



AMANDEEP
HOSPITALS



IN PARTNERSHIP WITH
Ujala Cygnus
HOSPITALS
Excellence Made Affordable

AI 3D SURGICAL PLANNING & SIMULATION CENTRE

**Built for Surgeons.
Designed for Complex Cases.**

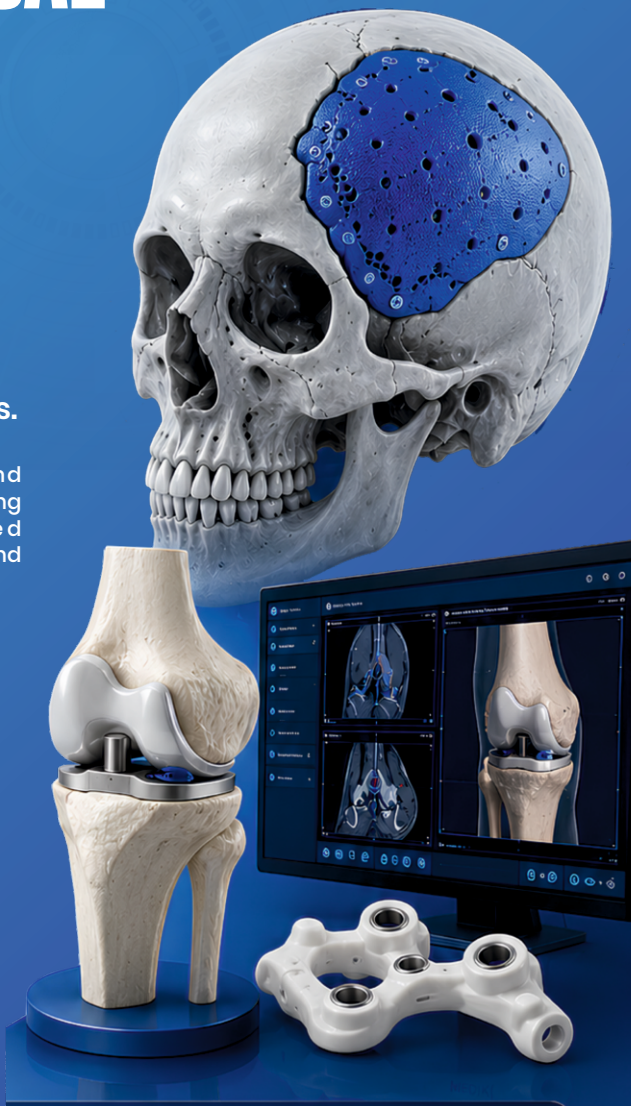
We help surgeons across India and globally in convert CT and MRI imaging into patient-specific 3D printed anatomical models, surgical guides, and pre-operative planning tools.

**Pre-op Surgery
Planning**

**3D Anatomical
Models**

**Customized
Surgical Guides**

**Patient-Specific
Implants**





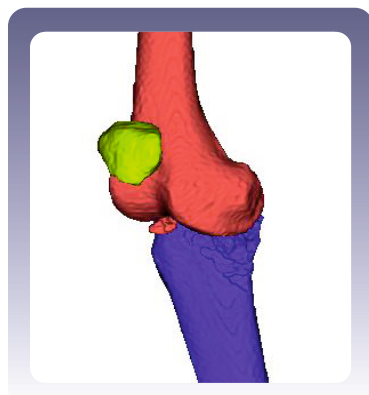
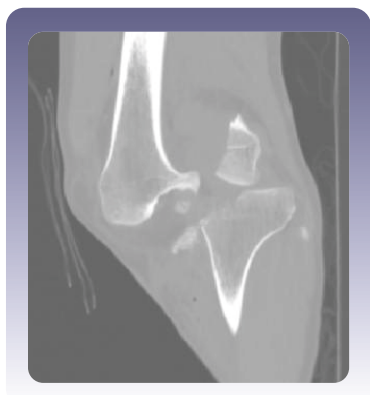
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Introducing the 3D Planning Ecosystem

