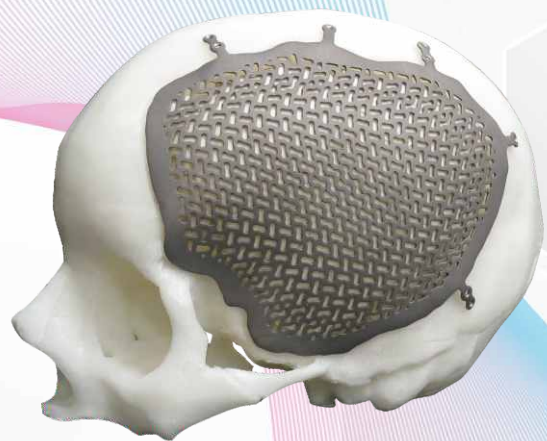
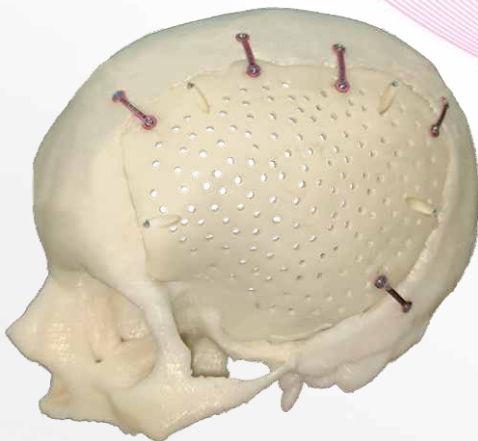
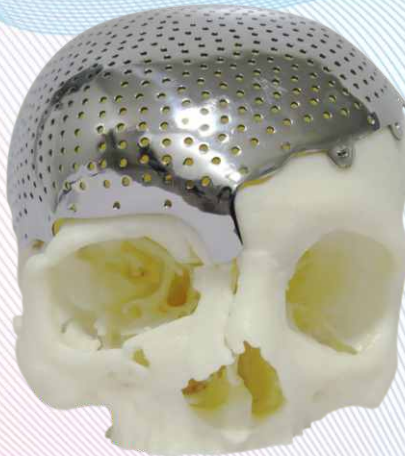


INCREDIBLE
ADDITIVE MANUFACTURING

Redesigning Life...



ULTIFIT[®] 3D
CUSTOMIZED CRANIAL IMPLANT

A Passion For Helping Patients

Every patient is unique and at 3D Incredible we believe that every patient should get individualized care, especially when it comes to implants.

Therefore, we provide **patient-specific implants** and services to assist surgeons in helping individual patients in the best possible way.

About Us

Incredible AM Pvt. Ltd. (3D INCREDIBLE) is India's leading additive manufacturing solution provider with it state-of-the-art CERTIFIED FACILITY in Pune.

3D Incredible provides a complete range of solution for its Medical and Dental applications.

The facility is designed and built as per FDA requirements and is equipped with class 10,000 clean rooms too.

Incredible is a venture of Industrial Metal Powders (I) Pvt. Ltd., Pune. IMP, established in 1974, which is the world largest manufacturer of high purity iron powder. IMP is highly awarded and ISO certified company.

They are a global supplier exporting more than 32 countries.

It has employed a Quality Management System which confirms to **ISO 13485 & ISO 9001** standards.

3D Incredible has an experienced team of professionals including engineers, designers, biomedical engineers and doctors to ensure that the customer gets the best results, high quality and complete customer satisfaction 3D Incredible is a SCAN TO IMPLANT complete solution provider.



Our Process

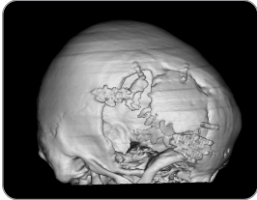


Software & Designing Process

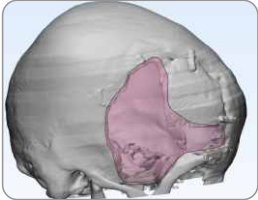
Our strength is implant designing process to attain precise complex implant structures with highest strength and stability. We use USFDA and CE approved licenced software.

