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Introduction

Biomet is dedicated to maintaining a national and international reputation as a leader in engineering and manufacturing limb salvage devices that cover the broad spectrum of patient indications.

Whether addressing cases of severe bone loss, atypical joint deformities, multiple revisions or oncologic musculoskeletal disorders, the overall Limb Salvage Reconstruction offering will afford surgeons unparalleled modularity and surgical latitude.
The most comprehensive limb salvage reconstruction system on the market, the OSS™ offering is an expansive line of femoral and tibial articulating bodies as well as an impressive array of cemented and press-fit stems. Presenting surgeons with unparalleled modularity and surgical latitude, this system fills a viable niche within Biomet’s family of reconstructive products.

- Distal femoral components offered in 12 distinct replacement designs
- Proximal tibial components offered in 14 distinct replacement designs
- Stems offered in 14 designs featuring a satin finish, an Interlok finish and a circumferential PPS® Porous Plasma Spray
- OSS™ RS (reduced size) offering is a complete system of pediatric-sized distal femoral and tibial implants
- Universal taper allows for complete interchangeability between the OSS™ and OSS™ RS line
Compress® Compliant Pre-stress Device

Designed to replace the distal and proximal femur in cases of severe bone loss, the Compress® device exemplifies Wolff’s Law—the principle that bone, when stressed, remolds to become stronger through dynamic bone compression. This creates a stable, high-pressure bone-implant interface for bone growth, and helps to prevent stress shielding.

- Distal segmental femoral option
- Proximal segmental femoral option
- Enhances osseointegration at the bone-implant interface
- Short Compress® device offering requires only 46mm of medullary placement*
- Standard Compress® device offering requires only 90mm of medullary placement*
- Reduced Resection Compress® bodies offer replacement constructs of 8, 9.5 and 11cm
- Standard Resection Compress® device offers a minimal replacement construct of 13cm
- Utilizes components from the OSS™ implant offering

*Particularly advantageous in massive bone loss cases
Twelve Years Postoperative
The Mosaic™ system is a comprehensive humeral replacement system that addresses the reattachment of soft tissues, proper tensioning of the glenohumeral joint and unmatched modularity. The system also provides for proximal, distal and total humeral reconstruction as well as customization in a standard line offering.

- Three-piece modular proximal construct replaces 50–160mm in 10mm increments
- Adjustable retroversion: 40 degrees +/- 10 degrees for the 6.5 and 8.5mm diameters, and 40 degrees +/- 5 degrees for the 10.5 and 12.5mm diameters
- Circumferential PPS® Porous Plasma Spray on the ledge of the stems provides for optimal biologic fixation
- Four anatomically-tapered stem lengths (75, 100, 150 and 200mm) in four diameters (6.5, 8.5, 10.5 and 12.5mm) for enhanced coverage of the humeral canal geometry
- Soft tissue attachment sleeves offer medial fins with suture holes for reattachment of the pectoralis major, latissimus dorsi, teres major and/or the lateral head of the triceps brachii
- Lateral nubs with suture holes may be used to reattach the deltoid
- Eleven bi-angular head sizes and five extended articulations
- Three-piece modular distal construct utilizes Biomet’s Discovery™ Elbow system
- Proximal and distal constructs can be coupled with a 100mm segment for total humeral replacements
OSS™ IM Total Femur System

The OSS™ IM Total Femur System allows the surgeon to maintain much of the soft tissue attachments along the mid-shaft of the femur, while utilizing the expansive line of OSS™ distal femoral and tibial implants to address each patient’s specific needs.

- Proximal construct compatible with either a Modular Reach® or modular calcar implant
- Overall construct lengths are available from 35 to 45cm, in 1cm increments*
- May be used with any of the OSS™ RS or OSS™ distal femoral implants**
- Each IM total femoral rod features a 14mm diameter

*Combining a 3cm OSS™ resurfacing femur and a 45B calcar body

**Use of the other OSS™ distal femoral options will increase overall construct length
The Meta-400™ Hip System is a treatment option for metastatic patients who desire pain relief and mobility in order to preserve their quality of life. These components allow the surgeon the intraoperative flexibility to use the stem as an endoprosthesis, bi-polar or for total hip arthroplasty.

