GMP

CE
2764

Highness

New Generation
Implant System

Highness

New Generation
Implant System

Highness

Bringing innovation back cementless implant prosthesis

Highness Co., Ltd. will be a company that provides technology with a positive mind and good service.

Based on differentiated ideas and creativity, we make it our top priority to be the best in the world for our customers.

Highness Co., Ltd.

is a company specializing in implants and develops and supplies various types of implants, and has high quality and reasonable prices through its own technology development.
By promoting osseointegration through SLA & superhydrophilic surface treatment development to enable rapid prosthetics, Highness Co., Ltd.'s distinctive fixture system is the philosophy of commercializing new ideas and prioritizing the research of source technologies needed for process development.
Through the R&D affiliated research institute, 'Open Innovation' is used as the core of open innovation to develop and commercialize new technologies while sharing internal and external resources through communication with leading industry-academic institutions in Korea.
We have applied for core patents related to implants, including One Day implants that can be planted on the same day and even temporary prosthetics on the same day, and have been recognized for their technical skills.
In addition, we are steadily gaining recognition and trust from our customers through active promotion activities such as participation in domestic and foreign exhibitions, seminars, and so on.
Therefore, Highness Co., Ltd. has been selected as a star company in Daegu in recognition of its technology and future growth.
In the future, we promise that all executives and employees will do their best to develop a safe, accurate, fast and convenient implant system for patient comfortable dental care to play a leading role in dental care around the world.

Talent management

Highness Co., Ltd., which provides health and happiness to mankind, considers 'people' to be the core of sustainable performance creation as the best value.
The company is constantly paying attention and investment in fostering human resources so that individuals, companies, and everyone can grow together.
Individuals constantly agonize and take the initiative to grow, and the company provides many opportunities for growth to achieve maximum capabilities in each field through various in-house and outside education programs for individual growth.

Technology management

Highness Co., Ltd. focuses on securing competitiveness through organic connections between technology and management.
All members are committed to building research and production capabilities and quality systems for next-generation technology development, and responding to the market based on efficient work systems and dynamic organizational culture.
We will do our best to develop innovative new technologies and focus a lot of investment and manpower on our systems to create our own technologies.

Customer satisfaction

Highness Co., Ltd. thinks of customers first.
To satisfy our customers, we obtain CE European Product Certification & ISO 13485 international standards and GMP quality system certification from the Ministry of Food and Drug Safety to provide safe and reliable products.
Based on customer-oriented operations, we operate an active service support system to introduce an implant system tailored to each customer.
We will always listen to our customers in a humble and low manner and do our best to ensure that their valuable opinions are actively reflected in our products and services.


Patent No. 10-1966407
Abutment Assembly


Patent No. 10-1943437
Abutment Assembly and
The assembly method


Patent No. 10-1881421
Avertment Assembly


Trademark Registration
No. 40-1464574


10th Class Medical Use 14
cases including implants
Trademark Registration
No. 40-1464575 35th Class
Dental E-Food (Implant)
20 cases, including bridging
wholesale.


CE European Product
Certification


ISO Certification


GMP Authentication

2013 Established ANB Biomedy Co., Ltd.
Implant product development

2014 Venture Business Cooperation Designation
Implementing implant systems
Collaboration of Kyungil University for Implant System Development Project
Selected as a Start-up Item for Small and medium-sized businesses (Losing-Zero Abutment)

2015 Establishment of a technology lab
Patent applications (3 cases) and trademark applications (1 case)
Development of Dental Auto-Suture as a research project

2016 Awarded Grand Prize for Director of Small and Medium Business (Venture Enterprise)
Develop Surgical Kit
Acquired KGMP from the Ministry of Food and Drug Safety.
Registered items of the Ministry of Food and Drug Safety (Registered No. 16-4971) 'Dental Implant Upper Structure'

2017 ISO 13485 Certification
Daegu City Star Company Selection
Establishing a national sales network

2018 Renaming to Highness Implant Co., Ltd.
Exports to Myanmar, Vietnam and Thailand
Patent registration for "Abutment Assembly."
Food and Drug Administration (Registered No. 18-4582)

2019 Daegu Mayor's Commendation Awarded
Patent registration of 'Abutment Assembly and its assembly method'
Patent registration for "Abutment Assembly."
Trademark registration of combination investment with dentists
Frontier Venture Selection (Technology Guarantee Fund)
The establishment of five branches nationwide in Korea (Seoul Gyeonggi Province, Busan Gyeongnam, Jeju, Daejeon Chungcheong, Daegu and Gyeongbuk)
Registered items of the Ministry of Food and Drug Safety (No. 19-577 / for export)
Registration of Food and Drug Administration items for dental implant procedures (Registered 19-1205)
Registration of items from the Ministry of Food and Drug Safety (Registered 19-1304) for dental implant procedures.

2020 CE European Product Certification
Ministry of SMEs and Startups' R&D project (Pohang University Cooperation / Development of Hydrophilic and Nano Surface Treatment Technology)
Exports to Iran, Ukraine, Egypt and Turkey.

2021 Registered with the Ministry of Food and Drug Safety (Certificate No. 21-94)

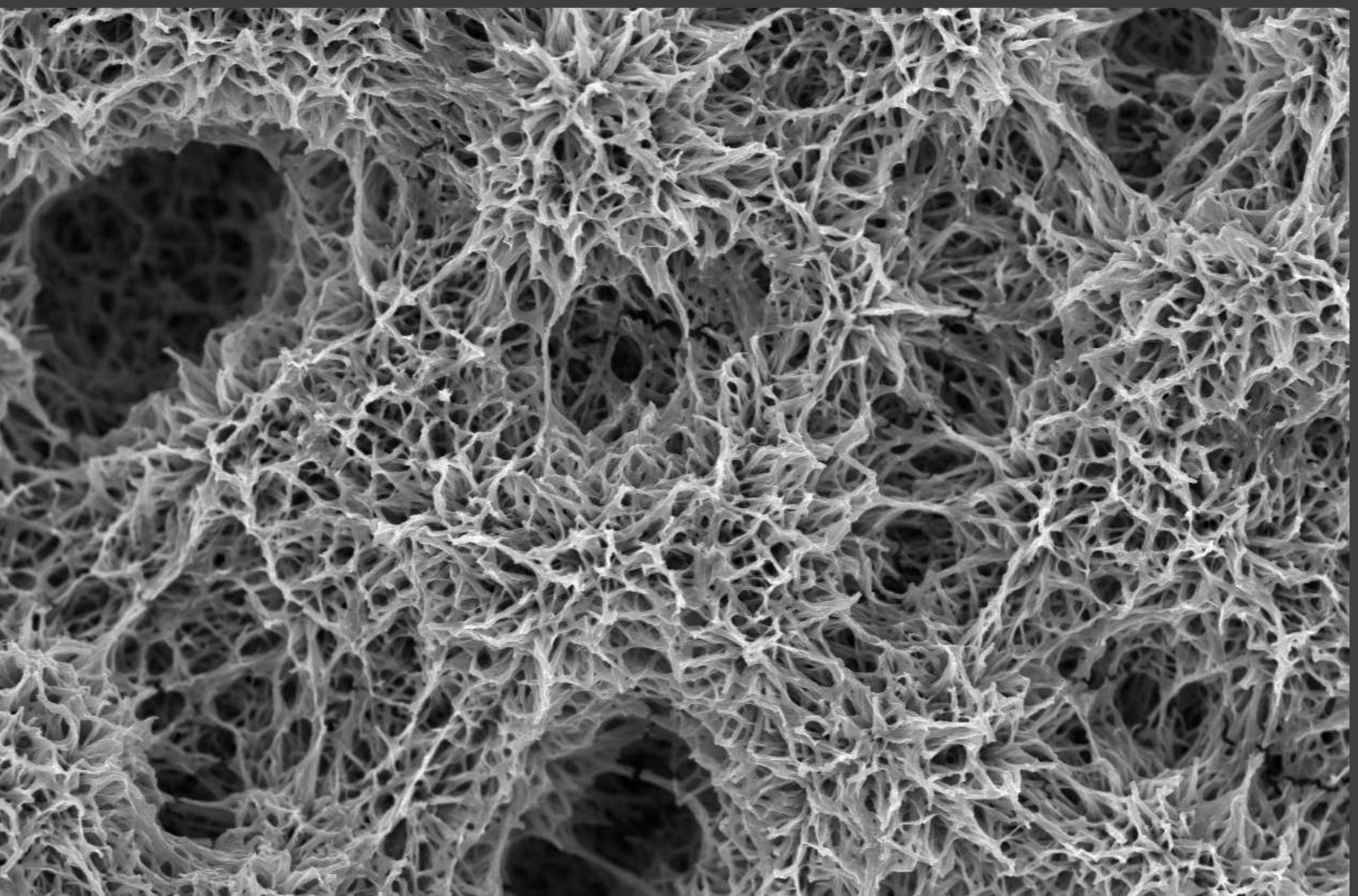
2022 Relocation of Waegwan office building

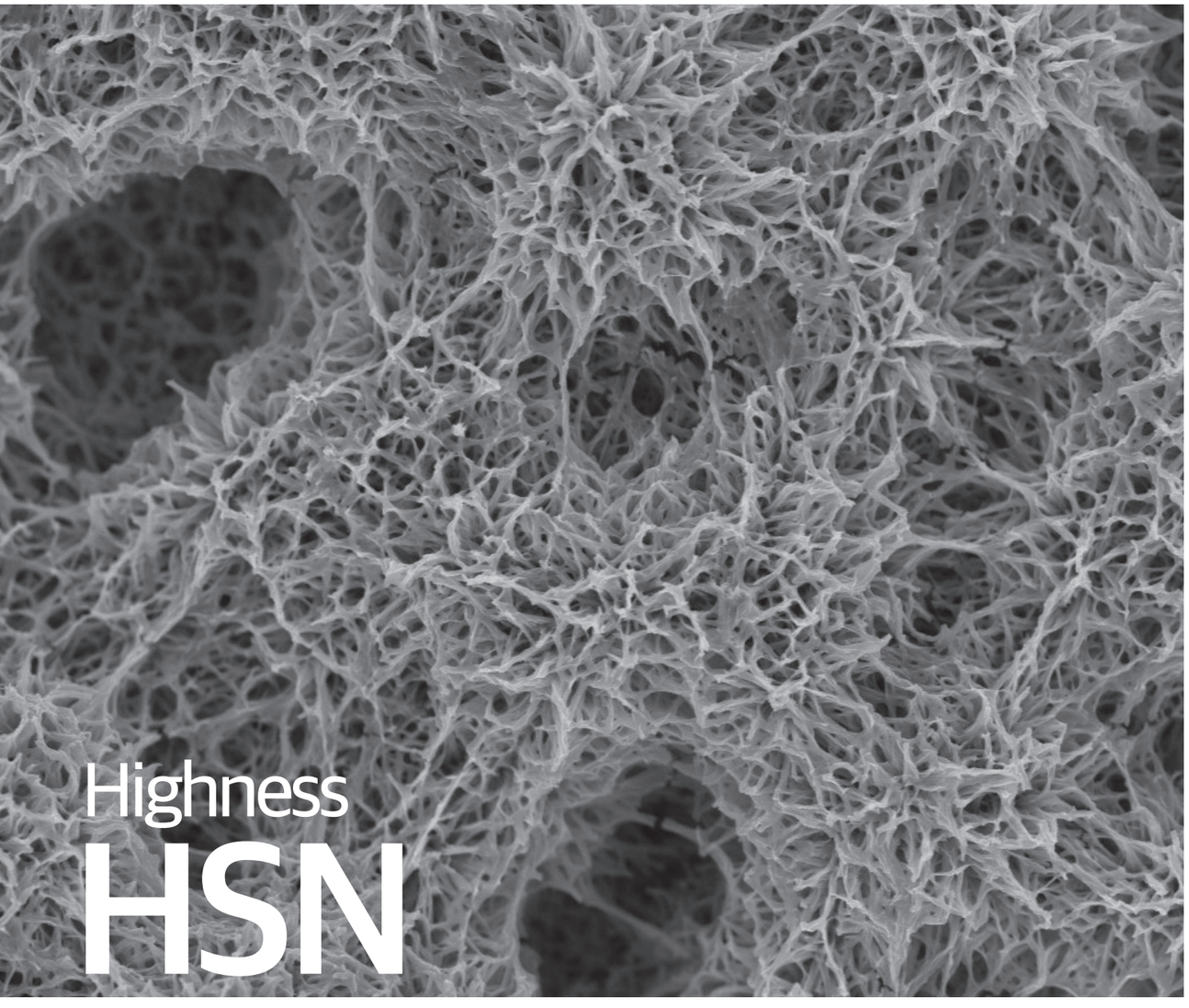
Contents

Highness Implant Fixture Surface Feature

Highness HSN

Hydrophilic Nano Fixture



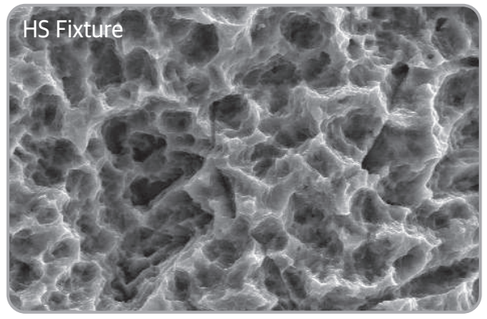


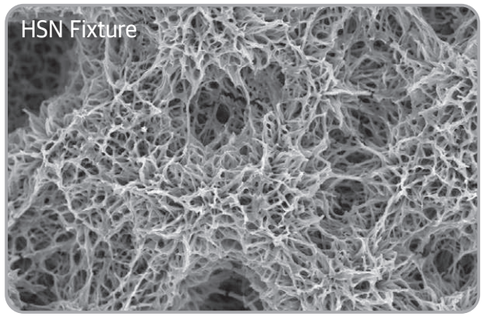
Highness HSN

Hierarchical Nano-Micro : HMN

HMN surfaces achieve surface roughness mixed with nanoscale and microscale by alkaline cleaning on roughened titanium surfaces after Sand Blasting Large grit Acid etching (SLA). On HMN surfaces, micro-scale structures play an important role in increasing the initial cell adhesion rate, and nanoscale structures play an important role in increasing the cell growth rate after initial cell adhesion. This structure increases fixation and stability by accelerating bone adhesion and growth between implants and bones.

