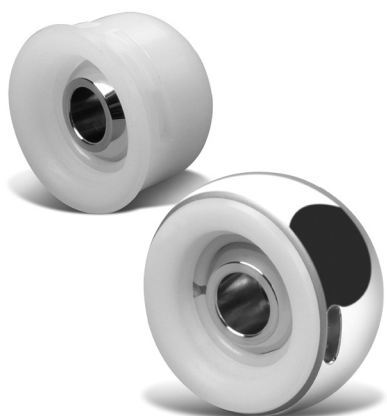




MultiPolar[®] Bipolar Cup

Surgical Technique



Providing simplified assembly for increased efficiency



Simple Assembly and Versatility

Simple assembly provides greater efficiency and speed in procedures. The *MultiPolar Cup* can be used with a variety of femoral heads – 22mm, 26mm, 28mm, 32mm – and stems to meet surgeon preference. Extra large cup sizes (up to 72mm outer diameter) are available for special anatomical needs.

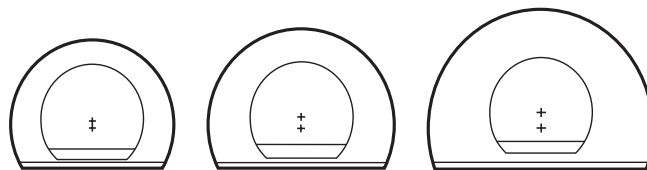
Maximum Femoral Head Security

An innovative polyethylene locking ring provides optimal capture of the femoral head. In case of revision surgery, just one instrument unlocks the cup and liner.



Proportional Center of Rotation

With the *MultiPolar Cup* design, the offset between the shell center of rotation and the femoral head center of rotation is gradually increased to maintain consistent and maximum coverage of the femoral head regardless of cup size.



Femoral Head Size = 28mm
Metal Shell Sizes = 44mm, 50mm, 60mm

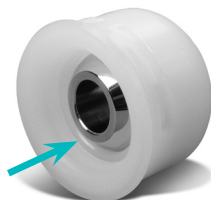
Multiple offsets provide proportional center of rotation.

Assembly

1 Preassembly (Back Table) Technique

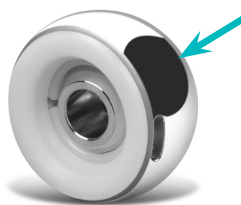
1 Insert Femoral Head

Seat the femoral head securely in the polyethylene liner. The inner split ring will expand to allow seating of the femoral head and then contract to capture the femoral head. You will hear a “popping” sound.



2 Lock on Metal Shell

Prior to placing the metal shell over the polyethylene liner, ensure that the metal retaining ring freely rotates by moving the metal tabs. If the ring does not move, inspect it for damage. Do not use a metal shell that has a damaged locking ring. In the event that the locking ring is not damaged but does not rotate freely, rotate the remaining ring into the correct position, as pictured below, with both tabs positioned approximately 2.5mm apart in the slot window.

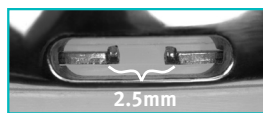


Snap the metal shell over the polyethylene liner and the captured femoral head.

You will hear a “click” as the metal retaining ring locks the metal shell onto the polyethylene liner. Once locked, it will not be possible to separate the metal shell from the polyethylene liner, or the entire component from the captured femoral head, without the use of the disassembly instrument.



Improper tab position



Proper tab position

3 Position Assembly

Position the cup/head assembly over the Morse-type taper of the femoral component. Impact the *MultiPolar Cup*/femoral head on the femoral component neck. Three sharp blows with the *VerSys®* Head Impactor will provide secure locking of the femoral head to the Morse-type taper.



The construct is now ready for final reduction.

1 Intraoperative Technique

1 Assemble Head

Assemble head onto the Morse-type taper of the femoral component. Three sharp blows to the head with the *VerSys* Head Impactor will securely lock the femoral head.

