

COMPANY PROFILE



CONTENTS

01

COMPANY

OVERVIEW
HISTORY
ORGANIZATION CHART
CORE COMPETENCY

02

BUSINESS

SPINE IMPLANT
BIO
DISTRIBUTION
MAIN CUSTOMER

03

PRODUCT

FIXATION SCREW
3D PRINTED LIF Cage
BIO CONSUMABLE
PATENT

04

PLAN

SALES STATUS
R&D PLAN

01 COMPANY

OVERVIEW

HISTORY

ORGANIZATION CHART

CORE COMPETENCY

MANTIZ is

Founded in 2015, under the slogan of 'Above the Standard', we continue to invest and grow in R&D, introducing differentiated spinal disease-related products based on creative and innovative ideas. Furthermore, we continue to innovate and grow continuously by expanding our scope to the development of bio-products using MANTIZ's unique new technology. With the aging population and the increasing life expectancy, the medical device market will have to grow faster and faster. Amid this growth, MANTIZ is doing its best to ensure that products developed and manufactured independently in Korea, not overseas technologies or products, can lead the global medical device market.

01 COMPANY

OVERVIEW



Business Area

Manufacturing and selling
medical devices

Address

423-15, Hyeoksin-daero, Dong-gu,
Daegu, Republic of Korea

Date of Founded

2015.06.01

CEO

EJ KIM, SIMON LEE

Employee

42

Sales revenue

\$523,000
(₩ 6,590 million)

Capital

\$ 43,000
(₩ 540 million)

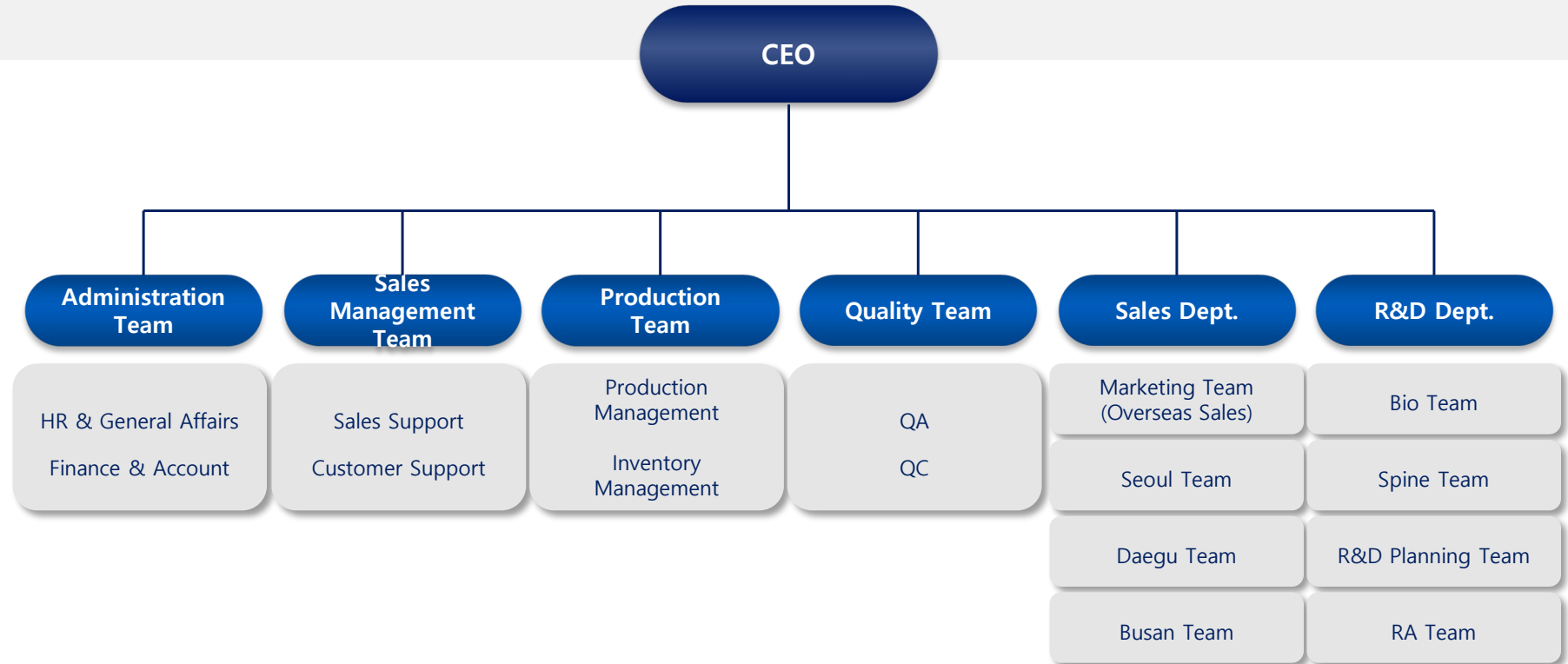
Homepage

www.mantiz.net

01 COMPANY

ORGANIZATION CHART

Total 36



01 COMPANY

HISTORY



01 COMPANY

CORE COMPETENCY

"ABOVE THE STANDARD"



proprietary technology

- Low cost, high performance bio Tech
- 3D Printing Tech
- Innovative Medical Instrument Design



