

Trilogy[®]
ACETABULAR SYSTEM

ACETABULAR SYSTEM

Evolution Through Proven
Clinical Experience

*Harris/Galante
Porous Acetabular
Component*

HGP II Acetabular Cup

Trilogy Acetabular System



Evolution Through Proven Clinical Experience

The *Trilogy* Acetabular System evolved from the highly successful Harris/Galante Porous and HGP II Acetabular Cup Systems. The impressive 11-year history of these implants is documented in numerous published reports of clinical success in both primary and revision Total Hip Replacement (THR), as well as in various patient populations.

PRIMARY THR

- At 10-year average follow-up, Harris reported that in his cohort of 100 patients with the Harris/Galante Acetabular Component, none were revised for aseptic loosening, no component had migrated, and no component was radiographically loose.¹
- In Johnston's series of 131 consecutive hips at 8- to 9-years follow-up, no Harris/Galante Acetabular Component had been revised for aseptic loosening, and no component had migrated.²
- There was no evidence of cup loosening, no revisions were performed, and localized pelvic osteolysis was non-progressive and limited to 4% of hips in Goldberg's report on 125 hips with the Harris/Galante Cup at 7- to 11-years follow-up.³
- Latimer and Lachiewicz noted that no Harris/Galante Cup had been revised for loosening, and none were radiographically loose at 5- to 10-years follow-up, in their series of 136 primary hips.⁴
- Ten-year survivorship analysis of Galante's series of 204 Harris/Galante Cups revealed that the acetabular component had a 99%

chance of survival with revision or aseptic loosening as the end point. Osteolysis was noted in only 4% of cases.⁵

In a series of 264 Harris/Galante Cups implanted by eight surgeons, Bohm and Boshche reported that no acetabular components had been revised for aseptic loosening and there was no evidence of pelvic osteolysis at 11-years follow-up. The cumulative survival rate with removal as the end point was 98%.⁶

PRIMARY THR IN THE YOUNG

- Galante reported that in his series of Harris/Galante Porous Acetabular Components in the young patient (age less than 50), there were no revisions for aseptic loosening at 7- to 11-years follow-up. All reconstructions were radiographically stable. Acetabular osteolysis occurred in only 7.4% of cases. Using revision and loosening, 10-year survivorship of the acetabular reconstruction was 98.8%.⁷
- At 5- to 10-years follow-up, Dunkley et al. related that there was no evidence of loosening in their series of the Harris/Galante Cup in the young patient group (age 50 and below).⁸

REVISION THR

- In Galante's study of 138 acetabular revisions with the Harris/Galante Acetabular Component at 8 years mean follow-up, no cup was revised for aseptic loosening. Using an end point of loosening or revision, survival analysis showed a cumulative survival of 87% at 11 years.⁹

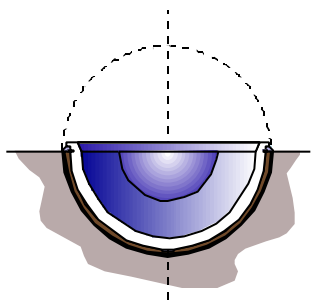
Anti-rotational tabs are designed to help reduce backside wear by securing the liner firmly in place.

Commercially pure titanium fiber metal is clinically proven to enhance fixation through bone ingrowth,¹⁻⁹ and is diffusion bonded to a Tivanium® Ti-6Al-4V Alloy substrate.

Full congruency between the liner and shell inhibits micromotion as the liner maintains integrity under load and stress.

Proprietary locking mechanism¹⁰ helps prevent dislocation of the liner from the shell, yet provides ease of disassembly when necessary.



