Mandible	79.5±6.4	80.5±6.3	80.7±6.4	81.7±5.2	82.6±4.8
Total	78.3±6.6	79.3±6.3	79.7±6.2	80.4±5.5	81.4±5.3

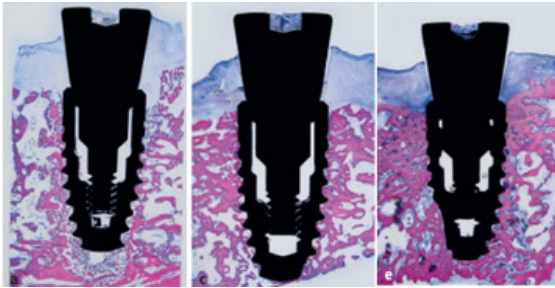
3 Achieving Early and Stable Osseointegration

Hiossen recently collaborated with Harvard Dental School on a research study evaluating the clinical and histological efficacy of the EK dental implant in achieving early and stable osseointegration, compared to the Straumann BLT Active. The results demonstrated that, based on radiographic analysis, the crestal bone level was better maintained with the Hiossen EK implant. Additionally, the Bone to Implant Contact (BIC) was higher for the Hiossen EK than for the Straumann BLT Active. 5 (Figure 6) In conclusion, this study highlighted the potential of implants with nanohydroxyapatite surfaces to facilitate early osseointegration.

Straumann BLT Active Histology



Hiossen EK Fixture Histology



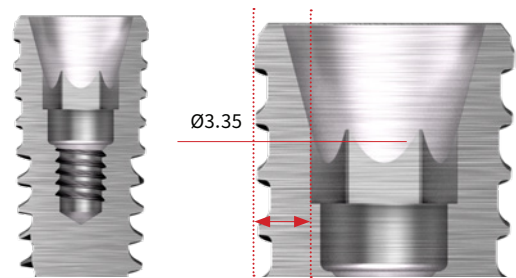
Nevins M, Chen CY, Khang W, Kim DM. Clinical and histological efficacy of a new implant surface in achieving early and stable osseointegration: An in vivo study. Int J Oral Implantol (Berl). 2024 Sep 16;17(3):297-306. PMID: 39283223.

Two-Piece Implants

EK Implant



EK III



Enhanced durability with a thicker coronal wall and a 1.5x deeper abutment connection.



Abutment holding system and one connection platform increases ease of use and convenience.

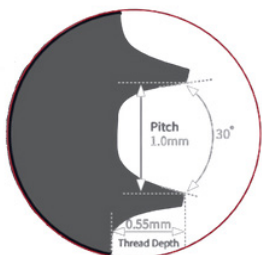
ET Implant



ET III | ET IV

F3.2 - Narrow	F3.5	F4.0	F4.5	F5.0	F5.5	F6.0	F7.0
-	-	-	-	ET3R5006	ET3R5506	ET3R6006	ET3R7006
-	-	ET3R4007	ET3R4507	ET3R5007	ET3R5507	ET3R6007	ET3R7007
ET3M3008	ET3M3508	ET3R4008	ET3R4508	ET3R5008	ET3R5508	ET3R6008	ET3R7008
ET3M3010	ET3M3510	ET3R4010	ET3R4510	ET3R5010	ET3R5510	ET3R6010	ET3R7010
ET3M3011	ET3M3511	ET3R4011	ET3R4511	ET3R5011	ET3R5511	ET3R6011	ET3R7011
ET3M3013	ET3M3513	ET3R4013	ET3R4513	ET3R5013	ET3R5513	ET3R6013	ET3R7013
ET3M3015	ET3M3515	ET3R4015	ET3R4515	ET3R5015	-	-	-

ET III: Optimal for all bone types and is suitable for immediate and early loading.
Available in two platforms (Mini & Regular) with 8 diameter and 7 length options.



*Based on ETIV Ø4.5

ET IV: Optimal for soft bone due to a wider pitch to minimize over-torque.

