The Science of Simplicity

“The advanced features of the CORAIL® Stem, and its bone-preserving surgical technique, have made it a great choice for minimally invasive hip surgery. More than thirty years ago, we began a revolution with the use of HA in orthopaedics. Today we face an exciting new era, and we look forward with confidence in sharing continued success with the world’s orthopaedic community.”

ARTRO Group - Design Surgeon Team, Clinique d’Argonay
International Visitation Centre - Annecy, France

US Surgeon Team
James Caillouette, MD; Charles R. Clark, MD; Mark Froimson, MD;
Jonathan Garino, MD; William Lanzer, MD; Joel Matta, MD; Sam Sydney, MD
Multiple offset options aiming to restore hip biomechanics

Tapered neck geometry and ARTICUL/EZE® Hip
Taper designed to increase range of motion

Low-profile lateral shoulder design enables easy insertion in reduced incision techniques, including the anterior approach

Available in collared and non-collared options

Step geometry is designed to convert hoop stresses to compressive loads

Vertical/horizontal grooves designed to provide rotational and axial stability

Proprietary HA coating

“I’ve used the CORAIL since 1998 and with its easy-to-use surgical technique, choose to use it on many types of patients, including those with osteopenia and in hemiarthroplasty cases for femoral neck fracture treatment.”

Jonathan Garino, MD - Philadelphia, Pennsylvania
The CORAIL Stem stepped geometry is oriented to reduce shear forces and improve compression loading in host cancellous bone.
“I find the CORAIL Stem design and HA coating provides initial stability for my patients.”

William Lanzer, MD - Seattle, Washington
Enhanced Biomechanics

Short Neck, Standard Offset, and High Offset stems are available in both Collarless and Collared options to provide surgeons with options based on their preference.

High offset options add +7mm of offset through direct laterilization to restore hip biomechanics in a wider range of patients.

Coxa Vara High Offset option is available in a Collared version only. Coxa vara collared neck option offers an increased offset and varus neck angle for femoral restoration and proper soft-tissue tensioning of varus neck angled patients.

Collared stems are available to control subsidence and add rotational stability in patients with osteopenic bone.
“I use the CORAIL because of its ease of implantation and long track record. Used with the PINNACLE® Acetabular Cup System, it lets me select multiple options in order to optimize hip biomechanics in my patients.”

Charles R. Clark, MD - Iowa City, Iowa

Neck Enhancements

Narrowed anterior-posterior neck dimensions and optimized ARTICUL/EZE Taper increase range of motion and reduce risk of mechanical impingement.

ARTICUL/EZE 12/14 Taper is fully captured by all nonskirted ARTICUL/EZE Heads, eliminating the creation of a false skirt due to trunnion protrusion.

Polished neck is designed to generate less wear debris secondary to prosthetic impingement.
Bone Preserving Philosophy

Compaction Broaching

A philosophy of respecting and preserving patient anatomy, biology and physiology are key to the CORAIL Stem success.

Compacting and compacting the cancellous bone during the broaching process maintains the medullary canal endosteum, preserving blood supply to the bone and the bone/implant interface.

Compaction broaching creates an excellent bone/implant contact ratio and high pullout strength, and it increases prosthetic torsional stability. ³

Compaction broaching preserves the blood supply to promote healing and growth of bone around the implant, and this technique has shown excellent long-term survivorship. ²,³
“Compaction broaching coupled with CORAIL creates ‘silent’ hip replacement. We haven’t seen any adverse, long-term radiographic changes.”

James Caillouette, MD - Newport Beach, California

“I find the CORAIL Stem and instrumentation facilitate ease of insertion using an anterior approach.”

Joel Matta, MD - Los Angeles, California
The fully HA-coated CORAIL Total Hip System can be used in a variety of types and sizes of femora.

**Type A:** Champagne Flute

**Type B:** Proportional Shape

**Type C:** Stovepipe

“I find it to be reproducible and easy to implant, and use it on many different types of patients.”

*Sam Sydney, MD - Baltimore, Maryland*

“After independently reviewing the ARTRO Group CORAIL data in 1998, I decided to try the CORAIL Stem. I’m pleased with the results and now use it on many types of patients.”

*Mark Froimson, MD - Cleveland, Ohio*
Surgical Technique

Step 1: Neck Osteotomy

Step 2: Femoral Canal Preparation

Step 3: Offset Selection & Head Trialing

Step 4: Femoral Component Insertion
References:


Limited Warranty and Disclaimer: DePuy Synthes Joint Reconstruction products are sold with a limited warranty to the original purchaser against defects in workmanship and materials. Any other express or implied warranties, including warranties of merchantability or fitness, are hereby disclaimed.

WARNING: In the USA, this product has labeling limitations. See package insert for complete information.

CAUTION: USA Law restricts these devices to sale by or on the order of a physician.

Not all products are currently available in all markets.