

Orthopedic Bone Implant | Case Study

The Problem

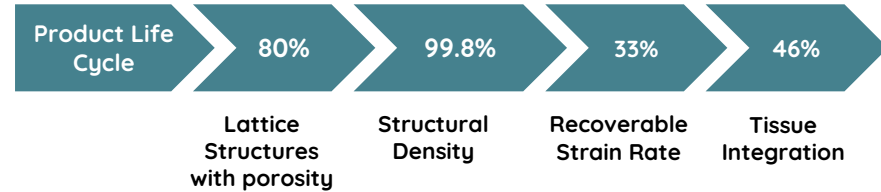
- Much stiffer than natural bone
- Micro-motion against bone
- Aseptic Loosening
- Mechanical Fatigue Failure

The Solution

Additively manufactured (3D-printed) metal orthopedic bone implants offer superior anatomical customization, enhanced bone integration, and optimized mechanical properties compared to traditional solid implants

The Impact

- Reduced Stress Shielding
- Enhanced Osseointegration
- Patient-Specific Customization
- Improved Biocompatibility



3D printing orthopedic bone implants offer precise anatomical customization, enhanced osseointegration through complex porous structures, and reduced stress-shielding effects