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# CUSFIT SERIES

ABOVE THE STANDARD  
**MANTIZ**



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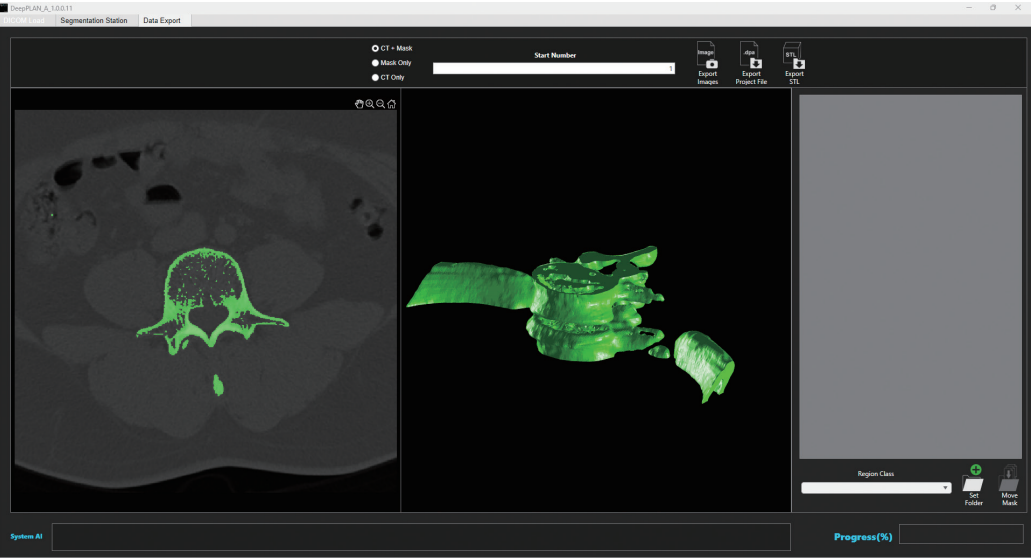
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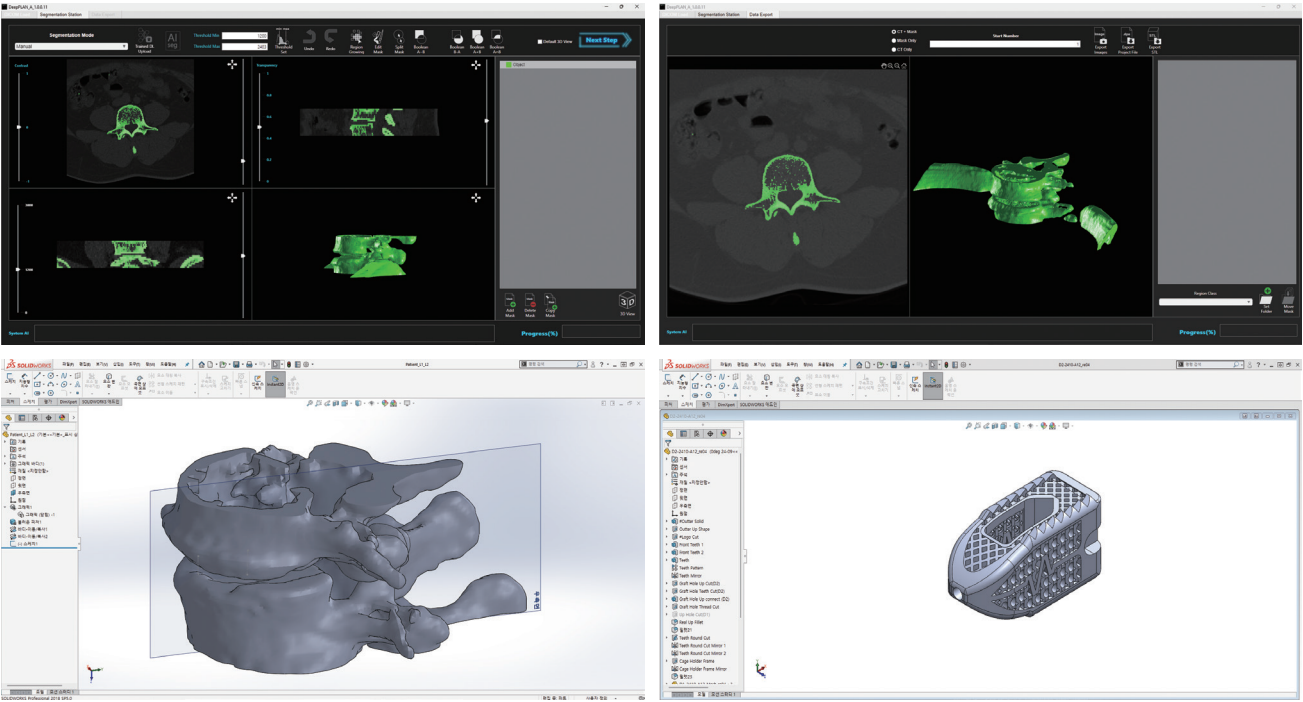


