merete®

# The Original BioBall® System

Enhanced Flexibility in Primary and Revision Hip Arthroplasty


**BioBall® System**

Merete® Innovative Hip Solutions

## Merete stands for expert orthopaedic and trauma surgery solutions.

The market for bone surgical medical devices relies upon tested solutions. By developing simple solutions for difficult problems, Merete has blazed trails that have now become gold standards in medical technology. The story of BioBall® as a simple yet unparalleled system has been continued through other Merete products and solutions. Merete GmbH's impressive product families are sophisticated modular systems that allow optimum results under practically any intraoperative circumstances.

Alexia Anapliotis,
CEO Merete GmbH

## Learn more about Merete.

**Follow us on LinkedIn and YouTube.**

youtube.com/user/MereteMedical

linkedin.com/company/merete-medical-gmbh

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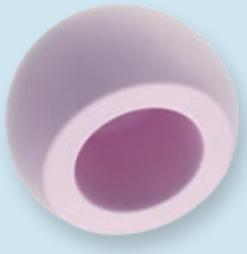

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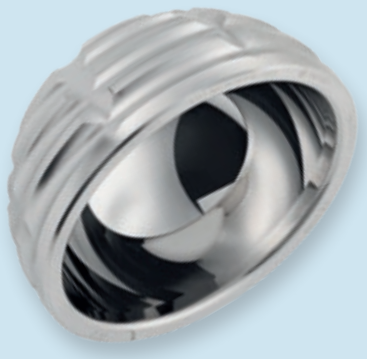

## BioBall® MaxiMotion™ Cup TPS Coating with BONIT®, non-cemented

## BioBall® MaxiMotion™ XPE Inlay
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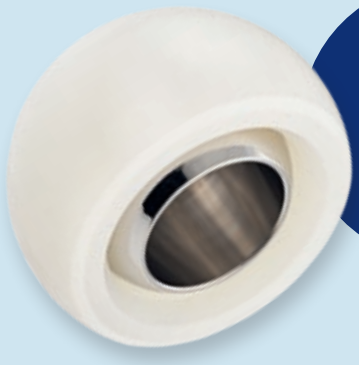


**No pressing** of femoral head and inlay intra-operatively necessary.

## BioBall® MaxiMotion™ XPE Inlay
with preassembled BioBall DELTA™ ceramic* head

**No pressing** of femoral head and inlay intra-operatively necessary.

## BioBall® Adapter Offset 12/14

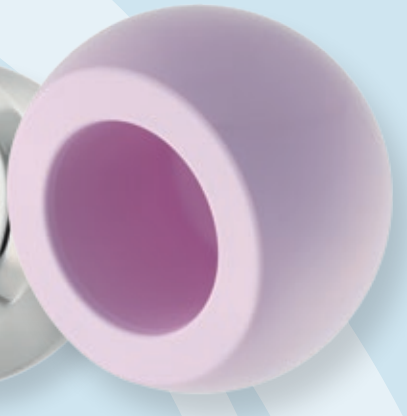
## BioBall® Adapter Offset 14/16

Additional adapter sizes (tapers / angles) available on request.

* **Material:**
BIOLOX® delta ceramic from CeramTec GmbH.


BioBall® Adapter
Standard and Offset


BioBall®
Metal Head



BioBall DELTA™
Ceramic Head

# BioBall® Adapter System

## The Gold Standard in Revision Surgery

Merete brought the BioBall® System onto the market as a "modular joint prosthesis system" at the end of the 1990s. In the meantime, it has become the gold standard in revision hip arthroplasty surgery. The BioBall® Adapter, consisting of titanium alloy, allows intra-operative correction of neck length as well as antetorsion/retrotorsion and lateralisation/medialisation on in situ stems. This significantly improves the gait pattern and reduces the dislocation risk. With its offset components and special tapers, the system ought to be available in every hospital as a solution for unexpected situations in primary endoprosthetic care as well.

When it comes to revision surgeries, the BioBall® System offers another unique feature:
With stems left in situ with previously used tapers, the BioBall® Adapter compensates mild deformation of the taper surface.

**Depending on the specific model, BioBall® Adapters are available in sizes ranging from S - 5XL, as standard or offset versions, for 12/14 and 14/16 tapers. Special adapters for additional tapers are available on request.**

## Characteristics

- Sliding pair revisions
- Intraoperative correction of neck length
- Intraoperative correction of retro-/antetorsion
- Intraoperative correction of lateralisation/medialisation
- Adjustment of leg length discrepancy in the context of soft tissue management

Scan the QR code and learn more about surgical techniques.

With kind support from PD Dr. med. Patrick Weber, ATOS Clinic, Munich.

