

Genoss Company Profile Product Portfolio

ver.2023

COMPANY PROFILE

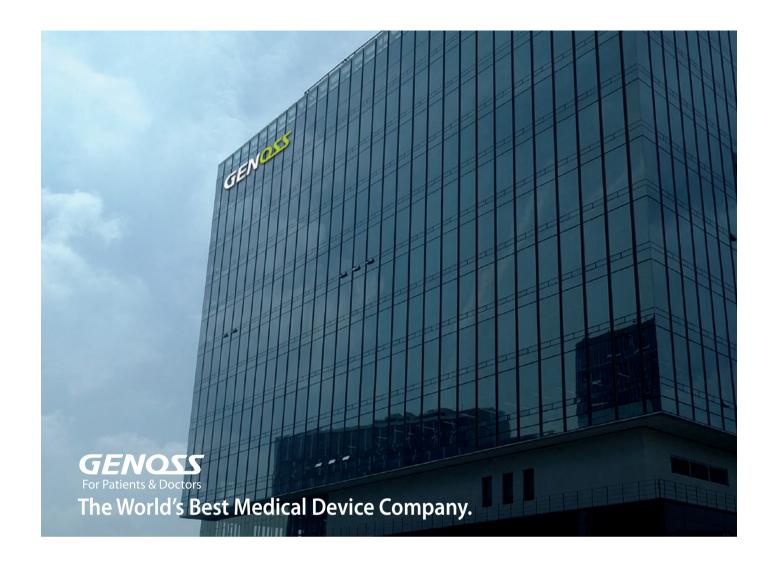






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About GENOSS

We promise our growth into the most enterprising company that stands in our global customers' shoes and values talents, technology and the environment.



Creating the best products and services



Contributing to the development of human society



Being a representative of Korean medical device companies

Values and Core Behaviors

Our vision is to be the world's best medical device company by creating the best products and services to contribute to the development of human society as a representative of Korean medical device companies

01 Right Path Management	02 Talent-first Policy	Q3 Aimed at World's Top
Q4 Creativity beyond Imitation	Q5 Glottalization with Customers	06 Creation of the fuure

Best Products and Services

Making Invests 30% of the annual revenue in R&D every year, GENOSS Co.,Ltd has pushed ahead with staffing itself with outstanding research professionals from around the world and developing the world's best products.

Contribution To Human Health Improvement

Saving as a contributor to human health improvement, GENOSS Co., Ltd. always strives to become the world's leading medical device manufacturer that provides the best quality products and services.

Aimed at Being A Global Leader in Medical Device Manufacturing

Every product manufactured by GENOSS Co.,Ltd. meets such high global standards as FDA and CE, which means their quality is reliable in the global market.

History 2016 ~ 2022

- Bright 3D Sugical Guide approved by MFDS in Korea
- MONALISA Body Filler approved in Peru
- The Trust approved in Vietnam
- The Trust approved by MFDS in Korea
- OSTEON III Collagen approved by NMPA in China
- OSTEON Xeno approved by MFDS in Korea
- Collagen Membrane-P approved in Indonesia
- OSTEON III approved by TFDA in Taiwan
- OSTEON III approved by CDSCO in India
- MONALISA Lidocaine Filler approved in Malaysia
- Bright Bond Universal approved in Malaysia
- Collagen Membrane 2 approved by the KFDA
- DES approved in Ecuador
- Introducer Sheath approved by MFDS in Korea

- Easy Check approved in Indonesia
- MONALISA Lidocaine Filler approved by CDSCO in India
- 12 Bright Flow (High / Low) approved in Singapore
- Bright Bond Universal approved in Singapore
- 11 Bright Impress Light / Medium / Heavy approved in Indonesia
- 11 Bright Impress Putty / Bite approved in Indonesia
- 11 MONALISA Lidocaine Filler approved in Argentina
- Easy Check approved by Malaysia
- 10 MONALISA Lidocaine Filler approved in Ecuador
- 10 OSTEON III approved by NMPA in China
- OSTEON III approved in Singapore
- Bright Primer approved in Indonesia
- Bright Universal Etchant approved in Indonesia
- Earloon Dilation system approved by CE in Europe
- Guide Extension Catheter approved by CE in Europe
- Bright Flow (High / Low) approved by CE in Europe
- Bright Bond Universal approved by CF in Europe
- Shine Liquid approved by CE in Europe
- Easy Check approved by CE in Europe Inflator B30/B40 approved by FDA in USA
- Paste Stain approved by MFDS in Korea OSTEON III Collagen approved in Indonesia
- Paste Stain approved in Indonesia
- 12 certified as an innovative medical device enterprises (MOHW)
- Easy Check approved by MFDS in Korea
- Bright MTA Capping / Endo approved in Malaysia
- rainbow Porcelain approved in Malaysia
- 12 rainbow Paste Stain approved in Malaysia
- 12 rainbow Block / Trans / Shade approved in Malaysia

- 12 rainbow Shine T / High Shine approved in Malaysia
- 11 Collagen Graft 2 approved in Indonesia
- 10 Bright Bond Universal approved by FDA in USA
- Bright Core approved by MFDS in Korea
- Multi Laver block approved by MEDS in Korea PTA Balloon Catheter approved by CE in Europe
- PICC Catheter approved by CE in Europe
- Inflator B30/B40 approved by NMPA in China
- **PTA Catheter** approved by TFDA in Taiwan DCB approved by MFDS in Korea
- Bright Universal Bond / Flowable Resin approved in Vietnam
- Bright Resin Comet / Impress / Ortho Bright approved in Vietnam
- rainbow LS Pressing & Block approved by TFDA in Taiwan
- Bright Impress Heavy approved by MFDS in Korea
- rainbow Paste Stain / Shine T approved by TFDA in Taiwan
- rainbow Brushing Liquid & Pen approved by TFDA in Taiwan
- MONALISA Lidocaine Filler approved by CE in Europe
- Guide Extension Catheter approved by MFDS in Korea
- PTCA / NC PTCA Ballon Catheter approved in UAE
- Collagen Membrane approved by TFDA in Taiwan
- Inflator B30/B40 approved in Paraguay
- Extractor Aspiration Catheter approved in Paraguay
- PTCA / NC PTCA Ballon Catheter approved in Paraguay
- DES approved in Paraguay
- DES approved in Thailand
- rainbow Shine T approved by NMPA in China
- 03 Bright Clear / Impress / Ortho Bright approved in Thailand
- 03 Bright Bond Universal / Resin Cement / Flow approved in Thailand
- Bright MTA Capping / Bright Endo approved in Thailand
- MONALISA Lidocaine Filler approved in Indonesia
- PTCA Ballon Catheter approved by TFDA in Taiwan
- Extractor Aspiration Catheter approved by TFDA in Taiwan
- Bright MTA Capping / Endo approved by CE in Europe
- rainbow Coloring Liquid / Porcelain approved by CE in Europe
- rainbow Brushing Liquid & Pen approved by CE in Europe
- rainbow Paste Stain / LS Pressing approved by CE in Europe
- rainbow Shine T / High Shine approved by CE in Europe
- rainbow Block / Trans / Shade approved by CE in Europe
- OSTEON III approved by CE in Europe
- Inflator B30/B40 approved in Pakistan
- Initiator Angiographic Catheter approved in Pakistan
- PTCA / NC PTCA Ballon Catheter approved in Pakistan
- **DES** approved in Pakistan
- OSTEON II Collagen approved in Indonesia
- Bright Toothbrush / Tooth Whitening approved in Indonesia
- NC PTCA Ballon Catheter approved by TFDA in Taiwan
- OSTEON III / OSTEON II Collagen approved in Uzbekistan
- OSTEON III Collagen approved in Uzbekistan
- 12 rainbow Shine Liquid approved by MFDS in Korea
- 12 OSTEON / OSTEON II / OSTEON III approved in Ukraine
- 12 OSTEON Collagen / OSTEON II Collagen approved in Ukraine
- 12 OSTEON III Collagen approved in Ukraine
- 12 Initiator Angiographic Catheter approved by TFDA in Taiwan

