

## Acetabular Wedge Augment System

### Overview

Restoration Acetabular Wedge Augments, united with Tritanium, Trident, MDM and X3 technologies, is an evolutionary advantage in Total Hip Arthroplasty



## Design Rationale

### Material

The Restoration Acetabular Wedge Augments are manufactured from patented Tritanium Advanced Fixation Technology. Tritanium is created using commercially pure Titanium (CPTi) - a biologically compatible material. The Titanium matrix, resulting in a porous bulk foam structure, closely resembles trabecular bone (Figure 1).

Wedge Augment material characteristics include:

- Average Porosity: 63%
- Coefficient of friction: 1.01

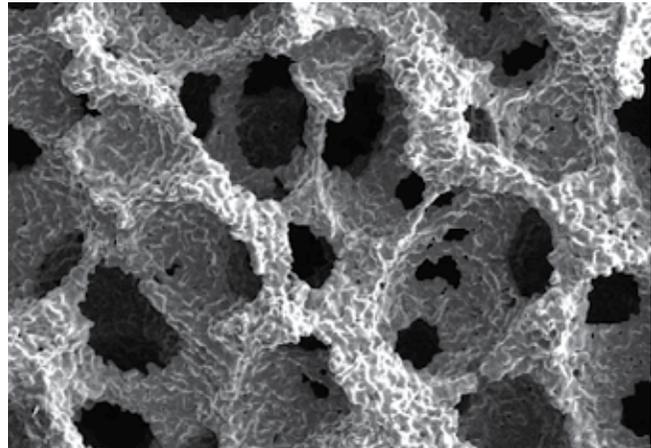


Figure 1: Magnified view of Tritanium matrix

### Ancillary Fixation

Each Wedge Augment is designed to optimize the number of screw hole options and screw placement to provide enhanced initial stability of the augment. Each screw hole allows for a varying degree of angulation, up to 18°, to help achieve purchase with good bone. Either GAP (2080-00XX) or Osteolock (5260-5-0XX) 6.5mm screws can be used to obtain rigid fixation of the Wedge Augment against host bone.

Wedge Augment System  
Instrumentation

Instrumentation

Ease of Use

The Restoration Wedge Augment instruments, encompassed in a single tray, are simple and easy to use for trialing and implantation. The system is streamlined to include Wedge Augment Trials and a small number of Core Instruments for procedural simplification. The Wedge Augment Trials mimic the geometry of the implants and are color-coded according to OD size. Each trial has the same screw hole configuration as the implant to serve as a visual aid for the location of screws.

Simplified Placement

The Restoration Acetabular Augment system was designed with provisions for Kirschner Wires (K-wires) to simplify the placement of the trials and to help the surgeon replicate trial positioning with the implant.



Final Construct



Use of K-wires to place Restoration Acetabular Wedge Augment



Restoration Acetabular Wedge Augment Trials

Wedge Augment System

Features

Wedge Features

- Titanium bulk foam
- Range of OD sizes and thickness for spectrum of defects
- Optimized screw holes
- K-Wire holes for simplified placement

Product Specifications

The Wedge Augments are offered in 18 different sizes consisting of six outer diameter (OD) sizes. The OD sizes range from 46mm to 66mm in 4mm increments. The corresponding inner diameter (ID) for each size is 2mm larger than the OD. For each wedge augment, there are three thickness options. See Table.

Restoration Acetabular Wedge Augment Specifications				
Catalog #	Outer Diameter (mm)	Inner Diameter (mm)	Thickness (mm)	No. of Screw Holes
5096-4615	46	48	15	3
5096-4620	46	48	20	4
5096-4625	46	48	25	4
5096-5015	50	52	15	3
5096-5020	50	52	20	4
5096-5025	50	52	25	4
5096-5415	54	56	15	4
5096-5420	54	56	20	6
5096-5425	54	56	25	6
5096-5815	58	60	15	6
5096-5820	58	60	20	6
5096-5825	58	60	25	6
5096-6215	62	64	15	6
5096-6220	62	64	20	8
5096-6225	62	64	25	8
5096-6615	66	68	15	6
5096-6620	66	68	20	8
5096-6625	66	68	25	8