# Implant Ordering Information

| BioBall® Adapter Standard 12/14 Sterile | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Neck length** | S (-3.0) | M (0) | L (+3.5) | XL (+7.0) | 2XL (+10.5) | 3XL (+14.0) | 4XL (+17.5) | 5XL (+21.0) |
| **Ref.** | HM30121 | HM30122 | HM30123 | HM30124 | HM30125 | HM30126 | HM30127 | HM30128 |

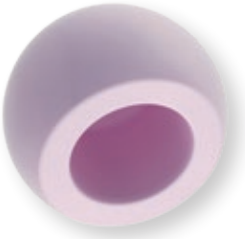
| BioBall® Adapter Offset 12/14 Sterile | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Neck length** | M (0) | L (+3.5) | XL (+7.0) | 2XL (+10.5) | 3XL (+14.0) | 4XL (+17.5) | 5XL (+21.0) |
| **Offset (mm)** | 1.1 | 1.2 | 1.3 | 1.5 | 2.0 | 2.5 | 3.0 |
| **Ref.** | HM30222 | HM30223 | HM30224 | HM30225 | HM30226 | HM30227 | HM30228 |

| BioBall® Adapter Standard 14/16 Sterile | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Neck length** | M (0) | L (+3.5) | XL (+7.0) | 2XL (+10.5) | 3XL (+14.0) | 4XL (+17.5) | 5XL (+21.0) |
| **Ref.** | HM30142 | HM30143 | HM30144 | HM30145 | HM30146 | HM30147 | HM30148 |

| BioBall® Adapter Offset 14/16 Sterile | | | | |
|---|---|---|---|---|
| **Neck length** | 2XL (+10.5) | 3XL (+14.0) | 4XL (+17.5) | 5XL (+21.0) |
| **Offset (mm)** | 1.4 | 1.5 | 2.0 | 2.5 |
| **Ref.** | HM30445 | HM30446 | HM30447 | HM30448 |

# Implant Ordering Information

## BioBall DELTA™ Ceramic Head



Material:
BIOLOX® delta ceramic*

| Size (mm) | Ref. |
|---|---|
| ∅28 | HM50028 |
| ∅32 | HM50032 |
| ∅36 | HM50036 |

## BioBall® Metal Head

Material:
Vivium®**

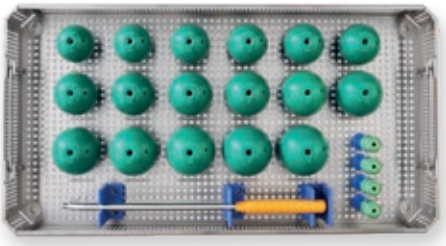
| Size (mm) | Ref. |
|---|---|
| ∅28 | HM30028 |
| ∅32 | HM30032 |
| ∅36 | HM30036 |

## BioBall® Bipolar Duo Head

with preassembled BioBall® Metal Heads, suitable for all BioBall® Adapters

Material:
Vivium®**, UHMWPE

| Size (mm) | Ref. Duo Head | Ref. Trial head | Size Metal Head (mm) |
|---|---|---|---|
| ∅42 | HM30342 | HM40342 | ∅28 |
| ∅43 | HM30343 | HM40343 | ∅28 |
| ∅44 | HM30344 | HM40344 | ∅28 |
| ∅45 | HM30345 | HM40345 | ∅28 |
| ∅46 | HM30346 | HM40346 | ∅28 |
| ∅47 | HM30347 | HM40347 | ∅28 |
| ∅48 | HM30348 | HM40348 | ∅28 |
| ∅49 | HM30349 | HM40349 | ∅28 |
| ∅50 | HM30350 | HM40350 | ∅32 |
| ∅51 | HM30351 | HM40351 | ∅32 |
| ∅52 | HM30352 | HM40352 | ∅32 |
| ∅53 | HM30353 | HM40353 | ∅32 |
| ∅54 | HM30354 | HM40354 | ∅32 |
| ∅55 | HM30355 | HM40355 | ∅32 |
| ∅56 | HM30356 | HM40356 | ∅32 |
| ∅57 | HM30357 | HM40357 | ∅32 |
| ∅58 | HM30358 | HM40358 | ∅32 |



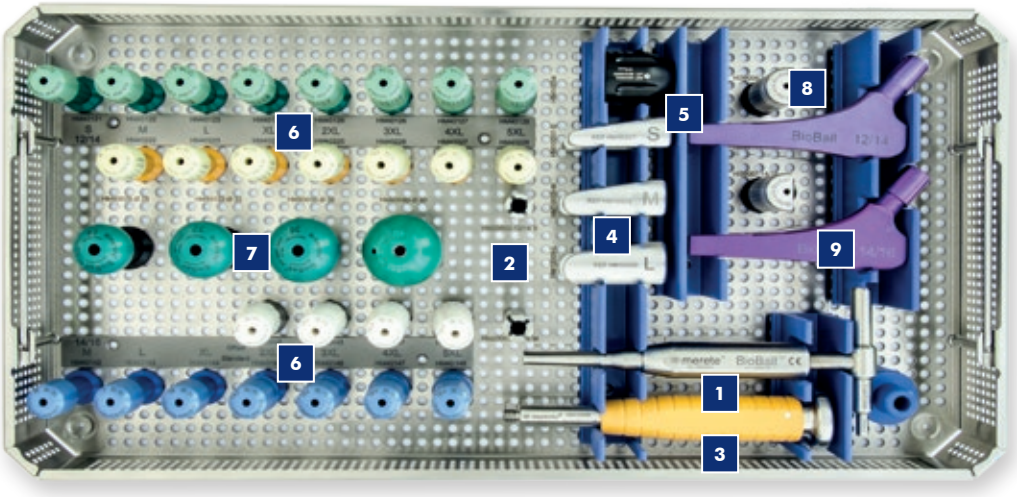
| Description | Ref. |
|---|---|
| Instrument Tray | HM20500 |

*BIOLOX® delta is a registered trademark of CeramTec GmbH.