- MONALISA Lidocaine Filler approved by NMPA in China
- 12 rainbow Shine Liquid approved by MFDS in Korea
- 11 DES approved in Indonesia
- 11 PTCA / NC PTCA Balloon Catheter approved in Indonesia
- 11 Inflator B30/B40 approved in Indonesia
- 11 Bright tooth whitening approved by CE in Europe
- 10 Inflator B30/B40 approved by ANVISA in Brazil
- 10 PTA Balloon Catheter approved by ANVISA in Brazil
- 10 MONALISA Filler/Lidocaine Filler approved in Colombia Bright Fast(Light / Regular / Putty) approved by MFDS in Korea
- Bright Fast Bite approved by MFDS in Korea
- Bright Resin Cement / Bond Universal approved by MFDS in Korea
- Inflator B30/B40 approved in Malaysia
- Bright Clear approved by MFDS in Korea
- rainbow Hard Resin Block approved by MFDS in Korea
- LS Block approved by NMPA in China
- rainbow Shine-T approved in Singapore
- **DES** approved by CE in Europe
- Bright Tooth Whitening approved by MFDS in Korea
- MONALISA Filler approved in Malaysia
- Inflator B30/B40 approved in Japan
- Inflator B30/B40 approved in UAF
- Y-Connector Set approved in UAE
- MONALISA Filler approved in Indonesia
- **Bright Flow** approved by MFDS in Korea
- Dipping Solution approved by NMPA in China
- Brushing Liquid approved by NMPA in China Ortho Bright approved by MFDS in Korea
- Inflator B30/B40 approved in Thailand
- Inflator B30/B40 approved by CE in Europe
- Inflator B30/B40 with Y-Connector approved by CE in Europe MONALISA Filler / Lidocaine Filler approved in Ukraine

- Extractor Aspiration Catheter approved in Vietnam
- 12 PTCA / NC PTCA Ballon Catheter approved in Vietnam PTA Ballon Catheter approved in Vietnam
- DES / BMS approved in Vietnam
- 12 OSTEON II, OSTEON III approved in Malaysia
- 12 Collagen Membrane approved in Malaysia
- 11 OSTEON III approved in Indonesia
- 11 Eustachian Tube Catheter approved by MFDS in Korea 10 Bright MTA Capping approved by MFDS in Korea
- 10 TN Brush approved by NMPA in China
- OSTEON II approved in Indonesia
- rainbow Block / Shade / Trans / Shine Tapproved in Vietnam rainbow High Shine / LS / LS Pressing approved in Vietnam
- rainbow Porcelain / Paste Stain approved in Vietnam
- rainbow Brushing Liquid & Pen approved in Vietnam rainbow Dipping Solution approved in Vietnam
- Control Rock Syringe approved by CE in Europe
- TN Brush approved by CE in Europe
- Collagen Membrane / Membrane P approved in Vietnam
- Collagen Graft P approved in Vietnam
- 07 OSTEON II Collagen / III Collagen approved in Vietnam

- OSTEON II / OSTEON III approved in Vietnam
- PTCA / NC PTCA Ballon Catheter approved in Malaysia
- PTA Ballon Catheter approved in Malaysia
- Genoss Manifold approved by MFDS in Korea
- MONALISA Filler/ Lidocaine Filler approved in Vietnam
- MONALISA Lidocaine Filler approved in Mexico
- rainbow Porcelain approved by TFDA in Taiwan
- Bright MTA Sealer approved by MFDS in Korea OSTEON II Collagen approved in Singapore Inflator B30/B40 approved by MFDS in Korea

- 12 Orthopedic OSTEON 3 Collagen approved by MFDS in Korea
- 11 Monalisa Filler approved by CDSCO in India
- 11 OSTEON II approved by CDSCO in India
- TN Brush approved by FDA in USA
- PTA Balloon Catheter approved by CE in Europe Angiographic Catheter approved by CE in Europe
- Collagen Membrane approved by CE in Europe Control Syringe approved by MFDS in Korea
- rainbow Shine T approved by MFDS in Korea
- Inflator B40 approved by MFDS in Korea rainbow Paste Stain approved by CFDA in China
- rainbow Trans / Shade approved by TFDA in Taiwan

rainbow Resin approved by MFDS in Korea

- Designated as a promising small and medium-sized enterprises
- for export and next leading enterprises (MOTIE) 12 NC PTCA Balloon Catheter approved by MFDS in Korea
- 12 rainbow Trans approved by CFDA in China
- 11 rainbow Block approved by TFDA in Taiwan 10 rainbow Shine approved by FDA in USA
- **OSTEON III** approved by FDA in USA rainbow Shade approved by CFDA in China
- OSTEON III Collagen approved by MFDS in Korea rainbow LS Block approved by FDA in USA
- OSTEON III Collagen P approved by MFDS in Korea rainbow Paste Stain approved by FDA in USA
- Monalisa Lidocaine Filler approved by MFDS in Korea
- Nitinol Stent approved by MFDS in Korea rainbow LS Pressing approved by FDA in USA
- rainbow High Shine approved by FDA in USA **DES** approved by MFDS in Korea

History 2004~2015

- Y-Connector approved by MFDS in Korea
- 11 rainbow LS approved by CE in Europe
- 11 rainbow Shine Block approved by CE in Europe
- 11 Orthopedic OSTEON III approved by MFDS in Korea
- rainbow Shade approved by FDA in USA
- 10 rainbow Trans approved by FDA in USA
- Porcine Collagen Layer I approved by MFDS in Korea
- 10 Porcine Collagen Membrane approved by MFDS in Korea
- rainbow Porcelain approved by CFDA in China
- Porcine Collagen Layer II approved by MFDS in Korea
- rainbow Dipping Solution approved by MFDS in Korea
- rainbow LS approved by MFDS in Korea
- rainbow Shine approved by MFDS in Korea
- PTA Balloon Catheter approved by MFDS in Korea
- OSTEON II approved by FDA in USA
- OSTEON III approved by MFDS in Korea
- Monalisa Filler approved by CE in Europe
- Collagen Graft approved by MFDS in Korea
- OSTEON II Lumbar Cage approved by MFDS in Korea
- rainbow LS Pressing approved by CE in Europe
- Extractor Aspiration Catheter approved by MFDS in Korea

- 12 LS Pressing approved by MFDS in Korea
- 11 rainbow Dipping Solution approved by CE in Europe
- 11 rainbow Brushing Pen approved by CE in Europe
- 11 rainbow Brushing Liquid approved by CE in Europe
- 11 rainbow High Shine approved by CE in Europe
- rainbow Paste Stain approved by CE in Europe
- rainbow High Shine Shin approved by MFDS in Korea
- rainbow Brushing Liquid approved by MFDS in Korea
- rainbow Paste Stain approved by MFDS in Korea
- rainbow Brushing Pen approved by MFDS in Korea
- Collagen Membrane approved by CFDA in China
- OSTEON approved by TFDA in Taiwan
- 05 Monalisa Filler approved by MFDS in Korea04 Chitosan Dressing approved by MFDS in Korea
- 03 Ti Plate & Screw approved by CE in Europe
- Integral Cervical Cage approved by CE in Europe
- Bare Metal Coronary Stent approved by CE in Europe