Market Trend Analysis

- Focus on product development to meet global trends
- Seek user convenience
- Active convergence of user needs



Self-developed and manufactured

- High Quality, Low Cost
- Excellent price competitiveness
- Quick user feedback response

02 BUSINESS

SPINE IMPLANT

BIO

DISTRIBUTION

MAIN CUSTOMER

02 BUSINESS

SPINE IMPLANT

Development and manufacture of spinal implants

Despite being a latecomer in the spinal implant market, Mentiz Co., Ltd. developed the Multiple Lead Pedicle Screw for the first time in Korea, and is manufacturing and selling differentiated products such as minimally invasive spinal surgery equipment and Cage (intervertebral fusion implant) using 3D printing technology. In particular, 3D Printed Cage has built its own overall production line of 3D Printing, including two 3D printer equipment, to secure unique productivity and price competitiveness.

Spine Implant Line-up

QUATTRO_Pedicle Screw System

GADGET_Minimal Invasive Surgery System

PANTHER_3D Printed Lumbar Cage

PETRA_3D Printed Cervical Cage



02 BUSINESS

BIO



Bio-Development and Manufacturing

We are developing a variety of high-performance bio products, starting with STANPAD, a hemostatic gauze developed using Kaolin, which is well known as a hemostatic substance. In the hemostatic product market where only a few high-performance and high-cost products are recognized, we independently developed the composition ratio with the biocompatible gelatin to confirm its equivalence with the world's No. 1 product performance, and we are about to launch a hemostatic product that innovatively lowers manufacturing costs. In addition, animal medical devices and dermatology bio products are being prepared one after another to meet the current market trend.