· SLA and HSN Implant SEM Photo Comparison Test

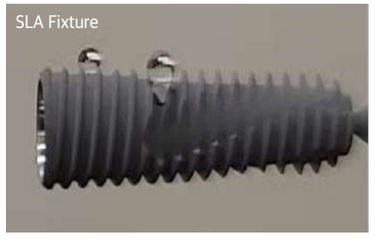


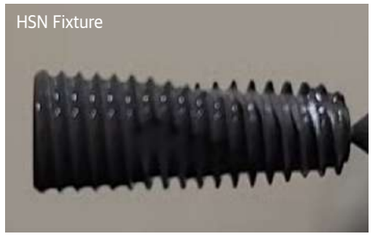


HMN surfaces will simultaneously play the necessary roles for early cell adhesion and cell growth through structural networks formed on a micro-scale and nanoscale scale.

Evaluation items	HS Fixture	HSN Fixture
Fatigue	256N	262N
Precision Fit (Rotation Angle)	0°	0°
Precision Fit (Loosening)	1μm	0μm
an elution test	PASS	PASS
an intracranial reaction	PASS	PASS
Cytotoxicity	PASS	PASS
Acute systemic toxicity	PASS	PASS
a pyrogenicity test	PASS	PASS
aseptic test	PASS	PASS

· Hydrophilic Test





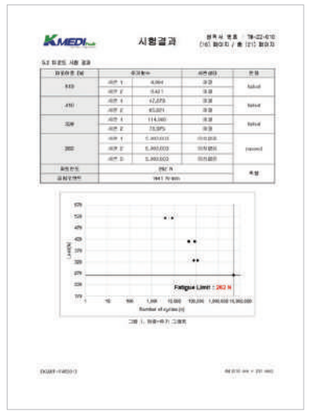
Highness
Implant

Fixture
Surface Feature

Highness Fixture has completed the verification of the technology and stability of the product, including performance tests, biological safety tests, physical and chemical characteristics tests, and medical device manufacturing licenses.

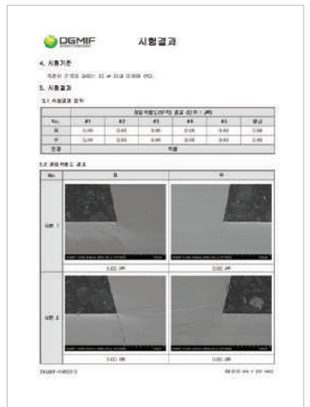
1. Performance test

Surface roughness



Fatigue

Precision fit (rotation angle)



Precision fit (loosening)

2. Biological stability assessment

Aseptic test

Elution test

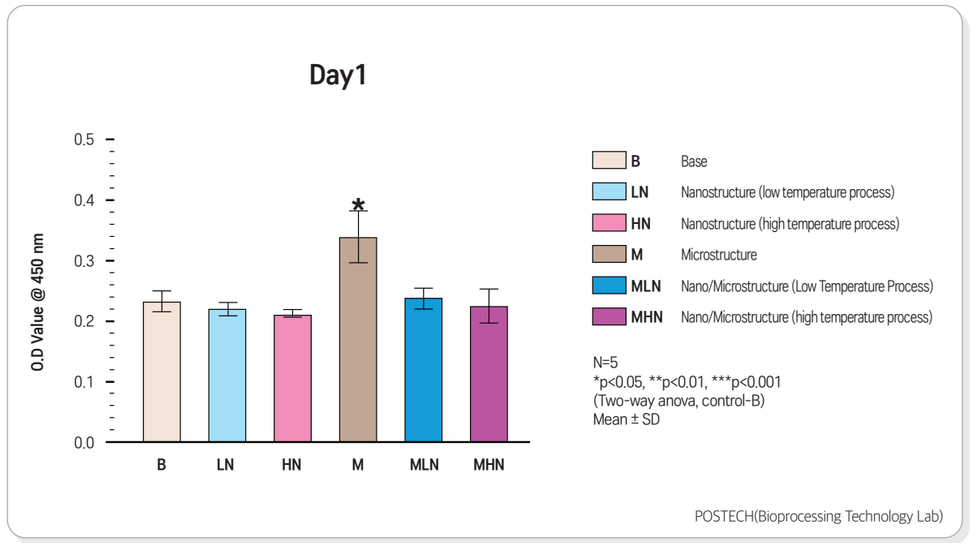
Intradermal reaction

Cytotoxicity

Acute systemic toxicity

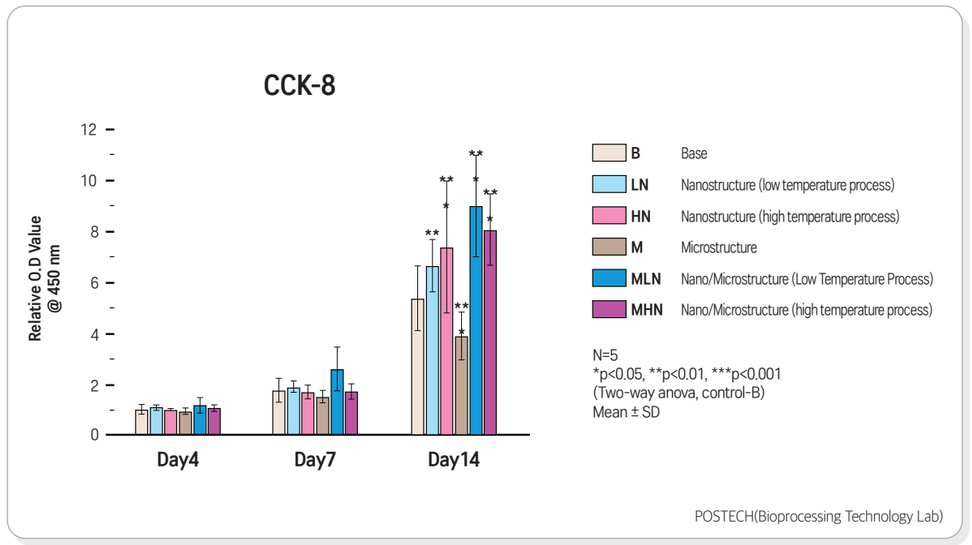
Pyrogenicity test

Cell adhesion rate experiment



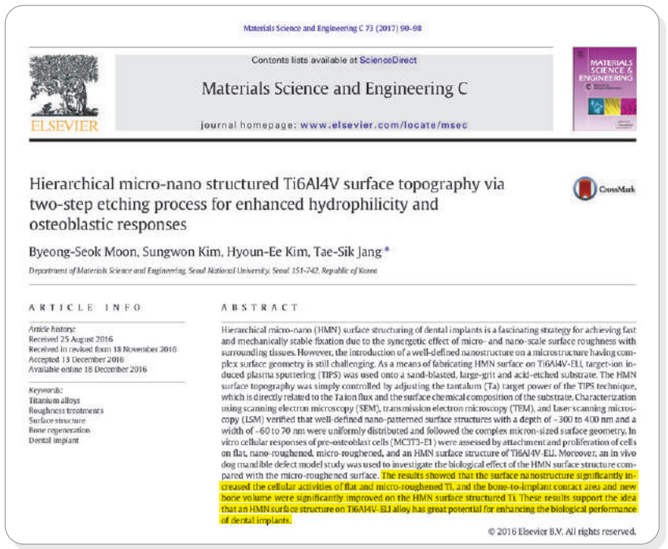
Microstructure has a high initial cell adhesion rate → The presence or absence of microstructure is important for early cell growth

Cell Growth Rate Experiment



Cell growth has superior nanostructures → Nanostructures are required for cell growth to be faster

A Study on the Improvement of BIC Performance in HMN Structure



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Hierarchical micro-nano structured Ti6Al4V surface topography via two-step etching process for enhanced hydrophilicity and osteoblastic responses

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Roughness treatments
Surface structure
Bone regeneration
Dental implant

ABSTRACT

Hierarchical micro-nano (HMN) surface structuring of dental implants is a fascinating strategy for achieving fast and mechanically stable fixation due to the synergetic effect of micro- and nano-scale surface roughness with surrounding tissues. However, the introduction of a well-defined nanostructure on a microstructure having complex surface geometry is still challenging. As a means of fabricating HMN surface on Ti6Al4V-ELI, target-ion induced plasma sputtering (TIPS) was used onto a sand-blasted, large-grit and acid-etched substrate. The HMN surface topography was simply controlled by adjusting the tantalum (Ta) target power of the TIPS technique, which is directly related to the Talon flux and the surface chemical composition of the substrate. Characterization using scanning electron microscopy (SEM), transmission electron microscopy (TEM), and laser scanning microscopy (LSM) verified that well-defined nano-patterned surface structures with a depth of ~300 to 400 nm and a width of ~60 to 70 nm were uniformly distributed and followed the complex micron-sized surface geometry. In vitro cellular responses of pre-osteoblast cells (MC3T3-E1) were assessed by attachment and proliferation of cells on flat, nano-roughened, micro-roughened, and an HMN surface structure of Ti6Al4V-ELI. Moreover, an in vivo dog mandible defect model study was used to investigate the biological effect of the HMN surface structure compared with the micro-roughened surface. The results showed that the surface nanostructure significantly increased the cellular activities of flat and micro-roughened Ti, and the bone-to-implant contact area and new bone volume were significantly improved on the HMN surface structured Ti. These results support the idea that an HMN surface structure on Ti6Al4V-ELI alloy has great potential for enhancing the biological performance of dental implants.

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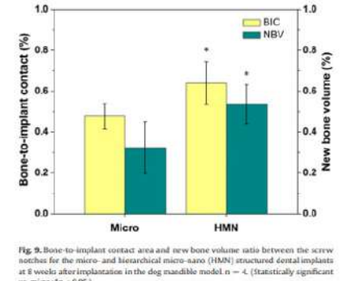


Fig. 9. Bone-to-implant contact area and new bone volume ratio between the screw notches for the micro- and hierarchical micro-nano (HMN) structured dental implants at 8 weeks after implantation in the dog mandible model. n = 4. (Statistically significant vs. micro: *p < 0.05.)

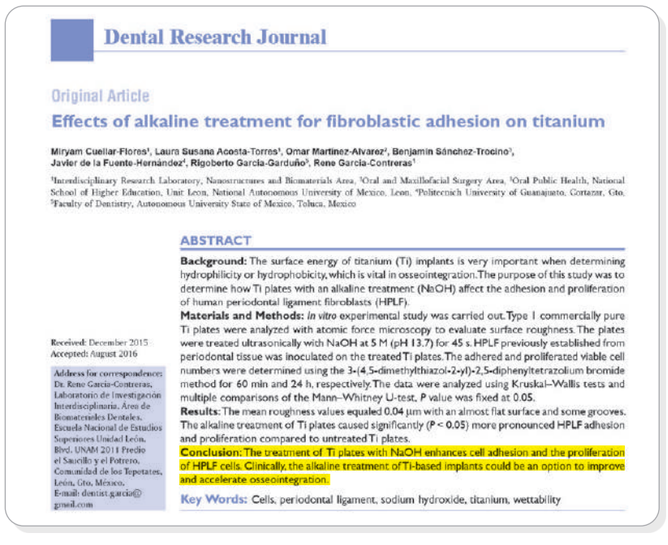
Comparison of SLA in Microstructure and BIC in Micro/ Nano Structures

Micro/nanostructure (HMN) significantly improves cell activity and bone contact area

Surface nanostructures significantly increased the cellular activity of Ti, HMN* surfaces significantly improved bone-implant contact area and new bone volume, and HMN* surface structures of Ti6Al4V-ELI alloys have high potential to improve the biological performance of dental implants.

*HMN = Hierarchical structure of nanoscale and microscale

An Essay on Alkaline Cleaning and Cell Attachment and Growth



Dental Research Journal

Original Article

Effects of alkaline treatment for fibroblastic adhesion on titanium

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ABSTRACT

Background: The surface energy of titanium (Ti) implants is very important when determining hydrophilicity or hydrophobicity, which is vital in osseointegration. The purpose of this study was to determine how Ti plates with an alkaline treatment (NaOH) affect the adhesion and proliferation of human periodontal ligament fibroblasts (HPLF).

Materials and Methods: *In vitro* experimental study was carried out. Type I commercially pure Ti plates were analyzed with atomic force microscopy to evaluate surface roughness. The plates were treated ultrasonically with NaOH at 5 M (pH 13.7) for 45 s. HPLF previously established from periodontal tissue was inoculated on the treated Ti plates. The adhered and proliferated viable cell numbers were determined using the 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide method for 60 min and 24 h, respectively. The data were analyzed using Kruskal–Wallis tests and multiple comparisons of the Mann–Whitney U-test, *P* value was fixed at 0.05.

