

MODULAR ENDO HEADS

SELF-CENTERING
BIPOLAR/MODULAR
CATHCART UNIPOLAR



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SURGICAL TECHNIQUE

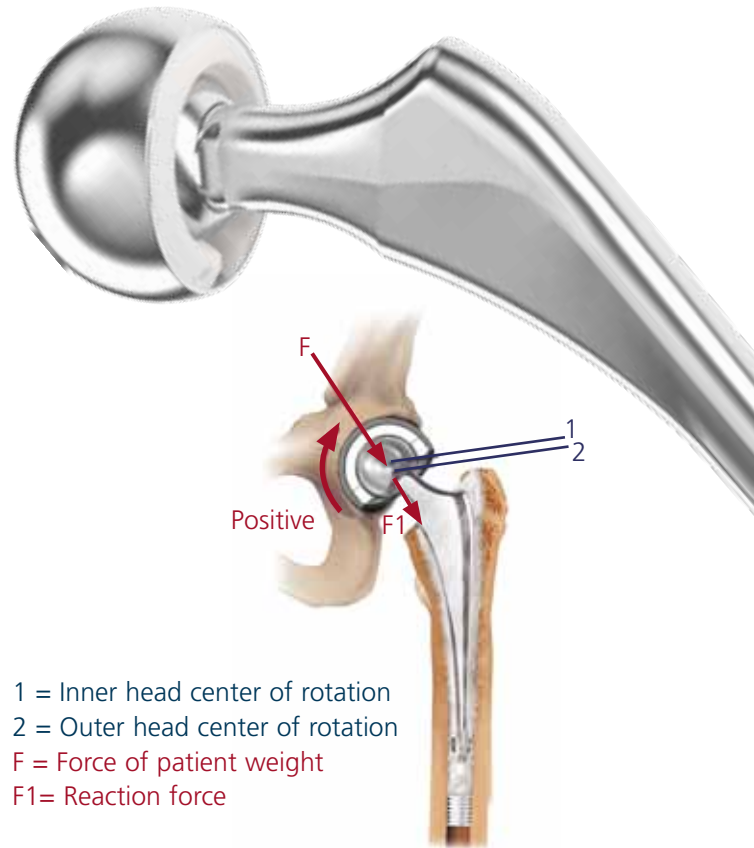
Self-Centering Bipolar

- Clinically proven since 1984¹
- Ease of assembly
- Positive eccentricity
- Available for 28 or 22.225mm femoral heads
- Accurate fit with sizes ranging from 39-65mm*

*39, 40, 63 and 65mm sizes are available by special order

Positive Eccentricity and Its Effect on Wear

Not all bipolars work like the Self-Centering Bipolar. The difference is positive eccentricity. As downward force is applied, the centers align themselves to the proper anatomic position and proper load distribution. In terms of wear, the bipolar's dual articulation uses primary internal articulation to help reduce secondary acetabular articulation and associated acetabular wear.



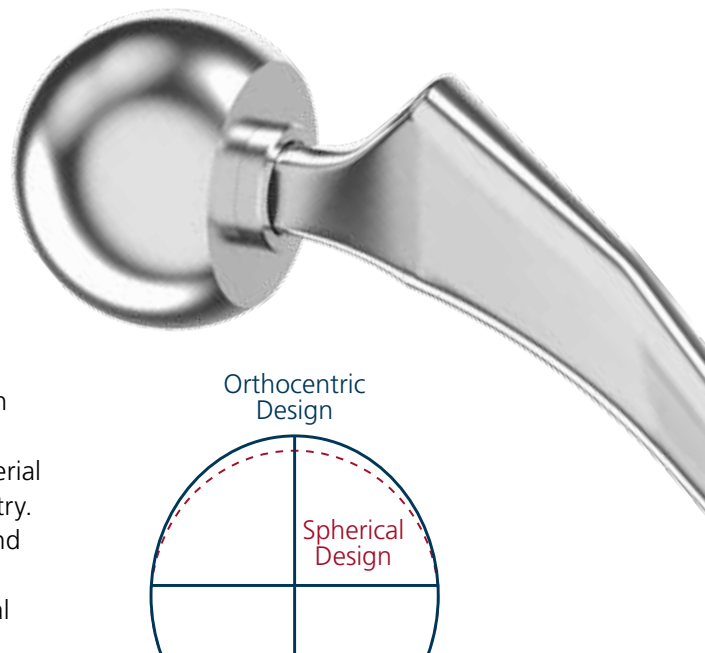
1 = Inner head center of rotation
2 = Outer head center of rotation
F = Force of patient weight
F1 = Reaction force