bio Line-up

STANPAD_Hemostatic Gauze

STANFOAM, STANSEAL, SCATTER_Absorbable Hemostatic Agent

STANCARE_Wound Healing Hydrogel

VETIFOAM, VETISEAL_ Hemostatic Agent for PET

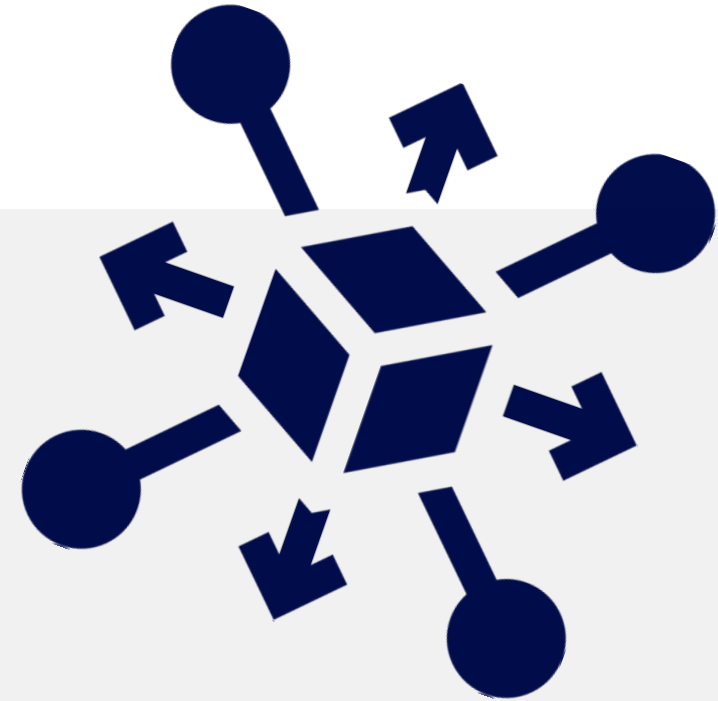
VETIPAD_ Hemostatic Gauze for PET

02 BUSINESS

DISTRIBUTION

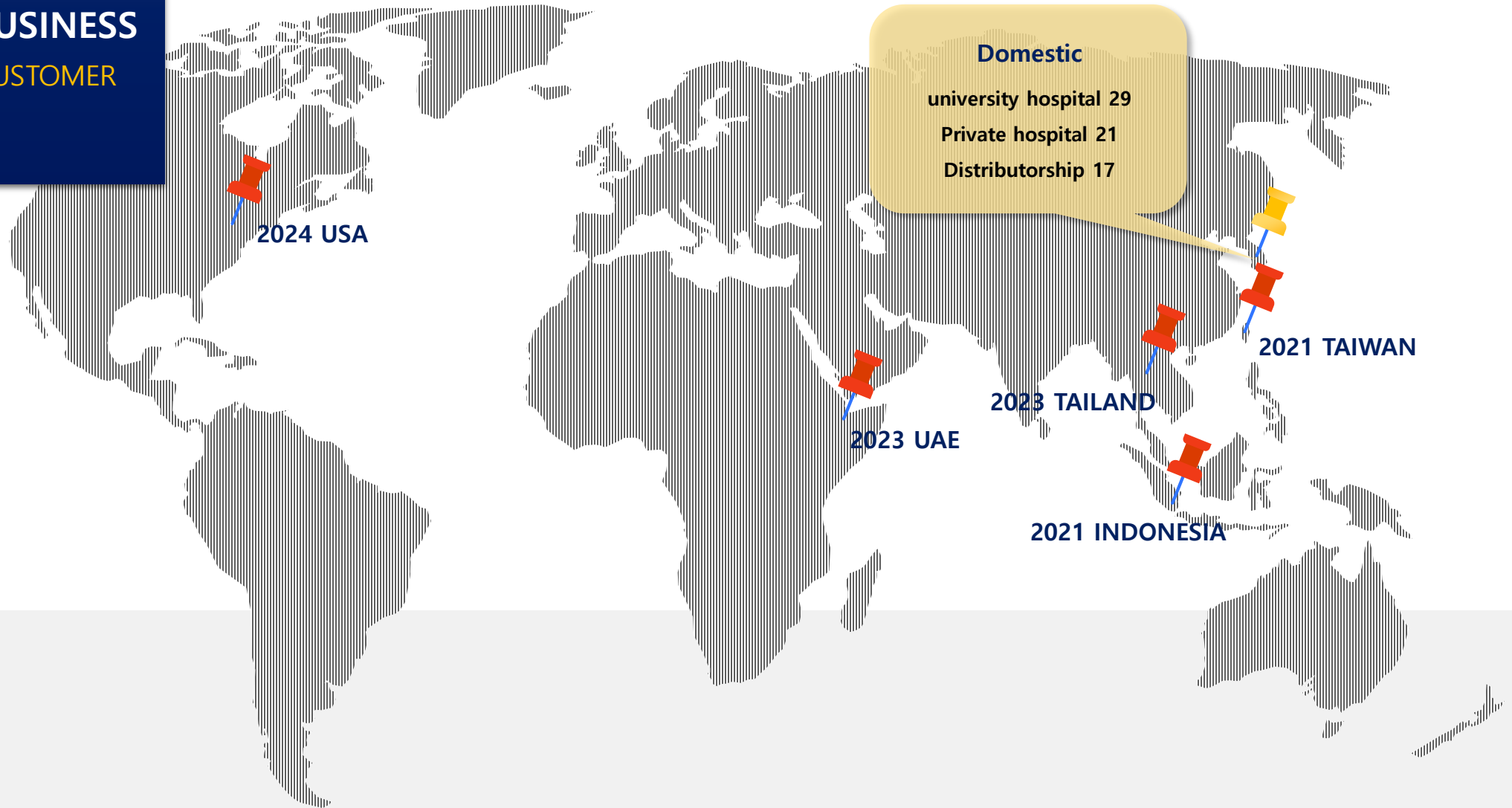
Distribution of medical devices

Mentiz Co., Ltd. started out as the Gyungnam Area distributor of Johnson & Johnson spine products at the time of its establishment and has a diverse sales network to date. Based on this, we are introducing and selling not only our products but also excellent domestic and foreign products that understand customer needs, and we are solidifying our position as a medical device distributor that always does our best for customer satisfaction.



02 BUSINESS

MAIN CUSTOMER



03 PRODUCT

PEDICLE SCREW SYSTEM(Pedicle Fixation Screw)

3D PRINTED CAGE(Interbody Fusion Cage)

BIO PRODUCTS

PATENT

03 PRODUCT

PEDICLE SCREW SYSTEM (Pedicule Fixation Screw)