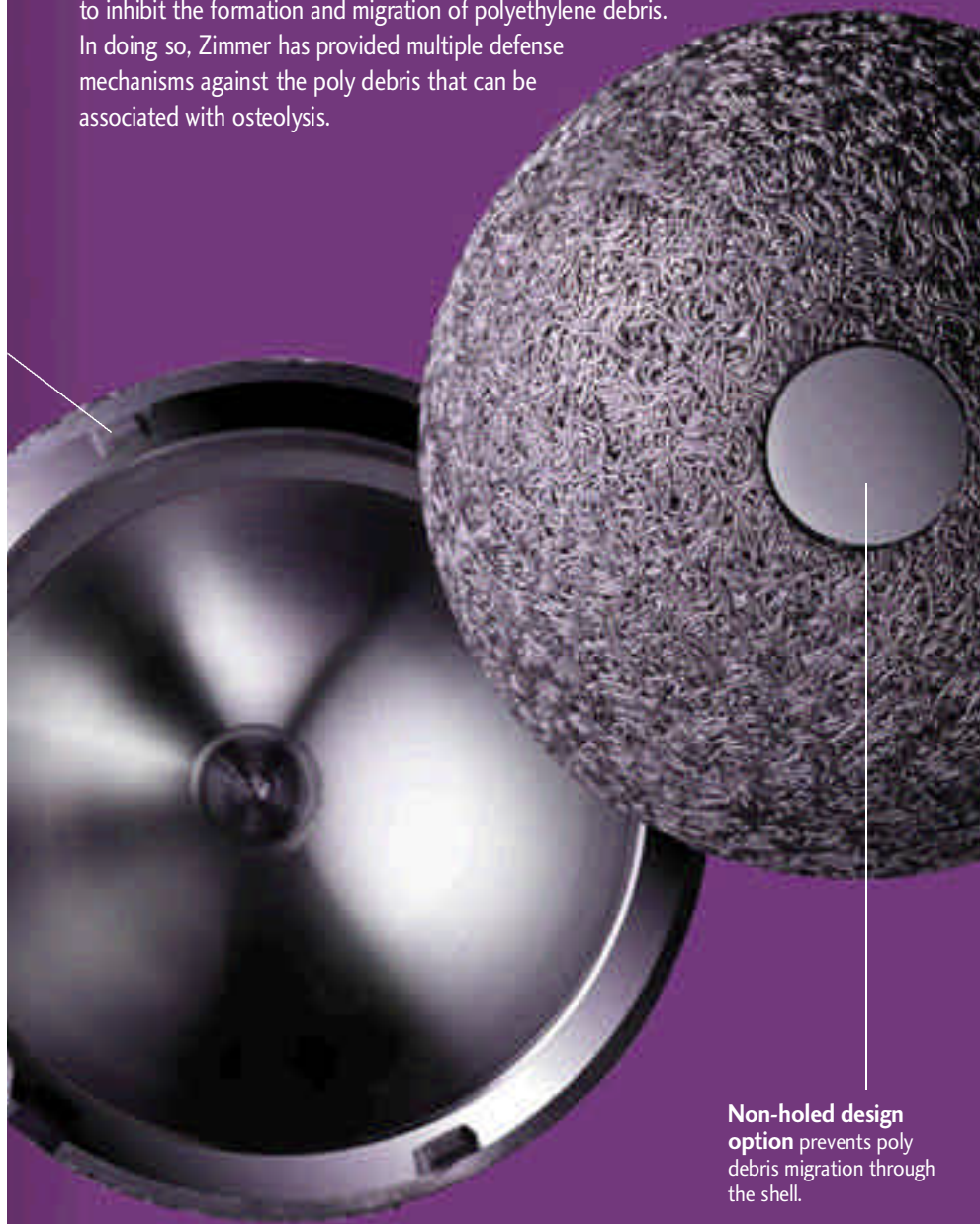


Full-hemisphere design addresses fixation concerns by maximizing the contact area between the shell and bone, which increases the interfacial strength and enhances initial stability. This also helps prevent poly debris migration around the shell periphery.



Building On Success

The *Trilogy* System builds on the success of the Harris/Galante Porous and HGP II Cups by combining proven features with new technology designed to inhibit the formation and migration of polyethylene debris. In doing so, Zimmer has provided multiple defense mechanisms against the poly debris that can be associated with osteolysis.



Non-holed design option prevents poly debris migration through the shell.

Quick-release locking mechanism allows fast, easy liner removal for intraoperative flexibility.



Zimmer femoral heads are available in cobalt-chrome and zirconia ceramic and are designed to reduce poly wear through precise manufacturing tolerances for sphericity and surface roughness. A full complement of head sizes allows the surgeon a range of options for restoring joint kinematics.



