



# U-Motion II PLUS™ Cup

## Acetabular Hip System

# U-Motion II PLUS™

**For No-Hole and Cluster Hole Cup-  
Titanium Plasma Spray PLUS (TPS PLUS) Coating**

**For Multi-Hole Cup-  
TPS with Hydroxyapatite (HA) Coating**

- Designed to help promote biological fixation

## Laser Marks

- Provide surgeons with a helpful identifying marker for screw hole locations

## Multi-angle Screw Hole - 32°

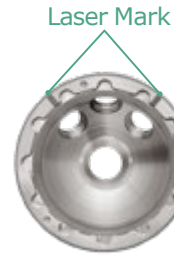
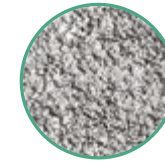
- Designed to allow optimized screw angulation

## Multiple Cup Configurations

- No-hole, cluster-hole, and multi-hole cup configurations are available from 44 mm to 70 mm

## Locking Ring for Poly Liner Locking

- The inner locking ring on the acetabular cup provides superior locking strength for polyethylene liner



| Cup Size (mm) |
|---------------|
| Ø 44          |
| Ø 46          |
| Ø 48          |
| Ø 50          |
| Ø 52          |
| Ø 54          |
| Ø 56          |
| Ø 58          |
| Ø 60          |
| Ø 62          |
| Ø 64          |
| Ø 66          |
| Ø 68          |
| Ø 70          |



| Ti Cancellous Screw, Ø 6.5 mm Length (mm) |
|---|
| 15  |
| 20  |
| 25  |
| 30  |
| 35  |
| 40  |
| 45  |
| 50  |



## Screw Hole Covers

Screw hole covers are pre-assembled with multi-hole cup.

# Various Bearing Options

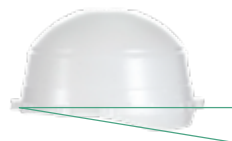
## XPE and E-XPE material

- Available in XPE and E-XPE material to meet the demand of both surgeon and patient