Results: The mean roughness values equaled 0.04 μm with an almost flat surface and some grooves. The alkaline treatment of Ti plates caused significantly ($P < 0.05$) more pronounced HPLF adhesion and proliferation compared to untreated Ti plates.

Conclusion: The treatment of Ti plates with NaOH enhances cell adhesion and the proliferation of HPLF cells. Clinically, the alkaline treatment of Ti-based implants could be an option to improve and accelerate osseointegration.

Key Words: Cells, periodontal ligament, sodium hydroxide, titanium, wettability

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E-mail: dentist.garcia@gmail.com

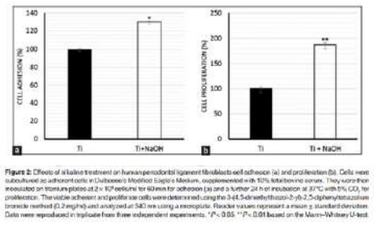


Figure 2: Effects of alkaline treatment on human periodontal ligament fibroblasts cell adhesion (a) and proliferation (b). Cells were subcultivated as adherent cells in Dulbecco's Modified Eagle's Medium, supplemented with 10% fetal bovine serum. They were then inoculated on titanium plates at 2 × 10⁴ cells/ml for 60 min for adhesion (a) and a further 24 h of incubation at 37°C with 5% CO₂ for proliferation. The viable adherent and proliferative cells were determined using the 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide method (0.2 mg/ml) and analyzed at 540 nm using a microplate. Reader values represent a mean ± standard deviation. Data were reproduced in triplicate from three independent experiments. *P < 0.05. **P < 0.01 based on the Mann–Whitney U-test.

Cell adhesion rate and growth comparison, Ti (left), Ti+NaOH (right)

- Treatment of NaOH in titanium improves cell adhesion and proliferation of HPLF cells
- Clinically, alkaline treatment of titanium implants promotes osteoclasts

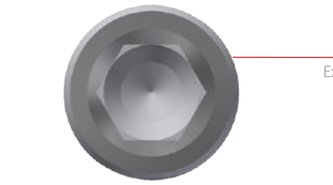
Treatment of NaOH on Ti plates improves cell adhesion and proliferation of HPLF cells, and can be an option to clinically improve and accelerate the ossification of Ti implants.

Description	Flow
Sub Abutment Screw	
Abutment	 Cement Abutment, Angled Abutment, Milling Abutment, Solid Abutment
Impression Coping	 Pick-up, Transfer
Lab Analog	
	 Cover Screw, Healing Abutment
Highness Fixture	 HSN- I, HSN-VII

Description	Flow
Sub Abutment Screw	
Abutment	 Link Abutment + Scanbody, Customized Abutment
Lab Analog	
	 Cover Screw, Healing Abutment
Highness Fixture	 HSN- I, HSN-VII

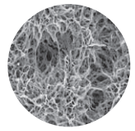
Highness Implant

Fixture HSN- I



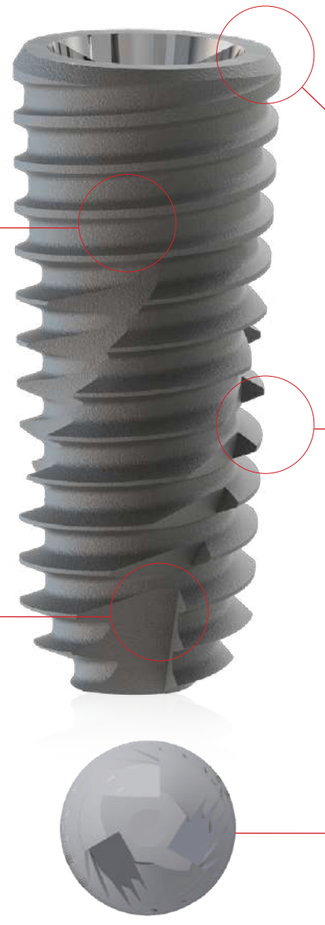
2.1Hex, 2.5Hex

Excellent compatibility with domestic and foreign products



HMN Surface

Nano-scale and micro-scale structure increases initial cell adhesion and cell growth rate



Platform Neck

Stable engraftment of the pericardium at the border of the tooth bone and implant

Anti-inflammatory and aesthetic effects

Thread Pitch & Wing Thread

Tapered body design with high initial stability

External screw 2-row structure for easy implantation

Wide Cutting Edge

Minimize the pressure on the bone to obtain initial retention

Apex Thread

Excellent initial grip allows fast settling on upper and lower axons

- Packing Unit : 1 Fixture + 1 Cover Screw
- Stable connection with Abutment is possible in the form of Hex
- It has an 11° Morse Taper structure that is resistant to shear stress of Abutment(8° Morse for mini size)
- The tapered body design has high initial holding power
- Use less torque to stabilize cartilage due to good load dispersion during planting
- Easy to adjust angle, easy to tighten Angled Type Abutment
- Method of use: Proper torque 35 N cm

Mini Fixture (Hex 2.1)

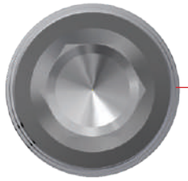
Diameter/D(∅)	Length/L(mm)	Model No.
∅3.25	8.5	HSMN-I 3208K
	10.0	HSMN-I 3210K
	11.5	HSMN-I 3211K
	13.0	HSMN-I 3213K
	14.5	HSMN-I 3215K
∅3.5	8.5	HSMN-I 3508K
	10.0	HSMN-I 3510K
	11.5	HSMN-I 3511K
	13.0	HSMN-I 3513K
	14.5	HSMN-I 3515K

Fixture (Hex 2.5)

Diameter/D(∅)	Length/L(mm)	Model No.
∅3.8	7.0	HSN-I 3807K
	8.5	HSN-I 3808K
	10.0	HSN-I 3810K
	11.5	HSN-I 3811K
	13.0	HSN-I 3813K
	14.5	HSN-I 3815K
∅4.2	7.0	HSN-I 4007K
	8.5	HSN-I 4008K
	10.0	HSN-I 4010K
	11.5	HSN-I 4011K
	13.0	HSN-I 4013K
	14.5	HSN-I 4015K
∅4.6	7.0	HSN-I 4507K
	8.5	HSN-I 4508K
	10.0	HSN-I 4510K
	11.5	HSN-I 4511K
	13.0	HSN-I 4513K
	14.5	HSN-I 4515K
∅5.1	7.0	HSN-I 5007K
	8.5	HSN-I 5008K
	10.0	HSN-I 5010K
	11.5	HSN-I 5011K
	13.0	HSN-I 5013K
	14.5	HSN-I 5015K
∅5.6	7.0	HSN-I 5507K
	8.5	HSN-I 5508K
	10.0	HSN-I 5510K
	11.5	HSN-I 5511K
	13.0	HSN-I 5513K
	14.5	HSN-I 5515K
∅6.0	7.0	HSN-I 6007K
	8.5	HSN-I 6008K
	10.0	HSN-I 6010K
	11.5	HSN-I 6011K
	13.0	HSN-I 6013K
	14.5	HSN-I 6015K

* Model No.: Fixture + Cover Screw (one set of components)

Highness Implant Fixture HSN - VII

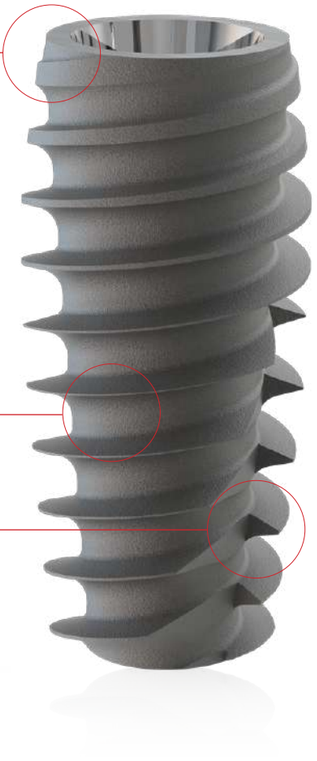


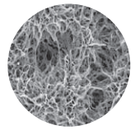
2.1Hex, 2.5Hex

Excellent compatibility with domestic and foreign products

Platform NECK

Keep the stress distribution evenly
Inhibition of gum tissue subsidence, such as bone necrosis and peri implantitis
Reverse tapered form that can be planted on narrow bone widths





HMN Surface

Nano-scale and micro-scale structure increases initial cell adhesion and cell growth rate

Wide cutting Edge

Stable self-cutting is possible with a cutting edge of 90° angle

Upper Area

Increases stress on sebaceous bone by strengthening thread thickness
Reverse tapered form to secure residual bone and implant on narrow bone width

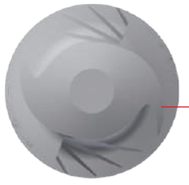
Middle Area

Largest diameter to increase contact with the pubic bone
Increase initial holding force and primary stability

Lower Area

Tapered body design gradually narrows
Minimize insertion torque at sebaceous bone
Strong initial fixation in sponges

Can be tapped in the form of a sharp blade of a triangular thread



Apex Thread

Bottom Three-Dimensional Rounding Design
Stable grandeur is possible during maxillary prosthesis

- When planting fixture with Root Type, apply pressure on bone stably to maximize initial holding force
- Packing Unit : 1 Fixture + 1 Cover Screw
- Stable connection with Abutment is possible in the form of Hex.
- It has an 11° Morse Taper structure that is resistant to shear stress in Abutment(8° Morse for mini size)
- High initial holding power with its tapered body design
- Sharp screw thread increases insertion pressure as it goes down
- Use less torque to stabilize cartilage due to good load dispersion during planting.
- Method of use: Proper torque 35 N cm

Mini Fixture (Hex 2.1)

Diameter/D(Ø)	Length/L(mm)	Model No.
Ø3.3	8.5	HSMN-VII 3208K
	10.0	HSMN-VII 3210K
	11.5	HSMN-VII 3211K
	13.0	HSMN-VII 3213K
	14.5	HSMN-VII 3215K
Ø3.6	8.5	HSMN-VII 3508K
	10.0	HSMN-VII 3510K
	11.5	HSMN-VII 3511K
	13.0	HSMN-VII 3513K
	14.5	HSMN-VII 3515K

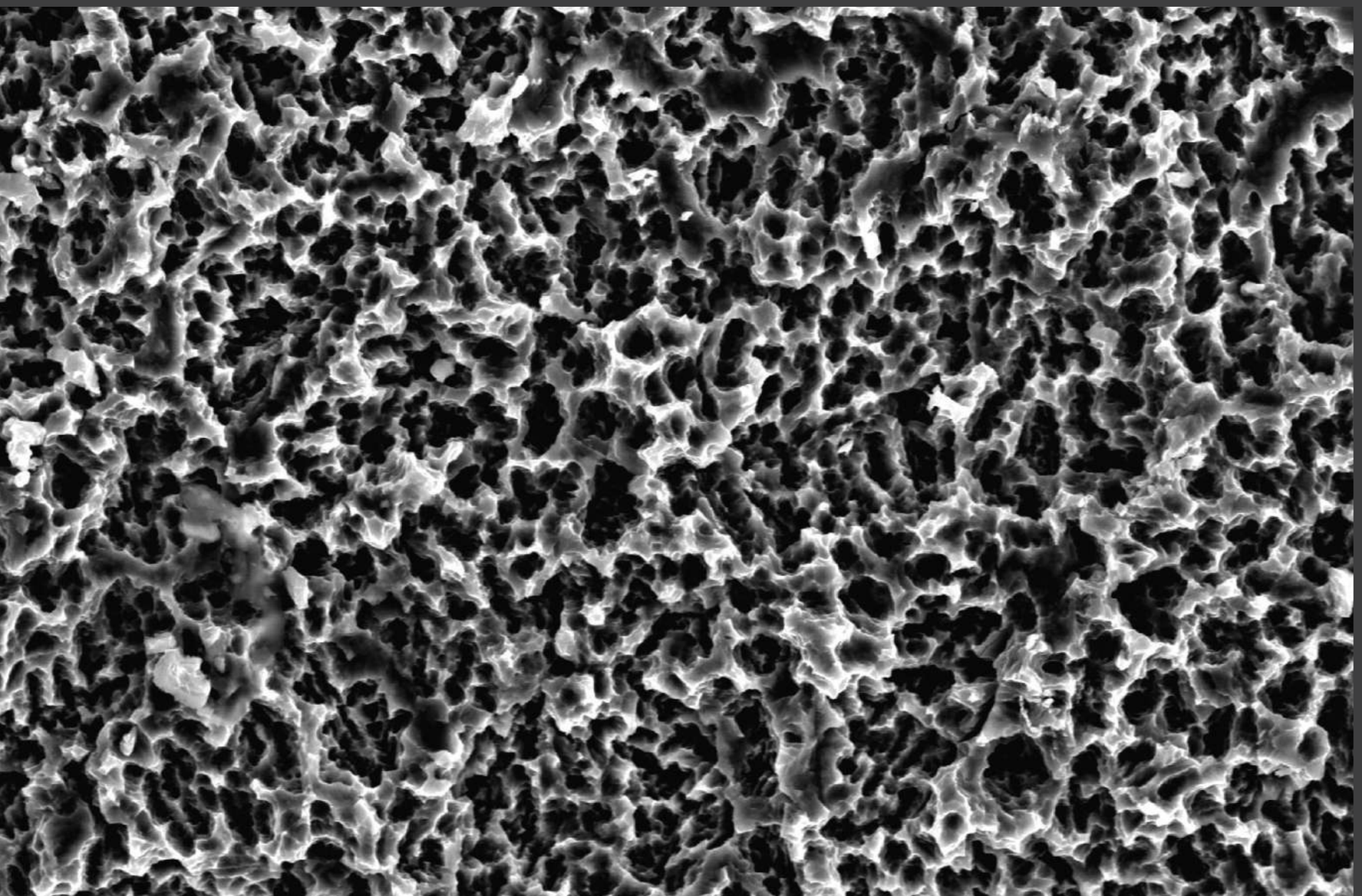
Fixture (Hex 2.5)