**Vivium® is a registered trademark of Merete GmbH.

# Instrument Ordering Information

## Instrument Tray




| Description | Ref. |
|---|---|
| Instrument Tray | HM30770 |

## 1 Separator

| Description | Ref. |
|---|---|
| Separator | HM20001 |

| Adapter Sleeve for Adapter 12/14 S | Ref. |
|---|---|
| 2  | HM20002 |
| **Adapter Sleeve for Adapter 14/16 M** | **Ref.** |
| 2  | HM20003 |

## 3 Universal Handle

| Description | Ref. |
|---|---|
| Universal Handle | HM10005 |

| Separator Wedge | Size | Ref. |
|---|---|---|
| 4  | S | HM10007 |
| 4  | M | HM10008 |
| 4  | L | HM10009 |
| **Head Impactor** | | **Ref.** |
| 5  | | HM10004 |

# Instrument Ordering Information

## 6 Trial Adapter



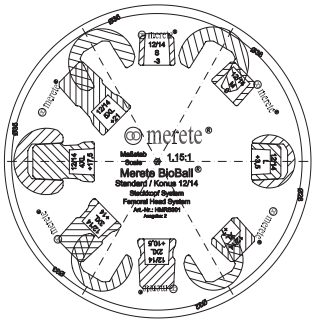

| Length | Ref. Standard 12/14 | Ref. Offset 12/14 | Ref. Standard 14/16 | Ref. Offset 14/16 |
|---|---|---|---|---|
| S (-3.0) | HM40121 | – | – | – |
| M (0) | HM40122 | HM40222 | HM40142 | – |
| L (+3.5) | HM40123 | HM40223 | HM40143 | – |
| XL (+7.0) | HM40124 | HM40224 | HM40144 | – |
| 2XL (+10.5) | HM40125 | HM40225 | HM40145 | HM40445 |
| 3XL (+14.0) | HM40126 | HM40226 | HM40146 | HM40446 |
| 4XL (+17.5) | HM40127 | HM40227 | HM40147 | HM40447 |
| 5XL (+21.0) | HM40128 | HM40228 | HM40148 | HM40448 |

## 7 BioBall® Trial Heads

| Ø | Ref. |
|---|---|
| 28 | HM40028 |
| 32 | HM40132 |
| 36 | HM40036 |
| 40 | HM40040 |

Additional sizes on request.

## X-ray Template



| For BioBall® Adapter | Ref. |
|---|---|
| 12/14 Standard | HMRS0001 |
| 12/14 Offset | HMRS0005 |
| 14/16 Standard | HMRS0002 |
| 14/16 Offset | HMRS0006 |

## 8 BioBall® AdapterSelector™

| For taper | Ref. |
|---|---|
| 12/14 | HI39006 |
| 14/16 | HI39007 |

## 9 Offset PositionAssistant

| Name | Ref. |
|---|---|
| Offset PositionAssistant 12/14 | HM39106 |
| Offset PositionAssistant 14/16 | HM39107 |

# BioBall® AdapterSelector™

How do you identify and why do you document taper geometry on in situ stems during revision? Four reasons why you should know the BioBall® AdapterSelector™.

1 Once a surgeon has decided to leave an existing prosthesis stem in place during revision, visual and haptic inspection of the smooth, reflective surfaces is often not enough to determine what the taper is made of. As a technical and mechanical testing instrument, the BioBall® AdapterSelector™ provides information on whether this is the previously defined taper and whether it is damaged.

2 Many manufacturers offer hip stems with different taper geometries. In addition, patients from other countries, or those who underwent surgery abroad, often have very old or unfamiliar models and no endoprosthesis record cards. The patented BioBall® AdapterSelector™ helps surgeons inspect the stem taper to determine the correct BioBall® Adapter with great certainty.

3 Documented proof that an intraoperative fit check was performed also offers additional security from a legal perspective. If you do a check using the AdapterSelector™ prior to using the BioBall® System, you can document that check in your surgical report.

4 The BioBall® AdapterSelector™ is the only testing instrument worldwide approved for testing taper geometry . No other instrument in the world allows you to perform an approved, recognised taper geometry check and thus ensure that your selected BioBall® Adapter will fit properly.


Scan the QR code and learn more about handling the BioBall® AdapterSelector™.

# Handling - Step by Step

## Step 1

Remove the existing head of the in situ stem.

## Step 2

The taper should be clean and dry before the BioBall® AdapterSelector™ is inserted.

## Step 3

Apply slight pressure and turn clockwise to place the BioBall® AdapterSelector™ onto the stem taper. Check whether the taper's flat face is positioned between the two arrows.

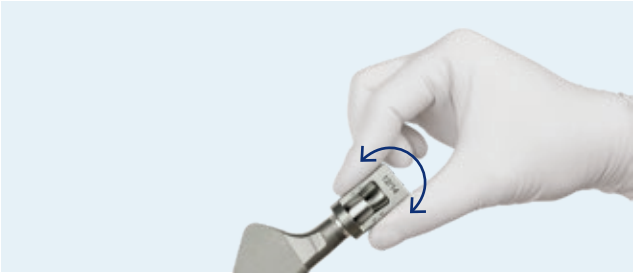
If it is positioned above or below these markings on the BioBall® AdapterSelector™, the stem taper is not the same as the taper indicated on the BioBall® Adapter-Selector™.


## Step 4

Then visually inspect the lateral accuracy of fit and check to see whether there is a gap in the upper or lower taper region between the stem taper and the BioBall® AdapterSelector™.


