

# Locking Cage™

Revision Acetabular Hip System



### **Locking Cage –**

The Locking Cage is utilized for clinical case with severe acetabulum deficiency, to reconstruct the acetabular structure before the joint prosthesis is mounted on. The Locking cage consists of a locking cage main body (diameters in 50~70 mm) and required bone screws (lengths in 15~75 mm) for basic fixation.

The hook (3 sizes) and ischial flange (1 size) are modular designs for optional use when demand for extra stability exists.

The auto break-off locking nut is the key item to complete the locking mechanism, converting the bone screws from its original compressive function to a locking type function.



# Locking Screw Design

The poly-axial bone screw is designed to provide flexibility selecting the optimal direction for screw insertion. In addition, the unique locking nut provides enhanced stability for the fixed structure by converting the compression screws into locking screws.

The locking nut features a hexagonal head design to improve usability intra-operatively and includes a break-off mechanism designed to act as a torque-limiter for optimized locking strength and to avoid a 'cold-welding' effect between screw threads.



Locking Nut

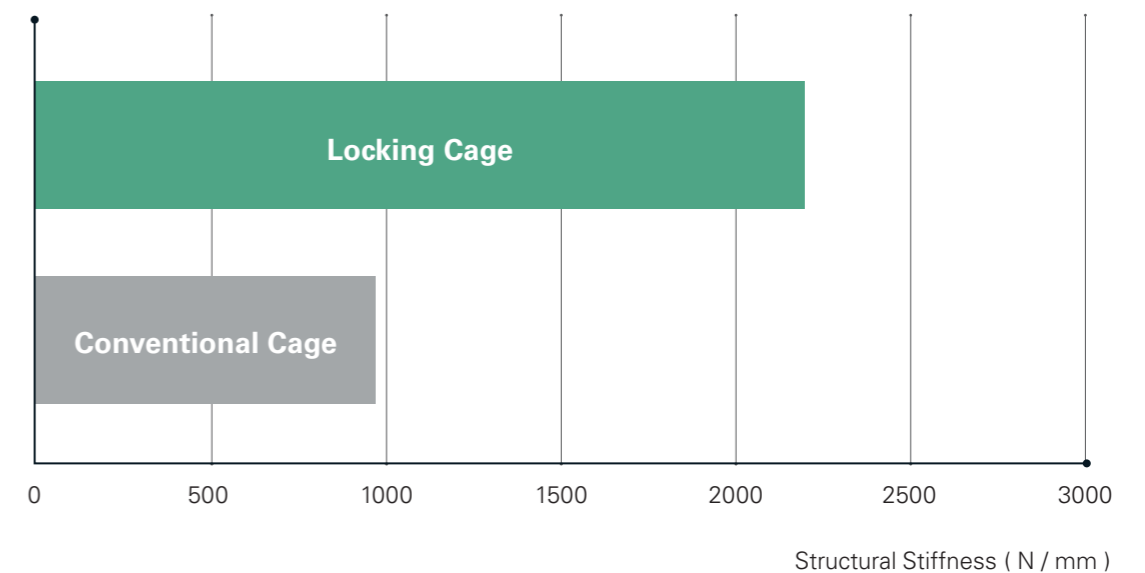
Break the neck of Locking nut, and leave the cap fully secured onto the Locking Cage

# Proven Safety and Stability

The Locking Cage is designed for optimal stability to ensure successful acetabular cage fixation in patients with a damaged acetabulum, to ensure osseointegration is achieved between host and graft bones in a stable environment, and to help restore ideal joint biomechanics.

After securing the locking nuts in the Locking Cage, the inserted bone screws and the Locking Cage form a stable construct to greatly enhance structural stiffness against physiological compressive load. This reinforced structure can further protect the graft behind the Locking Cage from the threat of resorption due to excessive compressive load.

