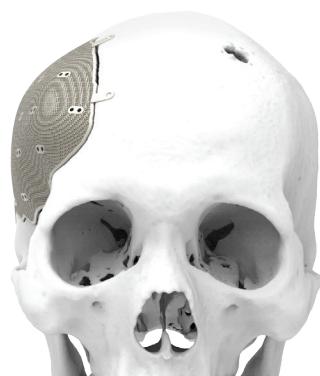
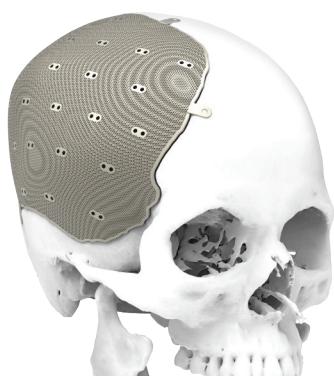


Cranial Reconstruction

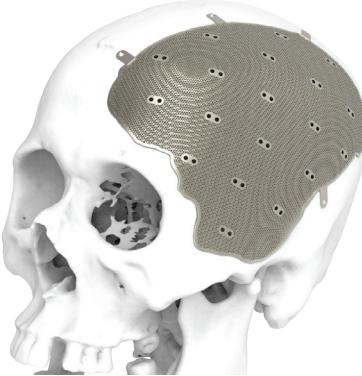
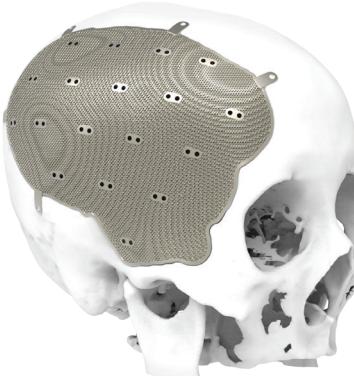
Basic Design :: Type A



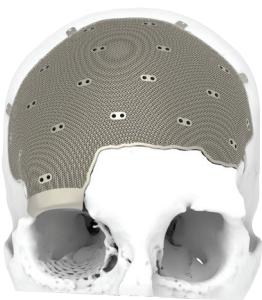
Volume up or down :: Type B



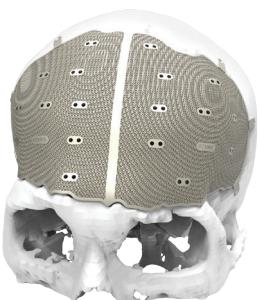
Frontal process Design :: Type C



Cranial Reconstruction



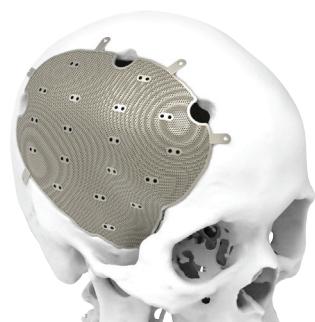
Hybrid



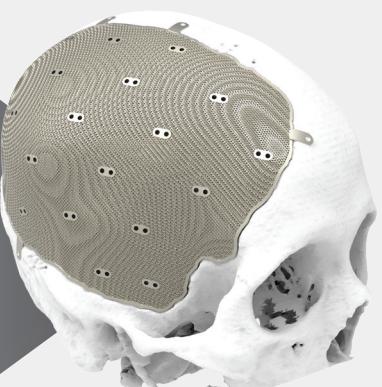
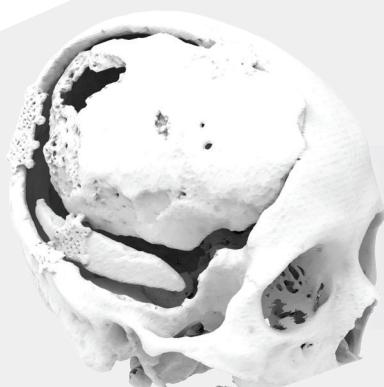
Split



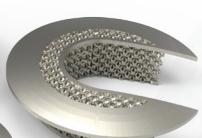
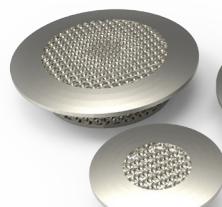
Both sides