## Crown Tab on the 20° Lipped Liner

- Three tabs indicate the orientation of 20° lip

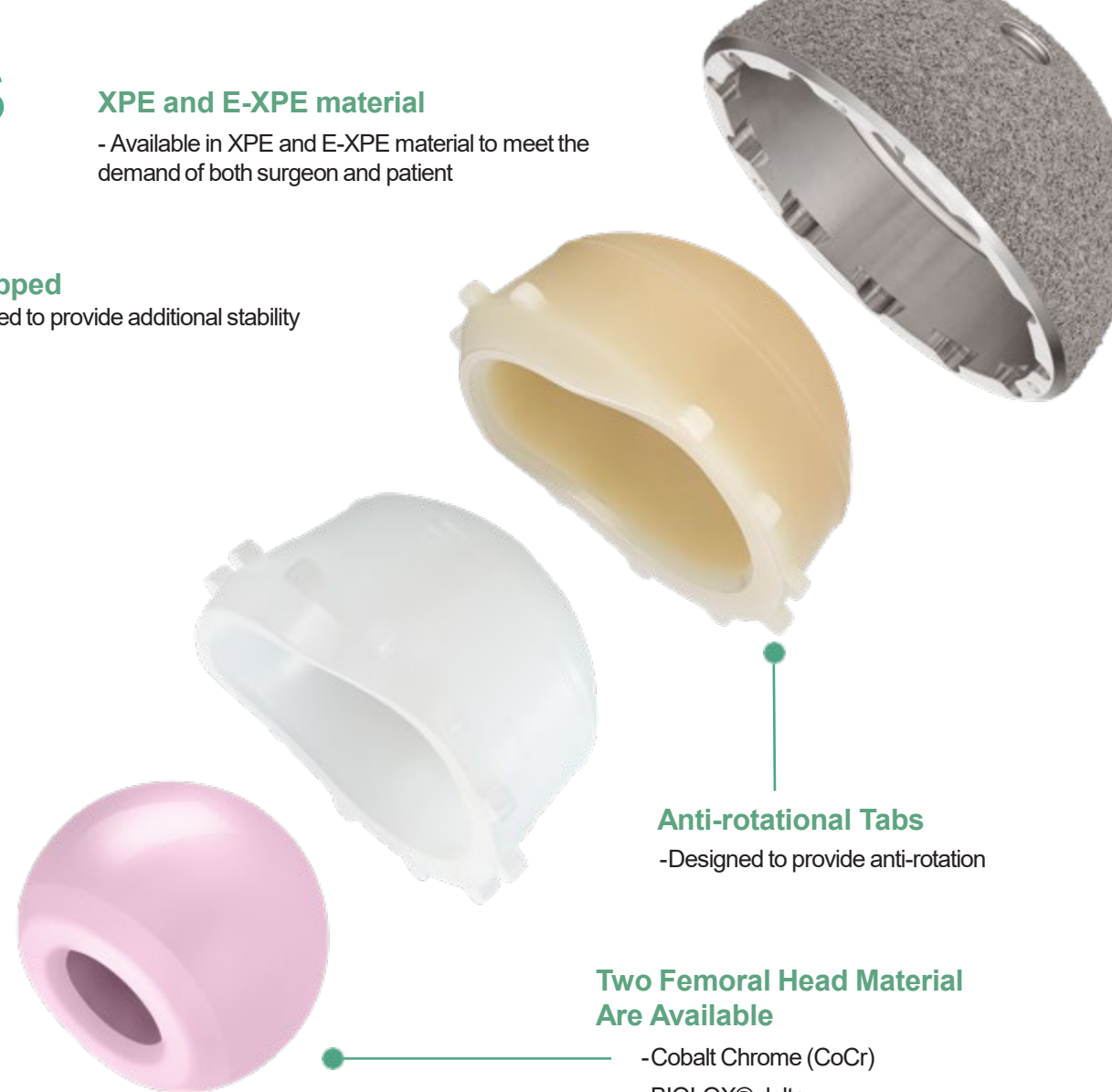


## 20° Lipped

- Designed to provide additional stability

| Liner Size (mm) |          |            |
|-----------------|----------|------------|
| Ø 44            | Standard | 20° lipped |
| Ø 46            | Standard | 20° lipped |
| Ø 48            | Standard | 20° lipped |
| Ø 50            | Standard | 20° lipped |
| Ø 52            | Standard | 20° lipped |
| Ø 54            | Standard | 20° lipped |
| Ø 56            | Standard | 20° lipped |
| Ø 58            | Standard | 20° lipped |
| Ø 60            | Standard | 20° lipped |
| Ø 62            | Standard | 20° lipped |
| Ø 64            | Standard | 20° lipped |
| Ø 66            | Standard | 20° lipped |
| Ø 68            | Standard | 20° lipped |
| Ø 70            | Standard | 20° lipped |

| Femoral Head & Offset |          |        |        |      |    |
|-----------------------|----------|--------|--------|------|----|
| Cobalt Chrome (CoCr)  | Diameter |        |        |      |    |
| Size                  | 28       | 32     | 36     |      |    |
| Offsets               | (-3)     | (-3)   | (-3)   |      |    |
|                       | (+0)     | (+0)   | (+0)   |      |    |
|                       | (+2.5)   | (+2.5) | (+2.5) |      |    |
|                       | (+5)     | (+5)   | (+5)   |      |    |
|                       | (+7.5)   | (+7.5) | (+7.5) |      |    |
| BIOLOX® delta         | Diameter |        |        |      |    |
|                       | Size     | 28     | 32     | 36   | 40 |
|                       | (-2.5)   | (-3)   | (-3)   | (-3) |    |
|                       | (+1)     | (+1)   | (+1)   | (+1) |    |
|                       | (+4)     | (+5)   | (+5)   | (+5) |    |
|                       | (+9)     | (+9)   | (+9)   |      |    |



## Anti-rotational Tabs

- Designed to provide anti-rotation

## Two Femoral Head Material Are Available

- Cobalt Chrome (CoCr)  
- BIOLOX® delta

# Wide Range of Motion

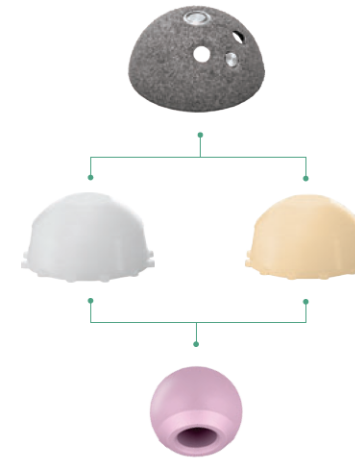
Large head combined with 12/14 stem taper, increasing range of motion and delaying impingement.