Structural Compressive Stiffness<sup>[1]</sup>



### Multiple Screw Holes

- Offers appropriate locations for screw insertion

### Pre-bent Flanges

- Designed to fit with anatomy

### Modular Ischial Flange

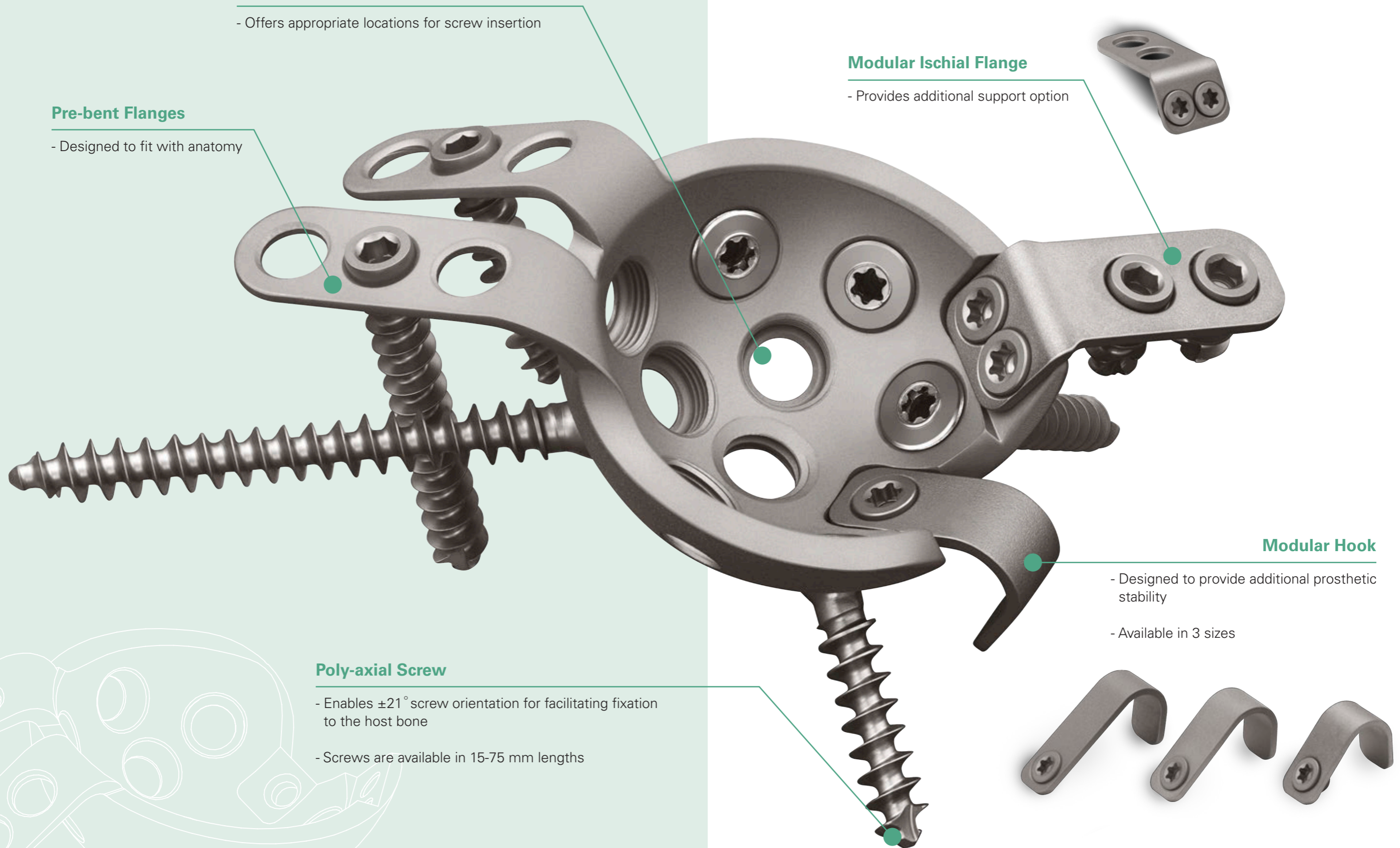
- Provides additional support option