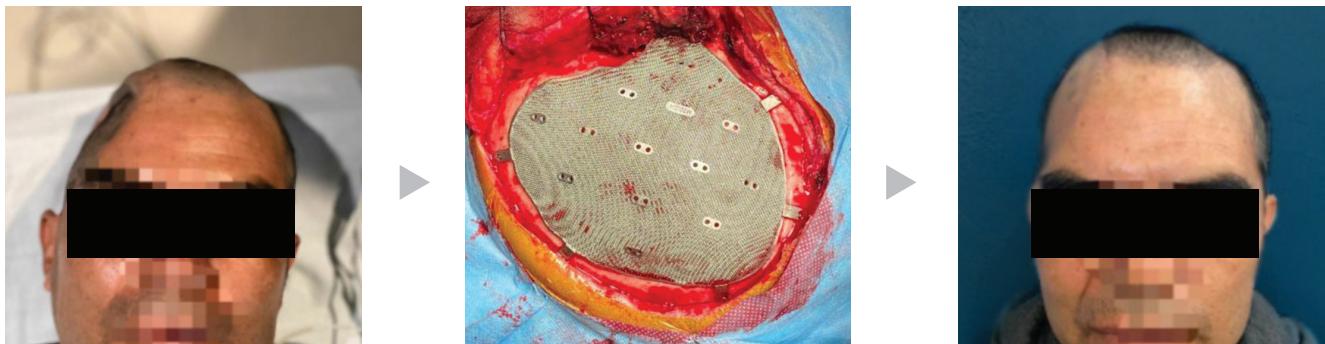
Drain hole



Burr Hole



CLINICAL APPLICATION CASES

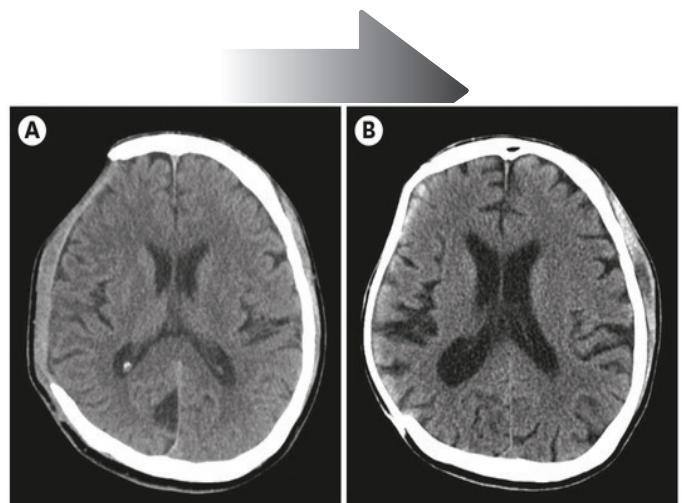


- The cranial defect was completely restored.
- The implant has flange holes for bonding with the surrounding bones, and suture holes are also provided.

• Preoperative



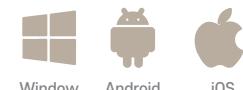
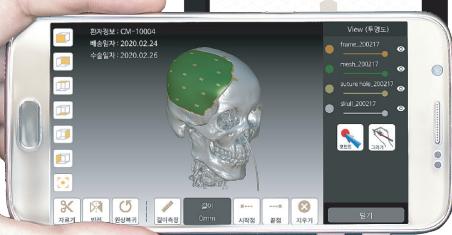
• Postoperative



The implant was fitted in the defect, not as an onlay graft, and showed a symmetric contour.

“Very satisfactory” cosmetic outcomes 6 months after cranioplasty surgery.

Communication Software - Dr.CHECK



Window Android iOS

Real-time inspection & Communication

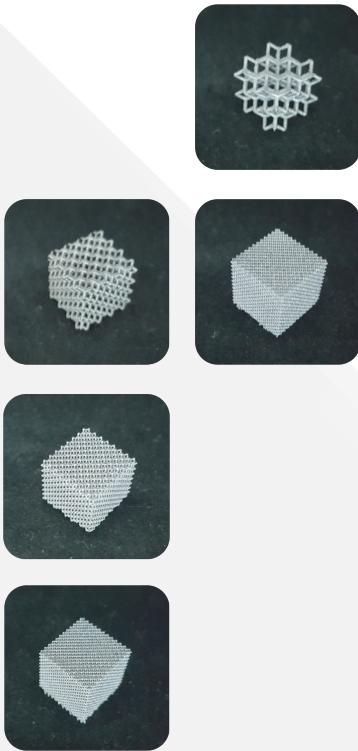
In order to accommodate the needs of medical staffs, we have developed software that can perform all procedures; ordering - design - delivery confirmation.

Check design anytime, anywhere

Various devices can be used to provide convenient accessibility. (PC/MOBILE/TABLET)

Easy-order & Request design modification

By providing easy-to-understand tools (buttons and edit pages), we provide an interface that can be easily accessed even by first-time users of Dr.Check.



CM Series

Powder Bed Fusion 3D Printer



“CM” Equipment for Medical Device Only

Lightweight & Simplification due to Precision Output

There is no limit to the realization of complex shapes by using the ultra-precision laser (5 - 30 microns).

The implementation of various lattice structures(mesh structures) reduces the weight of the product and helps adhesion with bones.

Specification

Item	MINI	CM150	CM250	CM-custom
Laser Wavelength		1,075 nm		
Laser Output Power		Yb-fiber laser 200 W (Option 400 w)		
Pulse Repetition		CW		
Output Power Tunability		10 ~ 100 %		
Beam Quality		$M^2 < 1.1$		
Scanner Positioning Speed		11 mm/s		
Building Volume	70 x 130 mm	150 x 150 x 150 mm	250 x 250 x 300 mm	Custom production
Beam Spot		70 ~ 150 μm		
Build Room Z-axis Travel		200 mm	300 mm	Custom production
Z-axis Travel Accuracy		$\pm 3 \mu\text{m}$		
Z-axis Speed		100 mm/s		
Build Chamber Temperature		40 ~ 80 °C Control		
Process Gas		Nitrogen / Argon		
Powder Feeder Stroke		170 mm	270 mm	Custom production
Weight	600 kg	600 kg	600 kg	Custom production
Powder		Co-Cr, Titanium64, TitaniumCP		
Blade		Silicone, Steel		
Software		CAD → CAM File Converting		
System Control		PC Base (Windows)		
System Max. Size (D x L x H)		750 x 1040 x 1930 (mm)	1100 x 1250 x 2000 (mm)	Custom production
Requirement Utility		Electricity : Single Phase, 220 V, 12 A		