## Step 5

Test the clamp connection on the BioBall® Adapter-Selector™ with a sideways tipping movement. If this movement causes rattling or tipping in the BioBall® AdapterSelector™, the stem taper is not the same as the taper indicated on the BioBall® AdapterSelector™.



## Step 6

After checking the taper geometry with the help of the BioBall® AdapterSelector™, examine the entire taper surface. Start with the taper's flat face visible in the opening of the BioBall® AdapterSelector™. Then remove the BioBall® AdapterSelector™ and examine the entire taper surface.

# BioBall® AdapterSelector™ for Special Tapers –

## the Flexible-Use Head System for Various Taper Geometries.

There are still no uniform standards in place for prosthesis stem tapers. Implant manufacturers continue to use tapers designed to their own individual specifications that differ from the others in terms of geometry structure and surface. Neck length sizes (S, M, L, etc.) are not standardised and may vary significantly from manufacturer to manufacturer.

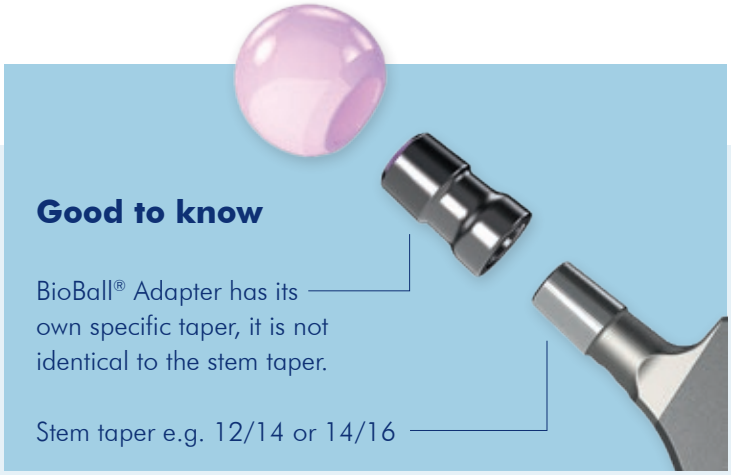
Besides standard and offset **BioBall® Adapters**, we also offer **BioBall® Adapters for special tapers**, for a wide variety of taper geometries from other manufacturers.

## Characteristics

**BioBall® Adapter for Special Tapers**
The adapter can compensate misalignment between the prosthesis stem and the acetabular cup. Neck length and offset can be individually selected and adjusted.

- Sliding pair revisions
- Intraoperative correction of retro-/antetorsion
- Intraoperative correction of neck length
- Intraoperative correction of lateralisation/medialisation
- Adjustment of leg length discrepancy in the context of soft tissue management


**BioBall® AdapterSelector™ MST1 and BioBall® AdapterSelector™ MSV4**



For final verification of the taper of the existing stem, and to ensure conformity with legal documentation requirements, always use the recommended BioBall® AdapterSelector™. This is the only reliable means of selecting the appropriate BioBall® Adapter and guaranteeing its technical and medical functionality.

## Selection of different Taper Variants

| Manu-facturer | Description | Taper | Taper checking with BioBall® Adapter Selector™ | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 12/14 | 14/16 | **MS**T1 | **MS**ZI | **MS**SR | **MS**BG | **MS**V4 | **MS**PC | **MS**SY | **MS**10/12 | **MS**8/10 |
| **Biomet/ Zimmer[1]** | 12/14 | 12/14 | × | | | | | | | | | | |
| | Type I | 11/13 | | | × | | | | | | | | |
| | 6 Degree Taper | 10/12 | | | | × | | | | | | | |
| **DePuy[2]** | Articul/eze® Taper[2] | 12/14 | × | | | | | | | | | | |
| | Large Taper | 14/16 | | × | | | | | | | | | |
| | S-ROM® Taper[2] | 11/13 | | | | | × | | | | | | |
| **Waldemar Link[3]** | 12/14 | 12/14 | × | | | | | | | | | | |
| | 14/16 | 14/16 | | × | | | | | | | | | |
| **Smith& Nephew[4]** | 12/14 | 12/14 | × | | | | | | | | | | |
| | 10/12 | 10/12 | | | | | | | | | | × | |
| **Stryker[5]/ How-medica[6]** | C-Taper | 12/14 | × | | | | | | | | | | |
| | 14/16 | 14/16 | | × | | | | | | | | | |
| | V40™ | 11/12 | | | | | | | × | | | | |
| | 6° Taper | 14/16 | | | | | | × | | | | | |
| | PCA® Taper | 13/14 | | | | | | | | × | | | |
| **Symbios** | 6° | 10/12 | | | | | | | | | × | | |
| **Amplitude** | 12/14 | 12/14 | × | | | | | | | | | | |
| | 10/12 | 10/12 | | | | | | | | | | × | |
| **Aesculap** | 8/10 | 8/10 | | | | | | | | | | | × |

BioBall® Adapters for special tapers are only approved for use in combination with BioBall® Metal Heads. No biomechanical testing information is available on the usage of BioBall® Adapters with hip stems from other manufacturers. Consequently, only manufacturer-approved extensions may be used.

* Please see the overview for information on which BioBall® Adapters are available for special tapers. Our experienced staff would be glad to provide you with more in-depth consultation.