2 Snap on Liner

Snap the polyethylene liner over the femoral head. You will hear a “popping” sound as the inner split ring captures the femoral head and seats it in the polyethylene liner.



3 Lock on Metal Shell

Prior to placing the metal shell over the polyethylene liner, ensure that the metal retaining ring freely rotates by moving the metal tabs. If the ring does not move, inspect it for damage. Do not use a metal shell that has a damaged locking ring. In the event that the locking ring is not damaged but does not rotate freely, rotate the retaining ring into the correct position, as pictured below, with both tabs positioned approximately 2.5mm apart in the slot window.

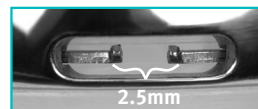
Snap the metal shell onto the polyethylene liner. You will hear a “click” as the metal retaining ring locks the metal shell onto the polyethylene liner. Once locked, it will not be possible to separate the metal shell from the polyethylene liner, or the entire component from the captured femoral head, without the use of the disassembly instrument. In addition, the metal retaining ring should easily move from side to side with an approximately 2.5mm gap between the tabs.



The construct is now ready for final reduction.



Improper tab position



Proper tab position

Disassembly (If Necessary)

1 Spread Tabs

Insert the *MultiPolar Cup* disassembly instrument in the retaining ring opening in the slot at the bottom of the shell. Spread the tabs and expand the metal retaining lock ring.



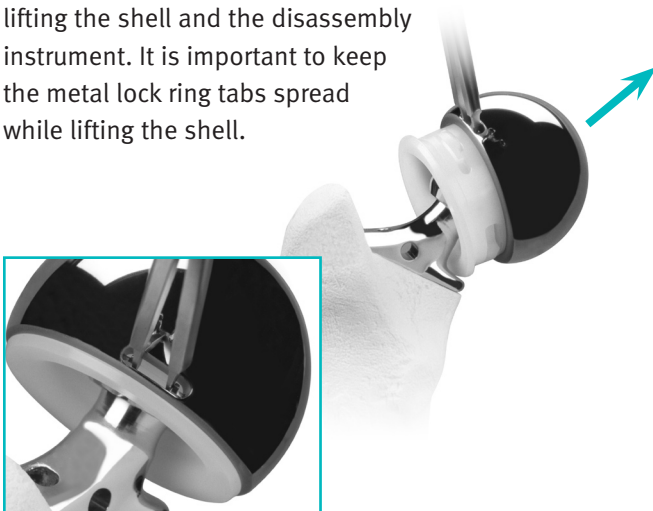
3 Remove Cup

Remove the polyethylene liner from the femoral head.



2 Remove Shell

Separate the shell from the liner by simultaneously lifting the shell and the disassembly instrument. It is important to keep the metal lock ring tabs spread while lifting the shell.