| Cup Size | Head Size | Liner | Flexion/Extension | I/E Rotation | ABD-ADD |
|----------|-----------|-------|-------------------|--------------|---------|
| 46 mm    | Ø28 mm    | 0°    | 173°              | 198°         | 120°    |
| 50 mm    | Ø32 mm    | 0°    | 192°              | 222°         | 133°    |
| 54 mm    | Ø36 mm    | 0°    | 197°              | 229°         | 137°    |

Range of motion tested with a UTF reduced stem in accordance with ISO 21535 standard for a physiologically positioned cup and stem.

# Quick Compatibility Guide














Ceramic Head with E-XPE, XPE

| Cup Size (mm) | Ceramic Head Size (mm) |    |    |
|---------------|------------------------|----|----|
| 44            | 28                     |    |    |
| 46            |                        | 32 |    |
| 48            |                        |    | 36 |
| 50            |                        |    | 36 |
| 52            |                        |    | 36 |
| 54            |                        |    | 40 |
| 56            |                        |    |    |
| 58            |                        |    |    |
| 60            |                        |    |    |
| 62            |                        |    |    |
| 64            |                        |    | 36 |
| 66            |                        |    | 40 |
| 68            |                        |    |    |
| 70            |                        |    |    |

CoCr Head with E-XPE and XPE liner

| Cup Size (mm) | CoCr Head Size (mm) |    |    |
|---------------|---------------------|----|----|
| 44            | 28                  |    |    |
| 46            |                     | 32 |    |
| 48            |                     |    | 36 |
| 50            |                     |    |    |
| 52            |                     |    |    |
| 54            |                     |    |    |
| 56            |                     |    |    |
| 58            |                     |    |    |
| 60            |                     |    |    |
| 62            |                     |    |    |
| 64            |                     |    |    |
| 66            |                     |    |    |
| 68            |                     |    |    |
| 70            |                     |    |    |

|   |  |   |   |   |   |
|---|--|---|---|---|---|
|  |                          |     |   |   |                    |
|   |                         |  |  |  |                  |
|   |                         |  |  |  |                  |
| Configurations  | No-Hole, Cluster hole & Multi-hole   | No-Hole, Cluster hole & Multi-hole  | No-Hole, Cluster hole & Multi-hole  | No-Hole, Cluster hole & Multi-hole  | No-Hole, Cluster hole & Multi-hole  |
| Coating Material  | Titanium Plasma Plus & titanium Plasma with HA (Multi-hole)<br>70 µm<br>Pore Size 339+48<br>Porosity 40% | OsseoTi Porous Structure<br>(sintered Irregular beads)<br>72% Porosity              | Titanium<br>(sintered structured beads)<br>76% Porosity                             | Gription<br>(sintered structured beads)<br>72% Porosity                             | Stiktite<br>(sintered structured beads)<br>72% Porosity   |
| Coefficient of Friction   | 1.4  | N/A   | 1.2   | 1   | 1.35  |
| Standard Cup Sizes  | 44mm - 70mm Diameter   | 42mm - 68mm Diameter  | 42mm - 72mm Diameter  | 44mm - 74mm Diameter  | 42mm - 70mm Diameter  |
| Ream  | Line to Line   | Line to Line  | Under Ream by 1mm   | Under Ream by 1mm   | Line to Line  |
| Screw Angulation  | 32°  | 30°   | 37°   | 34°   | 33°   |
| Femoral Head  | Metal & Ceramic  | Metal & Ceramic   | Metal & Ceramic   | Metal & Ceramic   | Metal, Ceramic & Oxinium  |
| Head/Liner Size (mm)  | 28/42<br>32/46<br>36/48<br>40/54   | 28/42<br>32/48<br>36/50<br>40/54<br>44/62   | 28/42<br>32/44<br>36/48<br>40/52<br>44/56   | 28/44<br>32/48<br>36/52<br>40/56  | 22/42<br>28/46<br>32/48<br>36/52<br>40/56<br>44/60  |
| Polyethylene Name   | XPE & E-XPE  | ArComXL & E1  | X3  | ALTRX   | XLPE  |
| Highly Crosslinked  | Yes  | Yes   | Yes   | Yes   | Yes   |
| Liner Options   | Standard<br>20° lipped   | Neutral<br>High Wall<br>10° Face Changing<br>+5 mm<br>Dual Mobility<br>Constrained  | 0° & 10°<br>0° & 10° Eccentric<br>Elevated<br>Dual Mobility<br>0° & 10° Constrained | Neutral<br>Lipped<br>+4<br>+4 10° Face Changing<br>Constrained<br>Dual Mobility     | 0°<br>20° lipped<br>+4mm Lateralized<br>20° +4mm Lateralized lipped<br>Dual Mobility<br>Constrained |
| Minimum Thickness at Dome (mm)  | 5.9mm  | 4.7   | Not Available   | 5.5mm   | Not Available   |
| Minimum Thickness at 45° (mm)   | 5.3mm  | 4.3   | 3.8   | 4.9mm   | 6.1mm   |
| Antioxidant Process   | Blended Vit E  | Infused   | NA  | NA  | NA  |
| Radiation Dose (kGy)  | 75 Gamma   | 50 Gamma  | 30 x 3 Gamma  | 75 Gamma  | 100 Gamma   |
| Thermal Treatment   | Remelt   | Anneal  | Anneal  | Remelt  | Remelt  |
| Final Sterilization   | EIO  | Gas Plasma  | Gas Plasma  | Gas Plasma  | EIO   |