QUATTRO
spinal system

PATENTED

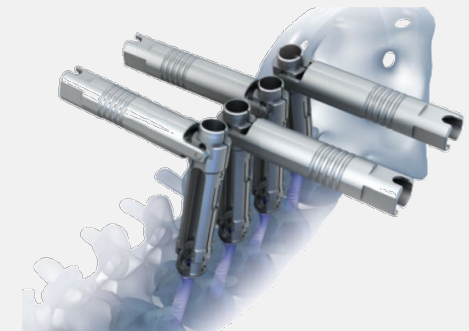


Pedicule Screw Screws inserted into the body during spinal fusion surgery

- **Multiple Lead Pedicle Screw Design** (Different types of threads are distributed according to changes in bone structure)
- Upgraded it and Developed 'Top to Tip **Multiple Quad Lead Pedicle Screw**' (Patent)
- **Doubles** screw insertion speed, **doubles fixing force** when inserted

QUATTRO
GADGETTM
MIS PERCUTANEOUS SCREW SYSTEM

PATENTED



MIS Instrument spinal fusion surgery with minimal incision

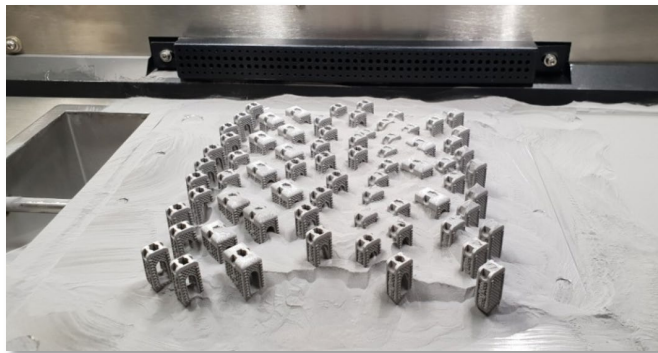
- Small incision in the surgical site and minimal muscle incision significantly reduce surgery time, blood loss, and postoperative pain, reducing hospitalization and recovery time for patients and increasing efficiency and convenience for medical staff
- Third-party MIS Screw Systems cause interference between instruments when the rod is inserted, but GADGET uses the joint movement feature of the Screw Extender to facilitate rod insertion without interference between instruments, increasing user convenience

03 PRODUCT

PATENTED

3D PRINTED CAGE (Interbody Fusion Cage)

During spinal fusion surgery,
Inserted between the vertebral body
with the aim of supporting it
and well bone fusion

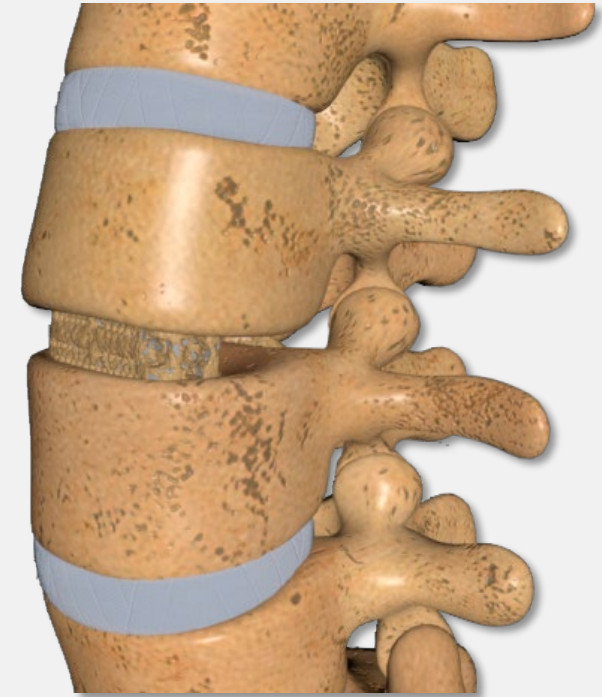
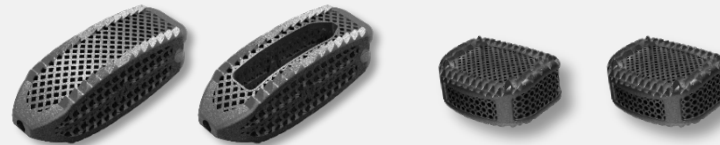


Porous Mesh Structure of 3D Printed Cage

- Surface properties with excellent cell adhesion function
- Optimized Porous Mesh Structure for Bone Fusion Maximization
- By utilizing ring frame structure with 3D unit structure, human bone-like elastic force is realized