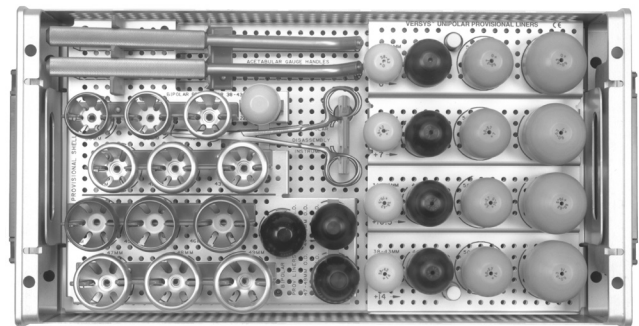
MultiPolar Bipolar Cup Sizing Chart

OD (mm)	Bipolar Metal Shell Cat. No.	UHMWPE Liner ID (Femoral Head Size)					
		22mm Cat. No.	26mm Cat. No.	28mm Cat. No.	32mm Cat. No.		
38	00-5001-038-00	00-5001-038-22					
39	00-5001-039-00	00-5001-039-22					
40	00-5001-040-00	00-5001-040-22	00-5001-040-26				
41	00-5001-041-00						
42	00-5001-042-00	00-5001-042-22	00-5001-042-26				
43	00-5001-043-00						
44	00-5001-044-00	00-5001-044-22	00-5001-044-26	00-5001-044-28			
45	00-5001-045-00						
46	00-5001-046-00						
47	00-5001-047-00	00-5001-047-22	00-5001-047-26	00-5001-047-28	00-5001-047-32		
48	00-5001-048-00						
49	00-5001-049-00						
50	00-5001-050-00	00-5001-050-22	00-5001-050-26	00-5001-050-28	00-5001-050-32		
51	00-5001-051-00						
52	00-5001-052-00						
53	00-5001-053-00	00-5001-053-22	00-5001-053-26	00-5001-053-28	00-5001-053-32		
54	00-5001-054-00						
55	00-5001-055-00						
57	00-5001-057-00	00-5001-057-22	00-5001-057-26	00-5001-057-28	00-5001-057-32		
58	00-5001-058-00						
60	00-5001-060-00	00-5001-060-22	00-5001-060-26	00-5001-060-28	00-5001-060-32		
62	00-5001-062-00						
64	00-5001-064-00		00-5001-064-26	00-5001-064-28	00-5001-064-32		
66	00-5001-066-00						
68	00-5001-068-00		00-5001-068-26	00-5001-068-28	00-5001-068-32		
70	00-5001-070-00						
72	00-5001-072-00		00-5001-072-26	00-5001-072-28	00-5001-072-32		

Instrumentation

Provisional shells, liners, and femoral heads are available for trial reduction and range of motion. Wide slots in the provisional shells provide visibility to ensure accurate implant size, placement, and seating.

Instruments provide maximum utilization, thus minimizing inventory.



Ordering Information

Multipolar Bipolar Metal Shell

Cat. No.	Description
00-5001-038-00	Bipolar Metal Shell, 38mm OD
00-5001-039-00	Bipolar Metal Shell, 39mm OD
00-5001-040-00	Bipolar Metal Shell, 40mm OD
00-5001-041-00	Bipolar Metal Shell, 41mm OD
00-5001-042-00	Bipolar Metal Shell, 42mm OD
00-5001-043-00	Bipolar Metal Shell, 43mm OD
00-5001-044-00	Bipolar Metal Shell, 44mm OD
00-5001-045-00	Bipolar Metal Shell, 45mm OD
00-5001-046-00	Bipolar Metal Shell, 46mm OD
00-5001-047-00	Bipolar Metal Shell, 47mm OD
00-5001-048-00	Bipolar Metal Shell, 48mm OD
00-5001-049-00	Bipolar Metal Shell, 49mm OD
00-5001-050-00	Bipolar Metal Shell, 50mm OD
00-5001-051-00	Bipolar Metal Shell, 51mm OD
00-5001-052-00	Bipolar Metal Shell, 52mm OD
00-5001-053-00	Bipolar Metal Shell, 53mm OD
00-5001-054-00	Bipolar Metal Shell, 54mm OD
00-5001-055-00	Bipolar Metal Shell, 55mm OD
00-5001-057-00	Bipolar Metal Shell, 57mm OD
00-5001-058-00	Bipolar Metal Shell, 58mm OD
00-5001-060-00	Bipolar Metal Shell, 60mm OD
00-5001-062-00	Bipolar Metal Shell, 62mm OD
00-5001-064-00	Bipolar Metal Shell, 64mm OD
00-5001-066-00	Bipolar Metal Shell, 66mm OD
00-5001-068-00	Bipolar Metal Shell, 68mm OD
00-5001-070-00	Bipolar Metal Shell, 70mm OD
00-5001-072-00	Bipolar Metal Shell, 72mm OD

Poly Liner Assembly - 22mm

Cat. No.	Description
00-5001-038-22	Liner Assembly, 38mm OD x 22mm ID
00-5001-039-22	Liner Assembly, 39mm OD x 22mm ID
00-5001-040-22	Liner Assembly, 40/41mm OD x 22mm ID
00-5001-042-22	Liner Assembly, 42/43mm OD x 22mm ID
00-5001-044-22	Liner Assembly, 44/45/46mm OD x 22mm ID
00-5001-047-22	Liner Assembly, 47/48/49mm OD x 22mm ID
00-5001-050-22	Liner Assembly, 50/51/52mm OD x 22mm ID
00-5001-053-22	Liner Assembly, 53/54/55mm OD x 22mm ID
00-5001-057-22	Liner Assembly, 57/58mm OD x 22mm ID
00-5001-060-22	Liner Assembly, 60mm OD x 22mm ID