♦ Materialise Mimics ♦ 3Matics ♦ Magic ♦ Quant AM ♦ NX- Siemens

At 3D Incredible, we use patented* design specifications to design **ULTIFIT^{3D}** Customized Cranial Implant which ensures perfect fit for every unique cranial defect.



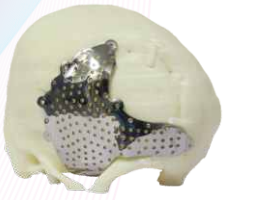
Defect image



Surface Design



Implant Design



Actual Implant

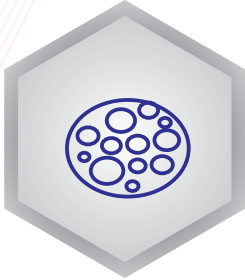
Quality Validation



TENSILE TESTING



BIOBURDEN TEST



DENSITY MEASUREMENT TEST



BIOLOGICAL EVALUATION TEST



STABILITY TEST

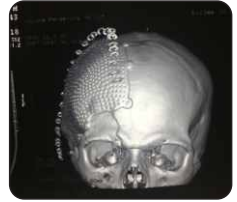
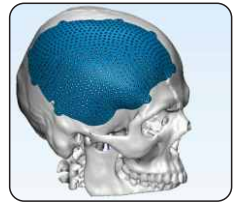
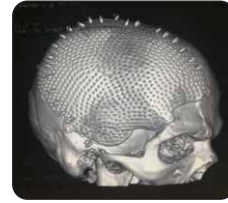


CHEMICAL ANALYSIS TEST

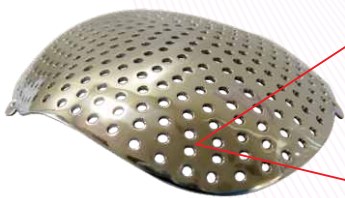


Benefits & Features of **ULTIFIT^{3D}** CUSTOMIZED CRANIAL IMPLANT

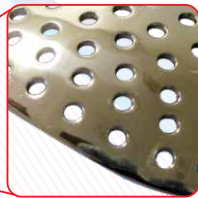
- ❖ Easy to use
- ❖ Perfect Fit
- ❖ Strong and Stable Protection
- ❖ Complicated surgeries can be planned conveniently
- ❖ Excellent Aesthetic Look
- ❖ Faster Recovery
- ❖ Anatomy models & Cutting Jigs
- ❖ Reduced operating time compared to traditional reconstruction methods that require extensive contouring



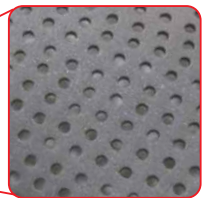
Mirror finish and Mat finish



Mirror finish



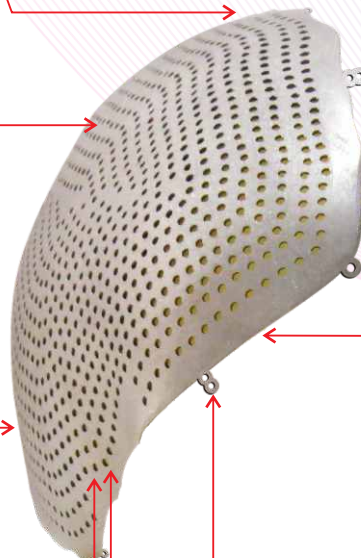
Mat finish



Complex design,
Contours and Curves
for better Aesthetic

Material-Ti6Al4V-ELI Alloy
Biocompatible,
ASTM F136-13 Compliant

2mm even space low
thermal conductivity

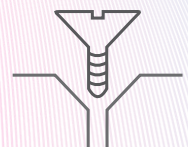


Flange in Different shape
and Design



0.7 mm to 1.2mm Thickness

Countersunk Hole



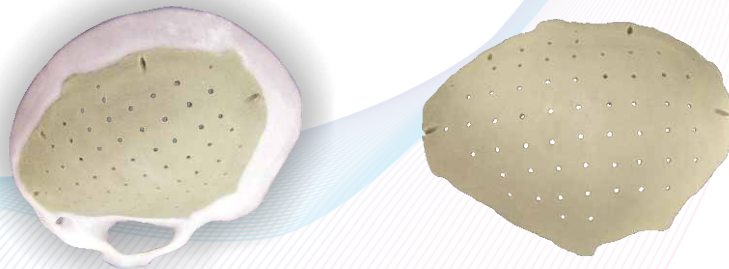
- ❖ Screw Length Prediction and Pre-Visualization of screw trajectories to ensure a collision free construct
- ❖ Planing of screw hole position while designing