### Modular Hook

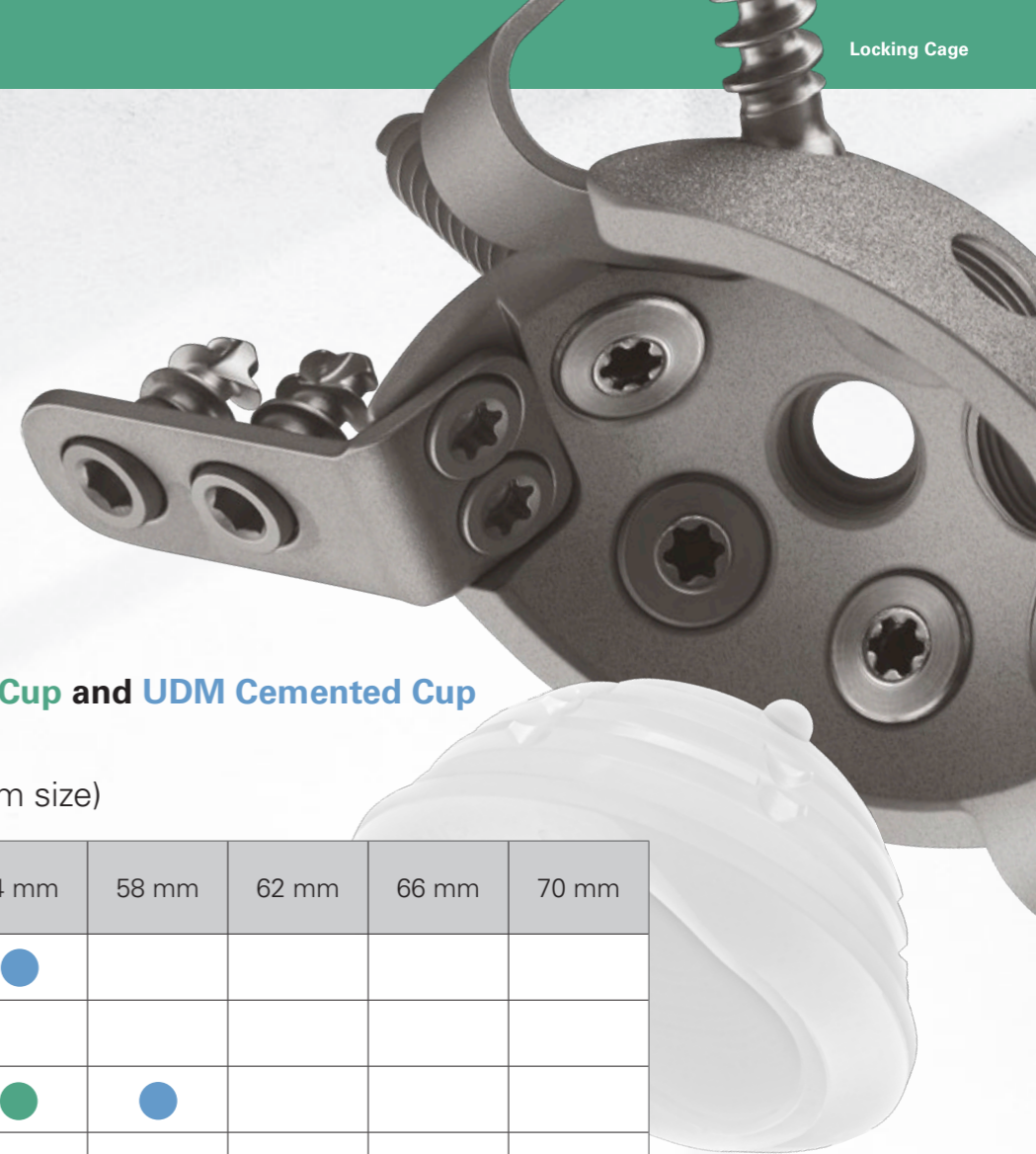
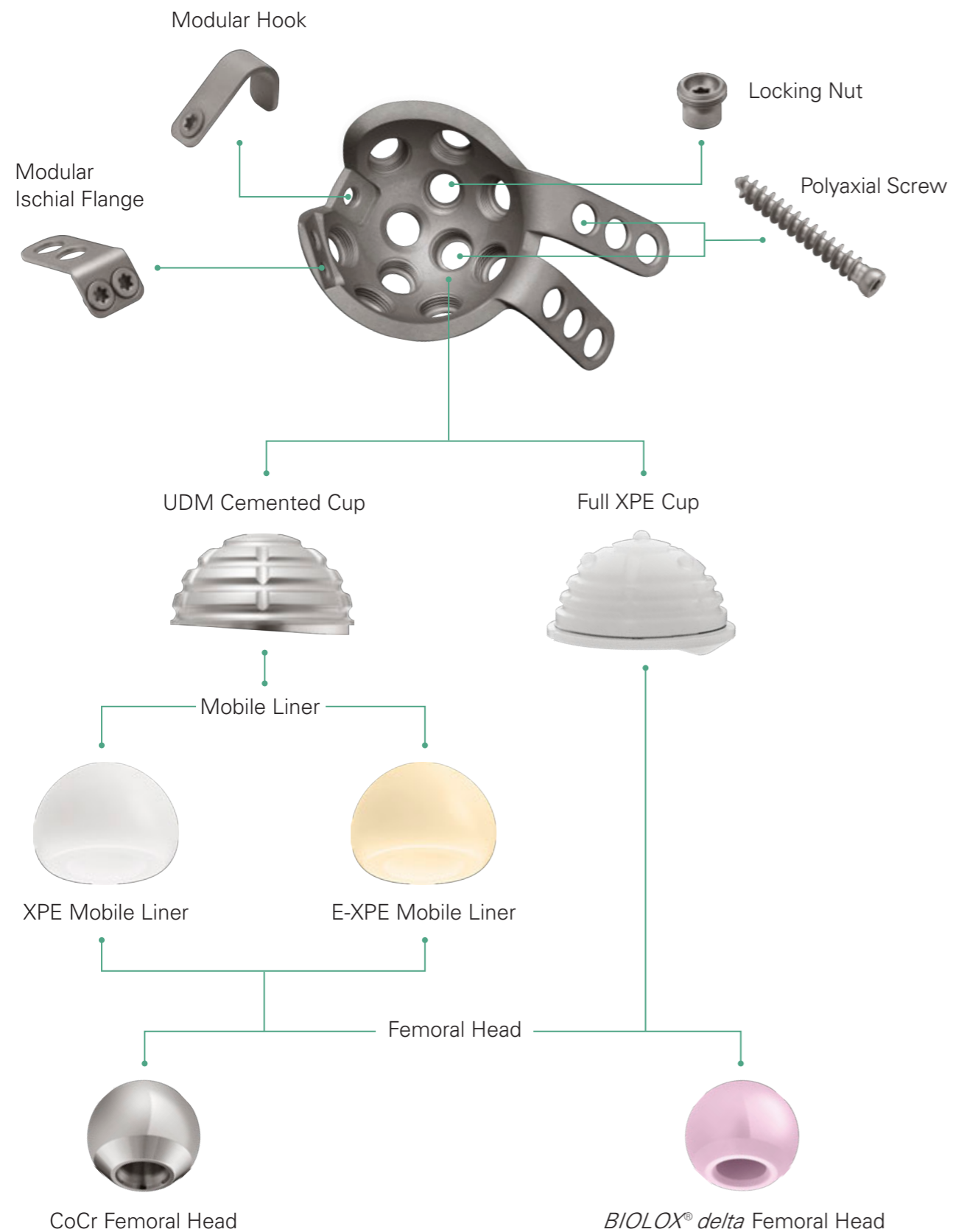
- Designed to provide additional prosthetic stability
- Available in 3 sizes

