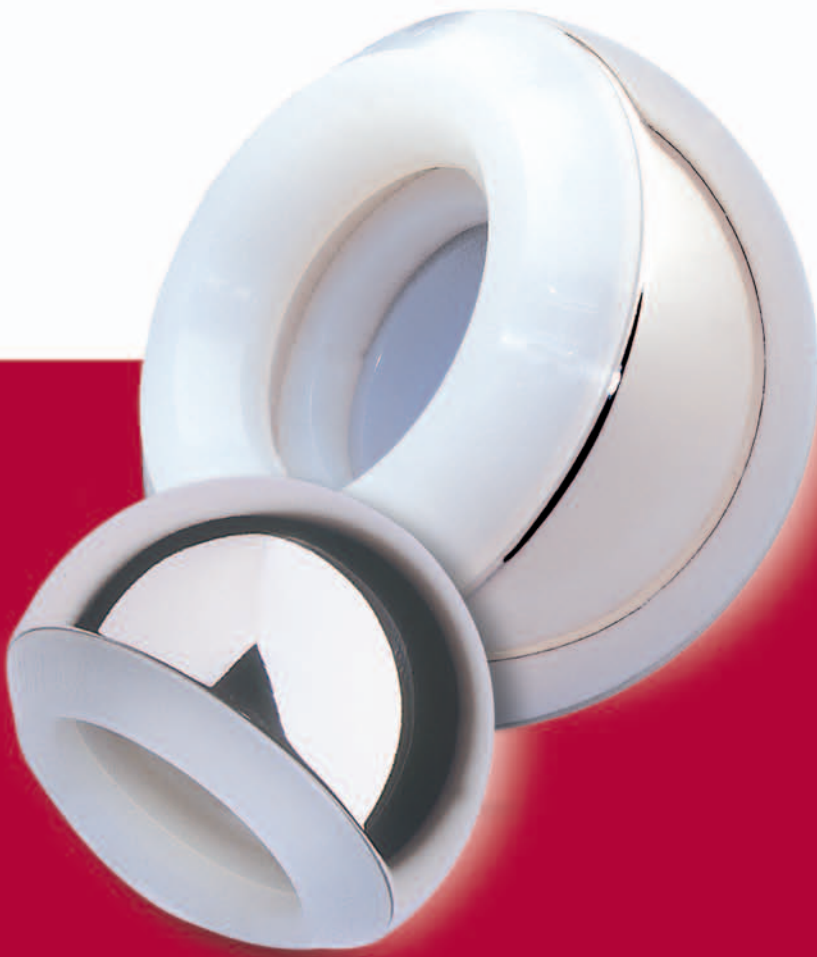


UHR®

Universal Head
Bipolar System



UHR®

Universal Head Bipolar System

The Stryker® UHR® Universal Head is a leader among bipolar component designs. Released in 1979 and patented in 1980, the UHR® Universal Head introduced two important design concepts to the field of orthopaedics.

The first was dynamic valgus, a neutral alignment of the head during component loading that minimised wear on the locking mechanism. The second was the development of a one-piece, positive locking mechanism that provided enhanced security against component disassembly. Both of these developments revolutionised bipolar designs.

Today, the UHR® Universal Head retains all the same design features and benefits, and has established effectiveness with 20 years of positive clinical use.^{1,2,3,4,5,6}

No other bipolar design can make that claim. Established design, easy-to-use instrumentation and versatility regarding femoral component selection make the UHR® Universal Head the logical choice for your hemiarthroplasty requirements.

Dynamic Valgus Alignment

Often referred to as positive eccentricity or self-centering, the concept of dynamic valgus alignment was introduced by Stryker® to provide increased head coverage during component loading.