Modular Cathcart Unipolar

- Clinically proven since 1990¹
- Neck length adjustment with tapered sleeves
- Ease of assembly
- Orthocentric design helps preserve acetabular cartilage
- Accurate fit with sizes ranging from 41-60mm

Orthocentric Design

The design of the Modular Cathcart Unipolar was derived from an anatomic study of the femur.² Since the natural femoral head is nonspherical, the Modular Cathcart Unipolar design features material added to the apex of the sphere, creating an orthocentric geometry. This design is intended to mimic normal femoral head anatomy and help maintain the circulation of the synovial fluid. This circulation helps to lubricate and nourish the articular cartilage during normal weightbearing activities.



* Patent #5,888,211

RESPONDING TO THE SURGEON

The Self-Centering Bipolar and Modular Cathcart Unipolar Endo Heads add versatility to DePuy Synthes' hip fracture line. You asked for ease of assembly and flexibility in using the heads with a variety of stems, and we responded.

We also added simple modular endo head instrumentation with a variety of trialing options to help provide the best fit. "Quality Without Compromise" is the hallmark of our hip fracture line and, together with exceptional service, it's proof that we are committed to meeting your orthopaedic needs.



Patented trial heads allow easy intraoperative trialing.*

The self-centering Bipolar and Modular Cathcart Unipolar Heads are compatible with a wide range of DePuy Synthes cemented and cementless hips, including CORAIL® Hip System (cemented and cementless), C-STEM® AMT and AUTOBLOQUANTE®.³



*Patent 3. DVE- 00160 -TA

Ease of Use in Surgery

Very little pressure is required to snap the bipolar insert over the femoral head. This easy assembly does not affect separation strength because the Self-Centering Bipolar exhibits superior pullout strength (1856 N).¹

When combined with the wide range of DePuy Synthes femoral components and the surgeon's preferred technique, the Self-Centering Bipolar can be a cost-effective and efficient approach to femoral neck fractures and avascular necrosis.

Modular Tapered Spacers

Neck length adjustment is achieved with the use of tapered spacers. The tapered spacers make the Modular Cathcart Unipolar a cost effective option with no compromise in patient fit.



ASSEMBLY

Self-Centering Bipolar

Step 1
After cleaning and drying the femoral neck trunnion, impact the appropriate femoral head onto the stem with the femoral head impactor.



Step 2
Snap the polyethylene liner over the implanted femoral head.



Step 3
Place the shell over the liner and snap it into its locked position. An audible click will be heard when the locking ring snaps into place.



Step 4
Check the interlock of the components, and reduce the bipolar head into the acetabulum.

Modular Cathcart Unipolar

Step 1
After cleaning and drying the femoral neck trunnion, place the tapered spacer onto it using firm manual pressure.



Step 2
Clean and dry the outer portion of the tapered spacer and place the unipolar head onto it.



Step 3
Impact the unipolar head onto the tapered spacer using the femoral head impactor.



Step 4
Check the interlock of the components, and reduce the unipolar head into the acetabulum.

ORDERING INFORMATION

Modular Cathcart Unipolar Implants

Unipolar Heads

Cat. No.	Size
1363-41-000	41mm
1363-42-000	42mm
1363-43-000	43mm
1363-44-000	44mm
1363-45-000	45mm
1363-46-000	46mm
1363-47-000	47mm
1363-48-000	48mm
1363-49-000	49mm
1363-50-000	50mm
1363-51-000	51mm
1363-52-000	52mm
1363-53-000	53mm
1363-54-000	54mm
1363-56-000	56mm
1363-58-000	58mm
1363-60-000	60mm

Modular Cathcart Unipolar Tapered Spacers

Tapered Spacers, 12/14 ARTICUL/EZE

Cat. No.	Size
1363-08-000	-3mm
1363-10-000	+0mm
1363-12-000	+5mm
1363-14-000	+10mm

