ISO 13485:2016
GMP

CUSFIT SERIES

ABOVE THE STANDARD

MANTIZ

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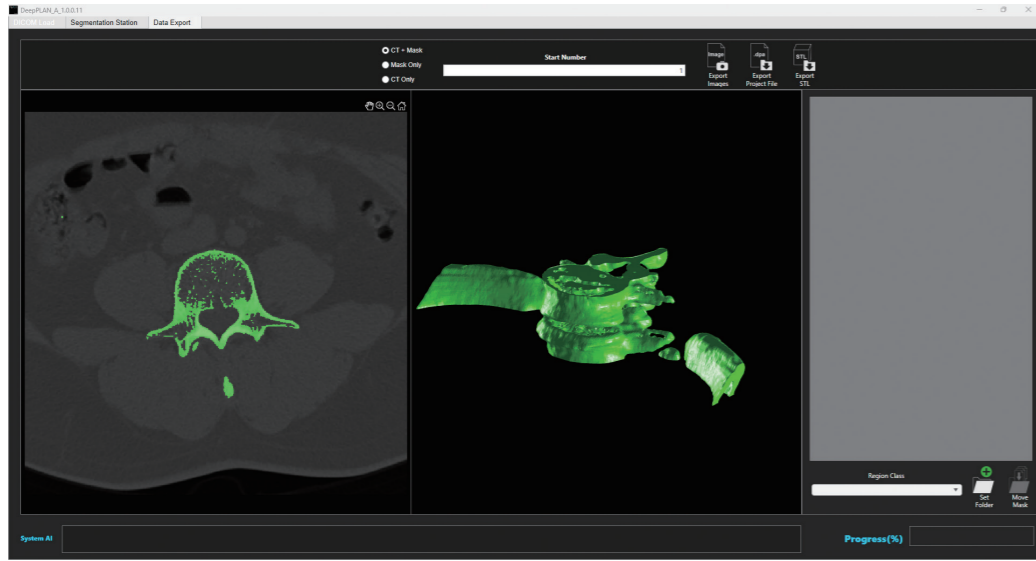**TEL** +82(0)53 252 5833 **FAX** +82(0)53 252 5834

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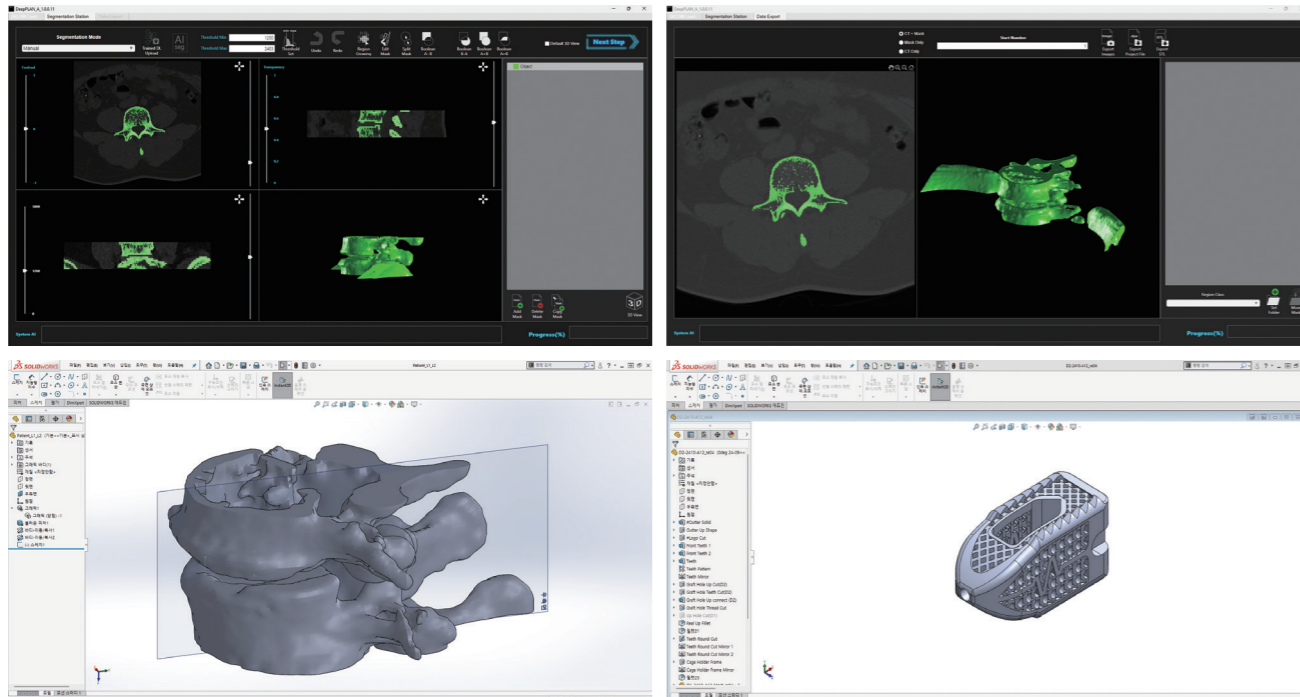
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AI-BASED Scanning program