- Orthopedic OSTEON II approved by CE in Europe
- 12 NC PTCA Balloon Catheter approved by CE in Europe
- 12 Lumbar Pedicle Screw approved by CE in Europe
- 10 Sinus Elevator approved by CE in Europe
- Polymer Guide approved by CE in Europe
- Ti Window Lumbar Cage approved by CE in Europe

Lumber Pedicle screw approved by MFDS in Korea

Ti window Lumbar cage approved by MFDS in Korea

- iCT Injection SE approved by MFDS in Korea
- Polymer Guide approved by MFDS in Korea

- 11 Cervical Plate approved by MFDS in Korea
- 11 Maxillofacial Screw approved by MFDS in Korea
- 10 Maxillofacial Plate approved by MFDS in Korea
- **Inflator** approved by CE in Europe
- NC PTCA Balloon Catheter approved by MFDS in Korea
- Inflator approved by MFDS in Korea
- OSTEON II Collagen approved by MFDS in Korea
- OSTEON II approved by CE in Europe
- Sinus Elevator approved by MFDS in Korea
- PTCA Balloon Catheter approved by CE in Europe
- HA Collagen Membrane approved by MFDS in Korea
- Bare Metal Coronary Stent approved by MFDS in Korea
- OSTEON II approved by FDA in USA

- 12 Orthopedic OSTEON II approved by MFDS in Korea
- OSTEON Collagen approved by MFDS in Korea
- Collagen Membrane approved by FDA in USA
- OSTEON II approved by MFDS in Korea
- PEEK OSTEON Lumbar approved by MFDS in Korea

- **PEEK OSTEON Cervical** approved by MFDS in Korea
- Collagen Membrane approved by MFDS in Korea

Acquired certificate of quality management standards for medical device manufacturers (KGMP)

- 12 Selected as a Small and Medium Innovative Enterprises (INNOBIZ)
- PTCA Balloon Catheter approved by MFDS in Korea

06 Organized Animal Ethics Committee at the Center

- 10 Certified as Venture Company
- 07 Moved to Gyeonggi R&DB Center
- OSTEON approved by CE in Europe
- Dental OSTEON Guide approved by MFDS in Korea

- 08 R&D Center is established
- Acquired ISO 9001, ISO 13485

OSTEON approved by MFDS in Korea

02 GENOSS is established

Business Area

Biomaterials-based R&D Comapny High risk products (Cardio, Spine, Bone) Leading group for Cardio/Bone



Vascular Intervention **Devices**

Stent, Catheter Medical Devices



Bone & Tissue Regeneration

Bone Graft Material Membrane



Aesthetic **Devices**

Filler



Spinal Devices

3d Cage, Screw Cervical/Lumber Cage

Dental Devices

rainbow Block System,



Dental Resin



CONFIDENCE

Supported by Scientific Evidence

GENOSS have closely collaborated with leading hospitals, research institutes and universities worldwide in the accumulation of compelling scientific data that provices validation for our products, which deliver exceptional standards of quality.

Vascular Intervention Devices / Bone & Tissue Regeneration

Strengths

R&D Center

Global Network

Product Portfolio

Research Analysis Services

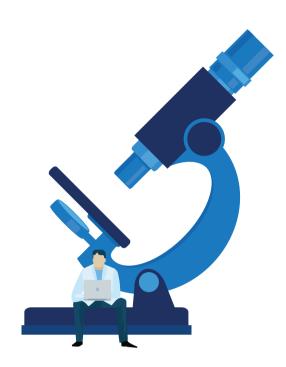


R&D Center

Innovation at GENOSS Continues to Create Real Value

GENOSS will keep focusing on developing medical instruments that fit to the globilization by relying on our willingness to face challenges and also become the world-leading company with innovative value creation through constant R&D on the bio industry.

Our vision is creating the best products and service for contributing to promotion of human health as a representative of Korean medical device companies. GENOSS will develop competitive bioproducts to make them strong players in the global market.



GENOSS R&D Process

- Market Survey
 Identification of customer's needs and demands
- Certification & Authorization
 Recognition from governmental regulatory affairs
- Validation & Verification

 Validation through collaboration with governments, universities and hospitals
- Design & Development of Advanced Products

 Determination and production of design concept and goal
- Product Evaluation in the Market
 Reflection of customer's complaints and suggestions



Global Network

GENOSS currently has its own corporate and branch office in the USA, China, Hong Kong, Dubai, Thailand, Russia, France, Germany, Turkey and India.

Information on the local distributors and corporate office of GENOSS can be found on our website www.genoss.com

















Vascular Intervention Devices
Spinal Devices
Aesthetic & Rejuvenation Devices
Hard & Soft Tissue Regeneration
Dental Lab System
Bright Dental Materials

Product

Vascular Intervention Devices

Coronary Intervention Device

GENOSS[™] DES (Sirolimus Eluting Coronary Stent System)
Osfit[™] (Sirolimus Eluting Coronary Stent System for Ostial and Bifurcation Lesion)
GENOSS[™] BMS (Co-Cr Bare Metal Coronary Stent System)
GENOSS[™] DCB (Paclitaxel Coated PTCA Balloon Catheter)
NC GENOSS[™] PTCA Balloon Catheter
GENOSS[™] PTCA Balloon Catheter
GENOSS[™] PTCA Balloon Catheter - CTO
Extractor[™] Aspiration Catheter

Initiator™ Angiographic Catheter
GENOSS™ Inflator B30 / B40
GENOSS™ Introducer sheath
GENOSS™ PTA Balloon Catheter
GENOSS™ 014 PTA Balloon Catheter
UNIS™ PICC (Peripherally Inserted Central Catheter
GENOSS™ Control Syringe

Scientific Evidence

Thesis

Five-year clinical outcomes of the first Korean-made sirolimus-eluting coronary stent with abluminal biodegradable polymer

Observational Study



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Five-year clinical outcomes of the first Koreanmade sirolimus-eluting coronary stent with abluminal biodegradable polymer

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Abstrac

This study evaluated the 5-year clinical outcomes of the Genoss DES, the first Korean-made sirolimus-eluting coronary stent with abiuminal biodegradable polymer.

We previously conducted the first-in-patient prospective, multicenter, randomized trial with a 1:1 ratio of patients using the Genoss DES and Promus Element stents; the angiographic and clinical outcomes of the Genoss DES stent were comparable to those of the Promus Element stent. The primary endpoint was major adverse cardiac events (MACE), which was a composite of death, myocardial infarction (MII), and target lesion revascularization (TLPI) at 5 years.

We enrolled 38 patients in the Genoss DES group and 39 in the Promus Element group. Thirty-eight patients (100%) from the Genoss DES group and 38 (97.4%) from the Promus Element group were followed up at 5 years. The rates of MACE (5.3% vs. 12.8%, P=.431), death (5.3% vs. 10.3%, P=.675), TLR (2.6% vs. 2.6%, P=1.000), and target vessel revascularization (TVR) (7.9% vs. 2.6%, P=.358) at 5 years did not differ significantly between the groups. No TLR or target vessel revascularization was reported from years 1 to 5 after the index procedure, and no MI or stent thrombosis occurred in either group during 5 years.

The blodegradable polymer Genoss DES and durable polymer Promus Element stents showed comparable low rates of MACE at the 5-year clinical follow-up.

Abbreviations: BP = biodegradable polymers, DAPT = dual antiplatelet therapy, DES = drug-eluting stent; DP = durable polymer, MACE = major adverse cardiac events, MI = myocardial infarction, ST = stent thromboss, TLF = target lesion failure, TLR = target lesion revascularization, TVR = target vessel revascularization.

Keywords: coronary artery disease, drug-eluting stents, Sirolimus

ditor; Leonardo Roever.