Tapered Spacers, 10/12 Taper

Tapered Spacers, 12/14 ARTICUL/EZE

Cat. No.	Size
1363-34-000	+0mm
1363-35-000	+5mm
1363-36-000	+10mm

Self-Centering Bipolar Implants

28mm I.D. Bipolar Heads

Cat. No.	Size
1035-39-000*	39mm
1035-40-000*	40mm
1035-41-000	41mm
1035-42-000	42mm
1035-43-000	43mm
1035-44-000	44mm
1035-45-000	45mm
1035-46-000	46mm
1035-47-000	47mm
1035-48-000	48mm
1035-49-000	49mm
1035-50-000	50mm
1035-51-000	51mm
1035-52-000	52mm
1035-53-000	53mm
1035-54-000	54mm
1035-55-000	55mm
1035-56-000	56mm
1035-57-000	57mm
1035-59-000	59mm
1035-61-000	61mm
1035-63-000*	63mm
1035-65-000*	65mm

22.225mm I.D. Bipolar Heads

Cat. No.	Size
1037-39-000	39mm
1037-40-000	40mm
1037-41-000	41mm
1037-42-000	42mm
1037-43-000	43mm
1037-44-000	44mm
1037-45-000	45mm
1037-46-000	46mm
1037-47-000	47mm
1037-48-000	48mm
1037-49-000	49mm
1037-50-000	50mm
1037-51-000	51mm
1037-52-000	52mm
1037-53-000	53mm
1037-54-000	54mm
1037-55-000	55mm
1037-56-000	56mm
1037-57-000	57mm

Modular Endo Head Trials

Trial Shells

Cat. No.	Size
2055-39-000*	39mm
2055-40-000*	40mm
2055-41-000	41mm
2055-42-000	42mm
2055-43-000	43mm
2055-44-000	44mm
2055-45-000	45mm
2055-46-000	46mm
2055-47-000	47mm
2055-48-000	48mm
2055-49-000	49mm
2055-50-000	50mm
2055-51-000	51mm
2055-52-000	52mm
2055-53-000	53mm
2055-54-000	54mm
2055-55-000	55mm
2055-56-000	56mm
2055-57-000	57mm
2055-58-000	58mm
2055-59-000	59mm
2055-60-000	60mm
2055-61-000	61mm
2055-63-000*	63mm
2055-65-000*	65mm

Trial Spacers, 12/14 ARTICUL/EZE

Cat. No.	Size
2038-16-000	-3mm
2038-18-000	+0mm
2038-20-000	+5mm
2038-22-000	+10mm

Trial Spacers, 10/12 Taper

Cat. No.	Size
2038-04-000	+0mm
2038-06-000	+5mm
2038-08-000	+10mm

Modular Endo Head Trials

Trial Shells

Cat. No.	Size
2055-39-000*	39mm
2055-40-000*	40mm
2055-41-000	41mm
2055-42-000	42mm
2055-43-000	43mm
2055-44-000	44mm
2055-45-000	45mm
2055-46-000	46mm
2055-47-000	47mm
2055-48-000	48mm
2055-49-000	49mm
2055-50-000	50mm
2055-51-000	51mm
2055-52-000	52mm
2055-53-000	53mm
2055-54-000	54mm
2055-55-000	55mm
2055-56-000	56mm
2055-57-000	57mm
2055-58-000	58mm
2055-59-000	59mm
2055-60-000	60mm
2055-61-000	61mm
2055-63-000*	63mm
2055-65-000*	65mm

Trial Spacers, 12/14 ARTICUL/EZE

Cat. No.	Size
2038-16-000	-3mm
2038-18-000	+0mm
2038-20-000	+5mm
2038-22-000	+10mm

Trial Spacers, 10/12 Taper

Cat. No.	Size
2038-04-000	+0mm
2038-06-000	+5mm
2038-08-000	+10mm

*Special order only

References

1. DePuy Synthes Data. Report WR-990054.
2. Cathcart, R.F.: AAOS, 1972.
3. DePuy Synthes Data. Report DVE -00160- TA



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