

CUSTOM IMPLANTS WHAT, WHY, HOW



THE PURPLE
SPARK

WHAT ARE CUSTOM IMPLANTS?

Custom implants are patient-specific medical devices designed using 3D imaging and CAD software. Unlike off-the-shelf implants, these are tailored to fit each patient's anatomy precisely, ensuring maximum stability, function, and long-term outcomes.

WHY CUSTOM IMPLANTS?

- Every patient's bone structure is unique.
- Off-the-shelf implants may not fit complex or rare cases, leading to complications or revisions.
- Custom solutions minimize bone loss, reduce surgical time, and improve recovery.

HOW THE PURPLE SPARK DELIVERS

- Design – Based on CT/MRI scans, our engineers and doctors co-create implant designs.
- Manufacture – Advanced 3D printing + CNC milling ensures high-quality, biocompatible materials.
- Testing – Pre-operative simulations and fit checks to ensure precision.
- Delivery – Seamless logistics with all regulatory compliance and sterilization protocols.