3D PRINTED
PANTHER[™]
Lumbar Interbody Fusion Cage System

3D PRINTED
PETRA[™]
Cervical Interbody Fusion Cage System

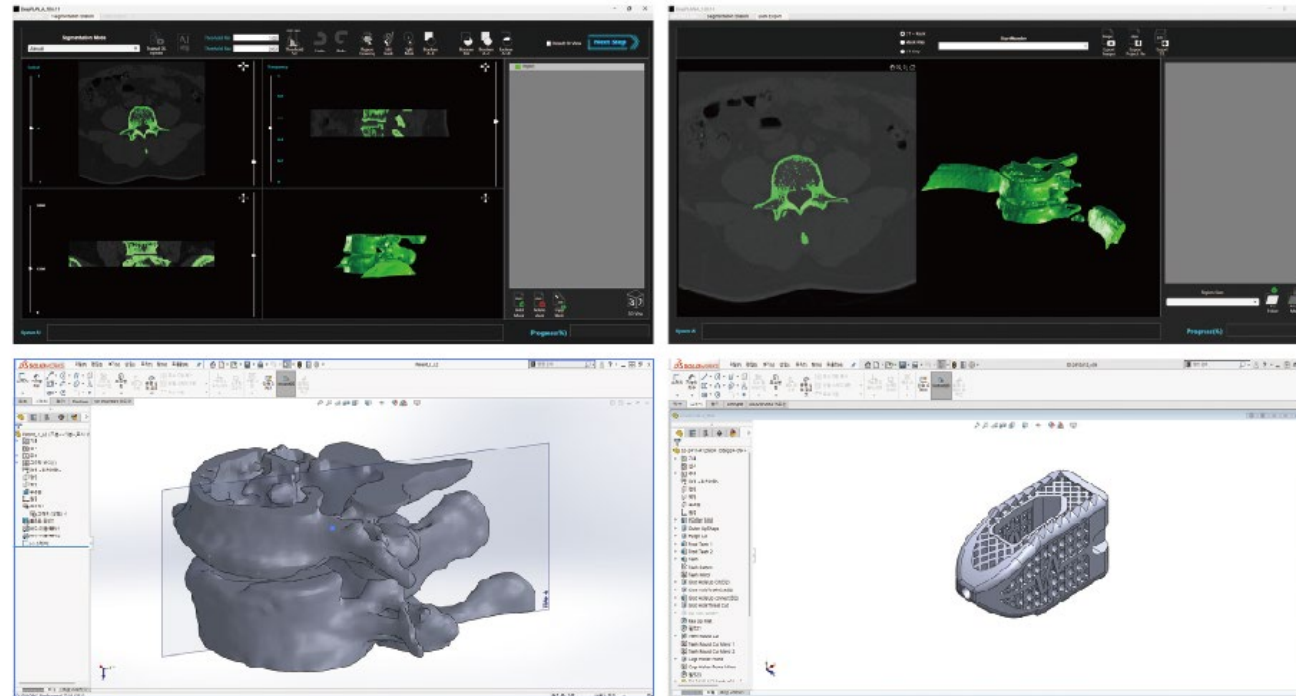


3D PRINTING

03 PRODUCT

CUSFIT SERIES

Interbody fusion implant custom-made to fit the patient's body size using CT data.



- 1 Scanning CT Data
- 2 Convert the CT data using Deep Plan which is the Digital Transformation program
- 3 Design 3D print cage in 3D modeling program

Personalized

03 PRODUCT

BIO Products

STANPAD™

X - Ray detectable hemostatic gauze to control bleeding

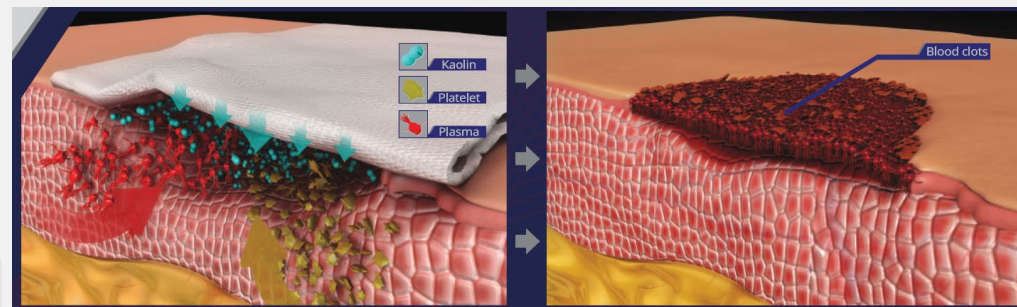


It is a local hemostatic dressing in which high concentrations of Kaolin are specially coated on gauze and completely dried, and has a rapid hemostatic effect on the bleeding area and is used as a substitute for general gauze during surgery

* Kaolin?

Discovered 60 years ago, it is a naturally produced white local hemostatic substance. It is used as a skin beauty because of its high water absorption and high adhesion, and used as a hemostatic agent for medical purposes

[Mechanism of Kaolin]



HEMOSTASIS

03 주요제품

BIO Products

ABSORBABLE DRESSING FOR WOUND

A bio-derived absorbable wound dressing that aids in hemostasis and promotes rapid wound healing by optimizing the composition ratio of Kaolin (a natural mineral) and gelatin for enhanced hemostatic action.