1 The name **Zimmer** is a registered trademark of Zimmer, Inc., Warsaw Ind., US/Biomet is a registered trademark of BIOMET Inc., Warsaw Ind., US

2 The names **DePuy** and **S-ROM** are registered trademarks of DePuy Synthes, Inc. Warsaw Ind., US

3 The name **Waldemar Link** is a registered trademark of Waldemar Link GmbH & Co. KG, 22339 Hamburg, Germany

4 The name **Smith&Nephew** is a registered trademark of Smith&Nephew Plc, WC2N 6LA, London, GB

5 The name **Stryker** is a registered trademark of Stryker Corp., Kalamazoo, MI US

6 The names **Howmedica** and **ABG** are registered trademarks of Howmedica Osteonics Corp., Mahwah, NJ US

# Ordering Information

## BioBall® AdapterSelector™

| Name | Ref. |
|---|---|
| BioBall® AdapterSelector™ MST1 | HI39001 |
| BioBall® AdapterSelector™ MSV4 | HI39002 |
| BioBall® AdapterSelector™ MS 10/12 | HI39003 |
| BioBall® AdapterSelector™ MSZI | HI39004 |
| BioBall® AdapterSelector™ MS 8/10 | HI39005 |
| BioBall® AdapterSelector™ 12/14 | HI39006 |

| Name | Ref. |
|---|---|
| BioBall® AdapterSelector™ 14/16 | HI39007 |
| BioBall® AdapterSelector™ MSBG | HI39008 |
| BioBall® AdapterSelector™ MSPC | HI39009 |
| BioBall® AdapterSelector™ MSSR | HI39010 |
| BioBall® AdapterSelector™ MSSY | HI39012 |

## BioBall® Adapter Standard for Special Tapers

| BioBall® Adapter Neck length | MSZI (10/12) | MST1 (11/13) | MSV4 (11/12) | MSBG (14/16) | MSPC (13/14) | MSSR (11/13) | MSSY (10/12) |
|---|---|---|---|---|---|---|---|
| S (-3mm) | HM33121 | — | — | — | — | — | HM37121 |
| M (0mm) | HM33122 | HM36002 | HM34122 | HM31142 | HM31132 | HM31152 | HM37122 |
| L (3,5mm) | HM33123 | HM36003 | HM34123 | HM31143 | HM31133 | HM31153 | HM37123 |
| XL (7mm) | HM33124 | HM36004 | HM34124 | HM31144 | — | HM31154 | HM37124 |
| 2XL (10,5mm) | HM33125 | HM36005 | HM34125 | HM31145 | — | — | — |
| 3XL (14mm) | HM33126 | HM36006 | HM34126 | — | — | — | — |

## BioBall® Adapter Offset for Special Tapers

| BioBall® Adapter Neck length | MST1 (11/13) | MSV4 (11/12) |
|---|---|---|
| M (0mm) | HM36022 | HM34222 |
| L (3.5mm) | HM36023 | HM34223 |
| XL (7mm) | HM36024 | HM34224 |
| 2XL (10.5mm) | HM36025 | HM34225 |
| 3XL (14mm) | HM36026 | HM34226 |

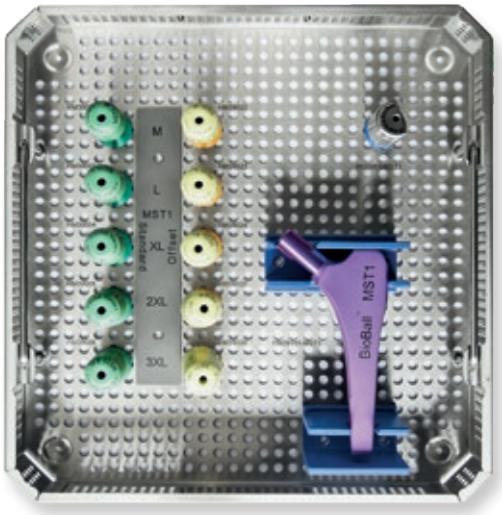
Custom designs are available for other tapers on request.

**Note**
Please see the overview in the surgical technique BioBall® (HDB001) for available combinations BioBall® Adapters with BioBall®Metal Heads and BioBall DELTA™ Ceramic Heads.

**Extra Trays** (as an add-on or as needed; with trial adapters; non-sterile)

| Name | Ref. |
|---|---|
| 1 BioBall® Instrument Tray MST1 | HM30730 |
| 2 BioBall® Instrument Tray MSV4 | HM30750 |
| 3 BioBall® Instrument Tray MSBG/MSPC/ MSSR | HM30740 |
| 4 BioBall® Instrument Tray with General Instruments | HM30785 |
| BioBall® Instrument Tray MSZI | on request |
| BioBall® Instrument Tray MSSYI | on request |

1

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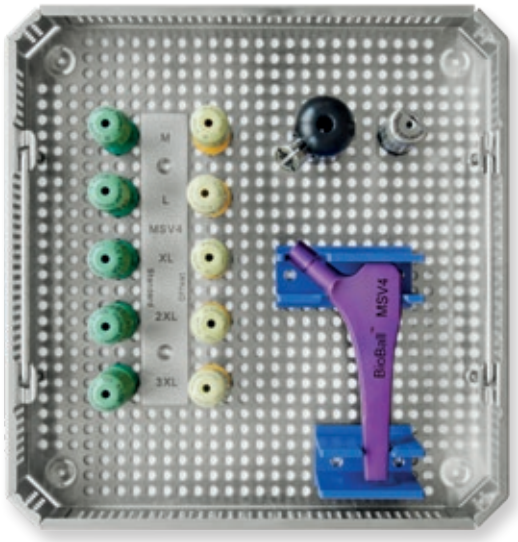


