



# restor3d Hip System

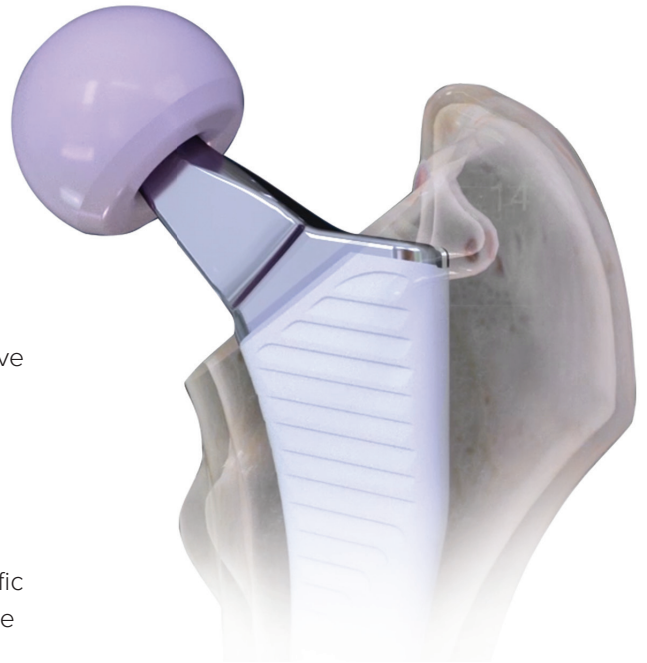
Patient-Specific Hip Replacement

restor3d

[www.restor3d.com](http://www.restor3d.com)



# Introducing the restor3d<sup>®</sup> Hip System



The restor3d Hip System is designed exclusively from a preoperative CT scan to provide patient-specific implant sizing, positioning, neck angle, anteversion and offset. The customized manufacturing process allows surgeons to modify the surgical plan and adjust these parameters. Our comprehensive preoperative plan, iView<sup>®</sup>, provides surgeons with extensive information so that they may be better prepared prior to entering the operating room. Patient-specific iJigs<sup>®</sup> and guides facilitate placement of the implants and streamline procedural efficiency in the operating room, providing more confidence than ever before.

## No compromises, no surprises

Prior to case, the surgeon will receive the iView to review and make changes to if necessary. Once the plan is approved, restor3d will begin manufacturing the patient-specific instrumentation and femoral stem.

Competitive systems use 2D planning for implant sizing and positioning which can lead to miscalculations. Our 3D CAD process is based on CT images of individual patient anatomy. First the acetabular cup location and size is planned along with the native femoral head size and location. Then the stem body is sized based on the femoral canal fit. Once all of these variables have been identified, the patient-specific femoral neck connects the stem to the planned femoral head, restoring the center of acetabular rotation specific to the patient.

The surgeon is provided a hard copy of the final surgical iView, patient-specific implants, and disposable iJigs to be utilized during the procedure.

Leg Length	5.50	Start
Offset	0.00	None

Leg Length	Baseline	Manual Adjustment	Total
Leg Length	0.7	0.0	0.7
Offset	0.0	0.0	0.0

Leg Length	5.50	Start
Offset	0.00	None

Cap Size	5.2 mm
Inclination Angle	62.7
Anteversion Angle	20.1
Stem Size	8
Femoral Version	34.0*
Resection (above UZ)	10.0 mm
GT to Shoulder	18.6 mm
Combined Version	34.0*

The iView provides comprehensive insight into the patient's anatomy

## Patient-specific 3D planning

The patient's CT scan is converted into a digitized 3D computer model of the diseased joint, allowing the surgeon to make adjustments based on individual anatomy.

### Proprietary imaging software drives the implant design

When the order is placed, the surgeon will be able to make critical implant decisions like a collared or collarless stem, head material and size, and if additional leg length or offset if desired. The iView shows the position of implants and associated dimensions. Upon review, you can alter the leg length, offset, and cup placement (anteversion, inclination, medial or superior translation), as long as the changes fit within restor3d's planning parameters. Upon your approval of the final plan, the design moves into production in order to manufacture the patient-specific hip.

## Unique, sterile surgical tools



### Two-stage Disposable Reamers

Provide efficient and accurate reaming to a controlled depth for each case and eliminate the need for sequential reaming.



### Bone Models

Replicates the patient's anatomy and can be used intraoperatively as a reference.



### Acetabular iJigs

Guide the reaming process to achieve desired cup medialization, inclination, and anteversion.

## 3D planning advantages

### 1 Stem Design

The femoral stem size is selected and preoperatively planned to fit the patient's femoral canal and guides fit and position.

### 2 Cup Placement

The acetabular cup is sized and the position is preoperatively planned to match the patient's anatomy, restoring the native hip center of rotation. The iJigs work in conjunction with anatomic landmarks to enable the proper placement and orientation of the cup.

### 3 Patient-specific Neck

The femoral neck is designed to match the patient's neck length and anteversion, incorporating the cup center with the stem to restore total version of the hip joint.



### Femoral iJigs

Guide the neck cut and broaching orientation for the stem.



### Cup Positioning iJigs

Provides a visual check and guide for intraoperative positioning of the planned cup.

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