|   |  |   |   |  |  |
|---|--|---|---|--|--|
|  |  UNITED ORTHOPEDIC®      |  ORTHO DEVELOPMENT® |  Exactech®<br>Surgeon focused. Patient driven.™ |  Medacta International |  TOTAL JOINT ORTHOPEDICS |
|   | U-Motion II PLUS™  | LEGEND®   | Alteon®   | pact®  | Klassic HD®  |
|   |                         |                    |    |                       |                         |
| Configurations  | No-Hole, Cluster hole & Multi-hole   | No-Hole, Cluster hole & Multi-hole  | No-Hole, Cluster hole & Multi-hole  | No-Hole Two-Hole, Multi-Hole & Rim-Hole  | Two Hole & Three Hole  |
| Coating Material  | Titanium Plasma Plus & titanium Plasma with HA (Multi-hole)<br>70 µm<br>Pore Size 339+48<br>Porosity 40% | Legend<br>(sintered structured beads)<br>72% Porosity   | TAC Porous<br>(sintered structured beads)<br>72% Porosity   | Mectagrip<br>(Vacuum Plasma Spray)   | Ti-COAT<br>(sintered structured beads)<br>61% Porosity   |
| Coefficient of Friction   | 1.4  | 1.35  | 1.35  | Not Available  | Not Available  |
| Cup Sizes   | 44mm - 70mm Diameter   | 44mm - 70mm Diameter  | 42mm - 68mm Diameter  | 46mm - 76mm Diameter   | 44mm - 64mm Diameter   |
| Ream  | Line to Line   | Line to Line  | Line to Line  | Line to Line   | Line to Line   |
| Screw Angulation  | 32°  | 30°   | 22°   | 22°  | Not Available  |
| Femoral Head  | Metal & Ceramic  | Metal & Ceramic   | Metal & Ceramic   | Metal & Ceramic  | Metal & Ceramic  |
| Head/Liner Size (mm)  | 28/42<br>32/46<br>36/48<br>40/54   | 28/44<br>32/48<br>36/50<br>40/56  | 28/42<br>32/44<br>36/50<br>40/54  | 28/46<br>32/48<br>36/52  | 28/44<br>32/48<br>36/52  |
| Polyethylene Name   | XPE & E-XPE  | Legend  | XLE Vitamin E   | XPE  | XLPR & E-Link  |
| Highly Crosslinked  | Yes  | Yes   | Yes   | Yes  | Yes  |
| Liner Options   | Standard<br>20° lipped   | Neutral<br>Hooded<br>+4 10° Face Changing<br>+4 mm Lateralized  | Neutral<br>Lipped<br>+5 10° Face Changing<br>+5 mm Lateralized  | Flat<br>Hooded 10°<br>Offset +4mm<br>Face-Changing 10°   | Standard<br>Low Profile<br>Hooded  |
| Minimum Thickness at Dome (mm)  | 5.9mm  | 5.3mm   | Not Available   | Not Available  | Not Available  |
| Minimum Thickness at 45° (mm)   | 5.3mm  | 4.8mm   | 4.8mm   | Not Available  | 5.7mm  |
| Antioxidant Process   | Blended Vit E  | NA  | Blended Vit E   | NA   | Blended Vit E  |
| Radiation Dose (kGy)  | 75 Gamma   | 75 Gamma  | 100 Gamma   | Not Available  | 100 Gamma  |
| Thermal Treatment   | Remelt   | Remelt  | Remelt  | Not Available  | Remelt   |
| Final Sterilization   | ETO  | ETO   | ETO   | Not Available  | ETO  |