K-WS and H-MY equally contributed to this work.
The authors recort no conflicts of interest.

The datasets generated during and/or analyzed during the present study are available from the corresponding author on reasonable request.

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1. Introduction

Percutaneous coronary intervention with a drug-eluting stent (DES) is an established standard treatment for flow-limiting coronary artery disease as the rates of restenosis and adverse clinical events associated with these stents are lower than those with bare-metal stents. ^[1,2] However, there were some safety concerns associated with first-generation DESs, such as late and very late stent thrombosis (ST). ^[3,4] From the point of view of the stent characteristics, ST could be associated with delayed endothelization caused by the eluting drugs and inflammation or a delayed hypersensitivity reaction due to the polymers ^[3+9] Therefore, numerous efforts have been made to improve the stent design including thinner stent struts, a biocompatible or biodegradable polymer coating, and the use of new antiproliferative drugs. ^[10,11] Compared to the outcomes of the first-generation DESs, the second-generation DESs have shown improved long-term clinical outcomes. ^[12–1,6]

The Genoss DES (Genoss Company Limited, Suwon, Korea) is the first siroliums-eluting cobalt-chromium coronary stent with abluminal biodegradable polymers (BP) made in Korea. The thickness of the Genoss DES stent strut is 70 µm, and the polymers are fully resorbable within 9 months. The Genoss DES stent was found to be noninferior to the Promus Element stent (Boston Scientific, Natick, MA) with respect to late lumen loss at

1



Angiographic and IVUS findings (9-month follow up)

	Genoss DES (n=38)	B Company (n=39)	P value
In-Stent Late Lumen Loss (mm)	0.11±0.25	0.16±0.43	0.67
In-Segment Late Lumen Loss (mm)	0.11±0.26	0.15±0.43	0.56
IVUS Lumen CSA (mm²)	0.69±1.44	0.59±0.81	0.70
IVUS Stent CSA (mm²)	0.10±0.70	0.26±0.42	0.25
EEM (external elastic membrane)	-0.24±0.79	0.49±1.32	0.006

Korean Circ J. 2017 Nov;47(6):898-906

1 year clinical outcome of Genoss DES prospective registry (n=622)

Variables	Value
Follow-up duration	365 (343-365)
Device-oriented composite outcome	4 (0.6)
Cardiovascular death	1 (0.2)
Target vessel myocardial infarction	1 (0.2)
Target lesion revascularization	3 (0.5)
Patient-oriented composite outcome	24 (3.9)
Any death	4 (0.6)
Any myocardial infarction	4 (0.6)
Any revascularization	19 (3.1)
Target vessel revascularization	5 (0.8)
Definite stent thrombosis	3 (0.5)
Definite and probable stent thrombosis	4 (0.6)

Values are median (interquartile range) or number (%). Event-free survival rate was estimated based on the unadjusted Kaplan-Meier method.

Korean Circ J. 2020 Apr;50(4):317-327

Osfit™ (Sirolimus Eluting Coronary Stent System for Ostial and Bifurcation Lesion)

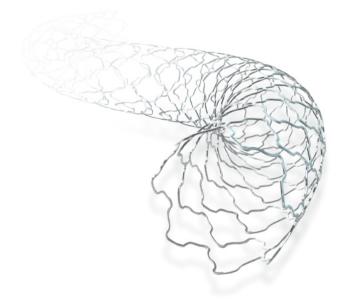
- Stent delivery system optimized for ostial and bifurcation lesion.
- Secure operator convenience with simple stent implantation procedures.
- Accurate stent positioning reduces procedure time.



GENOSS™ BMS (Co-Cr Bare Metal Coronary Stent System)

- 70µm of Co-Cr strut thickness
- Excellent radial force with optimal thickness
- Open-cell design offering high flexibility

Strut Design



GENOSS™ DCB (Paclitaxel Coated PTCA Balloon Catheter)

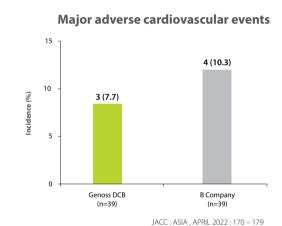
- Crystalline Paclitaxel of 3µg/mm² coating with shellac
- Homogeneous coating with 10µm in thickness
- Advanced deliverability of catheter due to lower profile

Serial Quantitative Coronary Angiographic Results (6-month follow up)

	Genoss DCB (n=29) Shellac + Vitamin E Based DCB	B Company (n=31) Iopromide-Based DCB	P value
In-Stent Late Lumen Loss (mm)	0.15±0.43	0.26±0.36	0.299
In-Segment Late Lumen Loss (mm)	0.15±0.43	0.26±0.36	0.201

	Genoss DCB (n=39)	B Company (n=39)	
Major adverse cardiovascular events (%)	3 (7.7)	4 (10.3)	

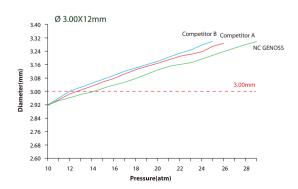
In-Segment Late Lumen Loss O.15 O.24 Genoss DCB (n=29) B Company (n=31)



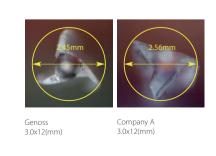
NC GENOSS™ PTCA Balloon Catheter

- Excellent dimensional stability at normal pressure
- High rated burst pressure
- Outstanding non-compliant and re-foldable balloon

Compliance Profile



Re-folding profile

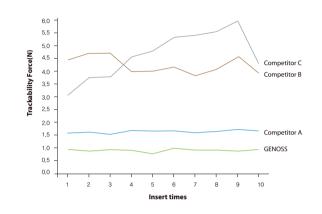


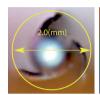
GENOSS™ PTCA Balloon Catheter

- Great pushability and trackability with PTFE coated hypotube
- High crossability with ultra-thin profile
- Specially engineered tri-wrapped balloon for excellent re-wrapping

Trackability

Re-folding profile







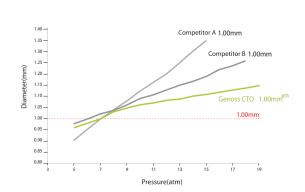
Genoss 2.5x15(mm)

Com 2.5x1

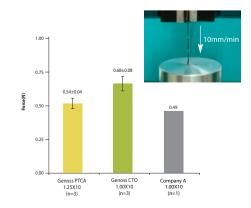
GENOSS™ PTCA Balloon Catheter - CTO

- Better compression force of the end tip than others
- Great trackability with soft tapered tip
- Smallest balloon diameter (Ø 1.0mm) for CTO

Compliance profile



Compression force of the end tip



Extractor™ Aspiration Catheter

- Constant, high-performance aspiration with large lumen
- Excellent pushability and easy navigation with hydrophilic coating

8 Fr

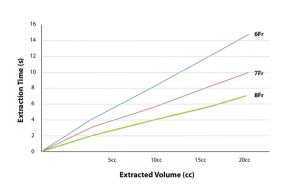
180µm filter basket for high-speed blood filtering

Extraction Area

23



Aspiration Capacity



Lock Syringe Ass'y: 1ea Aspiration Catheter Ass'y: 1ea Lock Syringe : 1ea Filter Basket 180µm : 2ea

GENOSS™ Y-Connector

- Smooth introductioin and easy removal of medical devices
- Dual valve technology minimizing fluid loss
- Optimized angle of side arm for ease of use





Accessories

19G/20G Introducer needle (optional size) Torque device

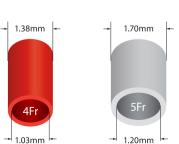


Initiator™ Angiographic Catheter

- Excellent curve retention for accurate catheter placement
- Soft atraumatic tip to minimize vessel trauma
- Instant 1:1 torque transmission by braiding technology