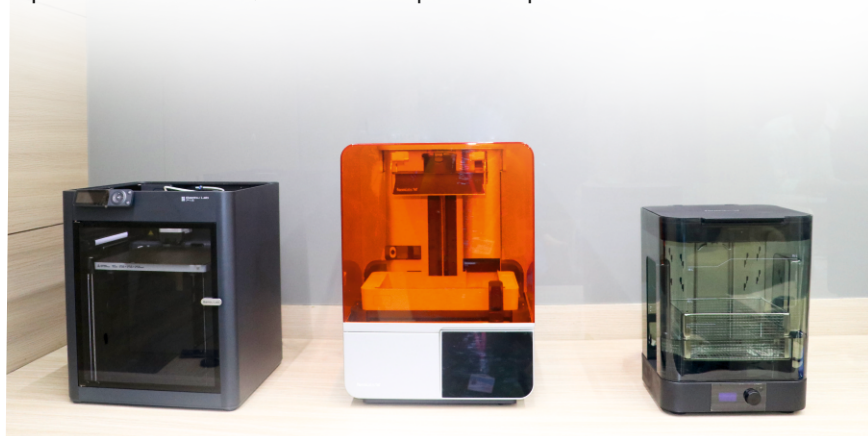
Converting Imaging Data into Surgical Intelligence



**Our AI-enabled 3D lab transforms CT and MRI datasets
into clinically actionable surgical solutions.**

Objective

To improve surgical confidence, procedural efficiency & reproducibility in highly complex surgical cases while supporting better pre-operative decision-making, streamlined intra operative execution, & enhanced patient-specific treatment outcomes.





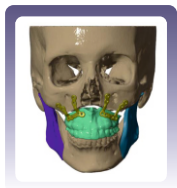
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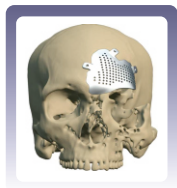
Types of Surgeries We Plan

Converting Imaging Data into Surgical Intelligence



Oral Maxillofacial

- > Orthognathic surgery
- > Maxilla/Mandible implants



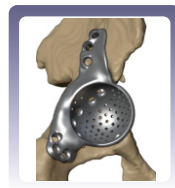
Neuro

- > Cranial plates
(Titanium & PMMA)



Oncology

- > Osteo-sarcoma of bone
Shoulder, Sternum, Hip, Knee



Orthopedics

- > Total Knee Replacement
guides
- > Custom Revision Hip
Augments and tri-flange

Benefits of Integrated 3D Surgical Planning

Enhanced Anatomical Understanding

Visualize complex anatomy in three dimensions before entering the operating room

Improved Surgical Precision

Accurate planning with patient-specific models, guides, and implants.

Better Management of Complex Cases

Supports reconstruction, deformity correction, trauma and revision surgeries.

Predictable Outcomes

Virtual planning minimizes intraoperative guesswork and enhances confidence.

Personalized Treatment

Solutions tailored to individual anatomy for improved clinical outcomes.

Safer Procedures

Solutions tailored to individual anatomy for improved clinical outcomes.

Better Understanding of Treatment

Solutions tailored to individual anatomy for improved clinical outcomes.

Greater Confidence & Satisfaction

Clear treatment planning improves trust & engagement in care decisions



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How It Works



Clinical Impact

1. Better anatomical visualization

Improves understanding of complex cases before surgery.

2. More predictable surgery

Helps define a clear operative plan and reduce intraoperative guesswork.

3. Improved patient outcomes

Supports safer procedures, shorter OR time, and faster recovery

Planning Time Saved

40-60%

Reduction in pre-op planning effort

OR Time Reduction

30-90 min

Less intraoperative time

Custom Implant Accuracy

Sub-mm

Precision fit and planning

Multi-disciplinary Collaboration

100%

Integrated surgeon-led review

GET IN TOUCH



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