Superior Congruency and Liner Stability

The *Trilogy* System incorporates a number of innovative features that take it beyond the fundamentals. These design elements work together to virtually eliminate micromotion and minimize the potential for backside poly wear.^{11,12}

1. Anti-rotational tabs secure liner firmly in place to provide enhanced stability.

2. Equatorial press-fit provides additional locking which aids in minimizing micromotion.

3. Locking ring helps prevent dislocation of the liner from the shell, yet provides ease of disassembly when necessary.

4. Full congruency between the polyethylene liner and the shell inhibits micromotion as the liner maintains integrity under load and stress.

5. Bottoming-out feature prevents rim loading and helps to distribute stresses evenly by ensuring uniform metal shell support of the polyethylene liner.

6. Polar boss minimizes transverse forces and helps prevent micromotion by providing an additional stabilization point.

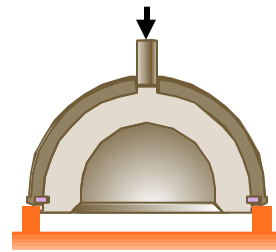


RIGOROUS INDEPENDENT TESTING VALIDATES THE DESIGN

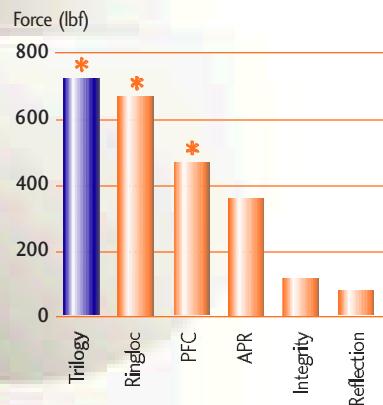
Independent laboratories subjected the *Trilogy* Acetabular System to a battery of tests to prove mechanical performance.

In one set of tests, the effects of liner locking mechanisms and tighter liner tolerances were examined. Micromotion between liner and shell was measured under simulated acetabular loading conditions. The results suggested that the stability of the liner was most dependent on the tightness of fit between the liner and shell. Zimmer maintains precise machining standards for this reason.¹¹

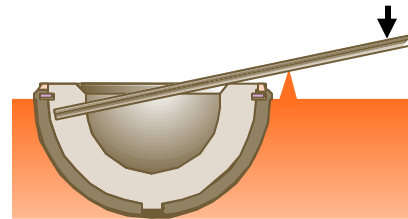
A true measure of the mechanical integrity of the *Trilogy* Acetabular System is provided by evaluating the retention mechanism in laboratory push-out and lever-out testing. These tests exposed the liner to forces and torques in attempts to dislodge it from the shell. The results demonstrate the outstanding performance and efficacy of the *Trilogy* liner locking mechanism.¹³



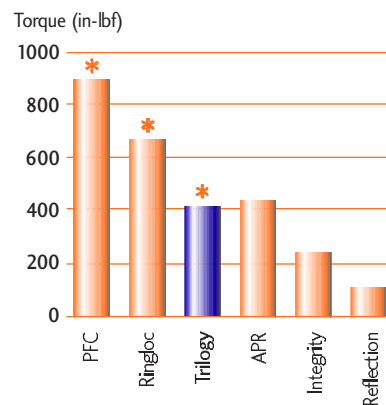
Push-out Test



The Trilogy System withstood the greatest amount of force in push-out testing.

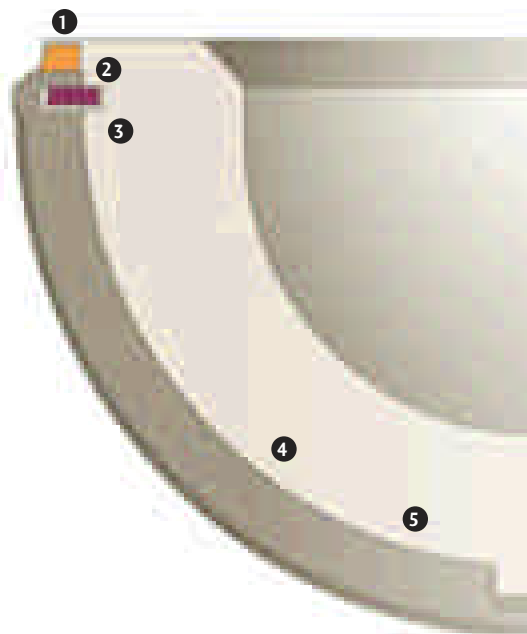


Lever-out Test



Lever-out testing proved the Trilogy System's resistance to high torque exposure.