UHR® Universal Head

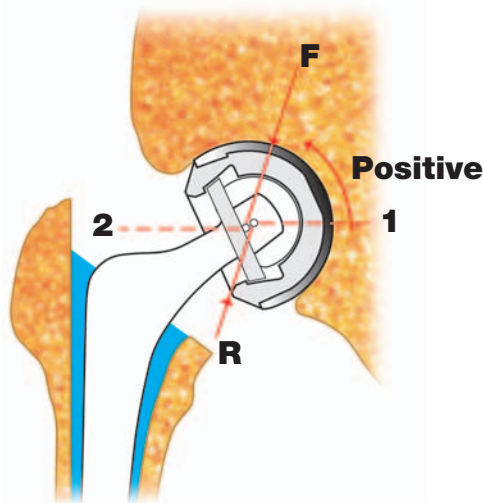


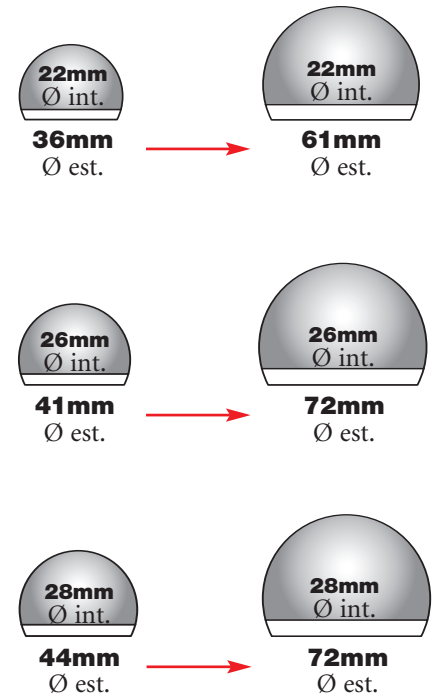
Diagram Key

- F** Force of patient weight
- R** Reaction force
- 1** Centre of inner head
- 2** Centre of outer head

A two millimetre displacement of the inner head centre toward the dome of the UHR® Universal Head minimises inner bearing articulation from occurring on the locking mechanism, thus sparing the mechanism from undue wear. (see diagram).

Optimal Fit

UHR® Heads are available in a large range of component sizes, 36mm to 72mm, allowing for precise patient matching and optimal patient fit.



Ordering Information

Implants/Instruments

Clinical History

25 years of clinical use have made the Stryker® UHR® Universal Head the premier bipolar system available today.
1,2,3,4,5,6

The UHR® Universal Head shows superior results when compared to traditional endoprosthetic devices.^{5,7,8}

Compatibility

The UHR® Universal Head component will mate with any Stryker® femoral component and bearing head sizes of either 22mm, 26mm or 28mm.

Implants



UHR® Universal Head System Comprehensive Size Array

Outer Diameters	Catalogue Number		
	22mm	Inner Diameters 26mm	28mm
36mm	UH1 36 22	–	–
38mm	UH1 38 22	–	–
40mm	UH1 40 22	–	–
41mm	UH1 41 22	UH1 41 26	–
42mm	UH1 42 22	UH1 42 26	–
43mm	UH1 43 22	UH1 43 26	–
44mm	UH1 44 22	UH1 44 26	UH1 44 28
45mm	UH1 45 22	UH1 45 26	UH1 45 28
46mm	UH1 46 22	UH1 46 26	UH1 46 28
47mm	UH1 47 22	UH1 47 26	UH1 47 28
48mm	UH1 48 22	UH1 48 26	UH1 48 28
49mm	UH1 49 22	UH1 49 26	UH1 49 28
50mm	UH1 50 22	UH1 50 26	UH1 50 28
51mm	UH1 51 22	UH1 51 26	UH1 51 28
52mm	UH1 52 22	UH1 52 26	UH1 52 28
53mm	UH1 53 22	UH1 53 26	UH1 53 28
54mm	UH1 54 22	UH1 54 26	UH1 54 28
55mm	UH1 55 22	UH1 55 26	UH1 55 28
56mm	UH1 56 22	UH1 56 26	UH1 56 28
58mm	UH1 58 22	UH1 58 26	UH1 58 28
61mm	UH1 61 22	UH1 61 26	UH1 61 28
64mm	–	UH1 64 26	UH1 64 28
68mm	–	UH1 68 26	UH1 68 28
72mm	–	UH1 72 26	UH1 72 28

Instruments



Trial Shells

Catalogue Number	Description
6825 2 238	Trial Shell OD 38
6825 2 239	Trial Shell OD 39
6825 2 240	Trial Shell OD 40
6825 9 941	Trial Shell OD 41
6825 9 942	Trial Shell OD 42
6825 9 943	Trial Shell OD 43
6825 9 944	Trial Shell OD 44
6825 9 945	Trial Shell OD 45
6825 9 946	Trial Shell OD 46
6825 9 947	Trial Shell OD 47
6825 9 948	Trial Shell OD 48
6825 9 949	Trial Shell OD 49
6825 9 950	Trial Shell OD 50
6825 9 951	Trial Shell OD 51
6825 9 952	Trial Shell OD 52
6825 9 953	Trial Shell OD 53
6825 9 954	Trial Shell OD 54
6825 9 955	Trial Shell OD 55
6825 9 956	Trial Shell OD 56
6825 9 958	Trial Shell OD 58
6825 9 961	Trial Shell OD 61
6825 9 964	Trial Shell OD 64
6825 9 968	Trial Shell OD 68
6825 9 972	Trial Shell OD 72