An interactive medical image control software that specializes in 3D printing and data generation of deep learning for semantic segmentation. Researchers in the medical field can easily and efficiently handle this tool to progress high-quality studies.

Manufacturing Process

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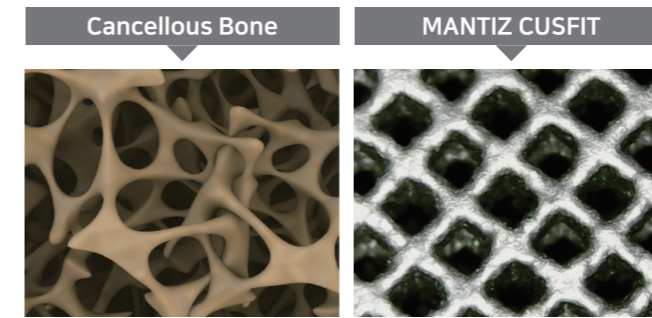3. Design 3D print cage in 3D modeling program

Features

SLM(Selective Laser Melting) 3D Printing Technique

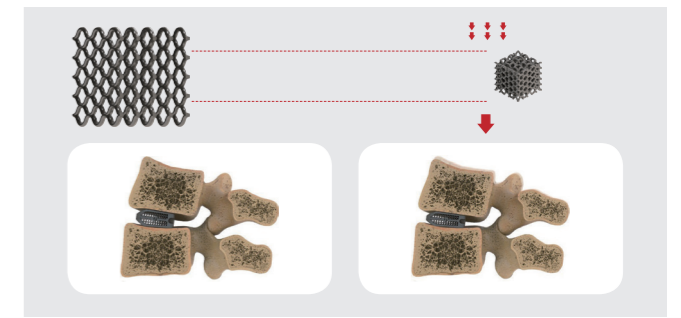CUSFIT Series are produced with **Selective Laser Melting 3D Printing Technique**.
SLM 3D Printing Technique is possible to mass-produce
various products by size and shape with a single production process and then it can be biodegradable
to the body through several post-treatment processes.

Optimized Bone in Growth

Cancellous Bone	MANTIZ CUSFIT

created to optimize bone in-growth in the spinal procedure, **mean porosity range of 40~60%.**
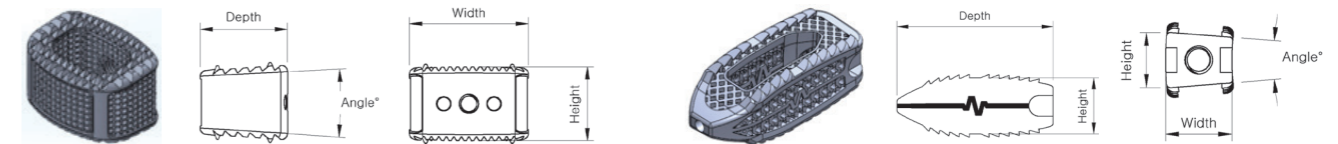
Elasticity of CUSFIT Frame Mesh

Designed to minimize subsidence by adopting the cross-intersected 3D frame.

Specification

Cusfit-C					
Type	Length	Width	Lordotic	Height	Remark
	A	B	C	D	
Convex	12~14	15~19	0°	5~12	Normal
Lordoric	12~14	15~19	4°~8°	5~12	
Parallel	12~14	15~19	0°	5~12	

Cusfit-L					
Type	Length	Width	Lordotic	Height	Remark
	A	B	C	D	
PLIF	24~28	10~13	0°~18°	7~16	Full Mesh
TLIF	28~50	10~17	0°~9°	7~16	Full Mesh
ALIF	24~28	30~38	0°~18°	8~17	Standard, Marker
OLIF	40~60	18~22	0°~12°	7~17	Standard, Lordotic

※ 환자의 신체 정보에 맞추어 다양한 사이즈 구현 가능.

Benefits

Digitalization	For Surgeons	For Patients	Safety
Digital Transformation for Spine Surgery	Sophisticated and highly efficient of surgical results	More stable and higher surgical results after treatment	Outcome high stability to converting CT Scanning Data for Patients