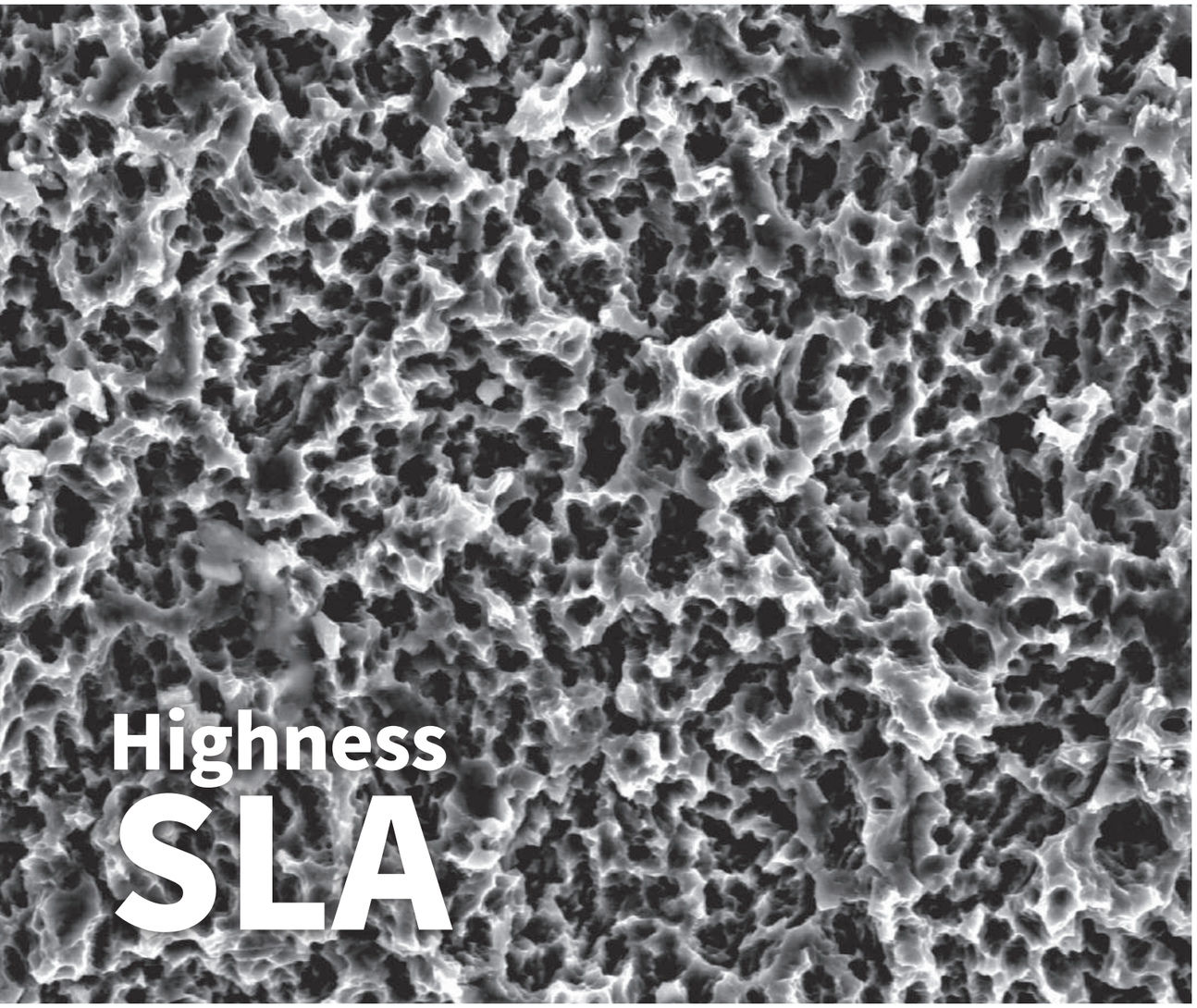
Diameter/D(Ø)	Length/L(mm)	Model No.
Ø4.0	7.0	HSN-VII 3807K
	8.5	HSN-VII 3808K
	10.0	HSN-VII 3810K
	11.5	HSN-VII 3811K
	13.0	HSN-VII 3813K
	14.5	HSN-VII 3815K
Ø4.2	7.0	HSN-VII 4007K
	8.5	HSN-VII 4008K
	10.0	HSN-VII 4010K
	11.5	HSN-VII 4011K
	13.0	HSN-VII 4013K
	14.5	HSN-VII 4015K
Ø4.7	7.0	HSN-VII 4507K
	8.5	HSN-VII 4508K
	10.0	HSN-VII 4510K
	11.5	HSN-VII 4511K
	13.0	HSN-VII 4513K
	14.5	HSN-VII 4515K
Ø5.2	7.0	HSN-VII 5007K
	8.5	HSN-VII 5008K
	10.0	HSN-VII 5010K
	11.5	HSN-VII 5011K
	13.0	HSN-VII 5013K
	14.5	HSN-VII 5015K
Ø5.7	7.0	HSN-VII 5507K
	8.5	HSN-VII 5508K
	10.0	HSN-VII 5510K
	11.5	HSN-VII 5511K
	13.0	HSN-VII 5513K
	14.5	HSN-VII 5515K
Ø6.2	7.0	HSN-VII 6007K
	8.5	HSN-VII 6008K
	10.0	HSN-VII 6010K
	11.5	HSN-VII 6011K
	13.0	HSN-VII 6013K
	14.5	HSN-VII 6015K

* Model No.: Fixture + Cover Screw (one set of components)

Highness Implant Fixture Surface Feature

Highness SLA





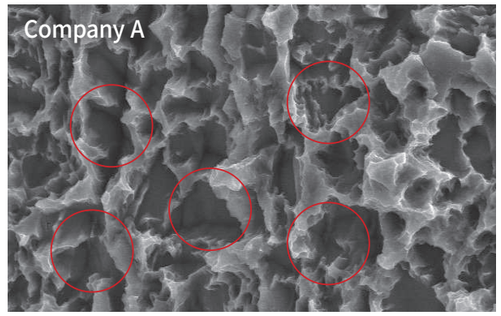
VS

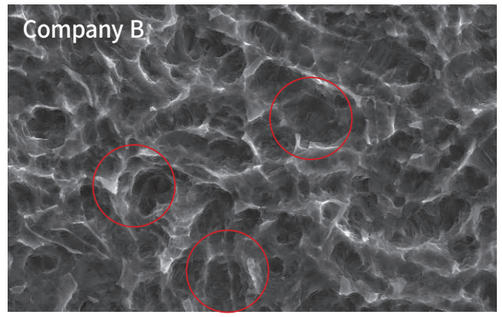
Sand blasting Large grit Acid etching : SLA

The SLA surface is a technique that utilizes dispensing treatment by abrasives with large particle diameters that produces micro-rougness on titanium surfaces to achieve optimal roughness through acid corrosion.

As the osteoclasts in the blood settle in a uniform surface structure that is formed roughly, osseointegration between the implant and the bone accelerates, increasing retention and stability.

· SLA Surface Treatment Implant SEM Photo Comparison Test





Company A and Company B's surfaces are found to be partially sandblasting due to insufficient obstetric treatment, but the surface of the Highness implant shows a uniform obstetric effect.

· Surface Roughness Value (Ra)

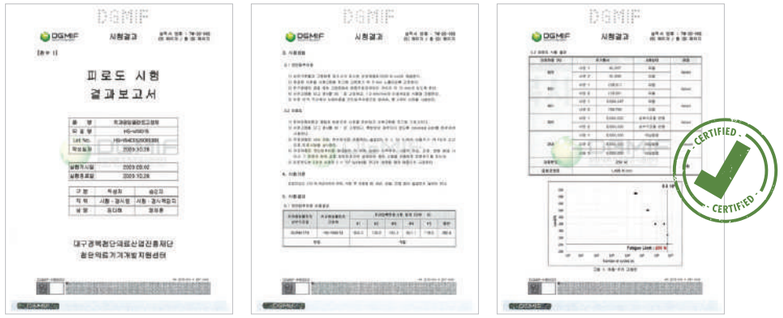
Measurement Position	Company A	Company B	Company C	Highness
Top Ra	1.76 µm	2.31 µm	2.25 µm	2.35 µm
Bottom Ra	1.93 µm	2.96 µm	2.11 µm	2.40 µm
Mean Ra	1.84 µm	2.63 µm	2.18 µm	2.37 µm
Deviation	0.17 µm	0.65 µm	0.14 µm	0.05 µm

Surface Roughness Value (Ra): The surface roughness value of Hynix is evenly distributed, with an average value of 2.37 µm.

Highenss Fixture have completed verification of technology and stability of products such as performance test, biological safety test, physical and chemical characteristics tests and medical device manufacturing permits.

1. Performance test

① Fatigue test results



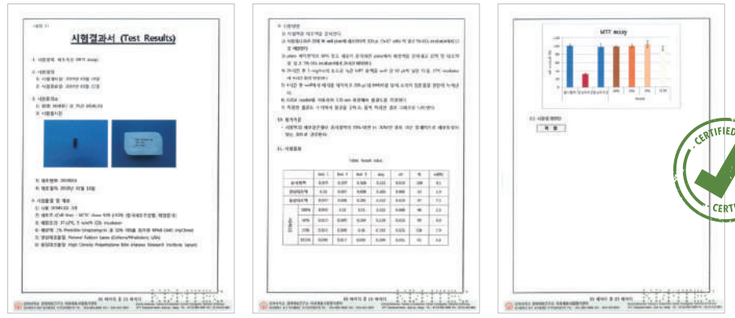
② Precision suitability (free play/angle of rotation) test result

③ Results of shear compression load test

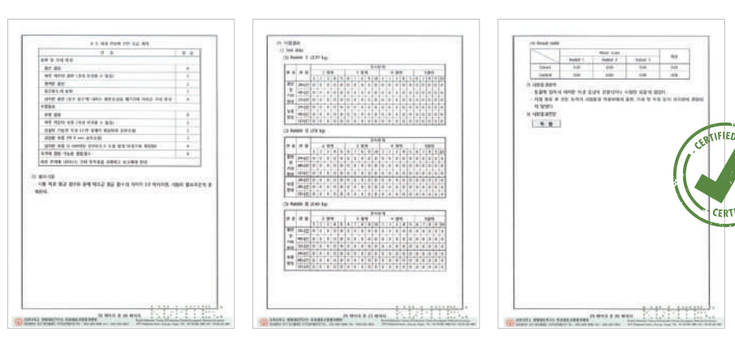
2. Biological Stability Assessment

Highness Fixture conducted experiments on biological stability based on common standards for biological safety of medical devices and ISO 10993 specifications, all of which were judged to be appropriate.

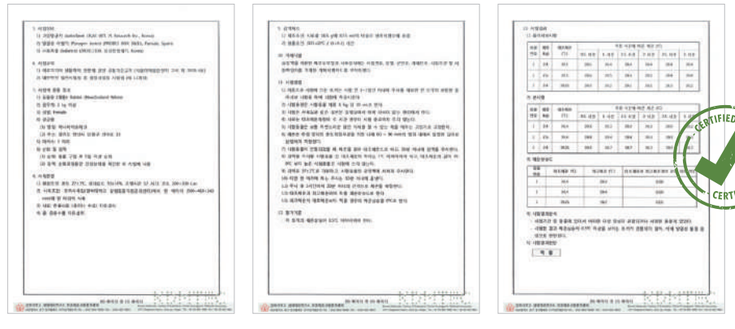
① Cytotoxicity test results



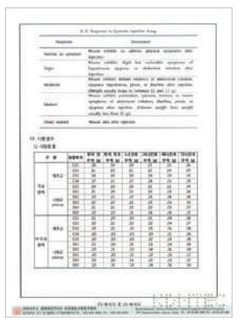
② Results of in-vitro response test



③ Results of the exothermic test

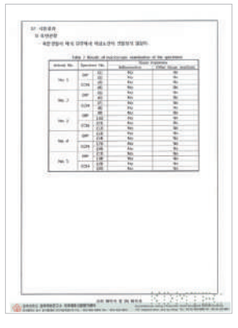


④ Acute systemic toxicity test results



⑤ Aseptic test results

⑥ Transplant test results



⑦ Sensitization test results

3. Fixture Permit Test Status

HS - I Fixture

HS - VII Fixture

*** Physical and Chemical Properties Test**

Surface Roughness and Growth Rate 100%
Surface Components Analysis 100%

*** Performance Test**

Shear Compression Load 100%
Fatigue test 100%

*** A test of biological safety**

Cytotoxic 100%
Intradermal reaction 100%
Heat dissipation 100%
Acute systemic toxicity 100%
Sensitization Test 100%
Aseptic test 100%