* UHMWPE failure before locking mechanism failure



Removable Trilogy Polyethylene Liners

Removable Trilogy Polyethylene Liners are available in standard, 10-degree, and 20-degree elevations, and 7mm offsets, offering a range of options to assist the surgeon in optimizing femoral head coverage and restoring proper hip kinematics. They are designed to minimize wear by achieving maximum congruency and optimized poly thickness without compromising range of motion and metal shell thickness.



Options for Patient Fit and Surgeon Preference

Available in a complete size range and a variety of shell configurations and liner options, the *Trilogy System* offers surgeons ample scope to meet both the primary and revision needs of their patients while accommodating their surgical preference.

Non-holed/Uni-holed shell is designed specifically for non-screw applications.

Cluster-holed shell is designed for screw fixation applications utilizing a minimum number of screws.



Multi-holed shell is designed for screw fixation applications in revision and primary surgery in which deficient bone stock exists in the acetabulum.

Spiked shell is designed as an alternative for non-screw fixation applications.

5-POINT POLYETHYLENE

Zimmer optimizes polyethylene performance by addressing five key factors:

Material - Highest quality ultra-high molecular-weight polyethylene with no calcium stearate added. This material must pass strict inspections to ensure that it meets exacting Zimmer quality standards.

Processing - Computer-controlled, compression molding¹⁴ method is used to help assure maximum consolidation.

Design - Zimmer compression-molded polyethylene has a documented history of more than 20 years of clinical success.¹⁵ Careful attention has been given to minimizing articular surface and backside surface wear, and maintaining optimum poly thickness.

Sterilization - Gamma irradiation in an inert atmosphere promotes cross-linking, which has been shown to improve durability and wear resistance in laboratory testing.¹⁶

Packaging - Nitrogen packed in a protective cavity to minimize shelf oxidation.



For the complete story on our polyethylene, please ask your Zimmer representative for a Design Rationale.

Logical Instrumentation Designed for O.R. Efficiency

Instrument trays provide additional efficiency by accommodating all standard sterilization processing systems.



INSTRUMENTS ARE CONVENIENT AND EFFICIENT

The *Trilogy* Acetabular System addresses the needs of the orthopaedic surgeon with comprehensive instrumentation designed for convenience, efficiency, and precision. Whether for primary or revision procedures, the logical design of the system accommodates the full range of implant options with one set of instruments.



Full-hemisphere acetabular reamers match the geometry of the *Trilogy* shell and are manufactured with a high degree of precision, so that under-reaming allows optimal press-fit. They are available in a full range of sizes from 36-80mm.

New Acetabular Cup Positioner accommodates Gunsight and A-Frame configurations for suggested anteversion and forward flexion.

New Polyethylene Liner Inserter allows positioning and impaction of liner with one instrument.



Full set of provisional shells and liners facilitates the sizing process.

Trilogy Product Data

SHELLS†

SHELLS ARE AVAILABLE IN 2MM OD INCREMENTS
6200 - SHELL OD - SHELL TYPE

Cat. No.	Description
Spiked	
6200-40-23	F/M Acetabular Shell, 40mm OD, Spiked
Through ↓	Through ↓
6200-70-23	F/M Acetabular Shell, 70mm OD, Spiked
Non-Holed	
6200-40-21	F/M Acetabular Shell, 40mm OD, Solid
Through ↓	Through ↓
6200-70-21	F/M Acetabular Shell, 70mm OD, Solid
Cluster-Holed	
6200-48-22	F/M Acetabular Shell, 48mm OD, Cluster
Through ↓	Through ↓
6200-70-22	F/M Acetabular Shell, 70mm OD, Cluster
Multi-Holed	
6200-36-20	F/M Acetabular Shell, 36mm OD, Multi
Through ↓	Through ↓
6200-80-20	F/M Acetabular Shell, 80mm OD, Multi
Uni-Holed	
6200-40-24	F/M Acetabular Shell, 40mm OD, Uni
Through ↓	Through ↓
6200-70-24	F/M Acetabular Shell, 70mm OD, Uni

BONE SCREWS

SCREWS ARE AVAILABLE IN 5MM LENGTH INCREMENTS
6250 - SIZE - LENGTH

Cat. No.	Description
Bone Screws 6.5mm	
6250-65-15	Bone Screw, 6.5x15mm, Self-Tapping
Through ↓	Through ↓
6250-65-60	Bone Screw, 6.5x60mm, Self-Tapping
Bone Screws 4.5mm	
6250-45-15	Bone Screw, 4.5x15mm, Self-Tapping
Through ↓	Through ↓
6250-45-60	Bone Screw, 4.5x60mm, Self-Tapping

WARNING: This device is not approved for screw attachment or fixation to the posterior elements (pedicles) of the cervical, thoracic, or lumbar spine.