### Poly-axial Screw

- Enables  $\pm 21^\circ$  screw orientation for facilitating fixation to the host bone
- Screws are available in 15-75 mm lengths



# Component Pairing Overview



**Locking Cage, Full XPE Cup and UDM Cemented Cup**  
**Compatibility Guide**  
 (Recommended maximum size)

| Cage Size \ Cup Size | 50 mm | 54 mm | 58 mm | 62 mm | 66 mm | 70 mm |
|----------------------|-------|-------|-------|-------|-------|-------|
| 42 mm                | ●     | ●     |       |       |       |       |
| 44 mm                |       |       |       |       |       |       |
| 46 mm                |       | ●     | ●     |       |       |       |
| 48 mm                |       |       |       |       |       |       |
| 50 mm                |       |       | ●     | ●     |       |       |
| 52 mm                |       |       |       |       |       |       |
| 54 mm                |       |       |       | ●     | ●     |       |
| 56 mm                |       |       |       |       |       |       |
| 58 mm                |       |       |       |       | ●     | ●     |
| 60 mm                |       |       |       |       |       |       |
| 62 mm                |       |       |       |       |       | ●     |



Recommended Full XPE Cup size  
 ( 2.5 mm cement mantle )








Recommended UDM Cemented Cup size  
 ( 2 mm cement mantle )

© Extra cement mantle thickness can be acquired with the cup sizes smaller than the recommended ones

# Order Information

## Reference

[1] Data held on file. United Orthopedic Corporation

|  | Catalog Number |               | Description           |
|--|----------------|---------------|-----------------------|
| <b>Locking Cage</b><br>               | <b>Left</b>    | <b>Right</b>  | <b>Outer Diameter</b> |
|  | 1308 - 1150    | 1308 - 1250   | 50 mm                 |
|  | 1308 - 1154    | 1308 - 1254   | 54 mm                 |
|  | 1308 - 1158    | 1308 - 1258   | 58 mm                 |
|  | 1308 - 1162    | 1308 - 1262   | 62 mm                 |
|  | 1308 - 1166    | 1308 - 1266   | 66 mm                 |
|  | 1308 - 1170    | 1308 - 1270   | 70 mm                 |
| <b>Locking Nut</b><br>                | 1908 - 5001    |               |                       |
| <b>Hook</b><br>                     | 1908 - 5201    | Small         |                       |
|  | 1908 - 5202    | Medium        |                       |
|  | 1908 - 5203    | Large         |                       |
| <b>Ischial Flange</b><br>           | 1908 - 5401    |               |                       |
| <b>Cancellous Locking Screw</b><br> | 5208 - 1015    | Ø 6.5 × 15 mm |                       |
|  | 5208 - 1020    | Ø 6.5 × 20 mm |                       |
|  | 5208 - 1025    | Ø 6.5 × 25 mm |                       |
|  | 5208 - 1030    | Ø 6.5 × 30 mm |                       |
|  | 5208 - 1035    | Ø 6.5 × 35 mm |                       |
|  | 5208 - 1040    | Ø 6.5 × 40 mm |                       |
|  | 5208 - 1045    | Ø 6.5 × 45 mm |                       |
|  | 5208 - 1050    | Ø 6.5 × 50 mm |                       |
|  | 5208 - 1055    | Ø 6.5 × 55 mm |                       |
|  | 5208 - 1060    | Ø 6.5 × 60 mm |                       |
|  | 5208 - 1065    | Ø 6.5 × 65 mm |                       |
|  | 5208 - 1070    | Ø 6.5 × 70 mm |                       |
|  | 5208 - 1075    | Ø 6.5 × 75 mm |                       |

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