|   |  |   |  |   |   |
|---|--|---|--|---|---|
|  |  UNITED ORTHOPEDIC®      |  MicroPort Orthopedics |  Consensus Orthopedics |  Corin<br>Connected Orthopaedic Insight |  AESCULAP Implant Systems |
|   |  U-Motion II PLUS™      |  PRIME                |  CS2™                 |  Trinity™                              |  PLASMAFIT PRO®          |
|   |                         |                       |                       |                                        |                          |
| Configurations  | No-Hole, Cluster hole & Multi-hole   | No-Hole, Cluster hole & Multi-hole  | No-Hole, Cluster hole & Multi-hole   | No-Hole & Cluster hole  | No-Hole & Cluster hole  |
| Coating Material  | Titanium Plasma Plus & titanium Plasma with HA (Multi-hole)<br>70 µm<br>Pore Size 339±48<br>Porosity 40% | Titanium BioFoam<br>60-70% Porosity   | Titanium Plasma Spray (sintered structured beads)<br>72% Porosity  | TPS with Biomimetic Technology<br>70% Porosity  | Titanium Plasma Spray (sintered structured beads)<br>72% Porosity   |
| Coefficient of Friction   | 1.4  | Not Available   | 1.35   | Not Available   | 1.35  |
| Cup Sizes   | 44mm - 70mm Diameter   | 46mm - 68mm Diameter  | 42mm - 68mm Diameter   | 44mm - 68mm Diameter  | 46mm - 68mm Diameter  |
| Ream  | Line to Line   | Line to Line  | Under Ream by 1mm  | Line to Line  | Line to Line  |
| Screw Angulation  | 32°  | 18°   | 22°  | Not Available   | 18°   |
| Femoral Head  | Metal & Ceramic  | Metal & Ceramic   | Metal & Ceramic  | Metal & Ceramic   | Metal & Ceramic   |
| Head/Liner Size (mm)  | 28/42<br>32/46<br>36/48<br>40/54   | 28/46<br>32/46<br>36/50<br>40/58  | 28/46<br>32/48<br>36/52  | 28/44<br>32/46<br>36/50<br>40/60  | 28/46<br>32/48<br>6/52<br>40/56   |
| Polyethylene Name   | XPE & E-XPE  | A-Class & E-Class   | CS2  | HXLPE & ECiMa   | Vitelene  |
| Highly Crosslinked  | Yes  | Yes   | Yes  | Yes   | Yes   |
| Liner Options   | Standard<br>20° lipped   | Standard<br>Lipped<br>+4 lateralized<br>+4 10° Face-Changing  | Standard<br>10° & 20° Hooded<br>+5 lateralized<br>+5 10° Face-Changing<br>+5 20° Face-Changing           | Neutral<br>+4 lateralized   | Symmetrical<br>10° Posterior Wall<br>10° Asymmetrical (FC)  |
| Minimum Thickness at Dome (mm)  | 5.9mm  | Not Available   | Not Available  | Not Available   | Not Available   |
| Minimum Thickness at 45° (mm)   | 5.3mm  | Not Available   | Not Available  | Not Available   | Not Available   |
| Antioxidant Process   | Blended Vit E  | Blended Vit E   | Blended Vit E  | Blended Vit E   | Blended Vit E   |
| Radiation Dose (kGy)  | 75 Gamma   | Not Available   | 75 Gamma   | 75 Gamma  | 75 Gamma  |
| Thermal Treatment   | Remelt   | NA  | Remelt   | Anneal  | Remelt  |
| Final Sterilization   | EtO  | EtO   | EtO  | EtO   | EtO   |

THANK YOU