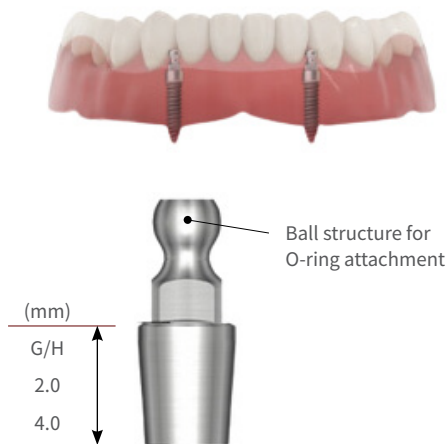
One-Piece Implants

EM Implant



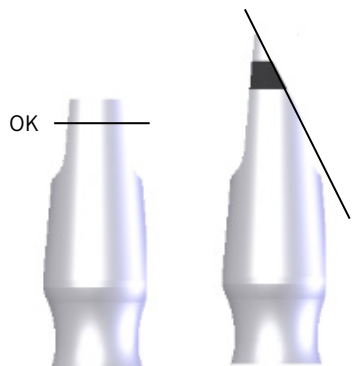
01. EM Denture

Designed for edentulous patients with narrow alveolar bone.



02. EM Narrow Ridge

Designed for narrow bone width, such as the anterior mandible.



Once the abutment is prepped below the black marking, it is not possible to use a lab analog for the final prosthesis.



03. EM Provisional

Provisional implant for immediate placement of a temporary prosthesis.



The neck can bend a maximum 30 degrees to allow for path compensation

Abutments

The abutment is the connecting piece that joins the implant and the crown together. It is an essential part of any implant prosthetics, assisting soft tissue healing and final aesthetics.

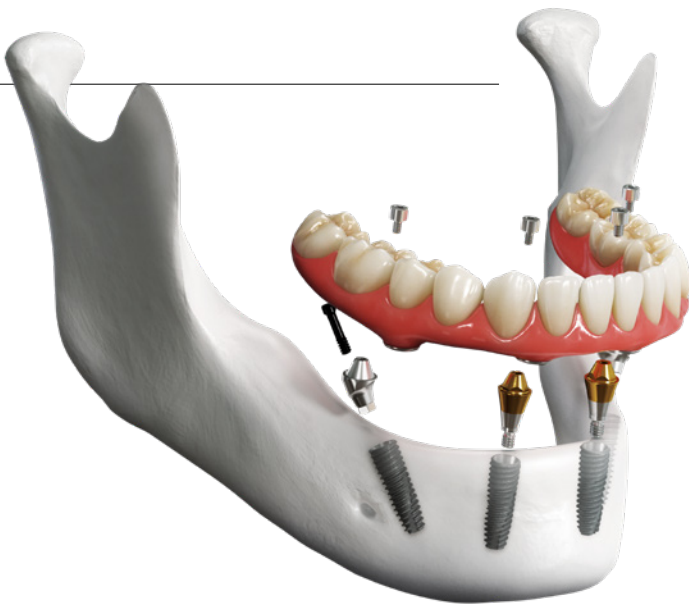


01. Stock Abutments

A prefabricated abutment that is designed to be convenient and cost-effective. It can be used for either cement or screw-retained restoration. We offer a broad range of restorative options from straight to angled to multi unit abutments.

02. Multi Abutments

The Multi Abutment and Multi Angled Abutments offer exceptional clinical adaptability, ensuring superior outcomes by overcoming the limitations of full arch treatments.



03. Digital Abutments

Known as patient-specific custom-made abutments, Hiossen SmartFit abutments are CAD/CAM milled to a precise position corresponding to the crest of tissue of each case. Hiossen SmartFit abutments are all fabricated with Grade 5 Titanium alloy and are offered in 3 options: Titanium (Ti alloy), Hybrid (Zirconia and Titanium), and Gold-Colored (Nitro-coated Ti alloy).



