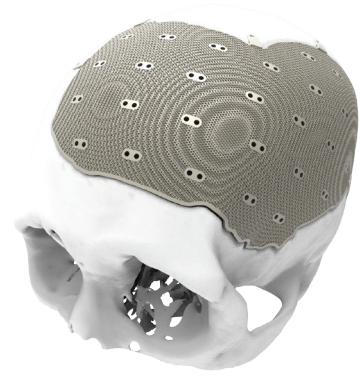
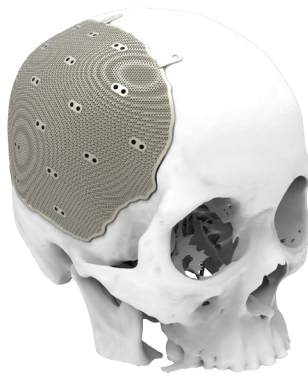
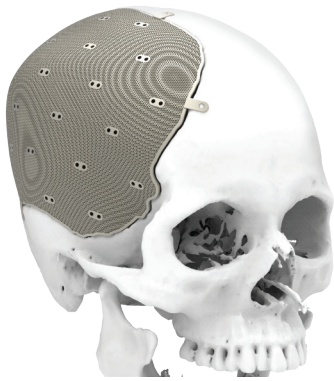
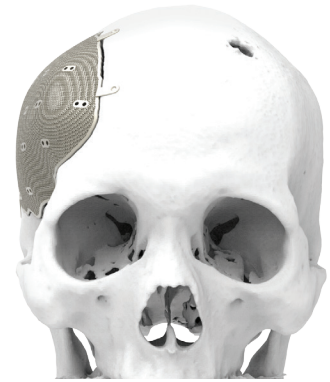
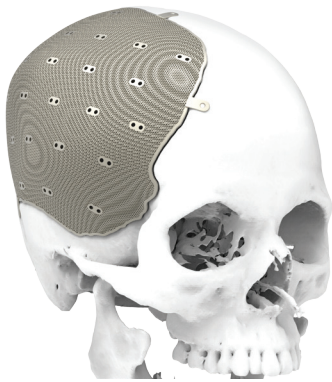


Cranial Reconstruction

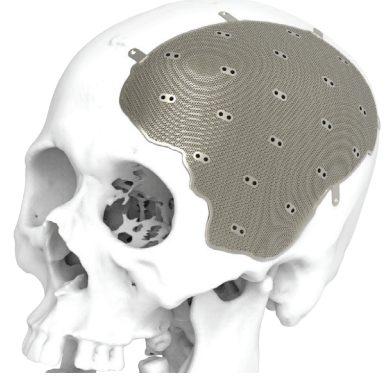
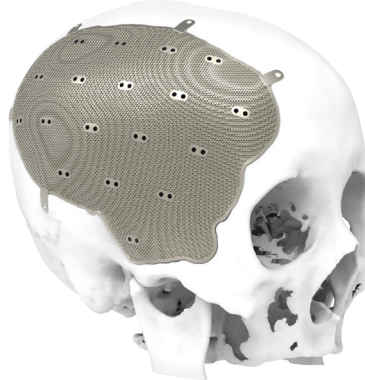
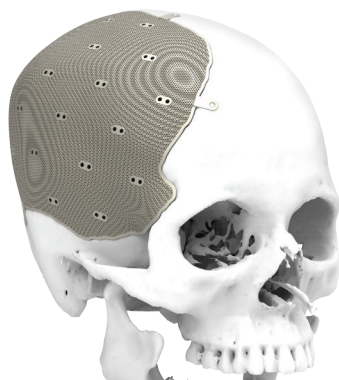
Basic Design :: Type A