*** A safety test**

Sterile Validation 100%

*** Medical device manufacturing permit**

Technical document review 100%

4. Total evaluation result

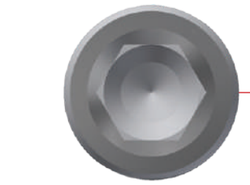
Evaluation Items	Target	Evaluation Results
Surface Roughness (Ra)	2~3μm	2.375μm
Fatigue test	210N or higher	256N
Cleaning Residues	Heavy metal content (0.1 mg/L or less)	0.1mg/L or less
In Vitro Reaction	No Edema, no bleeding	Conformity
Cytotoxicity	No cytotoxicity	Conformity
Acute systemic toxicity	No clinical abnormalities found	Conformity
Pyrogenicity test	Animal body temperature rise less than 0.5	Conformity
Precision Fit (Rotation Angle)	Not more than 10 μm	0.00
Precision goodness of fit (free play)	Within 3°	1.0
Dimension Test	Within ±1% of the mark	Conformity

Description	Flow
Sub Abutment Screw	
Abutment	 Cement Abutment  Angled Abutment  Milling Abutment  Solid Abutment
Impression Coping	 Pick-up  Transfer
Lab Analog	
	 Cover Screw  Healing Abutment
Highness Fixture	 HS- I  HS-VII

Description	Flow
Sub Abutment Screw	
Abutment	 Link Abutment + Scanbody  Customized Abutment
Lab Analog	
	 Cover Screw  Healing Abutment
Highness Fixture	 HS- I  HS-VII

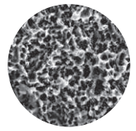
Highness Implant

Fixture HS- I



2.1Hex, 2.5Hex

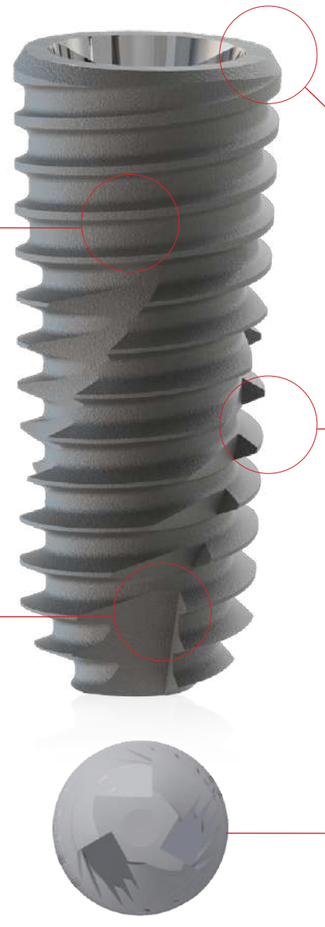
Excellent compatibility with domestic and foreign products



SLA Surface

Increase surface roughness to expand surface area to widen tissue contact area

Reduce the time required for bone adhesion



Platform Neck

Stable engraftment of the pericardium at the border of the tooth bone and implant

Anti-inflammatory and aesthetic effects

Thread Pitch & Wing Thread

Tapered body design with high initial stability
External screw 2-row structure for easy implantation

Wide Cutting Edge

Minimize the pressure on the bone to obtain initial retention

Apex Thread

Excellent initial grip allows fast settling on upper and lower axons

- Packing Unit : 1 Fixture + 1 Cover Screw
- Stable connection with Abutment is possible in the form of Hex
- It has an 11° Morse Taper structure that is resistant to shear stress of Abutment(8° Morse for mini size)
- The tapered body design has high initial holding power
- Use less torque to stabilize cartilage due to good load dispersion during planting
- Easy to adjust angle, easy to tighten Angled Type Abutment
- Method of use: Proper torque 35 N cm

Mini Fixture (Hex 2.1)

Diameter/D(∅)	Length/L(mm)	Model No.
∅3.25	8.5	HSM-I 3208
	10.0	HSM-I 3210
	11.5	HSM-I 3211
	13.0	HSM-I 3213
	14.5	HSM-I 3215
∅3.5	8.5	HSM-I 3508
	10.0	HSM-I 3510
	11.5	HSM-I 3511
	13.0	HSM-I 3513
	14.5	HSM-I 3515

Fixture (Hex 2.5)

Diameter/D(∅)	Length/L(mm)	Model No.
∅3.8	7.0	HS-I 3807
	8.5	HS-I 3808
	10.0	HS-I 3810
	11.5	HS-I 3811
	13.0	HS-I 3813
	14.5	HS-I 3815
∅4.2	7.0	HS-I 4007
	8.5	HS-I 4008
	10.0	HS-I 4010
	11.5	HS-I 4011
	13.0	HS-I 4013
	14.5	HS-I 4015
∅4.6	7.0	HS-I 4507
	8.5	HS-I 4508
	10.0	HS-I 4510
	11.5	HS-I 4511
	13.0	HS-I 4513
	14.5	HS-I 4515
∅5.1	7.0	HS-I 5007
	8.5	HS-I 5008
	10.0	HS-I 5010
	11.5	HS-I 5011
	13.0	HS-I 5013
	14.5	HS-I 5015
∅5.6	7.0	HS-I 5507
	8.5	HS-I 5508
	10.0	HS-I 5510
	11.5	HS-I 5511
	13.0	HS-I 5513
	14.5	HS-I 5515
∅6.0	7.0	HS-I 6007
	8.5	HS-I 6008
	10.0	HS-I 6010
	11.5	HS-I 6011
	13.0	HS-I 6013
	14.5	HS-I 6015
∅7.0	7.0	HS-I 7007
	8.5	HS-I 7008
	10.0	HS-I 7010
	11.5	HS-I 7011
	13.0	HS-I 7013

* Model No.: Fixture + Cover Screw (one set of components)

Highness Implant Fixture HS - VII

2.1Hex, 2.5Hex

Excellent compatibility with domestic and foreign products

Platform NECK

Keep the stress distribution evenly
Inhibition of gum tissue subsidence, such as bone necrosis and peri implantitis
Reverse tapered form that can be planted on narrow bone widths

SLA Surface

Increase surface roughness to expand surface area to widen tissue contact area

Reduce the time required for osseointegration

Wide cutting Edge

Stable self-cutting is possible with a cutting edge of 90° angle

Upper Area

Increases stress on sebaceous bone by strengthening thread thickness
Reverse tapered form to secure residual bone and implant on narrow bone width

Middle Area

Largest diameter to increase contact with the pubic bone
Increase initial holding force and primary stability

Lower Area

Tapered body design gradually narrows
Minimize insertion torque at sebaceous bone
Strong initial fixation in sponges

Can be tapped in the form of a sharp blade of a triangular thread

Apex Thread

Bottom Three-Dimensional Rounding Design
Stable grandeur is possible during maxillary prosthesis

- When planting fixture with Root Type, apply pressure on bone stably to maximize initial holding force
- Packing Unit : 1 Fixture + 1 Cover Screw
- Stable connection with Abutment is possible in the form of Hex.
- It has an 11° Morse Taper structure that is resistant to shear stress in Abutment(8° Morse for mini size)
- High initial holding power with its tapered body design
- Sharp screw thread increases insertion pressure as it goes down
- Use less torque to stabilize cartilage due to good load dispersion during planting.
- Method of use: Proper torque 35 N cm

Mini Fixture (Hex 2.1)

Diameter/D(∅)	Length/L(mm)	Model No.
∅3.3	8.5	HSM-VII 3208
	10.0	HSM-VII 3210
	11.5	HSM-VII 3211
	13.0	HSM-VII 3213
	14.5	HSM-VII 3215
∅3.6	8.5	HSM-VII 3508
	10.0	HSM-VII 3510
	11.5	HSM-VII 3511
	13.0	HSM-VII 3513
	14.5	HSM-VII 3515

Fixture (Hex 2.5)

Diameter/D(∅)	Length/L(mm)	Model No.
∅4.0	7.0	HS-VII 3807
	8.5	HS-VII 3808
	10.0	HS-VII 3810
	11.5	HS-VII 3811
	13.0	HS-VII 3813
	14.5	HS-VII 3815
∅4.2	7.0	HS-VII 4007
	8.5	HS-VII 4008
	10.0	HS-VII 4010
	11.5	HS-VII 4011
	13.0	HS-VII 4013
	14.5	HS-VII 4015
∅4.7	7.0	HS-VII 4507
	8.5	HS-VII 4508
	10.0	HS-VII 4510
	11.5	HS-VII 4511
	13.0	HS-VII 4513
	14.5	HS-VII 4515
∅5.2	7.0	HS-VII 5007
	8.5	HS-VII 5008
	10.0	HS-VII 5010
	11.5	HS-VII 5011
	13.0	HS-VII 5013
	14.5	HS-VII 5015
∅5.7	7.0	HS-VII 5507
	8.5	HS-VII 5508
	10.0	HS-VII 5510
	11.5	HS-VII 5511
	13.0	HS-VII 5513
	14.5	HS-VII 5515
∅6.2	7.0	HS-VII 6007
	8.5	HS-VII 6008
	10.0	HS-VII 6010
	11.5	HS-VII 6011
	13.0	HS-VII 6013
	14.5	HS-VII 6015
∅7.0	7.0	HS-VII 7007
	8.5	HS-VII 7008
	10.0	HS-VII 7010
	11.5	HS-VII 7011
	13.0	HS-VII 7013

* Model No.: Fixture + Cover Screw (one set of components)

Submerged Mini

Hex 2.1

Highness Implant

Submerged Mini (Hex 2.1)

Cover Screw
Type Mini

Model No.
SCS100-21

Sub Abutment Screw
Type Mini

Model No.
SAS100-21

Healing
Type Mini

∅4.5 Healing Product

Diameter/D(∅)	Cuff/C(mm)	Model No.
∅4.5	3	SHA 4530-21
	4	SHA 4540-21
	5	SHA 4550-21
	7	SHA 4570-21

Cemented
Type Mini

· Proper Torque 20 Ncm

Hex

Diameter/D(∅)	Length	Cuff/C(mm)	Model No.
∅4.5	5	1	SCA 4515-21
		2	SCA 4525-21
		3	SCA 4535-21
		4	SCA 4545-21
		5	SCA 4555-21
∅4.5	7	1	SCA 4517-21
		2	SCA 4527-21
		3	SCA 4537-21
		4	SCA 4547-21
		5	SCA 4557-21

Non-Hex

Diameter/D(∅)	Length	Cuff/C(mm)	Model No.
∅4.5	5	1	SCN 4515-21
		2	SCN 4525-21
		3	SCN 4535-21
		4	SCN 4545-21
		5	SCN 4555-21
∅4.5	7	1	SCN 4517-21
		2	SCN 4527-21
		3	SCN 4537-21
		4	SCN 4547-21
		5	SCN 4557-21

Angled
Type Mini

Hex

Diameter/D(∅)	Angle	Cuff/C(mm)	Model No.
∅4.5	15°	1	SAAH 451015-21
		2	SAAH 452015-21
		3	SAAH 453015-21
		4	SAAH 454015-21
		5	SAAH 455015-21
	25°	1	SAAH 451025-21
		2	SAAH 452025-21
		3	SAAH 453025-21
		4	SAAH 454025-21
		5	SAAH 455025-21

Non-Hex

Diameter/D(∅)	Angle	Cuff/C(mm)	Model No.
∅4.5	15°	1	SAAN 451015-21
		2	SAAN 452015-21
		3	SAAN 453015-21
		4	SAAN 454015-21
		5	SAAN 455015-21
	25°	1	SAAN 451025-21
		2	SAAN 452025-21
		3	SAAN 453025-21
		4	SAAN 454025-21
		5	SAAN 455025-21

Solid Abutment
Type Mini

Hex

Diameter/D(∅)	Length/L(mm)	Cuff/C(mm)	Model No.
∅4.0	5.5	1	SSA 4015-21
		2	SSA 4025-21
		3	SSA 4035-21
		4	SSA 4045-21
		5	SSA 4055-21
	7	1	SSA 4017-21
		2	SSA 4027-21
		3	SSA 4037-21
		4	SSA 4047-21
		5	SSA 4057-21
∅4.5	5.5	1	SSA 4515-21
		2	SSA 4525-21
		3	SSA 4535-21
		4	SSA 4545-21
		5	SSA 4555-21
	7	1	SSA 4517-21
		2	SSA 4527-21
		3	SSA 4537-21
		4	SSA 4547-21
		5	SSA 4557-21

CCM (UCLA Type)
Type Mini

Hex

Diameter/D(∅)	Model No.
∅4.5	SCCM45H-21

Non-Hex

Diameter/D(∅)	Model No.
∅4.5	SCCM45N-21

Temporary
Type Mini

Hex

Diameter/D(∅)	Cuff/C(mm)	Model No.
∅4.5	1	STA 4510-21

Non-Hex

Diameter/D(∅)	Cuff/C(mm)	Model No.
∅4.5	1	STN 4510-21

Lab Analog
Type Mini

Model No.
SLA 21

Impression Coping
Type Mini

Pick Up Type(Hex)

Diameter/D(∅)	Cuff/C(mm)	Model No.
∅4.5	12	SICPH 4512-21
	14	SICPH 4514-21

Pick Up Type(Non-Hex)

Diameter/D(∅)	Cuff/C(mm)	Model No.
∅4.5	12	SICPN 4512-21
	14	SICPN 4514-21

Transfer Type(Hex)

Diameter/D(∅)	Cuff/C(mm)	Model No.
∅4.5	12	SICTH 4512-21
	14	SICTH 4514-21

Transfer Type(Non-Hex)

Diameter/D(∅)	Cuff/C(mm)	Model No.
∅4.5	12	SICTN 4512-21
	14	SICTN 4514-21

Submerged Regular, Wide

Hex 2.5

Highness Implant

Cover Screw

Model No.
SCS100

- Protect the treatment area after Fixure planting
- Packing Unit : Included Fixture Packing
- How to use: 1.2 Hex Driver / Proper torque 10 Ncm