LINER THICKNESS

Shell OD (mm)	Poly Liner Thickness			
	22mm	26mm	28mm	32mm
38	5.1	—	—	—
40	6.1	—	—	—
42	6.1	5.3	—	—
44	7.1	6.2	5.2	—
46	8.2	6.3	6.3	—
48	9.1	7.3	6.2	5.3
50	10.1	8.2	7.2	6.3
52	10.1	8.2	7.2	6.3
54	10.1	8.2	7.2	6.3
56	11.2	9.3	8.3	6.4
58	12.2	10.3	9.3	7.3
60	13.2	11.3	10.3	8.4
62	14.2	12.3	11.3	9.3
64	15.2	13.3	12.3	10.3
66	16.2	14.3	13.3	11.4
68	17.2	15.4	14.3	12.4
70	18.2	16.3	15.3	13.3
72	19.2	17.3	16.3	14.4
74	20.2	18.4	17.3	15.4
76	21.2	19.3	18.3	16.3
78	22.2	20.3	19.3	17.3
80	23.2	21.3	20.3	18.3

POLYETHYLENE LINERS

LINERS ARE AVAILABLE IN 2MM INCREMENTS
SHELL SIZES 50, 52, AND 54 USE THE SAME SIZE LINER

Cat. No.	Description
0° Elevated	
6105-36-22	Poly Liner, 36x22mm
Through ↓	Through ↓
6105-80-22	Poly Liner, 80x22mm
6105-42-26	Poly Liner, 42x26mm
Through ↓	Through ↓
6105-80-26	Poly Liner, 80x26mm
6105-44-28	Poly Liner, 44x28mm
Through ↓	Through ↓
6105-80-28	Poly Liner, 80x28mm
6105-48-32	Poly Liner, 48x32mm
Through ↓	Through ↓
6105-80-32	Poly Liner, 80x32mm
10° Elevated††	
6110-36-22	Elevated Rim Liner, 10°, 36x22mm
Through ↓	Through ↓
6110-80-22	Elevated Rim Liner, 10°, 80x22mm
6110-42-26	Elevated Rim Liner, 10°, 42x26mm
Through ↓	Through ↓
6110-80-26	Elevated Rim Liner, 10°, 80x26mm
6110-44-28	Elevated Rim Liner, 10°, 44x28mm
Through ↓	Through ↓
6110-80-28	Elevated Rim Liner, 10°, 80x28mm
6110-48-32	Elevated Rim Liner, 10°, 48x32mm
Through ↓	Through ↓
6110-80-32	Elevated Rim Liner, 10°, 80x32mm
20° Elevated††	
6120-36-22	Elevated Rim Liner, 20°, 36x22mm
Through ↓	Through ↓
6120-80-22	Elevated Rim Liner, 20°, 80x22mm
6120-42-26	Elevated Rim Liner, 20°, 42x26mm
Through ↓	Through ↓
6120-80-26	Elevated Rim Liner, 20°, 80x26mm
6120-44-28	Elevated Rim Liner, 20°, 44x28mm
Through ↓	Through ↓
6120-80-28	Elevated Rim Liner, 20°, 80x28mm
6120-48-32	Elevated Rim Liner, 20°, 48x32mm
Through ↓	Through ↓
6120-80-32	Elevated Rim Liner, 20°, 80x32mm
7mm Offset	
6141-40-22	7mm Offset, 40x22mm
Through ↓	Through ↓
6141-70-22	7mm Offset, 70x22mm
6141-42-26	7mm Offset, 42x26mm
Through ↓	Through ↓
6141-70-26	7mm Offset, 70x26mm
6141-44-28	7mm Offset, 44x28mm
Through ↓	Through ↓
6141-70-28	7mm Offset, 70x28mm
6141-48-32	7mm Offset, 48x32mm
Through ↓	Through ↓
6141-70-32	7mm Offset, 70x32mm