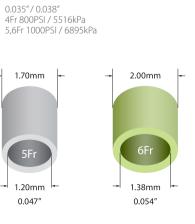


0.041"



0.047"



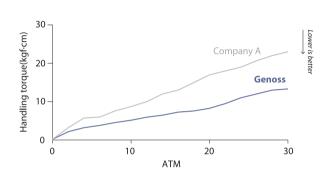




GENOSS Inflator B30

- Easy fixing and releasing with the button type
- Ergonomic design for comfortable handling
- 20cc barrel allows rapid and easy deflation

Easy inflation

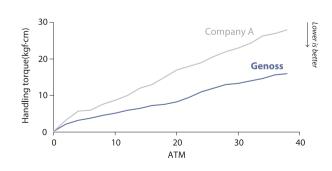




GENOSS Inflator B40

- Easy fixing and releasing with the button type
- Ergonomic design for comfortable handling
- 30cc barrel allows rapid and easy deflation

Easy inflation





GENOSS™ Introducer Sheath

- Smooth and reliable vascular access
- Flexible sheath designed to reduce kinking
- Multiple accessory option

Accessories

Needle(2-Type)



Guide Wire(3-Type)





Hydrophilic

Provides excellent skin entry performance reduce the risk of vessel spasm

Smooth transition

Smooth and reliable vascular access

Compatibility Guide wire

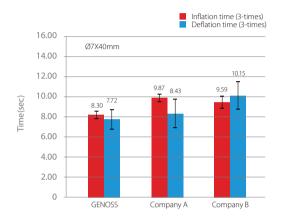
A seamless transition of guidewire-to-dilator



GENOSS™ PTA Balloon Catheter

- Just-fit end tip to the 0.035" guidewire
- Great trackability with soft tapered tip
- Rapid deflation by large lumen diameter

In/Deflation time



Just-fit end tip



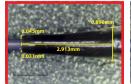
GENOSS™ 014 PTA Balloon Catheter

- Balloon tapers by 0.5mm to respect the arterial anatomy
- Great conformability with blended balloon material
- Long balloon (up to 250mm) are suited for treatment of extremely diffuse lesions

Long balloon length

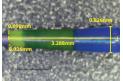
Genoss 014 PTA balloon catheter		250mm
Company A	220mm	
		_
Company B	210mm	

Just-fit end tip





12.97±1.26 MPa



11.44±1.84 MPa

Company A

Company B 9.27±0.93 MPa

UNIS™ PICC (Peripherally Inserted Central Catheter)

- Large lumen Diameter
- Reverse Tapered Design
- Easily identification

Main Shaft









Accessories

Single-lumen

1. Peel away sheath

- · Patented locking system
- · Smooth transition



2. Guide wire

- · Gold plated coating wire · Marker for length identification

Gold coated



Marker



Echogenic(Dimpling)

3. Introducer needle

GENOSS™ Control Syringe

- Solid structure maintains stability under pressure
- Rotating luer provides minimizing the handling
- Locking plunger system allows to maintain vacuum status

Characteristics



Rotating Luer Offering flexibility and reliability in luer connection



Lock Option Maintaining vacuum or negative pressure



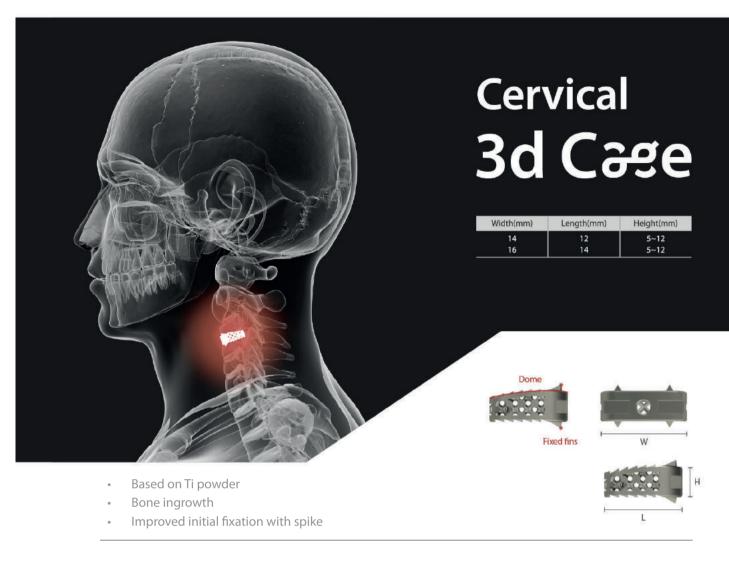
Product

Spinal Devices

Spinal Devices

GENOSS[™] Lumbar Pedicle Screw

GENOSS™ Lumbar 3d Cage GENOSS™ Lumbar 3d Cage - TLIF GENOSS™ Cervical 3d Cage



Stabilizing & Fixed Fins

Upper and lower fins improve primary stability

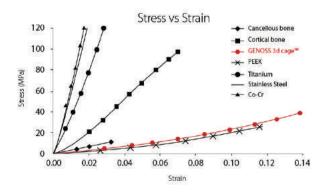
Anatomical Shape (Dome & Lordosis)

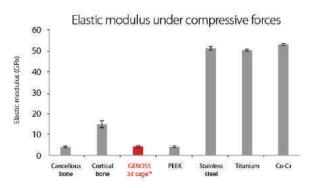
It was designed in the most similar shape to Disc through Lordosis and Dome shape.

By increasing the contact area with the endplate, stress dispersion and fixing force are improved to prevent subsidence.

No Subsidence

No subsidence due to similar elastic modulus to cancellous bone GENOSS 3d Cage $^{\text{TM}}$ Cervical demonstrated better resistance to subsidence than diVerent materials.







GENOSS™ Lumbar Pedicle Screw

- Enhanced osseointegration performance using S.L.A. surface treatment
- Double thread for faster screw insertion
- 50° polyaxial screw variable-angle



GENOSS™ Lumbar 3d Cage

- Based on Ti powder, no infection
- Bone ingrowth
- Patient specific lumbar cage



GENOSS™ Lumbar 3d Cage - TLIF

- Anatomical shape
- Easy insertion with slim shape
- Anterior lordosis of lumbar



GENOSS™ Cervical 3d Cage

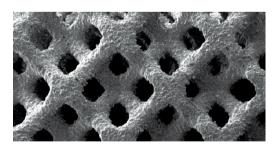
- Based on Ti powder
- Bone ingrowth
- Improved initial fixation with spike



- Consists of ~88% porosity and a diamond pore size of 250μm~1,200μm
- Suitable elastic modulus avoids stress shielding and bone resorption
- Produced with Selective Laser Melting[SLM] technique

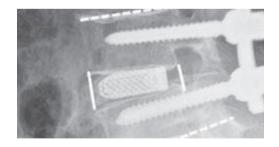
Structure for Fusion

GENOSS 3d Cage[™] consists of ~88% porosity and a diamond pore size of 250µm~1,200µm.