Sub Abutment Screw

Model No.
SAS100

- Configure as Sub Type Abutment and Packing

Healing Abutment

Type	Diameter/D(∅)	Cuff/C(mm)	Model No.
∅4.5 Healing	∅4.7	1	SHA45102B
		2	SHA45202B
		3	SHA45302B
		4	SHA45402B
		5	SHA45502B
∅5.5 Healing	∅5.7	1	SHA55102B
		2	SHA55202B
		3	SHA55302B
		4	SHA55402B
		5	SHA55502B
∅6.5 Healing	∅6.7	1	SHA65102B
		2	SHA65202B
		3	SHA65302B
		4	SHA65402B
		5	SHA65502B

- To form an appropriate gum by tightening it to the fixture during the healing period
- Height is the same as 2.1mm
- How to use: 1.2 Hex Driver / Proper torque 10 Ncm

Highness Implant
Cement Abutment

· Used in the production of Cement Type prosthetics
· Sub abutment screw fastening method
· As the Cuff part is in S-line, stress distribution is excellent during production of prosthetics
· The area of the screw head is the widest to significantly reduce the fracture
· How to use: 1.2 Hex Driver / Proper Torque 30 Ncm

Hex

Diameter/D(∅)	Length/L(mm)	Cuff/C(mm)	Model No.
∅4.5	4	1	SCA4514B
		2	SCA4524B
		3	SCA4534B
		4	SCA4544B
		5	SCA4554B
	5.5	1	SCA4515B
		2	SCA4525B
		3	SCA4535B
		4	SCA4545B
		5	SCA4555B
	7	1	SCA4517B
		2	SCA4527B
		3	SCA4537B
		4	SCA4547B
		5	SCA4557B
∅5.5	4	1	SCA5514B
		2	SCA5524B
		3	SCA5534B
		4	SCA5544B
		5	SCA5554B
	5.5	1	SCA5515B
		2	SCA5525B
		3	SCA5535B
		4	SCA5545B
		5	SCA5555B
	7	1	SCA5517B
		2	SCA5527B
		3	SCA5537B
		4	SCA5547B
		5	SCA5557B
∅6.5	4	1	SCA6514B
		2	SCA6524B
		3	SCA6534B
		4	SCA6544B
		5	SCA6554B
	5.5	1	SCA6515B
		2	SCA6525B
		3	SCA6535B
		4	SCA6545B
		5	SCA6555B
	7	1	SCA6517B
		2	SCA6527B
		3	SCA6537B
		4	SCA6547B
		5	SCA6557B

Non-Hex

Diameter/D(∅)	Length/L(mm)	Cuff/C(mm)	Model No.
∅4.5	4	1	SCN4514B
		2	SCN4524B
		3	SCN4534B
		4	SCN4544B
		5	SCN4554B
	5.5	1	SCN4515B
		2	SCN4525B
		3	SCN4535B
		4	SCN4545B
		5	SCN4555B
	7	1	SCN4517B
		2	SCN4527B
		3	SCN4537B
		4	SCN4547B
		5	SCN4557B
∅5.5	4	1	SCN5514B
		2	SCN5524B
		3	SCN5534B
		4	SCN5544B
		5	SCN5554B
	5.5	1	SCN5515B
		2	SCN5525B
		3	SCN5535B
		4	SCN5545B
		5	SCN5555B
	7	1	SCN5517B
		2	SCN5527B
		3	SCN5537B
		4	SCN5547B
		5	SCN5557B
∅6.5	4	1	SCN6514B
		2	SCN6524B
		3	SCN6534B
		4	SCN6544B
		5	SCN6554B
	5.5	1	SCN6515B
		2	SCN6525B
		3	SCN6535B
		4	SCN6545B
		5	SCN6555B
	7	1	SCN6517B
		2	SCN6527B
		3	SCN6537B
		4	SCN6547B
		5	SCN6557B

Highness Implant

Angled Abutment

- Required to adjust the path of Fixture or use it for preposition
- Choice varies from 15° to 25°
- Sub abutment screw fastening method
- As the Cuff part is in S-line, stress distribution is excellent during production of prosthetics
- The area of the screw head is the widest to significantly reduce the fracture
- How to use: 1.2 Hex Driver / Proper Torque 30 Ncm

Hex/Edge

Hex/Flat

Diameter/D(∅)	Angle/A(°)	Cuff/C(mm)	Model No. (Edge)	Model No. (Flat)
∅4.5	15°	1	SAAH 45115BE	SAAH 45115BF
		2	SAAH 45215BE	SAAH 45215BF
		3	SAAH 45315BE	SAAH 45315BF
		4	SAAH 45415BE	SAAH 45415BF
		5	SAAH 45515BE	SAAH 45515BF
	25°	1	SAAH 45125BE	SAAH 45125BF
		2	SAAH 45225BE	SAAH 45225BF
		3	SAAH 45325BE	SAAH 45325BF
		4	SAAH 45425BE	SAAH 45425BF
		5	SAAH 45525BE	SAAH 45525BF
∅5.5	15°	1	SAAH 55115BE	SAAH 55115BF
		2	SAAH 55215BE	SAAH 55215BF
		3	SAAH 55315BE	SAAH 55315BF
		4	SAAH 55415BE	SAAH 55415BF
		5	SAAH 55515BE	SAAH 55515BF
	25°	1	SAAH 55125BE	SAAH 55125BF
		2	SAAH 55225BE	SAAH 55225BF
		3	SAAH 55325BE	SAAH 55325BF
		4	SAAH 55425BE	SAAH 55425BF
		5	SAAH 55525BE	SAAH 55525BF
∅6.5	15°	1	SAAH 65115BE	SAAH 65115BF
		2	SAAH 65215BE	SAAH 65215BF
		3	SAAH 65315BE	SAAH 65315BF
		4	SAAH 65415BE	SAAH 65415BF
		5	SAAH 65515BE	SAAH 65515BF
	25°	1	SAAH 65125BE	SAAH 65125BF
		2	SAAH 65225BE	SAAH 65225BF
		3	SAAH 65325BE	SAAH 65325BF
		4	SAAH 65425BE	SAAH 65425BF
		5	SAAH 65525BE	SAAH 65525BF

Non-Hex

Diameter/D(∅)	Angle/A(°)	Cuff/C(mm)	Model No.
∅4.5	15°	1	SAAN 45115B
		2	SAAN 45215B
		3	SAAN 45315B
		4	SAAN 45415B
		5	SAAN 45515B
	25°	1	SAAN 45125B
		2	SAAN 45225B
		3	SAAN 45325B
		4	SAAN 45425B
		5	SAAN 45525B
∅5.5	15°	1	SAAN 55115B
		2	SAAN 55215B
		3	SAAN 55315B
		4	SAAN 55415B
		5	SAAN 55515B
	25°	1	SAAN 55125B
		2	SAAN 55225B
		3	SAAN 55325B
		4	SAAN 55425B
		5	SAAN 55525B
∅6.5	15°	1	SAAN 65115B
		2	SAAN 65215B
		3	SAAN 65315B
		4	SAAN 65415B
		5	SAAN 65515B
	25°	1	SAAN 65125B
		2	SAAN 65225B
		3	SAAN 65325B
		4	SAAN 65425B
		5	SAAN 65525B

Highness Implant

Milling Abutment

- Use when modifying the abutment path or customizing the margin of prosthetics is required
- Sub abutment screw fastening method
- How to use: 1.2 Hex Driver / Proper Torque 30 Ncm

Hex

Diameter/D(∅)	Length/L(mm)	Cuff/C(mm)	Model No.
∅4.5	14	1	SMA 4510
		2	SMA 4520
		3	SMA 4530
		4	SMA 4540
		5	SMA 4550
∅5.5	14	1	SMA 5510
		2	SMA 5520
		3	SMA 5530
		4	SMA 5540
		5	SMA 5550
∅6.5	14	1	SMA 6510
		2	SMA 6520
		3	SMA 6530
		4	SMA 6540
		5	SMA 6550

Non-Hex

Diameter/D(∅)	Length/L(mm)	Cuff/C(mm)	Model No.
∅4.5	14	1	SMN 4510
		2	SMN 4520
		3	SMN 4530
		4	SMN 4540
		5	SMN 4550
∅5.5	14	1	SMN 5510
		2	SMN 5520
		3	SMN 5530
		4	SMN 5540
		5	SMN 5550
∅6.5	14	1	SMN 6510
		2	SMN 6520
		3	SMN 6530
		4	SMN 6540
		5	SMN 6550

Highness Implant

Solid Abutment

- Used in the production of Cement Type prosthetics
- Screw Integrated Type
- Gingiva is formed in natural teeth shape
- The area of the screw head is wider to significantly reduce the fracture.
- How to use: 1.2 Hex Driver / Proper Torque 30 Ncm

Diameter/D(∅)	Length/L(mm)	Cuff/C(mm)	Model No.
∅4.5	4	1	SSA 4514B
		2	SSA 4524B
		3	SSA 4534B
		4	SSA 4544B
		5	SSA 4554B
	5.5	1	SSA 4515B
		2	SSA 4525B
		3	SSA 4535B
		4	SSA 4545B
		5	SSA 4555B
	7	1	SSA 4517B
		2	SSA 4527B
		3	SSA 4537B
		4	SSA 4547B
		5	SSA 4557B
∅5.5	4	1	SSA 5514B
		2	SSA 5524B
		3	SSA 5534B
		4	SSA 5544B
		5	SSA 5554B
	5.5	1	SSA 5515B
		2	SSA 5525B
		3	SSA 5535B
		4	SSA 5545B
		5	SSA 5555B
	7	1	SSA 5517B
		2	SSA 5527B
		3	SSA 5537B
		4	SSA 5547B
		5	SSA 5557B
∅6.5	4	1	SSA 6514B
		2	SSA 6524B
		3	SSA 6534B
		4	SSA 6544B
		5	SSA 6554B
	5.5	1	SSA 6515B
		2	SSA 6525B
		3	SSA 6535B
		4	SSA 6545B
		5	SSA 6555B
	7	1	SSA 6517B
		2	SSA 6527B
		3	SSA 6537B
		4	SSA 6547B
		5	SSA 6557B

Highness Implant

Link Abutment+ Scanbody

- Used in the production of Cement Type prosthetics
- Can be modeled through Scanbody instead of Impressing Coping
- How to use: 1.2 Hex Driver / Proper Torque 30 Ncm

Hex

Diameter/D(∅)	Length/L(mm)	Cuff/C(mm)	Model No.
∅4.5	4	0.5	SLA 4514
∅5.5			SLA 5514
∅6.5			SLA 6514

Diameter/D(∅)	Length/L(mm)	Cuff/C(mm)	Model No.
∅4.5	4	2	SLA 4524
∅5.5			SLA 5524
∅6.5			SLA 6524

Non-Hex

Diameter/D(∅)	Length/L(mm)	Cuff/C(mm)	Model No.
∅4.5	4	0.5	SLN 4514
∅5.5			SLN 5514
∅6.5			SLN 6514

Diameter/D(∅)	Length/L(mm)	Cuff/C(mm)	Model No.
∅4.5	4	2	SLN 4524
∅5.5			SLN 5524
∅6.5			SLN 6524

Highness Implant

Impression Coping

Pick-up type

- Gain impression taking with OpenTray
- Packing Unit : 1 Impression Coping + 1 screw pin
- Usage method: 1.2 Use Hex Driver

Pick-up type (Hex)

Diameter/D(∅)	Length/L(mm)	Model No.
∅4.5	10	SICPH 4510
	12	SICPH 4512
	14	SICPH 4514
∅5.5	10	SICPH 5510
	12	SICPH 5512
	14	SICPH 5514
∅6.5	10	SICPH 6510
	12	SICPH 6512
	14	SICPH 6514

Pick-up type (Non-Hex)

Diameter/D(∅)	Length/L(mm)	Model No.
∅4.5	10	SICPN 4510
	12	SICPN 4512
	14	SICPN 4514
∅5.5	10	SICPN 5510
	12	SICPN 5512
	14	SICPN 5514
∅6.5	10	SICPN 6510
	12	SICPN 6512
	14	SICPN 6514

Transfer type

- Acquire impression using close tray
- Packing Unit : 1 Impression Coping + 1 screw pin
- Usage method: 1.2 Use Hex Driver

Transfer type (Hex)

Diameter/D(∅)	Length/L(mm)	Model No.
∅4.5	10	SICTH 4510
	12	SICTH 4512
	14	SICTH 4514
∅5.5	10	SICTH 5510
	12	SICTH 5512
	14	SICTH 5514
∅6.5	10	SICTH 6510
	12	SICTH 6512
	14	SICTH 6514

Transfer type (Non-Hex)

Diameter/D(∅)	Length/L(mm)	Model No.
∅4.5	10	SICTN 4510
	12	SICTN 4512
	14	SICTN 4514
∅5.5	10	SICTN 5510
	12	SICTN 5512
	14	SICTN 5514
∅6.5	10	SICTN 6510
	12	SICTN 6512
	14	SICTN 6514

CCM (UCLA Type)

Hex Non-Hex

Hex

Model No.
SCCM45H-25

Non-Hex

Model No.
SCCM45N-25

Pre-milled Abutment

Hex Non-Hex

Hex

Diameter/D(Ø)	Model No.
Ø10	D10-01
Ø14	D14-01

Non-Hex

Diameter/D(Ø)	Model No.
Ø10	D10-02
Ø14	D14-02

Temporary

Hex Non-Hex

Hex

Diameter/D(Ø)	Cuff/C(mm)	Model No.
Ø4.5	1	STA 4510
Ø5.0		STA 5010
Ø5.5		STA 5510
Ø6.0		STA 6010
Ø6.5		STA 6510