† U.S. Patent 5,383,938

†† U.S. Patent 4,678,472

NON-HOLED INSTRUMENT SET

Cat. No.	Description
6260-99-01	Set includes one each of all items listed below.
* 6260-80-02	Case
6260-81-02	Base
6260-57-01	Lid
6260-30-01	Disassembly Device
6260-35-01	Liner Extractor
6260-40	Liner Elevator
6260-18	Cup Positioner ^{†††}
6260-47	Gunsight Alignment Guide
5785-79	Tibial Alignment Rod
6260-15-11	Replaceable Poly Cap (6 ea.)
6260-15-12	Replaceable Metal Cap (1 ea.)

* Includes items indented below.

HOLED INSTRUMENT SET

Cat. No.	Description
6260-99-02	Set includes one each of all items listed below.
* 6260-85-01	Case
6260-86-01	Base
6260-57-01	Lid
6260-02	Flex Shaft w/Modular Connector
6260-03-01	Drill Bit, 15mm
6260-03-02	Drill Bit, 30mm
6260-03-03	Drill Bit, 45mm
6260-06	Drill Guide
6260-07-01	Tap, 4.5mm
6260-07-02	Tap, 6.5mm
6260-08-01	Tap Guide, 4.5mm
6260-08-02	Tap Guide, 6.5mm
6260-10	Tap Handle
6260-24	Straight Screwdriver
6260-25	Universal Screwdriver
6260-26	Modular Universal Handle
6260-13	Screw Holding Forceps
6260-14	Screw Holding Forceps
6611-98	Depth Gauge

* Includes items indented below.

OPTIONAL/ADDITIONAL INSTRUMENTS

Cat. No.	Description
6260-30	Shell Disassembly (old style)
6260-46	A-Frame Alignment Guide
6211-03-01	Drill Bit, Short-Flexible (HGP II)
6211-03-02	Drill Bit, Medium-Flexible (HGP II)
6211-03-03	Drill Bit, Long-Flexible (HGP II)
6260-16-22	Liner Inserter (Vacuum)
6260-16-26	Liner Inserter (Vacuum)
6260-16-28	Liner Inserter (Vacuum)
6260-16-32	Liner Inserter (Vacuum)
6260-17-22	Liner Inserter (Mechanical)
6260-17-26	Liner Inserter (Mechanical)
6260-17-28	Liner Inserter (Mechanical)
6260-17-32	Liner Inserter (Mechanical)
6211-10	HGP II Liner Impactor

SHELL PROVISIONAL SET

Cat. No.	Description
6260-99-04	Set includes one each of all items listed below.
* 6260-75-01	Case
6260-76-01	Base
6260-57-01	Lid
6240-40	Shell Provisional, 40mm OD
Through ↓	Through ↓
6240-70	Shell Provisional, 70mm OD
Jumbo	
6260-99-08	Set includes one each of all items listed below.
* 6260-90	Case
6260-91	Base
6260-57	Lid
6240-72	Shell Provisional, 72mm OD
6240-74	Shell Provisional, 74mm OD
6240-76	Shell Provisional, 76mm OD
6240-78	Shell Provisional, 78mm OD
6240-80	Shell Provisional, 80mm OD

* Includes items indented below.

ACETABULAR REAMERS

Cat. No.	Description
1207-90-00	Full Hemi Reamer Kit
1207-90-01	Full Hemi Reamer Shell Kit

^{†††} U.S. Patents 4,716,894; 5,250,051; 5,320,625

PROVISIONAL LINER SET - 22MM

Cat. No.	Description
6260-99-07	Set includes one each of all items listed below.
* 6260-65-01	Case
6260-66-01	Base
6260-57-01	Lid
6260-36-22	Standard Provisional Liner, 22mm
6260-38-22	Standard Provisional Liner, 22mm
6260-40-22	Standard Provisional Liner, 22mm
Through ↓	Through ↓
6260-70-22	Standard Provisional Liner, 22mm
6261-40-22	10° Provisional Liner, 22mm
Through ↓	Through ↓
6261-70-22	10° Provisional Liner, 22mm
6262-40-22	20° Provisional Liner, 22mm
Through ↓	Through ↓
6222-70-22	20° Provisional Liner, 22mm
0° ElevatedJumbo	
6260-72-22	Standard Provisional Liner, 22mm
Through ↓	Through ↓
6260-80-22	Standard Provisional Liner, 22mm
10° ElevatedJumbo	
6261-72-22	10° Provisional Liner, 22mm
Through ↓	Through ↓
6261-80-22	10° Provisional Liner, 22mm
20° ElevatedJumbo	
6262-72-22	20° Provisional Liner, 22mm
Through ↓	Through ↓
6262-80-22	20° Provisional Liner, 22mm

* Includes items indented below.