Absorbable / Easy to Use / Various sizes

Foam type



Foam type- Strip



Foam type- Block



ABSORBABLE DRESSING FOR WOUND

03 PRODUCT

BIO Products

WOUND HEALING HYDROGEL

Natural bio-friendly adhesive transparent material to prevent skin protection, skin regeneration, wound healing, and scarring by applying it to wound with less exudate after surgery and skin with damaged skin barrier

Strengthening skin barriers / Regeneration / Regeneration of skin / Regeneration of skin

For Multiple Purpose



small cuts



after surgery



after laser



burns



dry skin



DERMATOLOGY

03 PRODUCT

BIO Products

HEMOSTATIC AGENT for PET



Development of kaolin (natural mineral kaolin) and gelatin composition ratio optimized for hemostasis as the pet market expands, Development of hemostatic products for high-performance, low-cost absorbers

- + Stop Bleeding Fast
- + Absorbable
- + Easy to Use
- + Various type

Gel type



Foam type



Foam type - Block



Hemostatic Gauze



VETERINARY

03 PRODUCT PATENT

KOREA Register 7, Apply 5 / Register 3, Apply 1

	특허명	출원/등록일	출원번호/등록번호	비고
1	흡수성 체내용 지혈조성물의 제조방법 및 그에 따라 제조된 지혈 조성물	20.12.08/21.05.28	10-2020-0170826/10-2260452	등록(국내)
1-2	METHOD FOR PREPARING ABSORBABLE HAEMOSTATIC COMPOSITION FOR BODY AND HAEMOSTATIC COMPOSITION PREPARED THEREBY	20.12.08/21.06.06	10-2020-0170826	등록(미국)
2	확장형 추간체 유합보형재	20.11.20	10-2020-0156178	출원(국내)
3	골 형성에 영향을 미치는 4-헥실레조르시놀을 접목한 골 이식재	19.05.29	10-2019-0062864/10-2056463	등록(국내)
4	케이지 및 케이지 홀더	19.03.05	10-2019-0025030	출원(국내)
5	척추 스크류가 꺾어지는 각도를 크게 형성할 수 있는 척추 스크류 어셈블리	18.04.25	10-2018-0048045	출원(국내)
6	최소 침습 수술용 척추 스크류 홀더	18.08.31/18.11.30	10-2018-0103258/10-1925927	등록(국내)
7	4줄 나사산을 구비하는 척추경 나사못	17.01.23/17.12.22	10-2017-0010185/10-1813525	등록(국내)
8	삼차원 프린터로 출력된 단위 구조를 가진 척추 임플란트	17.06.29/17.12.01	10-2017-0082465/10-1806140	등록(국내)
9	다중 로드를 구비하는 척추 스크류 어셈블리	16.12.29/18.08.13	10-2016-0182202/10-1889820	등록(국내)
10	국소지혈용 드레싱 제조 방법 및 이에 의해 제조된 국소지혈용 드레싱	16.07.12/17.10.25	10-2016-0088092/10-1791893	등록(국내)
11	BONE GRAFT MATERIAL WITH 4-HEXYLRESORCINOL THAT AFFECTS BONE FORMATION	20.05.27	16/884,300	출원(미국)
12	SPINAL IMPLANT WITH UNIT STRUCTURE PRINTED 3D PRINTER	18.05.18/20.03.03	15/983.707/10,575,965	등록(미국)
13	PEDICLE SCREW WITH QUADRUPLE SCREW THREAD	18.01.22/19.12.24	15/868,882/10,512,494	등록(미국)
14	플레이트에 체결 가능한 케이지 홀더를 이용하여 케이지의 이탈을 방지하는 장치	22.08.19	1-2016-058803-9	출원(국내)
15	협동로봇 기반의 흡수성 체내용 지혈용품 생산 자동화 시스템 및 생산 자동화 방법	23.10.31	10-2023-0147385	출원(국내)