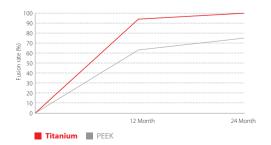
Enhanced Visibility

Implant contours visible under x-ray, fusion area clearly visible due to implant porosity



Comparison of Fusion Rate (Titanium VS PEEK)

Improvement of clinical outcomes was comparable between the two groups, based on the criteria using computed tomography, 96% in the Titanium group and 64% in the PEEK group showed fusion at 12 month. At 24 months fusion rate in the Titanium group was increased to 100%, while PEEK group showed 76% of fusion rate



Product

Aesthetic & Rejuvenation

Aesthetic

MONALISA - Soft
MONALISA - Mild
MONALISA - Hard
MONALISA Lidocaine - Soft
MONALISA Lidocaine - Mild
MONALISA Lidocaine - Hard
MONALISA Lidocaine - Ultra
MONALISA B
MONALISA PN 20
MONALISA PN 50

MONALISA SKIN
MONALISA Injector
MONALISA L
Bright Essence
Bright Healing PDRN Masl
Bright Dermal roller

Hyaluronic Acid Dermal Filler



MONALISA provides natural-looking results with superior long-lasting volume effect.



Product	SOFT	MILD	HARD	
REF	HAF10S27T	HAF10M27T	HAF10H27T	
Appearance	No ir	mpurities, transparent and colorles	s gel	
Composition		Cross-linked hyaluronic acid		
Concentration		20 mg/mL		
Particle Size	200 μm 400 μm 600		600 µm	
Syringe Volume	>1.0 mL			
Recommended Indication	Superficial dermis	Superficial dermis / Middle layer of subcutis	Middle to deep layer of subcutis	
Needle Size*	30G TW (2ea)	27G TW (2ea)	27G TW (2ea)	
Storage	2~25℃			

* Needle size is subject to change without notice.

Hyaluronic Acid Dermal Filler with Lidocaine

MONAL SA Sidguine

MONALISA Lidocaine with anesthetic reduces pain during and after procedure.



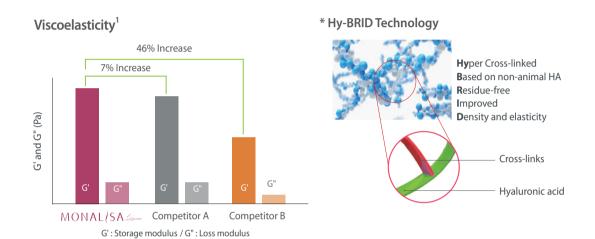
Product	SOFT	MILD	HARD	ULTRA
REF	MPF10S	MPF10M	MPF10H	MPF10U
Appearance		No impurities, transpa	rent and colorless gel	
Composition		Cross-linked h	yaluronic acid	
Concentration		24 m	g/mL	
Lidocaine		0.3	%	
Particle Size	200 μm	400 μm	600 μm	900 μm
Syringe Volume		> 1.0 mL		
Recommended Indication	Superficial dermis	Superficial dermis / Middle layer of subcutis	Middle to deep layer of subcutis	Deep to very deep layer of subcutis
Needle Size*	30G TW (2ea)	27G TW (2ea)	25G TW , 27G TW	25G TW , 27G TW
Storage	2~25°C			

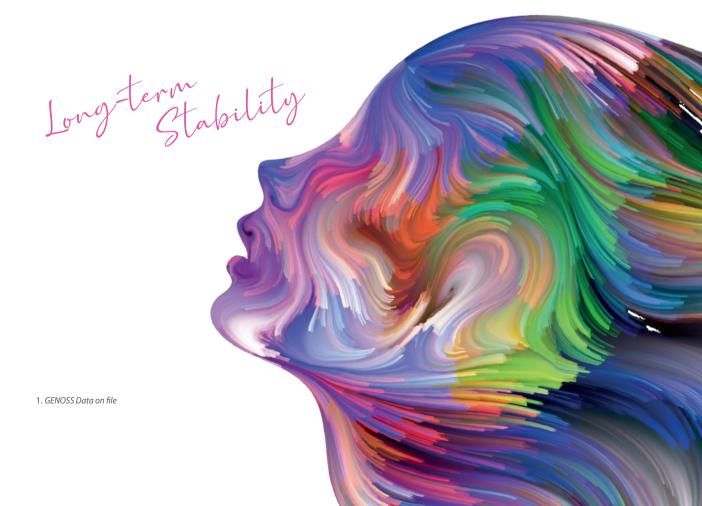
^{*} Needle size is subject to change without notice.

Hy-BRID Technology

Better Volume Effect and Retention

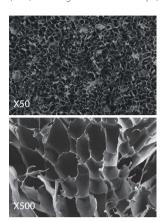
Our **Hy-BRID** Technology creates highly dense and uniform particles of hyaluronic acid, thereby enabling MONOLISA to have optimal viscoelasticity and long-lasting volume.





Microstructure¹

(SEM, Scanning electron microscope)



In vivo biodegradation study²

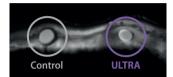
(Rat dermis injection, 51w MRI data)

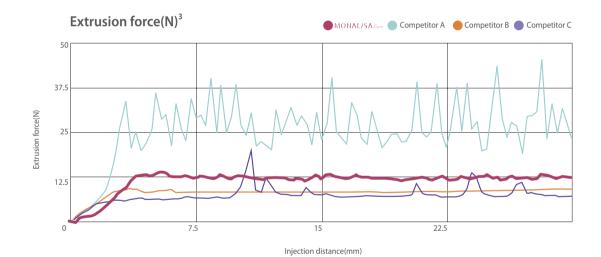
Axial view





Coronal view





Comparison of extrusion force / irregularity⁴

	Competitor A	Competitor C	MONAL/SA Silguise
Extrusion force	25.6N	7.4N	11.5N
Degree of irregularity*	26.5%	21.5%	7.2%

^{*:} Degree of irregularity indicates that particle size of cross-linked hyaluronic acid distributes evenly in the product. Higher degrees requires more injection power in operation procedures.











Concentration	24 mg/mL
Lidocaine	0.3 %
Volume	10.0 mL
Particle Size	900 μm
Endotoxin	< 0.5 EU/mL

MONAL/SA PN

Polynucleotide Filler with Lidocaine

- High purity DNA extracted from salmon
- Stimulation of collagen production
- Improvement of skin elasticity and wrinkles
- Skin rejuvenation



Polynucleotide	MONALISA PN 20	20 mg/mL
Concentration	MONALISA PN 50	50 mg/mL
Lidocaine		0.3 %
Volume		1.0 mL

MONAL/SA SK/N

Hyaluronic Acid Dermal Filler

- Highly pure 100% hyaluronic acid
- Non-cross linked gel
- Skin rejuvenation



Bright ESSENCE

Intensive skin care solution

- Contains sodium DNA 5,000 ppm for nutrition and 7 types of hyaluronates for moisturizing
- 6 kinds of natural ingredients for skin care



MONAL/SA Injector

Portable dermal injector

- Applicable to 1cc & 3cc syringes
- Precise control of injection volume and length (volume 10-25uL, needle length 0-1.5mm)



BrightHealing PDRN Mask

Intensive skin care solution

- Sodium DNA 5,000 ppm
- Skin refreshing and moisturizing
- Suitable for all skin types



MONAL/SA Z

Absorbable PDO thread lift

- White (undyed) polydioxanone thread
- Molding cog and mono
- Various types of length and needle



BrightDerma Roller

Intensive skin care solution

- Improves skin absorption of active ingredients
- Helps skin to become firmer
- Reduces the appearance of fine wrinkles



Product

Hard & Soft Tissue Regeneration

Bone Graft Materials

OSTEON[™] Xeno OSTEON[™] 3 OSTEON[™] 3 Collagen OSTEON[™] II

Collagen Materials

Collagen Membrane 2 Collagen Membrane Collagen Membrane-P Collagen Graft 2

Scientific Evidence

OSTEON 3 – Clinical study (Oh et al., 2019, Int J Oral Maxillofac Implants)

A comparative Study with Biphasic Calcium Phosphate to Deproteinized Bovine Bone in Maxillary Sinus Augmentation: A Prospective Randomized and Controlled Clinical Trial

Ji-Su Oh DDS, PhD¹/Yo-Seob Seo DDS, PhD²/ Gyeong-Je Lee DDS, PhD³/Jae-Seek You DDS, PhD⁴/ Su-Gwan Kim DDS, PhD⁵

Experimental Materials

Abstract

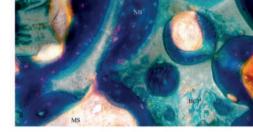
Purpose: The purpose of this study was to evaluate a new graft material, biphasic calcium phosphate, composed of 60% hydroxyapatite and 40% β -Tricalcium phosphate and deproteinized bovine bone mineral, which is established as a predictable graft material for maxillary sinus augmentation.