Benefits and Features: **ULTIFIT[®] 3D ECO** PMMA CUSTOMIZED CRANIAL IMPLANT

- ❖ Bio-compatible
- ❖ Diagonal screw hole fixation possible
- ❖ Completely customized, anatomy matching,
- ❖ 100% Ready to use
- ❖ Radiopaque - Provides scan visibility for post-operative monitoring.
- ❖ Textured - Allows for tissue adherence
- ❖ Cost Effective
- ❖ Perfect fit
- ❖ ETO sterilization compatible
- ❖ Variable Thickness as per bone
- ❖ Perfect fit
- ❖ ETO sterilization compatible
- ❖ Equidistant drain holes
- ❖ Best in the class packaging and labels
- ❖ World class certified PMMA

Quality Validation:

- Mechanical Testing
 - ❖ Tensile testing
- Biocompatibility Test
- Stability Test
- Bio burden Test



Diagonal screw hole fixation



Primary fixation miniplate and screw



Variable Thickness as per bone

Equidistant drain holes

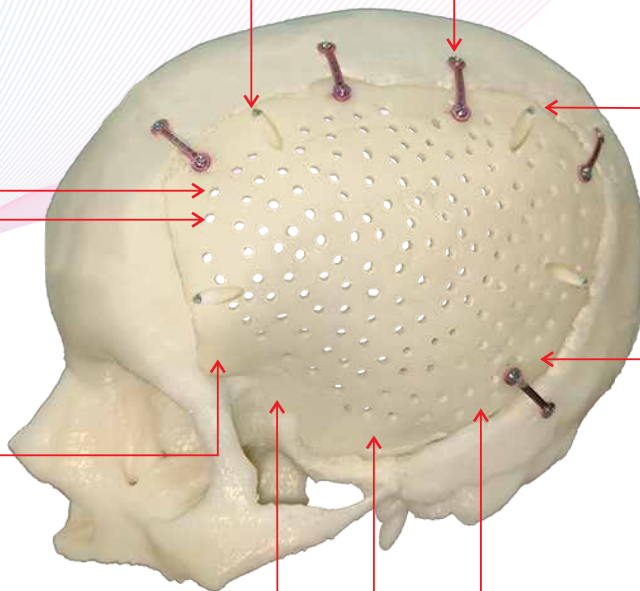
ETO sterilization

Bio compatible

Drop In Fit Design

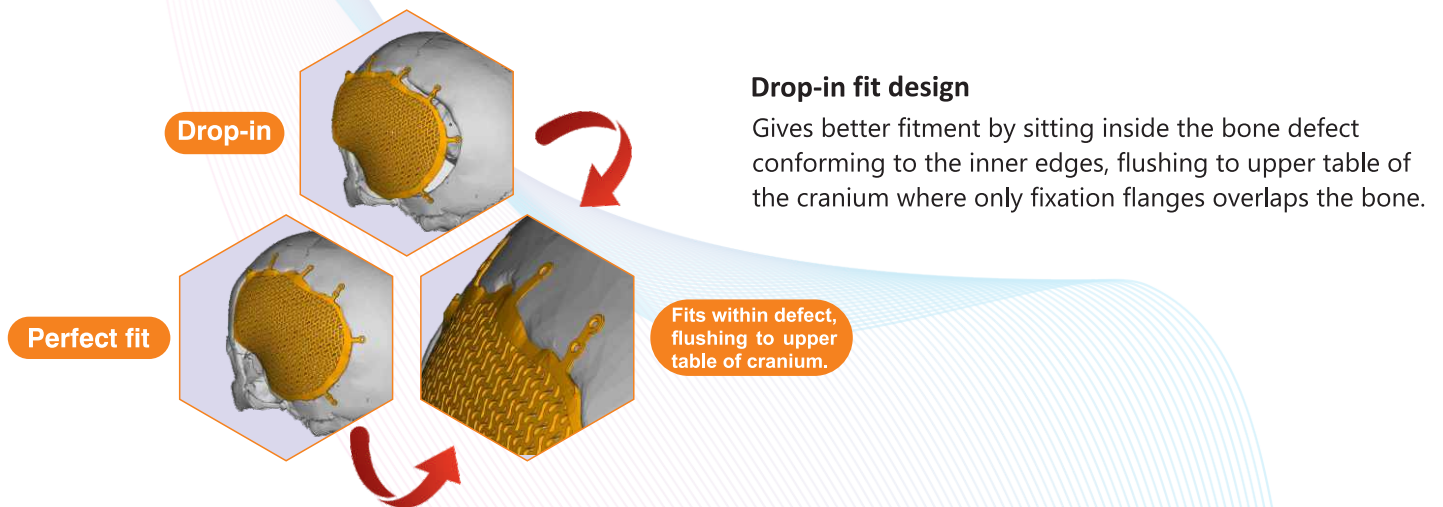
World class certified PMMA

100 percent ready to use

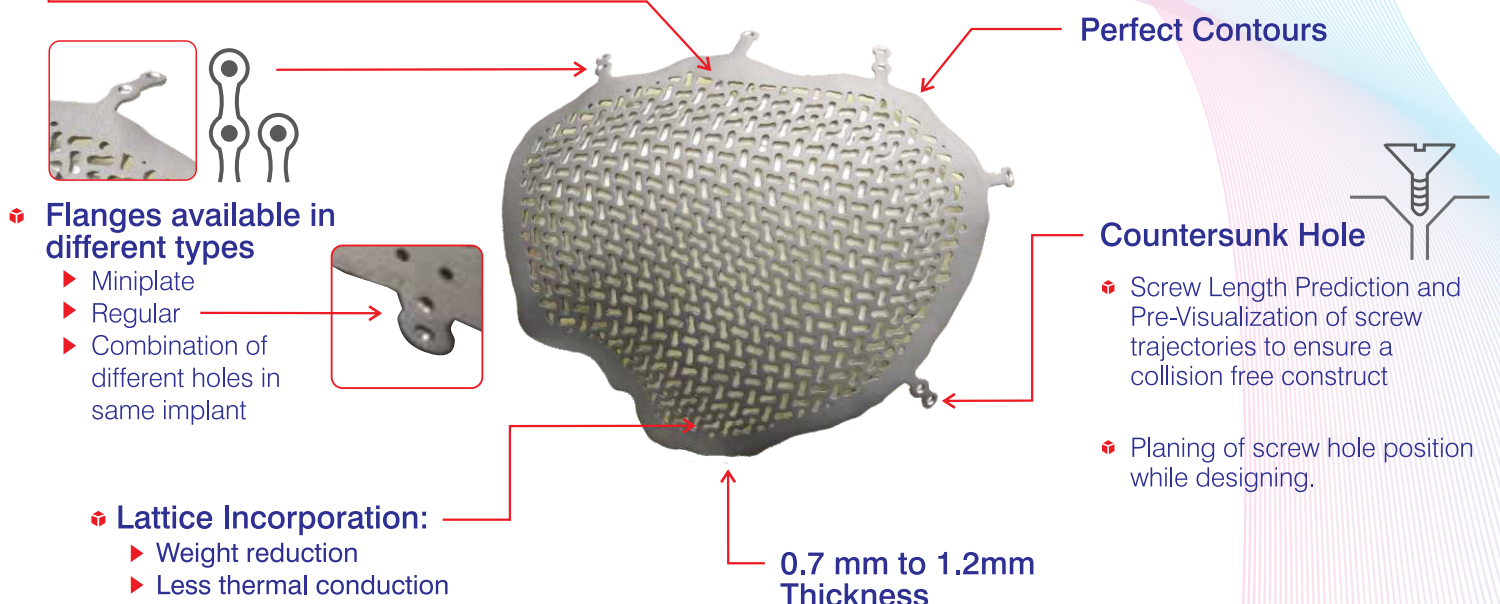
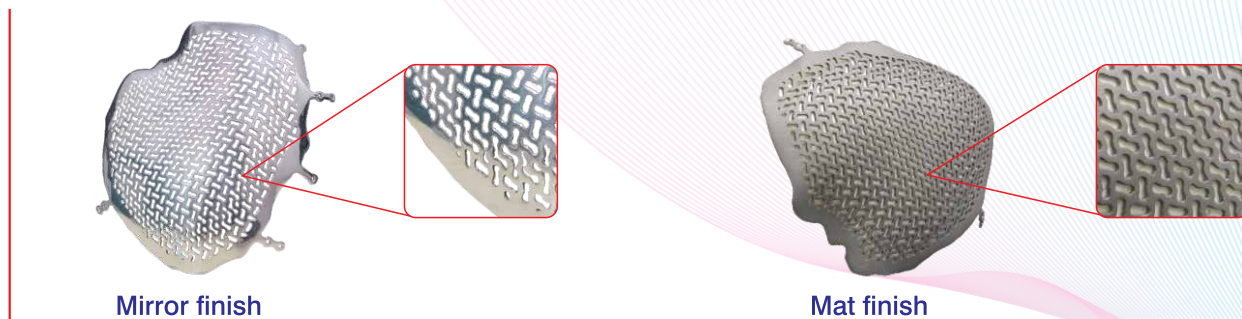