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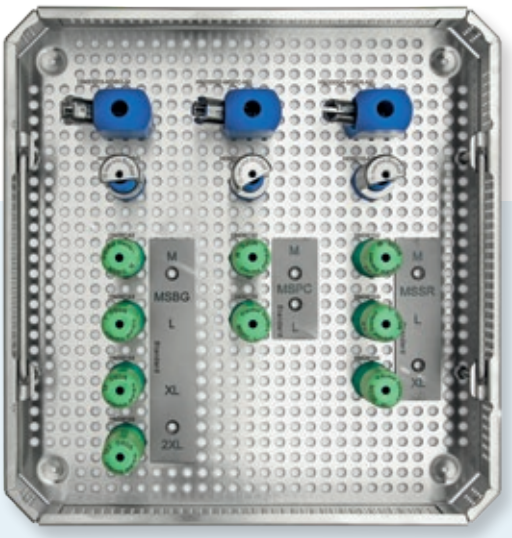


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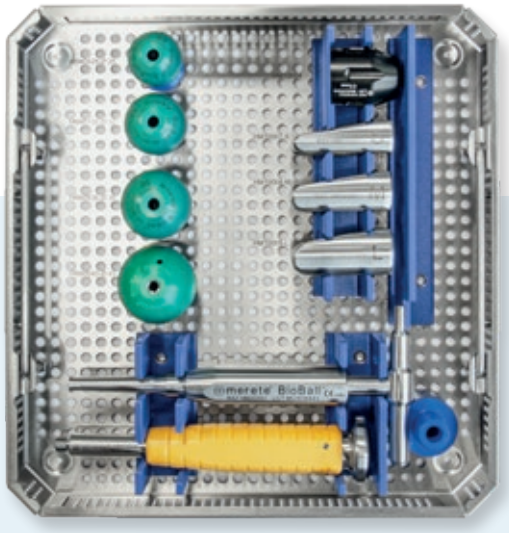
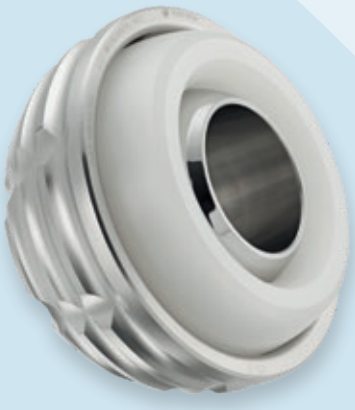




BioBall® MaxiMotion™ Cup, cemented

BioBall® MaxiMotion™ Cup TPS Coating with BONIT®, non-cemented

BioBall® Adapter Standard

# BioBall® MaxiMotion™ Cup

## Modular Dual Mobility Cup

### The proven BioBall® System can now be combined with the Dual Mobility Concept.

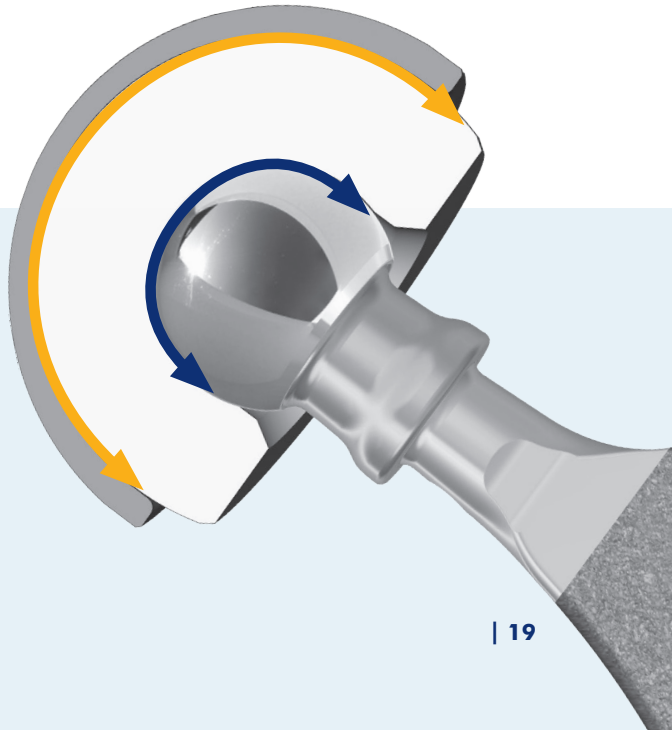
Dislocation is one of the most common complications following primary or revision arthroplasty. Dual Mobility implants improve prosthetic stability and increase range of motion dramatically.

The BioBall® MaxiMotion™ Dual Mobility Cup is a logical expansion to the Merete® BioBall® Adapter System (to be used only in combination with that system).

The result? A great deal of intra-operative flexibility (neck length/offset) plus minimal dislocation risk to give your patients maximum mobility support.