Materials and methods: Maxillary sinus augme ntation was performed with different bone materials. Bone biopsies were performed on tissue harvested from the future implant bed using a trephine bur at 6 months after maxillary sinus augmentation. Resonance frequency analysis was performed immediately and at 6 months after the implant placement. Microcomputed tomography and histomorphometric analysis were performed in all patients.

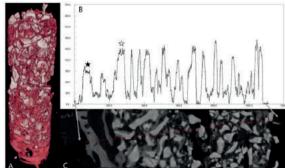
Results: Fifty-six patients (60 sinuses) were included in the study. At 6 months postoperative, 31 biopsies were performed on tissues harvested from the calcium phosphate, and 29 biopsies on tissues from the bovine bone grafts. There was no implant failure during the 21-month mean follow-up period. The overall implant stability quotient values were higher than 60, and gradually increased for 6 months. Higher new bone volume fraction and new bone surface density were observed in the calcium phosphate group compared with the bovine bone group. In contrast, residual bone graft volume in the bovine bone group was higher than that in the calcium phosphate group. Nevertheless, there was no significant difference between groups in the microcomputed tomography and histomorphometric parameters.

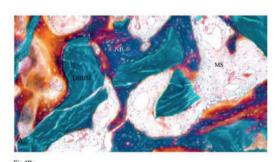
Conclusion: Within the study's limitations, both graft materials (OSTEON 3 and Bio-Oss) demonstrated similar biocompatibility and osteoconductivity in the maxillary sinus augmentation.





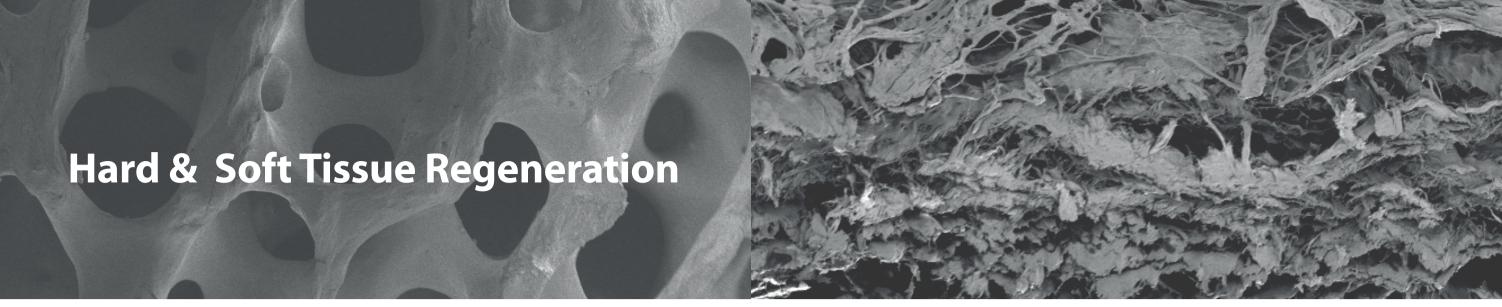
Fig





THE REAL PROPERTY.

42



OSTEONTM Xeno : Microstructure Collagen Membrane2 : Microstructure

Bone Graft Materials



OSTEON™ Xeno

- Natural bovine bone substitute similar to human bone
- Highly interconnected macro/micro-pores
- Complete removal of organic substances
- Easy manipulation and excellent wettability



OSTEON™ 3

- Biphasic calcium phosphate composed of 60% HA and 40% ß-TCP
- Higher porosity & interconnectivity compared to OSTEON and OSTEON II
- Macro/Micro porous structure, Porosity: ~80%



OSTEON™ 3 Collagen

- Composite of OSTEON 3 granules and type I collagen
- Moldable into various defect shapes after wetting
- Collagen is absorbed within a few weeks after grafting



OSTEON™ II

- More resorbable due to higher ß-TCP content (HA:ß-TCP=30:70)
- Easy manipulation & excellent wettability
- Pore size: 250µm, Porosity: >70%

Collagen Materials



Collagen Membrane 2

- Highly pure Type I Collagen
- Resorbable barrier membrane lasting for 6 months
- Multi-layered structure
- Easy manipulation (soft, tear-resistant, fast wetting)



Collagen Membrane

- Highly pure Type I Collagen
- Resorbable barrier membrane lasting for 6 months
- Easy manipulation (Hard type)
- Dual-sided usage



Collagen Membrane-P

- Highly pure Type I Collagen
- Resorbable barrier membrane lasting for 4 months
- Dual-sided usage



Collagen Graft 2

- Highly pure type I Collagen
- Bilayer structure: (dense & porous)
- Promotion of soft tissue healing

Product

rainbow[™] Block System

rainbow™ Block System

Block System
rainbow™ Multi-Layer Block
rainbow™ Shine-T Block
rainbow™ High shine Block
rainbow™ Shade Block

Coloring & Brushing Material

rainbow™ Paste Stain se rainbow™ Shine Liguid

Block System

- Zirconia (ZrO2) blocks dental prosthesis with various levels of strength and transparency
- Simpler and easier selection of a block depending on different types of coloring and staining
- Applicable to general prosthetic cases of inlay, onlay, crown, and bridge

Indication

Case	Singe Crown		Bridge(3-unit-Bridge)		Bridge
	Anterior Crown	Posterior Crown	Anterior Bridge	Posterior Bridge	(≥4-unit-Bridge)
Block			600		6000
Multi-Layer	•	•	•	0	
High Shine	•	0			
Shine-T	0	•	0	•	0
Shade				•	•

• recommend O Possible

rainbow[™]Multi-Layer Block

- Thickness: 14T/16T/18T/22T
- Shade: A1/A2/A3/A3.5
- Same incisal layer thickness(4.2mm)
- Highly esthetic materialization with easy and simple handling



rainbow[™] Shine T

- Optimal color expression with simple brushing
- Pen type provides convenience in reproducing color of incisal surface
- 16 body can be expressed by brushing only



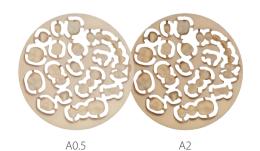
rainbow™ High Shine Block

- Transparency is an important criterion when it comes to choosing
- the CAD/CAM block for anterior prosthesis.
- The main advantage of the rainbow $^{\mathtt{m}}$ High Shine is its transparency,
- making it a favorable material for achieving anterior esthetics.



rainbow[™] Shade Block

- Original color of the blocks eliminates the need for additional dipping
- Uniform color tone is preserved even after occlusal articulation
- Entire "Vita A" shades are expressible with simplified constitution of A0.5 and A2 blocks



Coloring & Brushing Material

rainbow[™] Paste Stain SE

- Paste-like staining materials for zirconia (ZrO2) prosthesis
- Fine particles enable thin and uniform coating
- Available in 16 most commonly used shades



rainbow™ Shine Liquid

- Optimal color expression with simple brushing
- Pen type provides convenience in reproducing color of incisal surface
- 16 body can be expressed by brushing only