Poly Liner Assembly - 26mm

Cat. No.	Description
00-5001-040-26	Liner Assembly, 40/41mm OD x 26mm ID
00-5001-042-26	Liner Assembly, 42/43mm OD x 26mm ID
00-5001-044-26	Liner Assembly, 44/45/46mm OD x 26mm ID
00-5001-047-26	Liner Assembly, 47/48/49mm OD x 26mm ID
00-5001-050-26	Liner Assembly, 50/51/52mm OD x 26mm ID
00-5001-053-26	Liner Assembly, 53/54/55mm OD x 26mm ID
00-5001-057-26	Liner Assembly, 57/58mm OD x 26mm ID
00-5001-060-26	Liner Assembly, 60/62mm OD x 26mm ID
00-5001-064-26	Liner Assembly, 64/66mm OD x 26mm ID
00-5001-068-26	Liner Assembly, 68/70mm OD x 26mm ID
00-5001-072-26	Liner Assembly, 72mm OD x 26mm ID

Poly Liner Assembly - 28mm

Cat. No.	Description
00-5001-044-28	Liner Assembly, 44/45/46mm OD x 28mm ID
00-5001-047-28	Liner Assembly, 47/48/49mm OD x 28mm ID
00-5001-050-28	Liner Assembly, 50/51/52mm OD x 28mm ID
00-5001-053-28	Liner Assembly, 53/54/55mm OD x 28mm ID
00-5001-057-28	Liner Assembly, 57/58mm OD x 28mm ID
00-5001-060-28	Liner Assembly, 60/62mm OD x 28mm ID
00-5001-064-28	Liner Assembly, 64/66mm OD x 28mm ID
00-5001-068-28	Liner Assembly, 68/70mm OD x 28mm ID
00-5001-072-28	Liner Assembly, 72mm OD x 28mm ID

Poly Liner Assembly - 32mm

Cat. No.	Description
00-5001-047-32	Liner Assembly, 47/48/49mm OD x 32mm ID
00-5001-050-32	Liner Assembly, 50/51/52mm OD x 32mm ID
00-5001-053-32	Liner Assembly, 53/54/55mm OD x 32mm ID
00-5001-057-32	Liner Assembly, 57/58mm OD x 32mm ID
00-5001-060-32	Liner Assembly, 60/62mm OD x 32mm ID
00-5001-064-32	Liner Assembly, 64/66mm OD x 32mm ID
00-5001-068-32	Liner Assembly, 68/70mm OD x 32mm ID
00-5001-072-32	Liner Assembly, 72mm OD x 32mm ID

Instrumentation

Kit. No.	Description
00-5003-099-84	<i>MultiPolar/Unipolar Complete Provisional Kit with VerSys Endo Heads</i> (Includes one each of the items listed below:)

Cat. No.	Description
00-5003-001-00	<i>MultiPolar Bipolar Cup Disassembly Instrument</i>
00-5003-002-00	<i>MultiPolar Bipolar Cup Acetabular Gauge Handle</i>
00-5003-038-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 38mm OD</i>
00-5003-039-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 39mm OD</i>
00-5003-040-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 40mm OD</i>
00-5003-041-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 41mm OD</i>
00-5003-042-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 42mm OD</i>
00-5003-043-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 43mm OD</i>
00-5003-044-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 44mm OD</i>
00-5003-045-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 45mm OD</i>
00-5003-046-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 46mm OD</i>
00-5003-047-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 47mm OD</i>
00-5003-048-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 48mm OD</i>
00-5003-049-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 49mm OD</i>
00-5003-050-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 50mm OD</i>
00-5003-051-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 51mm OD</i>
00-5003-052-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 52mm OD</i>
00-5003-053-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 53mm OD</i>
00-5003-054-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 54mm OD</i>
00-5003-055-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 55mm OD</i>
00-5003-057-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 57mm OD</i>
00-5003-058-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 58mm OD</i>
00-5003-060-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 60mm OD</i>
00-5003-062-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 62mm OD</i>
00-5003-063-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 63mm OD</i>
00-5003-064-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 64mm OD</i>
00-5003-066-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 66mm OD</i>
00-5003-068-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 68mm OD</i>
00-5003-070-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 70mm OD</i>
00-5003-072-60	<i>MultiPolar Cup/Unipolar Shell Provisional, 72mm OD</i>