### Why the BioBall® MaxiMotion™ Cup?

- The Dual Mobility Concept combines the low friction of small-diameter heads and the exceptional joint stability of large-head prosthetics.
- Effectively lowers dislocation risk by combining the Dual Mobility Concept with BioBall® Adapters.
- Combines with all adapter sizes (standard and offset) in the tried-and-true BioBall® System for even more intraoperative flexibility.
- Available as a cemented or non-cemented system, with a preassembled 28 mm-diameter BioBall® Metal or BioBall DELTA™ Ceramic Head.
- The BioBall® Head is already preassembled in the inlay and eliminating the need to press them together on site.
- Wear behaviour tests in an accredited testing laboratory confirm low wear rates.



Scan the QR code and learn more about surgical techniques.

With kind support from Head Physician Christoph Kruis, Rotkreuzklinik Lindenberg.

# Implant Ordering Information

## BioBall® MaxiMotion™ Cup non-cemented

Material: Vivium™, TPS coating with BONIT®

| Size (mm) | Ref. |
|---|---|
| Ø 46 | HM35346 |
| Ø 48 | HM35348 |
| Ø 50 | HM35350 |
| Ø 52 | HM35352 |
| Ø 54 | HM35354 |
| Ø 56 | HM35356 |

| Size (mm) | Ref. |
|---|---|
| Ø 58 | HM35358 |
| Ø 60 | HM35360 |
| Ø 62 | HM35362 |
| Ø 64 | HM35364 |
| Ø 66 | HM35366 |
| Ø 68 | HM35368 |

## BioBall® MaxiMotion™ Cup cemented

Material: Vivium™

| Size (mm) | Ref. |
|---|---|
| Ø 46 | HM35146 |
| Ø 48 | HM35148 |
| Ø 50 | HM35150 |
| Ø 52 | HM35152 |
| Ø 54 | HM35154 |
| Ø 56 | HM35156 |

| Size (mm) | Ref. |
|---|---|
| Ø 58 | HM35158 |
| Ø 60 | HM35160 |
| Ø 62 | HM35162 |
| Ø 64 | HM35164 |
| Ø 66 | HM35166 |
| Ø 68 | HM35168 |

## BioBall® MaxiMotion™ XPE Inlay*

Material: UHMWPE with BioBall DELTA™ Ceramic Head (28 mm diameter)

| Size (mm) | Ref. |
|---|---|
| Ø 46 | HM35669 |
| Ø 48 | HM35670 |
| Ø 50 | HM35671 |
| Ø 52 | HM35672 |
| Ø 54 | HM35673 |
| Ø 56 | HM35674 |

| Size (mm) | Ref. |
|---|---|
| Ø 58 | HM35675 |
| Ø 60 | HM35676 |
| Ø 62 | HM35677 |
| Ø 64 | HM35678 |
| Ø 66 | HM35679 |
| Ø 68 | HM35680 |

## BioBall® MaxiMotion™ XPE Inlay

Material: Vivium™, UHMWPE with BioBall® Metal Head (28 mm diameter)

| Size (mm) | Ref. |
|---|---|
| Ø 46 | HM35069 |
| Ø 48 | HM35070 |
| Ø 50 | HM35071 |
| Ø 52 | HM35072 |
| Ø 54 | HM35073 |
| Ø 56 | HM35074 |

| Size (mm) | Ref. |
|---|---|
| Ø 58 | HM35075 |
| Ø 60 | HM35076 |
| Ø 62 | HM35077 |
| Ø 64 | HM35078 |
| Ø 66 | HM35079 |
| Ø 68 | HM35080 |

*BIOLOX® delta is a registered trademark of CeramTec GmbH.

# Instrument Ordering Information

## Instructions for digital planning

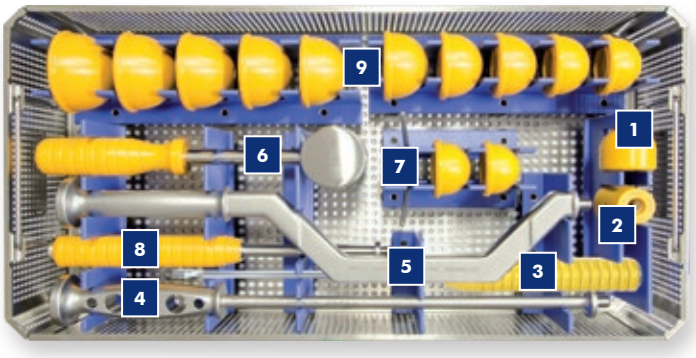
Merete® hip products are included in several databases of digital surgical planning tools. For more information about which systems are supported, contact Merete GmbH.

mediCAD®
The Orthopedic Solution

## X-ray template

| Name | Ref. |
|---|---|
| For BioBall® MaxiMotion™ non-cemented | HMRS112 |
| For BioBall® MaxiMotion™ cemented | HMRS114 |

# Instrument Tray




| Name | Ref. |
|---|---|
| Instrument Tray | HM35506 |

| Name | Ref. |
|---|---|
| 1 Impactor Head | HM35508 |
| 2 Impactor Tip | HM35505 |
| 3 Corrective Impactor | HM35509 |
| 4 Seating Instrument (straight) | HM35500 |
| 5 Seating Instrument (curved) | HM35501 |
| 6 Slotted Hammer | AI00048 |
| 7 Aiming Device | HM35502 |
| 8 Head Impactor Handle | HI70038 |