Benefits and Features: **ULTIFIT[®] 3D PRO** ADVANCED CUSTOMIZED CRANIAL IMPLANT

- ❖ Mirror finished
- ❖ Matt finished
- ❖ Perfect contours
- ❖ Flanges available in different types
- ❖ Lattice incorporation
- ❖ 0.7mm to 1.2 mm Thickness
- ❖ Countersunk hole



Mirror finish and Mat finish



Benefits and Features: **ULTIFIT^{3D} SUPREME** PEEK CUSTOMIZED CRANIAL IMPLANT

- ❖ World wide trusted material of choice
- ❖ Highest strength as good as bone
- ❖ Can be modified intraoperatively
- ❖ Mimic the natural bone thickness to restore intracranial pressure
- ❖ Sterilisation compatible with ETO and Gamma
- ❖ Highest Biocompatible
- ❖ Compatible with CT , MRI and Post OP radiation therapy



Variable Thickness
as per bone

Primary fixation
miniplate and screw



ETO and GAMMA
sterilization

Equidistant drain holes

Drop In Fit Design

Compatible with CT, MRI and
Post OP radiation therapy

Perfect fit

Regulatory Approvals

Incredible AM Pvt. Ltd. is **India's 1st ISO 13485 and ISO 9001** certified company for manufacturing of patient specific implant using 3D metal printing

As per Sr. No.1, (Schedule VIII, Medical Devices Rules, 2017), custom made medical devices are exempted from all provisions of Chapter IV & Chapter V of Medical Devices Rules, 2017 in India.

Why Choose 3D Incredible



Team of Experienced
Engineers & Medical experts



World Class State-of-the-art
Manufacturing Setup
ISO 13485 and 9001
Approved facility



Ultra modern
software designing lab



Various Material
options to choose



Quick turn
around time



Competitive Pricing

Designing Software
supported By

materialise
innovators you can count on

INCREDIBLE
ADDITIVE MANUFACTURING

Plant Address:

Gat No. 699/1, Koregaon Bhima, Behind Kalyani Forge,
Pune-Nagar Road, Taluka Shirur, Pune - 412 216, Maharashtra INDIA.

Pune Office Address:

G/S/11, Paresh Industrial Complex, Premises No. 45/2A,
Gultekadi, Pune - 411 037.

☎02137 667933 ☎+91 7030931951 ☎+91 9822598224
info@3dincredincredible.com www.3dincredincredible.com