04 PLAN

SALES STATUS

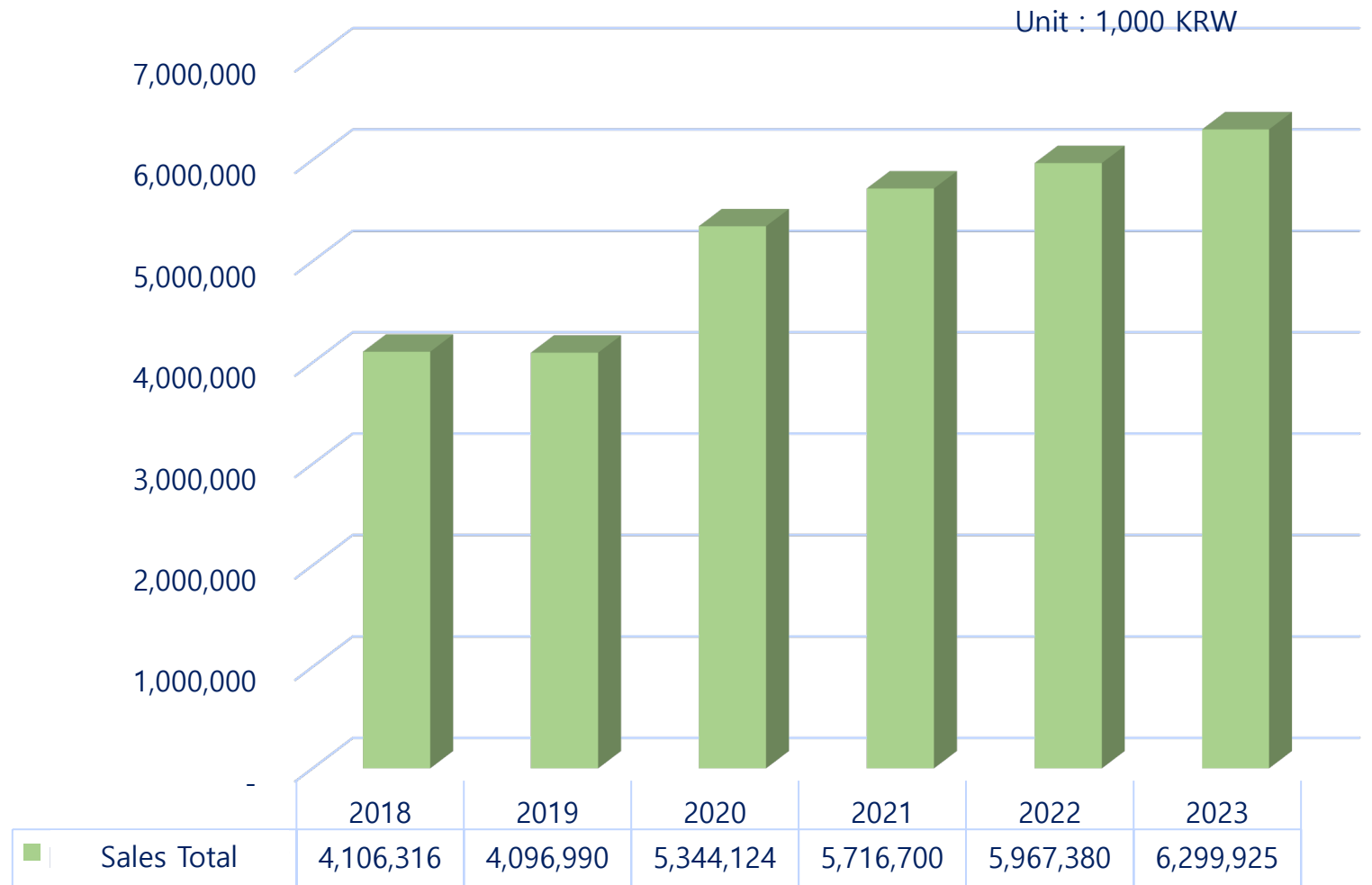
R&D PLAN

EXPORT

04 PLAN

SALES STATUS

MANITZ Sales Trend



04 PLAN

R&D Plan

Research & Develop.

- Product development tailored to market trends and user needs.
- Expanding product portfolio to expand overseas markets



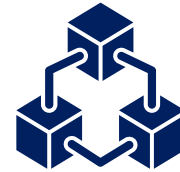
Cosmetics

Effective for skin regeneration and moisturization, it helps prevent skin aging



Skin Preparation

Medical devices to prevent patient infection by disinfecting the skin prior to surgery and catheter insertion



4HR Synthetic Bone

Composite using its 4HR patented technology. Equal performance compared to homologous bone, but stable supply and demand and low raw material prices



04 PLAN

BIO Products

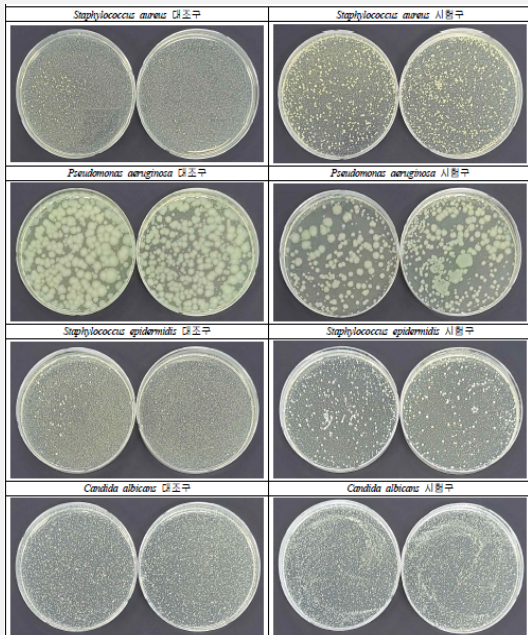
SKIN PREPARATION

A low-irritation disinfectant medical device designed to prevent contamination and infection at wound sites by developing an optimal formulation ratio of benzalkonium chloride and natural moisturizing factors (NMF).