Instrumentation (cont.)

Cat. No.	Description
00-5003-040-22	<i>MultiPolar Provisional Liner, 22mm ID, 38-43mm OD</i>
00-5003-044-22	<i>MultiPolar Provisional Liner, 22mm ID, 44-49mm OD</i>
00-5003-044-28	<i>MultiPolar Provisional Liner, 28mm ID, 44-49mm OD</i>
00-5003-047-32	<i>MultiPolar Provisional Liner, 32mm ID, 47-49mm OD</i>
00-5003-050-22	<i>MultiPolar Provisional Liner, 22mm ID, 50-58mm OD</i>
00-5003-050-28	<i>MultiPolar Provisional Liner, 28mm ID, 50-58mm OD</i>
00-5003-050-32	<i>MultiPolar Provisional Liner, 32mm ID, 50-58mm OD</i>
00-5003-060-22	<i>MultiPolar Provisional Liner, 22mm ID, 60mm OD</i>
00-5003-060-28	<i>MultiPolar Provisional Liner, 28mm ID, 60-72mm OD</i>
00-5003-060-32	<i>MultiPolar Provisional Liner, 32mm ID, 60-72mm OD</i>
00-5003-080-00	<i>MultiPolar Case</i>
00-5003-084-00	<i>VerSys Endo Provisional Head Tray</i>
00-7895-038-01	<i>VerSys Endo Provisional Liner, 38-43mm, +0</i>
00-7895-038-02	<i>VerSys Endo Provisional Liner, 38-43mm, +7</i>
00-7895-038-03	<i>VerSys Endo Provisional Liner, 38-43mm, +10.5</i>
00-7895-038-04	<i>VerSys Endo Provisional Liner, 38-43mm, +14</i>
00-7895-044-01	<i>VerSys Endo Provisional Liner, 44-49mm, +0</i>
00-7895-044-02	<i>VerSys Endo Provisional Liner, 44-49mm, +7</i>
00-7895-044-03	<i>VerSys Endo Provisional Liner, 44-49mm, +10.5</i>
00-7895-044-04	<i>VerSys Endo Provisional Liner, 44-49mm, +14</i>
00-7895-050-01	<i>VerSys Endo Provisional Liner, 50-57mm, +0</i>
00-7895-050-02	<i>VerSys Endo Provisional Liner, 50-57mm, +7</i>
00-7895-050-03	<i>VerSys Endo Provisional Liner, 50-57mm, +10.5</i>
00-7895-050-04	<i>VerSys Endo Provisional Liner, 50-57mm, +14</i>
00-7895-060-01	<i>VerSys Endo Provisional Liner, 60-63mm, +0</i>
00-7895-060-02	<i>VerSys Endo Provisional Liner, 60-63mm, +7</i>
00-7895-060-03	<i>VerSys Endo Provisional Liner, 60-63mm, +10.5</i>
00-7895-060-04	<i>VerSys Endo Provisional Liner, 60-63mm, +14</i>
Kit. No.	Description
00-5003-099-00	<i>MultiPolar/Unipolar Complete Provisional Kit with 6° Taper Endo Heads</i>



Please refer to package insert for complete product information, including contraindications, warnings, precautions and adverse effects.

Contact your Zimmer representative or visit us at www.zimmer.com