Non-Hex

Diameter/D(Ø)	Cuff/C(mm)	Model No.
Ø4.5	1	STN 4510
Ø5.0		STN 5010
Ø5.5		STN 5510
Ø6.0		STN 6010
Ø6.5		STN 6510

Fixture Lab Analog

Model No.
SLA 25

Locator

Diameter/D(Ø)	Cuff/C(mm)	Model No.
Ø3.7	1	SLCA 3710
	2	SLCA 3720
	3	SLCA 3730
	4	SLCA 3740
	5	SLCA 3750

O-Ring

O-ring Abutment

Diameter/D(Ø)	Cuff/C(mm)	Model No.
Ø4.5	1	SOA 451
	2	SOA 452
	3	SOA 453
	4	SOA 454
	5	SOA 455

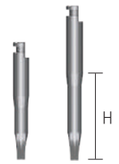
O-ring Retainer

Model No.
SORR22

O-ring

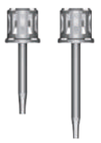
Model No.
SOR45

Machine Hex Driver



Hex	Height	Model No.
1.2 Hex	Short / 8mm	MHD 12S
	Middle / 12mm	MHD 12M
	Long / 18mm	MHD 12L

Ratchet Hex Driver



Hex	Length	Model No.
1.2 Hex	Short / 8mm	RHD 12S
	Middle / 12mm	RHD 12M
	Long / 18mm	RHD 12L

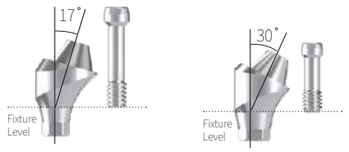
Multi unit Abutment & Components

MULTI UNIT STRAIGHT Abutment

Diameter/D1(∅)	Diameter/D2(∅)	Cuff/C(mm)	Model No.
∅ 4.8	∅ 2.8	1	SMUSM 5010
		2	SMUSM 5020
		3	SMUSM 5030
		4	SMUSM 5040
		5	SMUSM 5050
	∅ 3.35	1	SMUSR 5010
		2	SMUSR 5020
		3	SMUSR 5030
		4	SMUSR 5040
		5	SMUSR 5050

· Packing : Abutment
· Tightening torque : 30Ncm(mini/regular)

Mini (2.1Hex) | Standard (2.5Hex)



MULTI UNIT ANGLED Abutment

Diameter/D(∅)	Hex	Angle/A(°)	Cuff/C(mm)	Model No.	Type
∅ 4.8	2.5	17°	2	SMUAS 45217	Standard
			3	SMUAS 45317	
			4	SMUAS 45417	
		30°	3	SMUAS 45330	
			4	SMUAS 45430	
			5	SMUAS 45530	
∅ 4.8	2.1	17°	2	SMUAM 45217	Mini
			3	SMUAM 45317	
			4	SMUAM 45417	
		30°	3	SMUAM 45330	
			4	SMUAM 45430	
			5	SMUAM 45530	

· Packing : Abutment + Abutment Screw
· Tightening torque : Mini 20 Ncm, Standard 30Ncm

Mini | Standard

MULTI UNIT ANGLED Abutment Screw

Mini

Model No.
SMUAM 100

Standard

Model No.
SMUAS 100

· Used a 1.2 hex driver

MULTI UNIT ANGLED Carrier

Model No.
SMUC 100

· Tool for stable & safety connect implant to Multi Unit Angled Abutment
· Packing : Multi Unit Angled Carrier

Pick up Impression Coping

Diameter/D(∅)	Length	Model No.	Screw
∅ 4.8	8.0	MICP 4808	MICS 08
	11	MICP 4811	MICS 11
	13	MICP 4813	MICS 13
	16	MICP 4816	MICS 16

· Used open tray
· Packing : Pick up impression coping + Impression coping Screw

Lab Analog

Model No.
HSLA 300

· Packing : lab analog

Healing Cap Abutment

Model No.
SMUHC 100

· Used Multi Unit Angled Abutment after impression for gingiva healing period
· Packing : Healing Cap Abutment

MULTI UNIT Cylinder Screw

Model No.
SMUCS 100

· Used a 1.2 hex driver
· Packing : Cylinder Screw

Plastic Cylinder

Model No.
SMUCP 100

· Used Non-Precious Alloy Casting
· Packing : Plastic Cylinder + Cylinder Screw
· Tightening Torque : 20Ncm

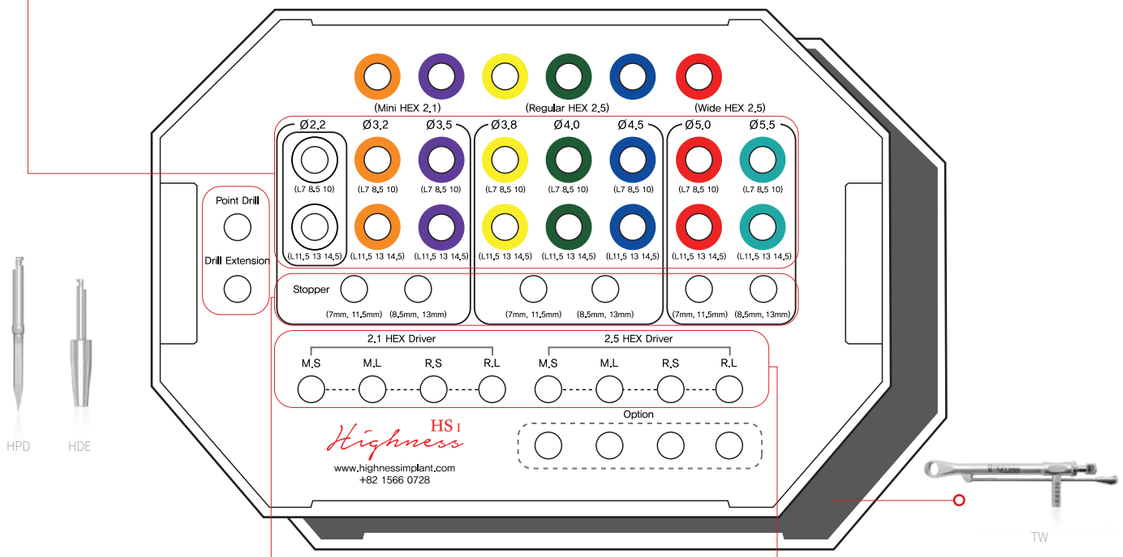
Temporary Cylinder

Model No.
SMUCT 100

· For provisional restorations
· Packing : Temporary Cylinder + Cylinder Screw
· Tightening Torque : 20Ncm