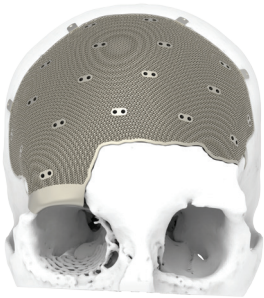
Volume up or down :: Type B



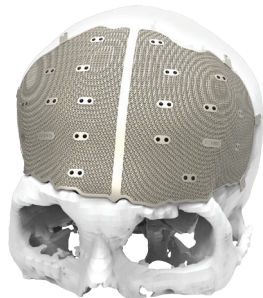
Frontal process Design :: Type C



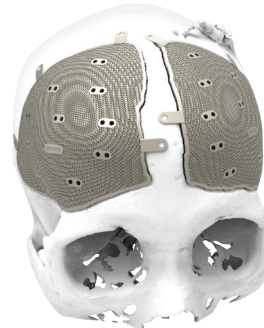
Cranial Reconstruction



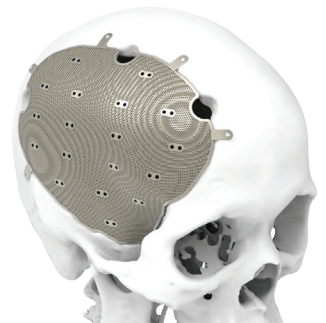
Hybrid



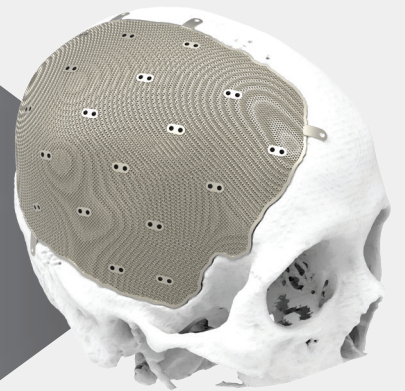
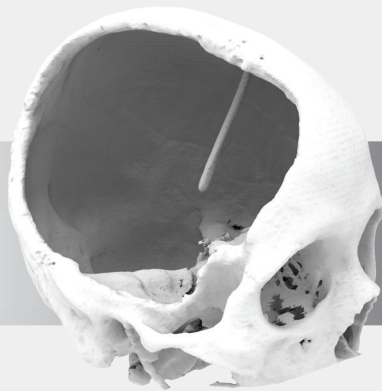
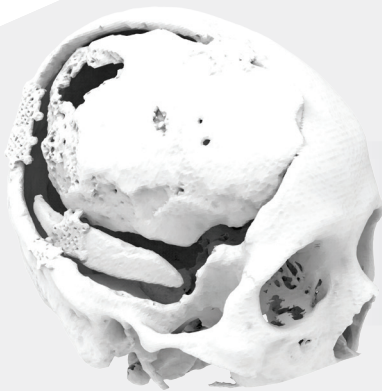
Split



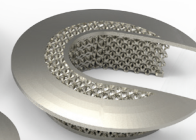
Both sides



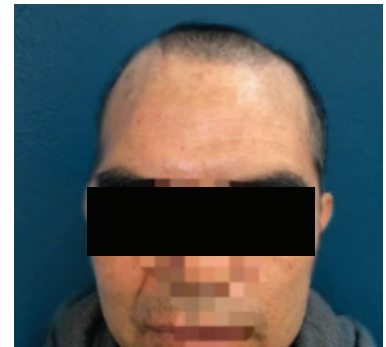
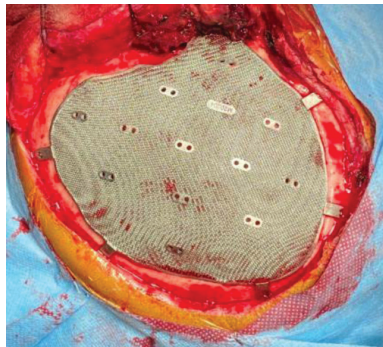
Drain hole



Burr Hole

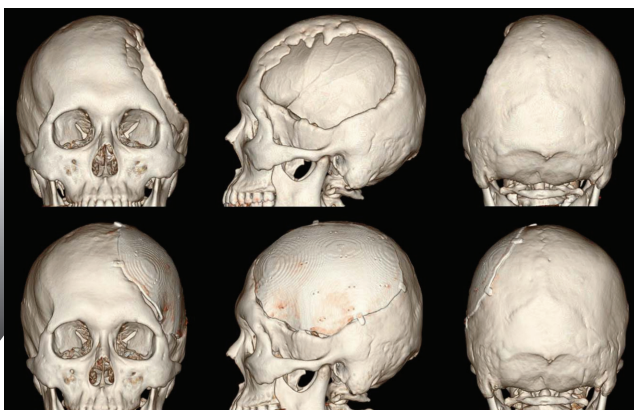


CLINICAL APPLICATION CASES

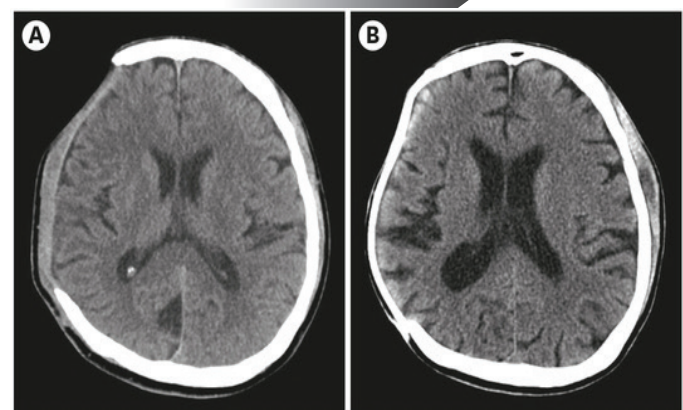


- The cranial defect was completely restored.
- The implant has flange holes for bonding with the surrounding bones, and suture holes are also provided.

• Preoperative



• Postoperative



(A) Preoperative

(B) 6 months after cranioplasty

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

DrCHECK



Real-time inspection & Communication

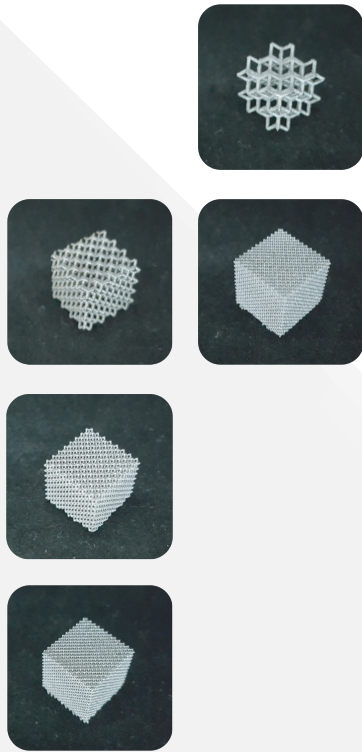
In order to accommodate the needs of medical staffs, we have developed software that can perform all procedures; ordering - design - delivery confirmation.

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

Specification

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.

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	±3 μm			
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			