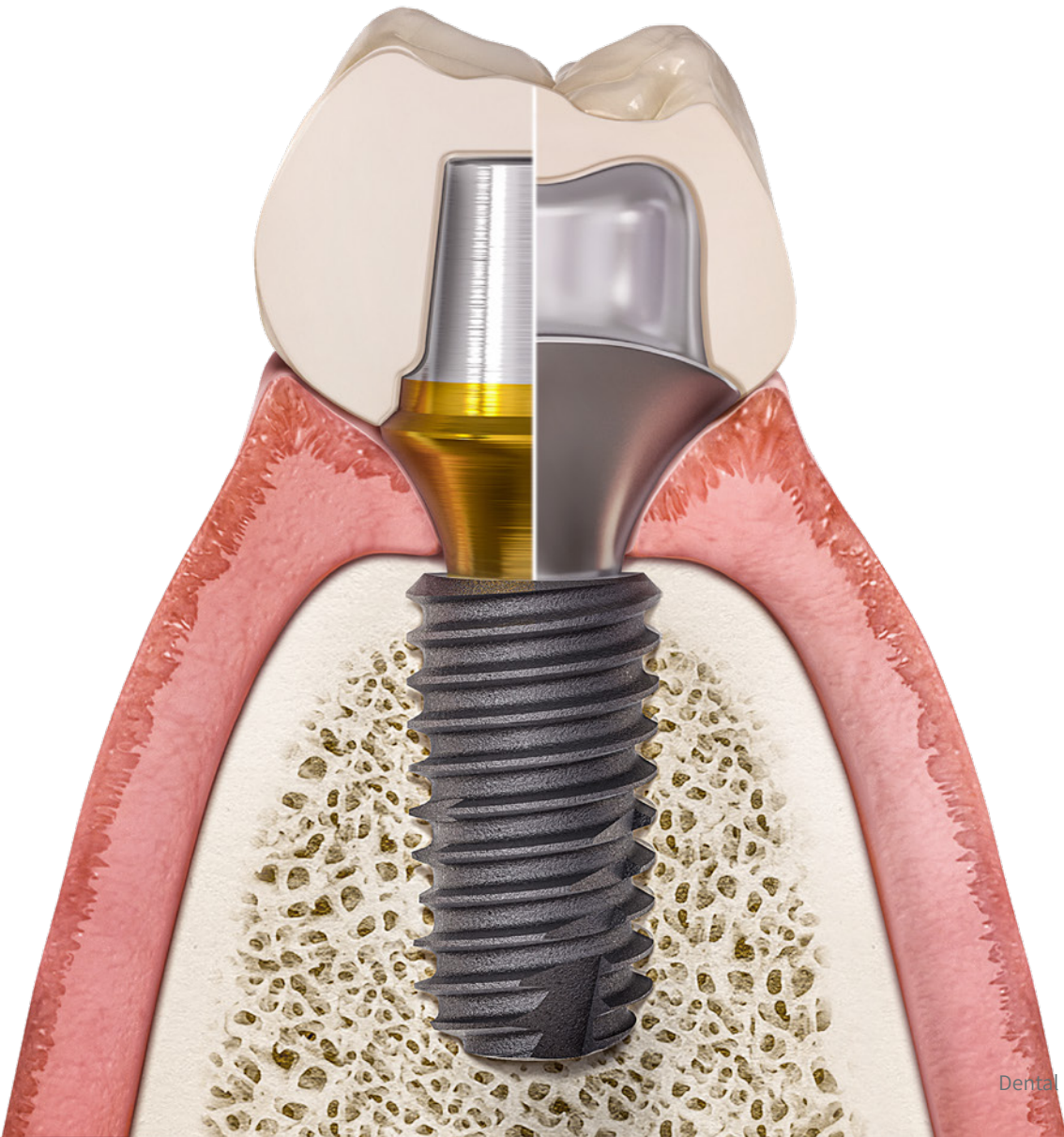
04. Denture Abutments

Hiossen offers Denture solutions such as our stud abutments and Zest's Locator Fixed abutments for a wider range of options for fixed prosthesis cases.