Highness
HS - I Kit

Drill



Stopper

7mm, 11.5mm

DSP 30M
DSP 30R
DSP 30W

8.5mm, 13mm

DSP 15M
DSP 15R
DSP 15W

2.1 HEX Driver

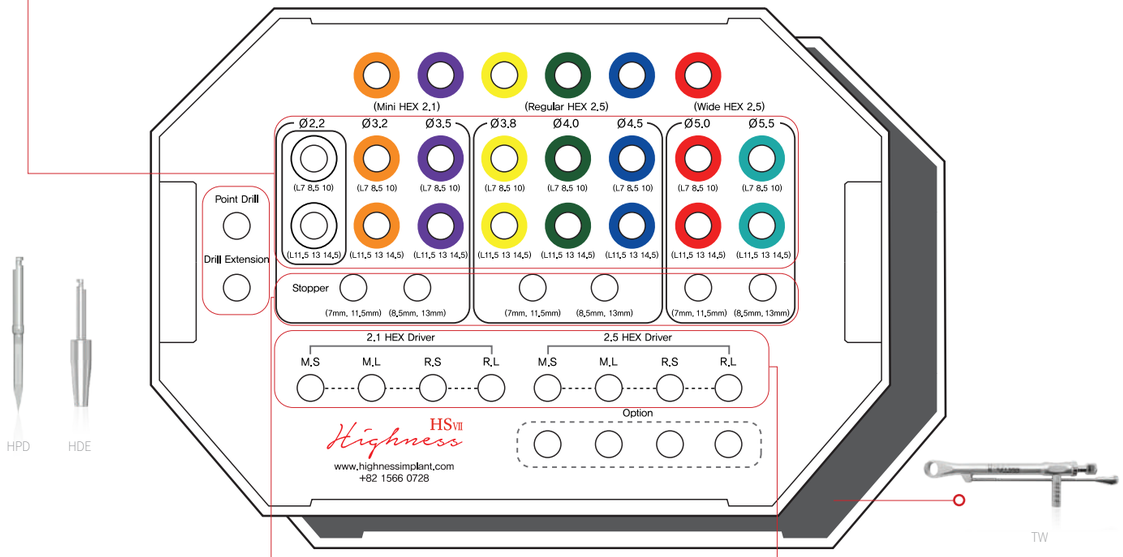
MFBD 21S
MFBD 21L
RFBD 21S
RFBD 21L

2.5 HEX Driver

MFBD 25S
MFBD 25L
RFBD 25S
RFBD 25L

Highness
HS-VII Kit

Drill



Stopper

7mm, 11.5mm

DSP 30M
DSP 30R
DSP 30W

8.5mm, 13mm

DSP 15M
DSP 15R
DSP 15W

2.1 HEX Driver

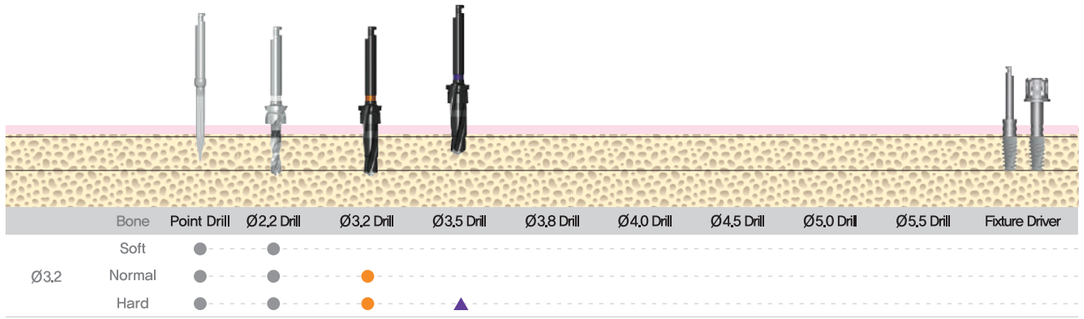
MFBD 21S
MFBD 21L
RFBD 21S
RFBD 21L

2.5 HEX Driver

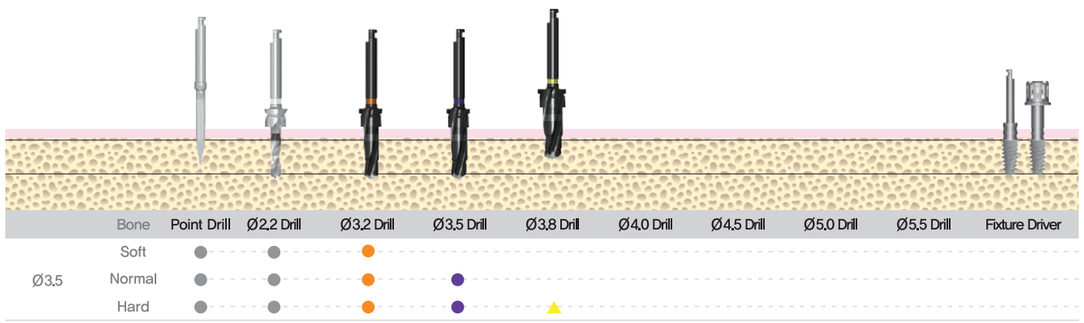
MFBD 21S
MFBD 21L
RFBD 25S
RFBD 25L

● Drilling
▲ Counter-sink up to 1/3 of the length of the drill

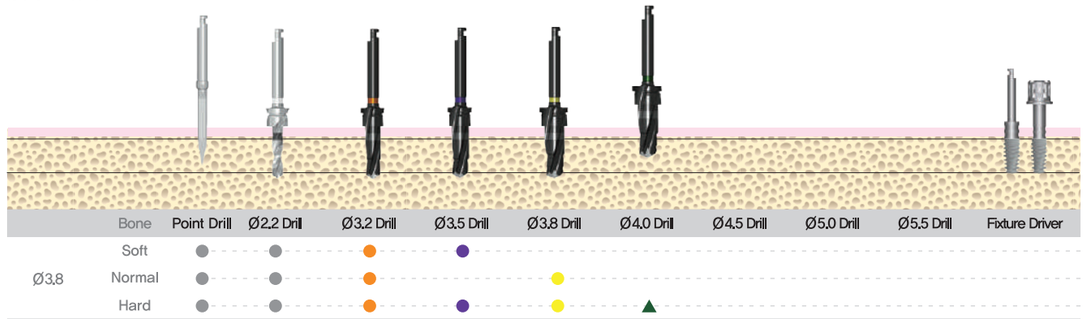
Ø3.2 Fixture



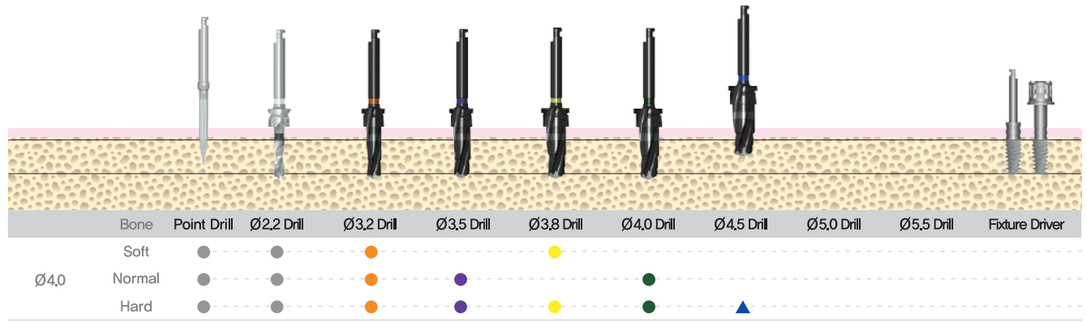
Ø3.5 Fixture



Ø3.8 Fixture

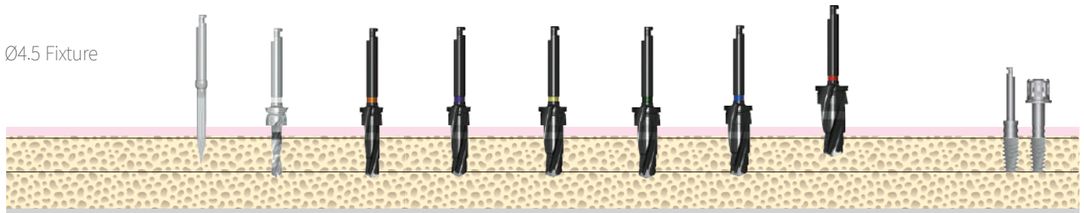


Ø4.0 Fixture



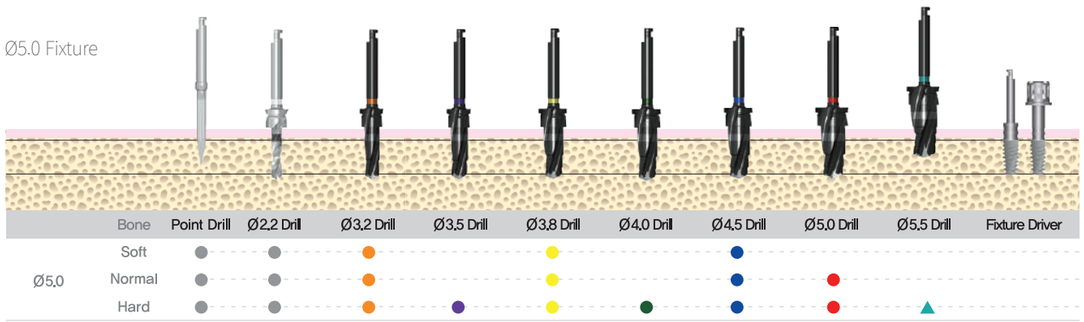
● Drilling
▲ Counter-sink up to 1/3 of the length of the drill

Ø4.5 Fixture



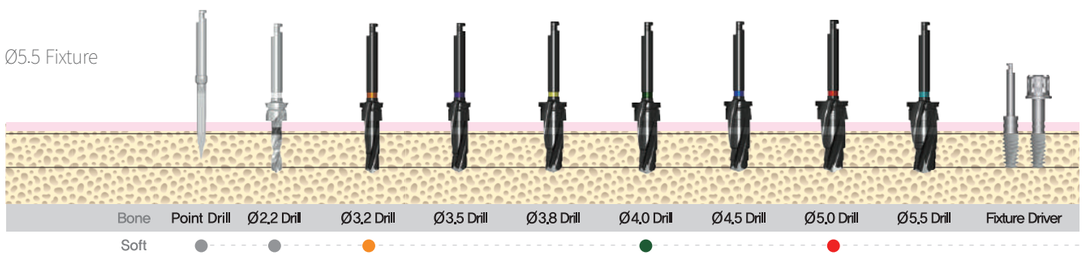
	Bone	Point Drill	Ø2.2 Drill	Ø3.2 Drill	Ø3.5 Drill	Ø3.8 Drill	Ø4.0 Drill	Ø4.5 Drill	Ø5.0 Drill	Ø5.5 Drill	Fixture Driver
Ø4,5	Soft	●	●	●		●	●				
	Normal	●	●	●		●		●			
	Hard	●	●	●	●	●	●	●	▲		

Ø5.0 Fixture



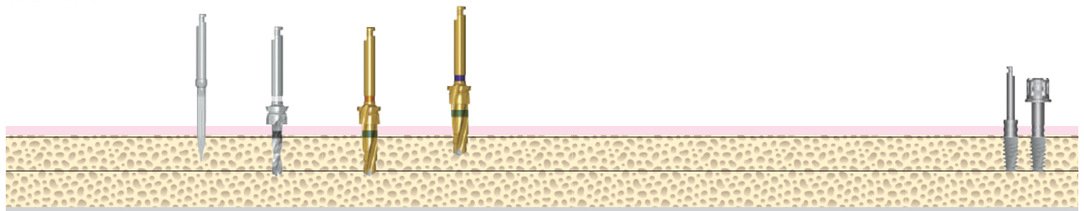
	Bone	Point Drill	Ø2.2 Drill	Ø3.2 Drill	Ø3.5 Drill	Ø3.8 Drill	Ø4.0 Drill	Ø4.5 Drill	Ø5.0 Drill	Ø5.5 Drill	Fixture Driver
Ø5,0	Soft	●	●	●		●		●			
	Normal	●	●	●		●		●	●		
	Hard	●	●	●	●	●	●	●	●	▲	

Ø5.5 Fixture



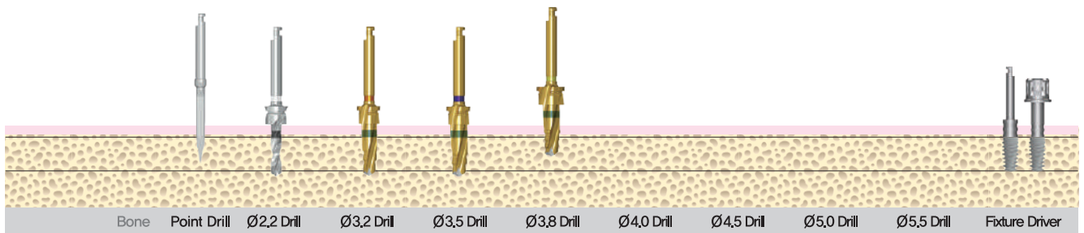
	Bone	Point Drill	Ø2.2 Drill	Ø3.2 Drill	Ø3.5 Drill	Ø3.8 Drill	Ø4.0 Drill	Ø4.5 Drill	Ø5.0 Drill	Ø5.5 Drill	Fixture Driver
Ø5,5	Soft	●	●	●			●		●		
	Normal	●	●	●		●		●		●	
	Hard	●	●	●	●	●	●	●	●	●	

Ø3.2 Fixture



	Bone	Point Drill	Ø2.2 Drill	Ø3.2 Drill	Ø3.5 Drill	Ø3.8 Drill	Ø4.0 Drill	Ø4.5 Drill	Ø5.0 Drill	Ø5.5 Drill	Fixture Driver
Ø3,2	Soft	●	●								
	Normal	●	●	●							
	Hard	●	●	●	▲						

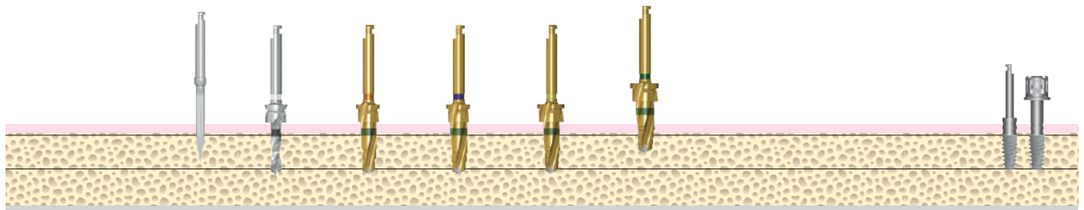
Ø3.5 Fixture



	Bone	Point Drill	Ø2.2 Drill	Ø3.2 Drill	Ø3.5 Drill	Ø3.8 Drill	Ø4.0 Drill	Ø4.5 Drill	Ø5.0 Drill	Ø5.5 Drill	Fixture Driver
Ø3,5	Soft	●	●	●							
	Normal	●	●	●	●						
	Hard	●	●	●	●	▲					

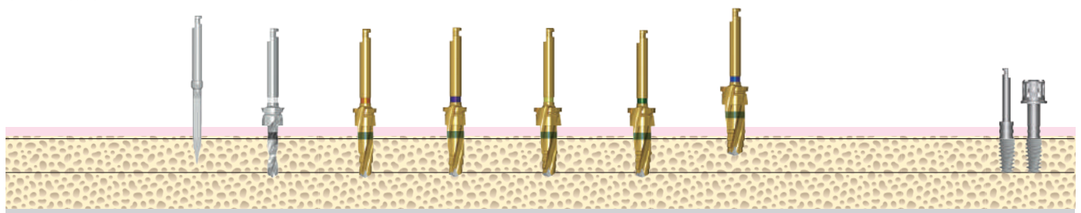
● Drilling
▲ Counter-sink up to 1/3 of the length of the drill

Ø3.8 Fixture



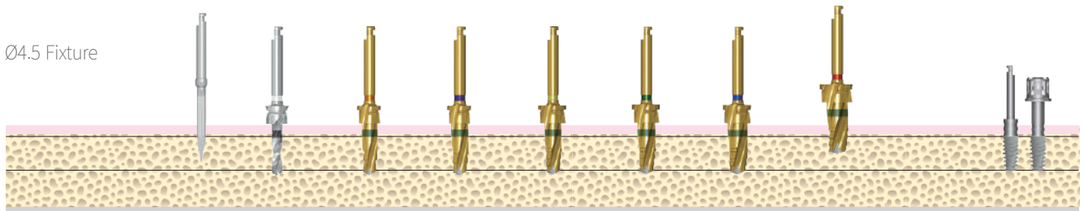
	Bone	Point Drill	Ø2.2 Drill	Ø3.2 Drill	Ø3.5 Drill	Ø3.8 Drill	Ø4.0 Drill	Ø4.5 Drill	Ø5.0 Drill	Ø5.5 Drill	Fixture Driver
Ø3.8	Soft	●	●	●	●						
	Normal	●	●	●		●					
	Hard	●	●	●	●	●	▲				

Ø4.0 Fixture



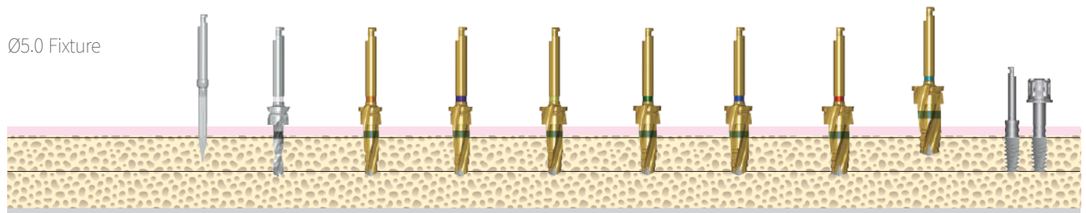
	Bone	Point Drill	Ø2.2 Drill	Ø3.2 Drill	Ø3.5 Drill	Ø3.8 Drill	Ø4.0 Drill	Ø4.5 Drill	Ø5.0 Drill	Ø5.5 Drill	Fixture Driver
Ø4.0	Soft	●	●	●		●					
	Normal	●	●	●	●		●				
	Hard	●	●	●	●	●	●	▲			

Ø4.5 Fixture



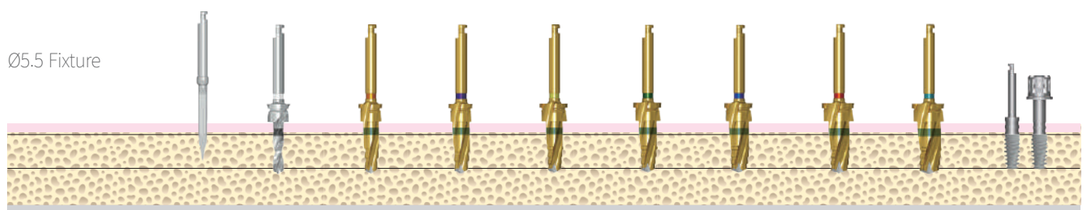
	Bone	Point Drill	Ø2.2 Drill	Ø3.2 Drill	Ø3.5 Drill	Ø3.8 Drill	Ø4.0 Drill	Ø4.5 Drill	Ø5.0 Drill	Ø5.5 Drill	Fixture Driver
Ø4.5	Soft	●	●	●		●	●				
	Normal	●	●	●		●		●			
	Hard	●	●	●	●	●	●	●	▲		

Ø5.0 Fixture



	Bone	Point Drill	Ø2.2 Drill	Ø3.2 Drill	Ø3.5 Drill	Ø3.8 Drill	Ø4.0 Drill	Ø4.5 Drill	Ø5.0 Drill	Ø5.5 Drill	Fixture Driver
Ø5.0	Soft	●	●	●		●		●			
	Normal	●	●	●		●		●	●		
	Hard	●	●	●	●	●	●	●	●	▲	

Ø5.5 Fixture



	Bone	Point Drill	Ø2.2 Drill	Ø3.2 Drill	Ø3.5 Drill	Ø3.8 Drill	Ø4.0 Drill	Ø4.5 Drill	Ø5.0 Drill	Ø5.5 Drill	Fixture Driver
Ø5.5	Soft	●	●	●			●		●		
	Normal	●	●	●		●		●		●	
	Hard	●	●	●	●	●	●	●	●	●	

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