PROVISIONAL LINER SET - 28MM

Cat. No.	Description
6260-99-03	Set includes one each of all items listed below.
* 6260-65-01	Case
6260-66-01	Base
6260-57-01	Lid
6260-44-28	Standard Provisional Liner, 28mm
Through ↓	Through ↓
6260-70-28	Standard Provisional Liner, 28mm
6261-44-28	10° Provisional Liner, 28mm
Through ↓	Through ↓
6261-70-28	10° Provisional Liner, 28mm
6262-44-28	20° Provisional Liner, 28mm
Through ↓	Through ↓
6262-70-28	20° Provisional Liner, 28mm
0° ElevatedJumbo	
6260-72-28	Standard Provisional Liner, 28mm
Through ↓	Through ↓
6260-80-28	Standard Provisional Liner, 28mm
10° ElevatedJumbo	
6261-72-28	10° Provisional Liner, 28mm
Through ↓	Through ↓
6261-80-28	10° Provisional Liner, 28mm
20° ElevatedJumbo	
6262-72-28	20° Provisional Liner, 28mm
Through ↓	Through ↓
6262-80-28	20° Provisional Liner, 28mm

* Includes items indented below.

PROVISIONAL LINER SET - 26MM

Cat. No.	Description
6260-99-06	Set includes one each of all items listed below.
* 6260-65-01	Case
6260-66-01	Base
6260-57-01	Lid
6260-42-26	Standard Provisional Liner, 26mm
Through ↓	Through ↓
6260-70-26	Standard Provisional Liner, 26mm
6261-42-26	10° Provisional Liner, 26mm
Through ↓	Through ↓
6261-70-26	10° Provisional Liner, 26mm
6262-42-26	20° Provisional Liner, 26mm
Through ↓	Through ↓
6262-70-26	20° Provisional Liner, 26mm
0° ElevatedJumbo	
6260-72-26	Standard Provisional Liners, 26mm
Through ↓	Through ↓
6260-80-26	Standard Provisional Liners, 26mm
10° ElevatedJumbo	
6261-72-26	10° Provisional Liner, 26mm
Through ↓	Through ↓
6261-80-26	10° Provisional Liner, 26mm
20° ElevatedJumbo	
6262-72-26	20° Provisional Liner, 26mm
Through ↓	Through ↓
6262-80-26	20° Provisional Liner, 26mm

* Includes items indented below.

PROVISIONAL LINER SET - 32MM

Cat. No.	Description
6260-99-05	Set includes one each of all items listed below.
* 6260-65-01	Case
6260-66-01	Base
6260-57-01	Lid
6260-48-32	Standard Provisional Liner, 32mm
Through ↓	Through ↓
6260-70-32	Standard Provisional Liner, 32mm
6261-48-32	10° Provisional Liner, 32mm
Through ↓	Through ↓
6261-70-32	10° Provisional Liner, 32mm
6262-48-32	20° Provisional Liner, 32mm
Through ↓	Through ↓
6262-70-32	20° Provisional Liner, 32mm
0° ElevatedJumbo	
6260-72-32	Standard Provisional Liner, 32mm
Through ↓	Through ↓
6260-80-32	Standard Provisional Liner, 32mm
10° ElevatedJumbo	
6261-72-32	10° Provisional Liner, 32mm
Through ↓	Through ↓
6261-80-32	10° Provisional Liner, 32mm
20° ElevatedJumbo	
6262-72-32	20° Provisional Liner, 32mm
Through ↓	Through ↓
6262-80-32	20° Provisional Liner, 32mm

* Includes items indented below.

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For more information regarding the Trilogy Acetabular System, contact your Zimmer representative or visit us at www.zimmer.com