Benefits of OneDigital Abutments

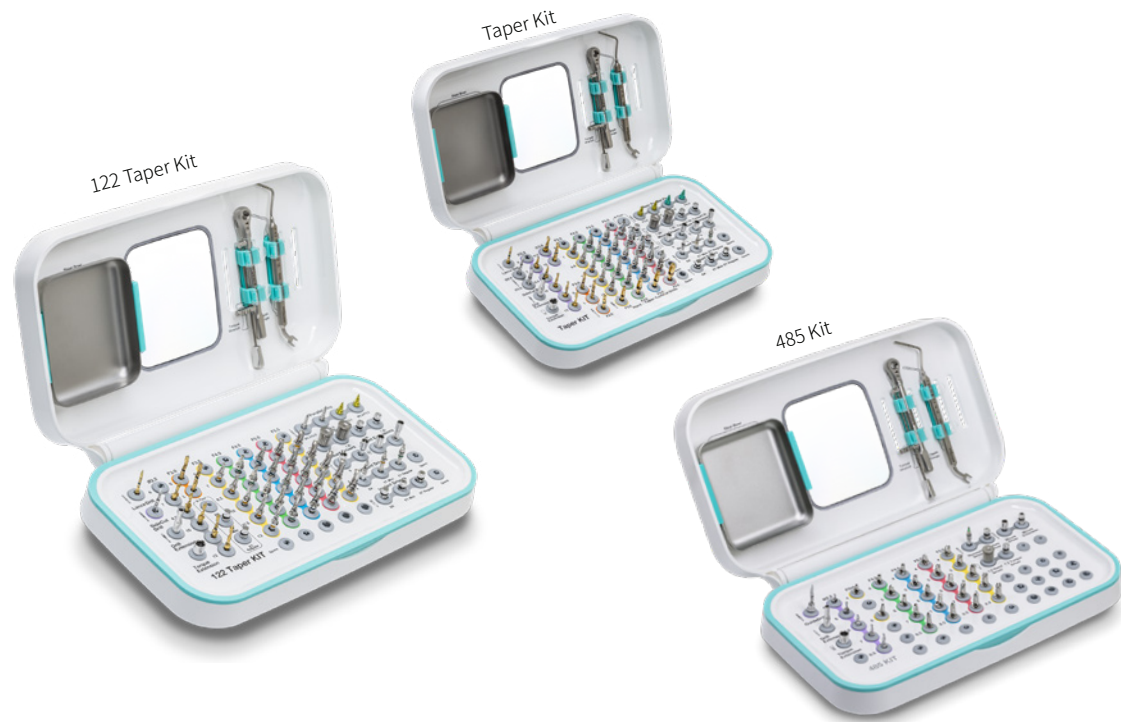
- Create a natural emergence profile
- Crown margin depth can be customized
- Promote better hygiene
- Improved esthetics
- CAD/CAM-milled abutments



Surgical Kits

Our surgical kits are designed to be as simple and as safe as possible. Featuring several precise drilling tools and guide development from Hiossen Implant, our kits allow for more accurate, efficient and safe surgery with higher predictable success rates.

Packaged in hard cases with labeled areas for each drill and tool, Hiossen’s surgical kits provide a compact and easily storable solution for dental surgery.



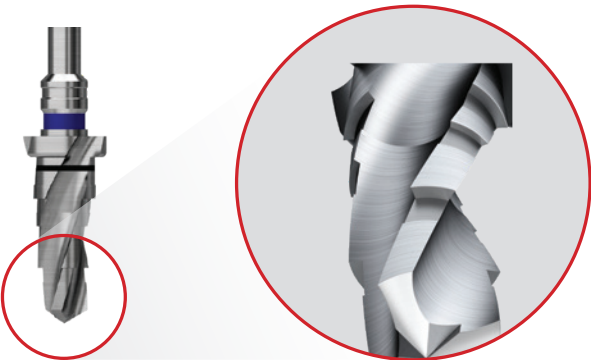
Digital Implant Surgery	Guided Surgery Kits	OneGuide Kit
		OneCAS Kit
		OneMS Kit
Implant Surgery	Implant Kits	Taper Kit
		122 Taper Kit
		Taper Ultra Kit
	Prosthetic & Maintenance Kits	Prosthetic Kit
		EFR Kit
		ESR Kit
		IM-Cure Kit
		Assist Kit
	Sinus Surgery Kits	CAS Kit
		LAS Kit
	Narrow Ridge Kits	ESSET Kit
GBR Kits	GBR Kit	
	OssBuilder Kit	

* For more information about our surgical kits please reach out to your local Sales Rep.

