We are the solution

Patient-Matched Implants
Our Commitment

Biomet’s PMI® Department has the experience and resources surgeons have come to rely upon to address their most difficult cases.

- We utilize the most current technology, design and manufacturing methods for precise implants and instrumentation.
- Our success is based largely upon open communication between surgeon, sales associate and engineer.
- We stand behind our commitment: If the agreed-upon date is not met, the implant is on us.

We are the solution
In today’s orthopedic market, emergency reconstructive cases or extreme variations in anatomy may require the development of a patient customized implant of sound design.

**Primary Implants**
- Anatomically matched hip stems and acetabular components
- CDH cases
- Bony deformities

**Revision Cases**
- Unusual shapes
- Bone filling replacements
- Severe bone loss

**Extremities**
- Elbow reconstruction
- Stability enhancing designs

**Oncology**
- Total and segmental joint replacement
- CT-generated customized bone replacements
- Juvenile tumor cases

**Trauma**
- Uniflex® arthrodesis nails
- Plates
- Rods
- Screws
- Pins
- Wires
The devices in this brochure are intended to be used as described in the products labeling.

PMI® and Uniflex® are registered trademarks of Biomet, Inc.
Through the union of technology and personal attention, surgeons and patients benefit from the most advanced orthopedic designs available.

- 3-D reconstruction of CT image data
- Translation of CT image to CAD/CAM environment
- Computer controlled machining for dimensional precision
- Patented design process for CT-generated implants
- 3–4 week lead time upon design approval
- Accelerated response for cases involving trauma and oncology

**Evolution of a Patient-Matched Implant**

**Step 1**
3-D reconstruction of a typical acetabular revision

**Step 2**
Translation of CT data to a fused deposition modeler provides a true patient representation

**Step 3**
Anatomical model used to create an implant prototype
Information Gathering Process
• Surgeon’s clinical expertise and guidance
• X-rays and CT data (your Biomet Representative has CT scan protocols and X-ray guidelines)
• Visit www.biomet.com/surgeons/product/pmi.html

Anatomic Models
• Invaluable implant design tool
• Available for pre-surgical planning and intraoperative visualization.

Proposal Packet is Delivered for Review Within 72 Hours
• Description and design rationale
• Overlays and templates
• 3-D reconstructions and density studies (CT data required)
• Cost and delivery schedule

Step 4
Hemi-pelvis model showing tri-flange cup implant

Step 5
Post surgical implantation of a tri-flange cup
CT Custom Prosthesis

- 3-D imaging and CAD/CAM technology are combined to create a unique customized device
- Customized CT implant experience since 1990
- Surgeon-specific design criteria are utilized
- CT customized products are manufactured from raw material—not a modified standard line device

It all begins with a 3-D reconstruction of a patient’s CT scan.

Sophisticated CNC machinery sculpts titanium bar stock into a one-of-a-kind prosthesis.
A unique design is created based upon each patient’s bone geometry.

Anteversion can be adjusted referencing the femoral condyles.

The final product—a custom broach is supplied with each prosthesis.
We are the solution

1-800-348-9500 Ext. 1969
www.biomet.com/surgeons/product/pmi.html