



BioBall® Adapter System

- Allows adjustment **without removing the well-fixed femoral stem**
- Enables precise **intraoperative correction of neck length and offset**, including retro-/antetorsion and medialisation/lateralisation
- Supports **11 taper geometries**
- Compatible with **BioBall® ceramic and metal heads**
- **BioBall® AdapterSelector®** ensures reliable taper size confirmation



BioBall® Instrument Trays

- **BioBall® 12/14 Instrument Tray** contains all instruments and radiopaque trials for safe visual control
- Dedicated **small trays for special adapters** for reliable intraoperative taper assessment



Taper Geometry Selection

Taper geometries are not standardised, they can be significantly different from one manufacturer to another.

Always use the **BioBall® AdapterSelector®** to check the precise match between the adapter and the stem taper, preventing misalignment and instability.



Manufacturer	Description	Taper	Validated by AdapterSelector®
Aesculap ¹	8/10	8/10	MS 8/10
	12/14	12/14	12/14
Amplitude ²	12/14	12/14	12/14
	10/12	10/12	MS 10/12
Biomet/Zimmer ³	12/14	12/14	12/14
	Type I	11/13	MST1
DePuy ⁴	6 Degree Taper	10/12	MSZ1
	Articul/eze® Taper	12/14	12/14
	Large Taper	14/16	14/16
Waldemar Link ⁵	S-ROM® Taper	11/13	MSSR
	12/14	12/14	12/14
Smith & Nephew ⁶	14/16	14/16	14/16
	10/12	10/12	MS 10/12
Stryker ⁷ /Howmedica ⁸	C-Taper	12/14	12/14
	14/16	14/16	14/16
	V40™	11/12	MSV4
	6°-Taper	14/16	MSBG
Symbios ⁹	PCA® Taper	13/14	MSPC
	6°	10/12	MSSY
	12/14	12/14	12/14

BioBall® Surgery Quick Guide

For detailed information, refer to the surgical technique.

- 1 Pre-operative planning**
Contact **Merete® Taper Identification Service** if taper is unknown.
- 2 BioBall® Instrument Tray**
Use pre-operative **planning software**. Have the **BioBall® 12/14 tray** ready, add special adapter tray if needed.
- 3 Removal of existing head**
Use **BioBall® Head Separating Wedge** to detach the existing head.
- 4 Visual check of taper**
Inspect the **stem taper**.
- 5 Verify taper compatibility**
Confirm with the **BioBall® AdapterSelector®**.
- 6 Visual trial (re)positioning**
Evaluate offset, neck length, ROM and soft tissue tension with **BioBall® trials**.
- 7 Final implantation**
Attach the **BioBall® adapter** and head on the taper.



Order Matrix – Tailored to Your Needs

	12/14		14/16		MS 8/10 (8/10)		MS 10/12 (10/12)		MSBG (14/16)		MSPC (13/14)		MSSR (11/13)		MSSY (10/12)		MST1 (11/13)		MSV4 (11/12)		MSZI (10/12)		
	Standard	Offset	Standard	Offset	Standard	Offset	Standard	Offset	Standard	Offset	Standard	Offset	Standard	Offset	Standard	Offset	Standard	Offset	Standard	Offset	Standard	Offset	
Compatibility with BioBall® Heads*	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Neck length	Ref.																						
S (-3.0 mm)	HM30121	-	-	-	HM32121	-	HM30101	-	-	-	-	-	-	-	HM37121	-	-	-	-	-	-	HM33121	-
M (0 mm)	HM30122	HM30222	HM30142	-	HM32122	HM32222	HM30102	HM30202	HM31142	-	HM31132	-	HM31152	-	HM37122	-	HM36002	HM36022	HM34122	HM34222	HM33122	-	-
L (+3.5 mm)	HM30123	HM30223	HM30143	-	HM32123	HM32223	HM30103	HM30203	HM31143	-	HM31133	-	HM31153	-	HM37123	-	HM36003	HM36023	HM34123	HM34223	HM33123	-	-
XL (+7.0 mm)	HM30124	HM30224	HM30144	-	HM32124	HM32224	HM30104	HM30204	HM31144	-	-	-	HM31154	-	HM37124	-	HM36004	HM36024	HM34124	HM34224	HM33124	-	-
2XL (+10.5 mm)	HM30125	HM30225	HM30145	HM30445	HM32125	HM32225	HM30105	HM30205	HM31145	-	-	-	-	-	-	-	HM36005	HM36025	HM34125	HM34225	HM33125	-	-
3XL (+14.0 mm)	HM30126	HM30226	HM30146	HM30446	-	-	HM30106	HM30206	-	-	-	-	-	-	-	-	HM36006	HM36026	HM34126	HM34226	HM33126	-	-
4XL (+17.5 mm)	HM30127	HM30227	HM30147	HM30447	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5XL (+21.0 mm)	HM30128	HM30228	HM30148	HM30448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BioBall® AdapterSelector®	HI39006		HI39007		HI39005		HI39003		HI39008		HI39009		HI39010		HI39012		HI39001		HI39002		HI39004		

- BioBall® Metal Heads (sizes Ø 28, 32, 33, 35, 36, 38 mm)
- BioBall® Ceramic Heads (sizes Ø 28, 32, 36, 40, 44, 48 mm)

* Offset version available only in sizes M, L, and XL for ceramic head

1. The name Aesculap is a registered trademark of B. Braun SE, Melsungen, Germany. 2. The name Amplitude is a registered trademark of AMPLITUDE SAS, Valence, France. 3. The name Zimmer is a registered trademark of Zimmer, Inc., Warsaw Ind., US/Biomet is a registered trademark of BIOMET Inc., Warsaw Ind., US. 4. The names DePuy and S-ROM are registered trademarks of DePuy Synthes, Inc., Warsaw Ind., US. 5. The name Waldemar Link is a registered trademark of Waldemar Link GmbH & Co. KG, 22339 Hamburg, Germany. 6. The name Smith & Nephew is a registered trademark of Smith&Nephew Plc, WCC2N 6LA, London, GB. 7. The name Stryker is a registered trademark of Stryker Corp., Kalamazoo, MI US. 8. The names Howmedica and ABG are registered trademarks of Howmedica Osteonics Corp., Mahwah, NJ US. 9. The name Symbios is a registered trademark of Symbios Orthopédie SA, Yverdon-les-Bains, Switzerland.

For further product information visit merete.de/en



Distributed by:

cardiva®