Highlights of the Surgical Kits

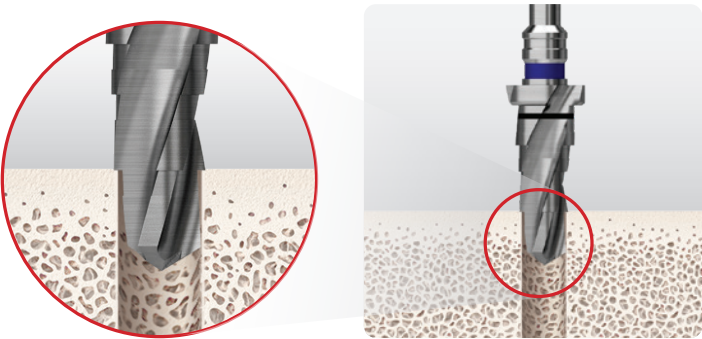
01. Excellent Drilling Power

Maximized cutting power (with a distinguished drill design and innovative manufacturing technology) skips intermediate drilling and provides a smooth and fast drilling result.



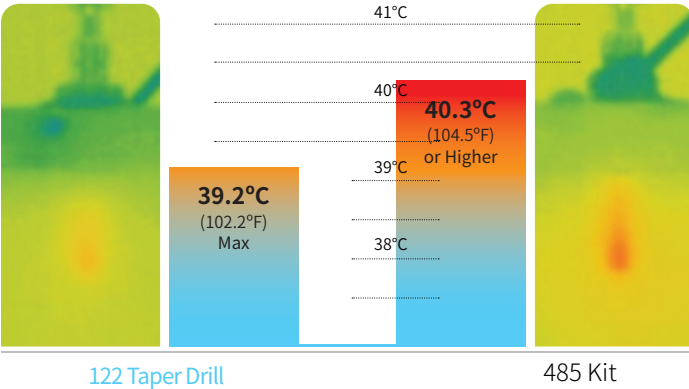
02. Preventing Drill Bouncing

Multi-level tapered drill also functions as a pilot drill and prevents bouncing during drilling.



03. Mitigate Bone Heating

Excellent drilling power leads to skipping intermediate drilling and this prevents bone heating by maintaining low drilling temperatures in order to mitigate the possibilities of bone necrosis.



Ridge Expansion



Crest Remover to flatten



Mark implant site



Use Esset Saw to start splitting



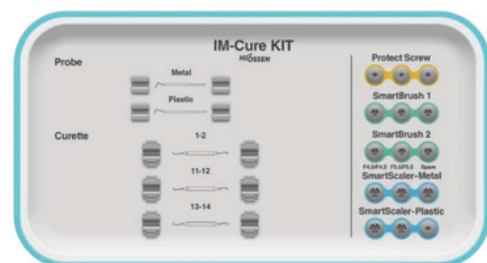
Expand Narrow Ridge with Expansion Drill

Tool to Split Narrow Ridge

Easy Split & Expansion of the Narrow Ridge

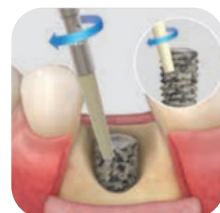
Steps for Ridge ExpansionImplant

Periodontitis Maintenance



Maintenance for Diagnosing & Treating Periodontal Disease

Easy Split & Expansion of the Narrow Ridge



Step 1: Macro-Polishing



Step 2: Fine-Polishing



Implant Removal



Atraumatic Implant Removal Kit

Easily remove failing or misplaced implants in only 3 steps.

Sinus Kits



CAS Kit

Minimizes risk of maxillary sinus membrane perforation and can safely lift the sinus membrane with hydraulic pressure.



LAS Kit

Forms lateral window safely with the inverse conical drill tip. Convenient and detailed depth control with stoppers.

Rescue Kits



EIR Kit

Achieve simple and efficient screw removal in just two easy steps.



ESR Kit

Remove failing or misplaced implants in only 3 steps.

Universal Kits



IM-Cure Kit

Maintenance kit for diagnosing and treating periodontal disease Esset.

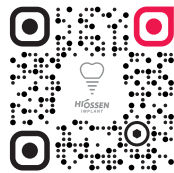


ESSET Kit

Easy split and expansion of the narrow ridge, allowing for strong immediate loading after ridge split procedure.

Hiossen IMPLANT

Smiles that last a lifetime



Please contact your local sales representative or visit our website today to learn more about Hiossen and its products.



MADE IN USA

All Hiossen Implants are processed and
Manufactured in the USA

Marketing@hiossen.com | 888.678.0001 | www.hiossen.com

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