- Interlok® 10 x 400mm stem incorporates a distal anterior bow for an anatomical fit within the femur
- Stem’s sizing rationale maximizes bone preservation and prophylactic stabilization of the entire femur
OSS™ Modular Arthrodesis System

The OSS™ Modular Arthrodesis Nail System is an FDA-cleared supplemental component offering that is compatible with OSS™ diaphyseal segments and stems. Commonly used in knee fusions, as well as intercalary metaphyseal replacements, the system is available in a variety of construct lengths to accurately match today’s patient population.

- Allows for implantation without having to “hop” the stem taper
- Collar lengths are available in both 1 and 3cm increments
- Minimum replacement construct is 8.5cm utilizing 1cm collars on each end
- Minimum replacement construct is 12cm utilizing 3cm collars on each end
- Collars are available in 0, 5 and 7 degree options to ensure an anatomical fit for each patient
In today’s orthopedic market, complex reconstructive cases or extreme variations in anatomy may require the development of an implant specifically designed to meet one patient’s needs. Since its inception in 1977, the PMI® Patient-matched Implant department has reinforced Biomet’s foundation of solid engineering to address the most complicated cases of bone loss and deformity. Using CT, X-ray or MRI data, the PMI® team is able to address complex cases in an expedited manner. Its unique union of technology and personal attention allows surgeons and patients to benefit from the most advanced orthopedic designs available.

- Primary implants, revision cases, extremities and oncology
- Three to four week lead time upon design approval with an accelerated response for oncology patients
- Implant creation through 3-D imaging and CAD/CAM technology
- Computer controlled machining for dimensional precision
- Patented design process for CT-generated implants

Many custom implant designs are created from the information gained from a patient’s CT scan. Preferred CT scan protocols may be accessed by visiting: www.biomet.com/orthopedics/PMI/ctscan.cfm
Total scapula
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Triflange Custom Acetabular Component

Severe cases of acetabular bone loss often require an implant to specifically match the patient’s anatomy. The Triflange Custom Acetabular Component offers a unique design and anatomical fit and features a PPS® Porous Plasma Spray coated bone—implant interface that incorporates proven RingLoc® locking technology.¹⁻³ Hydroxyapatite coating is also available upon surgeon request.

• Designed and manufactured by Biomet’s PMI® department
• Over 1,000 custom Triflange components implanted worldwide
• Design provides for the restoration of the patient’s anatomic hip center
• RingLoc®+ locking mechanism allows for the removal of acetabular liners
• May be used in conjunction with any commercially available femoral component
• Patient proposals delivered within 72 hours
• Customized CT implant experience since 1990
Biomet’s expandable devices (Non-modular Clip, Modular Clip and Non-modular Screw versions) are available in reduced and standard profiles, each compatible with the OSS™ RS, OSS™ and Compress® devices. They incorporate simple instrumentation to ensure ease of use.

• The Non-modular Clip implants feature a minimum resection of 14cm, and increase through a 20cm resection in 1cm increments
  - Expansion length is dependant on the chosen implant: expansion on the 14cm device is 3cm, while expansion of the 20cm implant is 9cm

• The Modular Clip implants feature a minimum resection of 20cm, and increase through a 27cm resection in 1cm increments
  - Expansion length is dependant on the chosen implant: expansion on the 20cm device is 3cm, while expansion of the 27cm implant is 10cm

• Non-modular Screw expandables feature a minimum resection of 16cm, and increase through a 26cm resection in 1cm increments
  - Expansion in this design is infinitely variable up to the limit of each device: expansion on the 16cm device is 3cm, while expansion of the 26cm implant is 10cm

• Compress® device may be used for internal fixation for any of the distal femoral expandables

• All expandables utilize OSS™ tibial components

Non-modular Screw expandable is pictured with the Compress® device
References


Biomet manufactures patient-matched implants (“PMI”) in order to assist surgeons in the treatment of patients with unique clinical situations that cannot be treated with standard-line products. Mechanical testing, engineering data and clinical test results are often unavailable for such devices. Consequently, the mechanical integrity of such devices cannot be validated. Surgeons should understand, accept and inform their patients about the additional risks associated with PMI devices.

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