# AI-BASED Scanning program



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



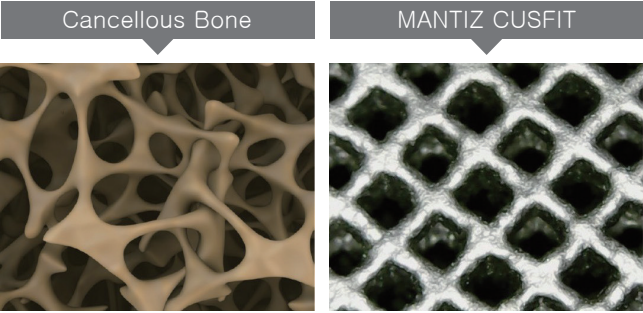
- 1 Scanning CT Data
- 2 Convert the CT data using Deep Plan which is the Digital Transformation program
- 3 Design 3D print cage in 3D modeling program

# Features

SLM(Selective Laser Melting) 3D Printing Technique

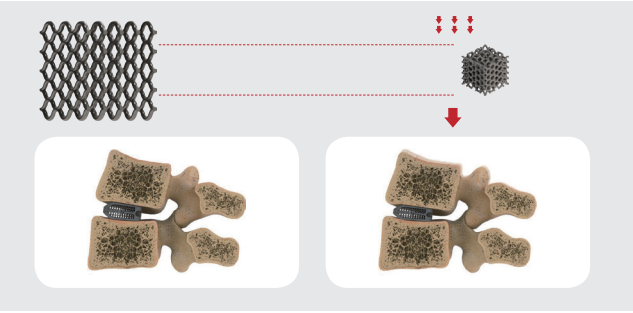
CUSFIT Series are produced with Selective Laser Melting 3D Printing Technique . SLM 3D Printing Technique is possible to mass-produce various products by size and shape with a single production process and then it can be biodegradable to the body through several post-treatment processes.

Optimized Bone in Growth



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

Elasticity of CUSFIT Frame Mesh

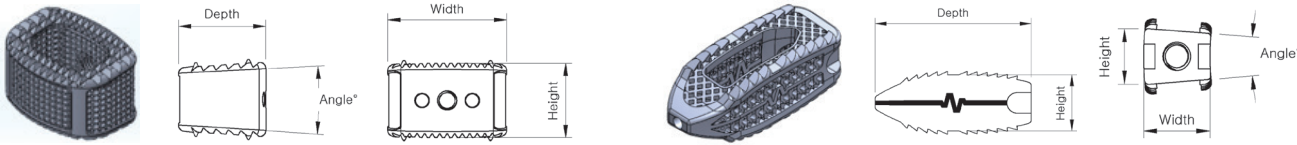


Designed to minimize subsidence by adopting the cross-intersected 3D frame.

# Specification

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



※ Can be designed based on the patient's scaing CT data.

# Benefits

Digitalization

Digital Transformation for Spine Surgery

For Surgeons

Sophisticated and highly efficient of surgical results

For Patients

More stable and higher surgical results after treatment

Safety

Outcome high stability to converting CT Scanning Data for Patients