Solution Type

Pen Type

Product

Bright Dental Materials

Resin materials

Universal Bond Flowable Resin Bulk Fill Flowable Etchant Resin Cement Zirconia Primer Orthodontic Adhesive Impression Materials MTA Sealer MTA Capping

3D Printing materials

Model Surgical Guide

Dental Health Care

SONIQ electric toothbrush Bright tooth whitening Bright toothpaste

Resin materials

Universal Bond

Single bottle, light-cured dental adhesive

- Strong and durable bonding
- The best bonding performance with Bright resin composites
- Low film thickness for a better fit of final restorations



Flowable Resin

Light-cured flowable composite

- Excellent flow control at your choice (Low & High)
- Superior flexural strength with high radiopacity
- 9 shades for aesthetic restorations



Bulk Fill Flowable

Light-cured flowable composite

- Low polymerization shrinkage
- Self-leveling for gap-free adaptation
- Class I~V restorations
- Applicable up to 4mm filling



Etchant

Dentin/Enamel etching gel

- Ideal for selective-etch and / or total-etch
- Distinct blue color for precise etching and washing
- Producing micro-morphological patterns on etched surfaces



Resin Cement

Self-adhesive resin cement

- Dual cured, self-adhesive cement with excellent bond strengths
- Low film thickness for a better fit of final restorations
- Soft rubber gripped, ratchet-locking syringe dispenser for easy of use



Zirconia Primer

Primer for indirect restoration

- Improve bond strengths between cement and restorations (Zirconia, Lithium disilicate, Metal)
- The best bonding performance with Bright Resin Cement
- Easy and efficient handling



Orthodontic Adhesive

Light cure orthodontic adhesive

- No priming step to reduce chair time
- Stable and high bonding strength to enamel and brackets
- Proper viscosity for bracket placement



Impression Materials

Hydrophilic vinyl polysiloxane

- Normal setting type (Light, Medium, Heavy, Putty, Bite)
- Highly accurate and void-free impression
- Excellent mechanical properties





MTA Sealer

Root canal sealing material

- Premixed calcium silicate paste
- Antibacterial effect
- Impervious sealing of root canal



MTA Capping

Pulp capping material

- Light-curable, resin-modified calcium silicate
- Excellent sealing for pulp protection
- Sustained calcium release for dentin bridge formation
- High radiopacity for easy distinction



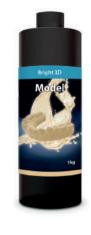
3D Printing materials

Model

53

3D dental model

- Natural beige color
- Highly accurate and reliable results
- Superior dispersion stability



Surgical Guide

Guide template for implant surgery

- Good transparency
- Provide highly precise drilling position
- Excellent flexural strength and fracture resistance



Dental Health Care

SONIQ

Electric toothbrush

- FDA-approved micro toothbrush
- Reduce bad breath by 23%
- Reduce periodontal disease by 17%



Bright tooth whitening

Tooth whitening kit with LED light

- Fast tooth whitening effect by strong blue light
- Mouthpiece and charging cable can be attached using magnets
- Improved portability due to internal battery



Bright toothpaste

- None of the 14 harmful ingredients added
- Contains healthy nature-derived ingredients
- Four premium oral cares



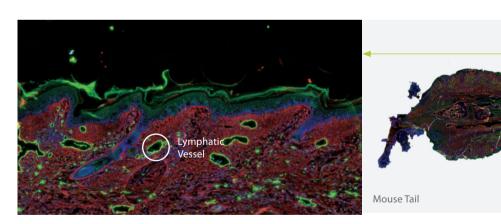
Research Analysis Service

Direct request on online

Payment

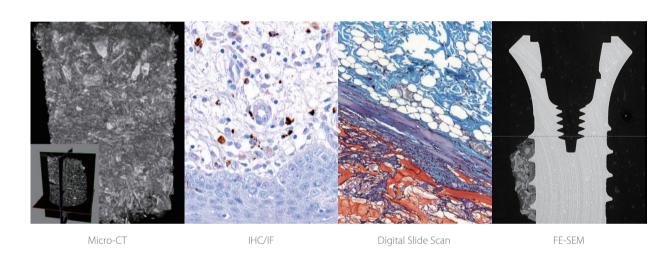
Genoss Co., Ltd is the best provider of contract research and analysis in a variety of fields, which include micro-CT analysis, histology, slide scanning and FE-SEM

GENOSS will help you get better results with great impact in a wide range of research & analysis areas. With various in vivo and in vitro test experiences, we can offer the highest level of histopathological results from biopsy related to bone & implants, non-invasive micro-CT analysis, visualization of tissue-specific proteins, and etc.



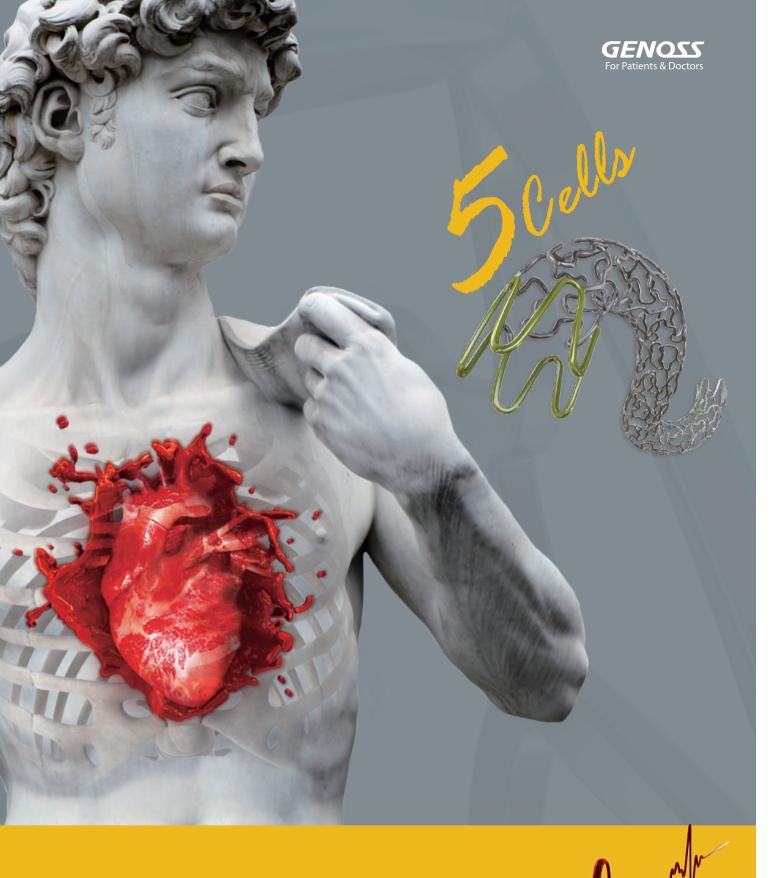
Immunofluorescence Microscopy

Service Area



Analysis Process





Various Channel

Homepage SNS/Youtube



Anytime & Anywhere

Homepage



Genoss Homepage

www.genoss.com www.genoss.co.kr



Vascular

http://www.genossvascular.com



MonalisaFiller

http://monolisafiller.com



Bright Store

http://brightstore.co.kr

SNS



Monalisa.filler / Bright_lifecare



https://www.youtube.com/channel/ UCVLBG2reZ20D9QyPNnCijXQ

GENOSSTM DES

Sirolimus Eluting Coronary Stent System

- Improved deliverability by lower profile
- Lower drug content due to area reduction
- Improved trackability performance by increased flexibility

Q GENOSS

You can check our products on our homepage and various channels.