Safety / High effect / Non-toxic

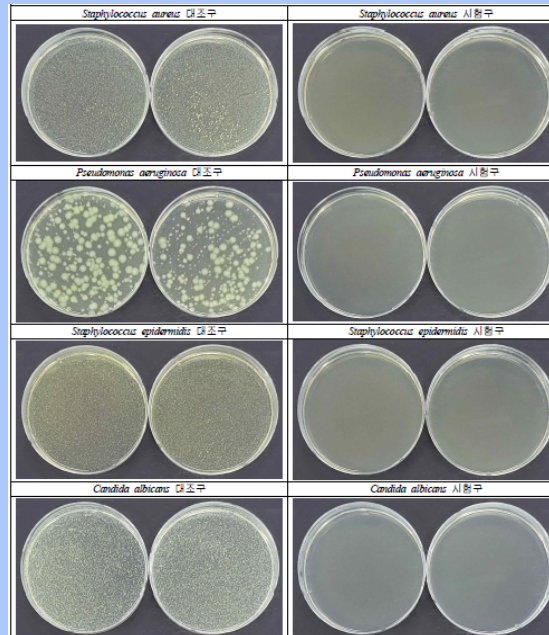
[Alcohol 0.1%]

[Reduction]



[Benzalkonium Chloride 0.1%]

[Reduction]



[Developing Concept]

Test Results of Developed Product

PREPARATION

04 PLAN

BIO Products

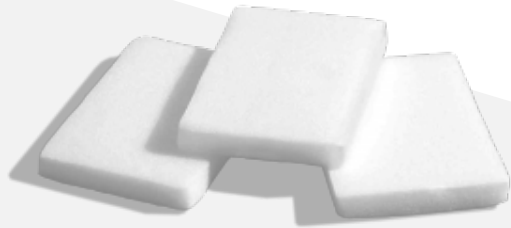
ABSORBABLE HEMOSTATIC AGENT

Development of a high-performance, cost-effective absorbable hemostatic agent by optimizing the composition ratio of Kaolin (a natural mineral) and gelatin for enhanced hemostasis.

Stop Bleeding Fast / Absorbable / Easy to Use / Various type



Foam type



Powder type



Gel type



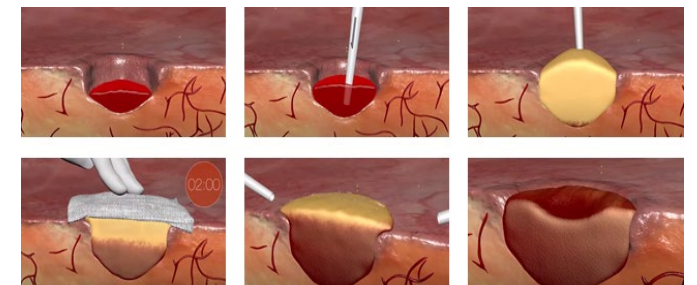
HEMOSTASIS

Price competitiveness

ABSORBABLE HEMOSTATIC AGENT

Development of a paste-type absorbable hemostatic agent utilizing starch, a known hemostatic ingredient, to improve the shortcomings of existing products and enhance user convenience.

Fomular	Features
Paste	<ul style="list-style-type: none"> Can be precisely administered to the bleeding site and remains in place during the hemostatic process due to its adhesive properties. Applicable across various fields regardless of the site. As an integrated product, it requires no preparation time before use, ensuring excellent user convenience.



개발 제품 적용 예시

HEMOSTASIS

04 PLAN

Export

For the Global Market

Product Portfolio

- + For spinal and surgical purposes
- + For dermatology
- + For animals

Price competitiveness

- + Securing own production facilities
- + mass production

loyal customers

- + Domestic Surgeon-linked training
- + Cadaver hands-on operation

Discovery of Global partner

- + Participation in overseas conferences and exhibitions
- + Buyer discovery through B2B/B2C transactions



Thank You

MANTIZ

라이프케어산업기술원

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오스콘 5차

MANTIZ
ABOVE THE STANDARD