## 9 Impactor Plate

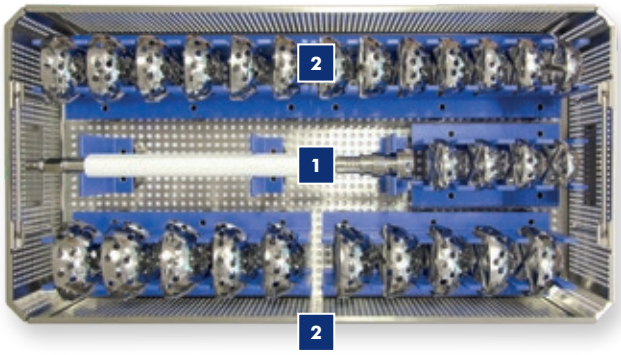
**Note**
Color can vary (black or yellow)

| Size (mm) | Ref. |
|---|---|
| Ø 46 | HM35546 |
| Ø 48 | HM35548 |
| Ø 50 | HM35550 |
| Ø 52 | HM35552 |
| Ø 54 | HM35554 |
| Ø 56 | HM35556 |

| Size (mm) | Ref. |
|---|---|
| Ø 58 | HM35558 |
| Ø 60 | HM35560 |
| Ø 62 | HM35562 |
| Ø 64 | HM35564 |
| Ø 66 | HM35566 |
| Ø 68 | HM35568 |

# Reamer Ordering Information

## Spherical Reamer Tray



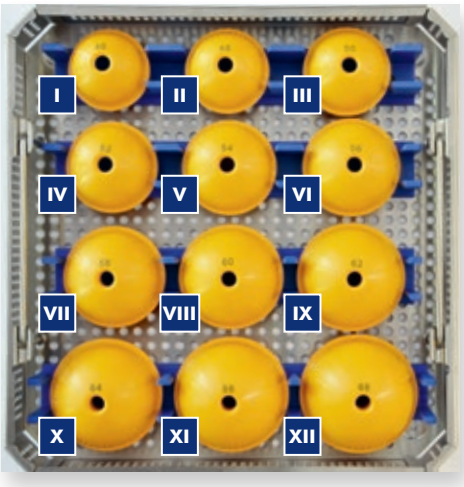

| Description | Ref. |
|---|---|
| Spherical Reamer Tray | HF12080 |

| Description | Ref. |
|---|---|
| 1 Handle for Reamer with AO coupling | HF13006 |

**Optional**

| Description | Ref. |
|---|---|
| Handle for Offset Reamer with AO coupling | HF13010 |

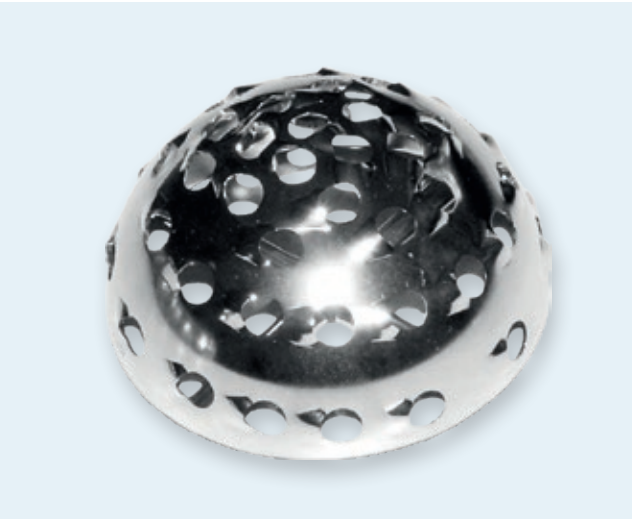
## BioBall® MaxiMotion™ Tray Trial Inlays




| Description | Ref. |
|---|---|
| BioBall® MaxiMotion™ Tray Trial Inlays | HM35507 |

| Nr. | Size (mm) | Ref. |
|---|---|---|
| I | Ø46 | HM35746 |
| II | Ø48 | HM35748 |
| III | Ø50 | HM35750 |
| IV | Ø52 | HM35752 |
| V | Ø54 | HM35754 |
| VI | Ø56 | HM35756 |
| VII | Ø58 | HM35758 |
| VIII | Ø60 | HM35760 |
| IX | Ø62 | HM35762 |
| X | Ø64 | HM35764 |
| XI | Ø66 | HM35766 |
| XII | Ø68 | HM35768 |

## 2 Spherical Reamer, individual



| Size (mm) | Ref. |
|---|---|
| Ø44 | HF12044 |
| Ø45 | HF12045 |
| Ø46 | HF12046 |
| Ø47 | HF12047 |
| Ø48 | HF12048 |
| Ø49 | HF12049 |
| Ø50 | HF12050 |
| Ø51 | HF12051 |
| Ø52 | HF12052 |
| Ø53 | HF12053 |
| Ø54 | HF12054 |
| Ø55 | HF12055 |
| Ø56 | HF12056 |
| Ø57 | HF12057 |
| Ø58 | HF12058 |
| Ø59 | HF12059 |

| Size (mm) | Ref. |
|---|---|
| Ø60 | HF12060 |
| Ø61 | HF12061 |
| Ø62 | HF12062 |
| Ø63 | HF12063 |
| Ø64 | HF12064 |
| Ø65 | HF12065 |
| Ø66 | HF12066 |
| Ø67 | HF12067 |
| Ø68 | HF12068 |
| Ø69 | HF12069 |
| Ø70 | HF12070 |
| Ø71 | HF12071 |
| Ø72 | HF12072 |
| Ø73 | HF12073 |
| Ø74 | HF12074 |

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