UHR® Head Removal Keys

Catalogue Number	Description
HI UHRK 3638 (36mm and 38mm head sizes only)	22mm UHR® Head Removal Key
HI UHRK 22	22mm UHR® Head Removal Key
HI-UHRK-26	26mm UHR® Head Removal Key
HI-UHRK-28	28mm UHR® Head Removal Key

NB. Stryker® does not recommend using trial heads with a UHR® implant.



Trial Adapters—to fit Trial Shells

Catalogue Number	Description
6825 2 950	22mm Trial Adapter (fits 38-40mmOD)
6825 2 955	22mm Trial Adapter (fits 41-43mmOD)
6825 2 960	22mm Trial Adapter (fits 44-61mmOD)
6825 2 941	26mm Trial Adapter (fits 41-43mmOD)
6825 2 944	26mm Trial Adapter (fits 44-72mmOD)
6825 2 940	28mm Trial Adapter (fits 44-72mmOD)

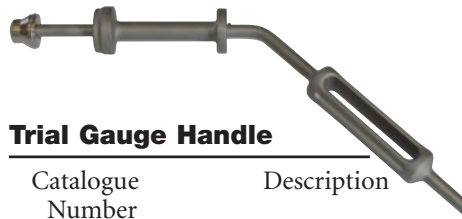
Sterilisation Case

Catalogue Number	Description
6825 9 900	Centrax™ Bipolar Trial/Gauge and Instrument Storage and Sterilisation Case with Two Trays.



Trial Adapter Inserter/Removal

Catalogue Number	Description
6825 2 970	22mm Bipolar Trial/Gauge Adapter Inserter/Removal Instrument
6825 9 105	26mm & 28mm Bipolar Trial/Gauge Adapter Inserter/Removal Instrument

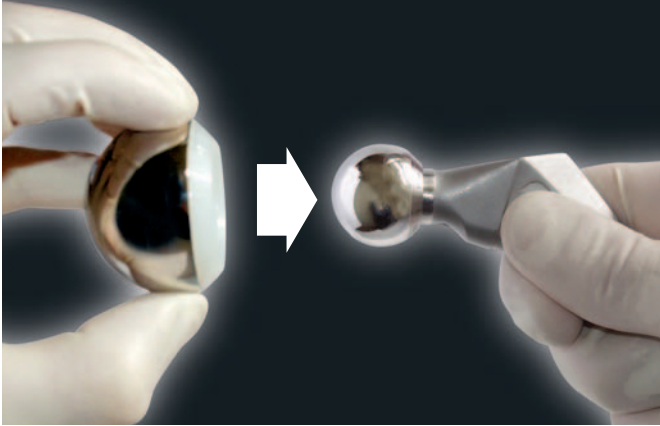


Trial Gauge Handle

Catalogue Number	Description
6825 2 965	22mm Bipolar Trial/Gauge Handle
6825 9 026	26mm Bipolar Trial/Gauge Handle
6825 9 028	28mm Bipolar Trial/Gauge Handle

One-Piece Locking Mechanism

Patented in 1980, this positive-locking design is easy to use, yet provides enhanced security against disassembly. Laboratory tests show that the UHR® Universal Head can be assembled by hand with less than 4lbs (pounds) of force, while disassembly requires more than 200lbs (pounds) of extraction force without the patented key.



UHR® Universal Head requires less than 4lbs of hand pressure for assembly.



Disassembly of the UHR® Universal Head using the patented key. 200lbs of force is required without its use.

Bevelled Lip

In the event of luxation the outer bevel decreases the chances of cup impingement on bony structures thereby increasing the likelihood for successful closed reduction.

The probability of cup impingement occurring is a function of the natural geometry of the pelvis and the geometry of the bipolar prosthesis. The UHR® Universal Head incorporates a smoother corner angle (**Figure 1**), so is less likely to lock onto the bony rim of the pelvis and less difficult to unlock, should it become unavoidable.

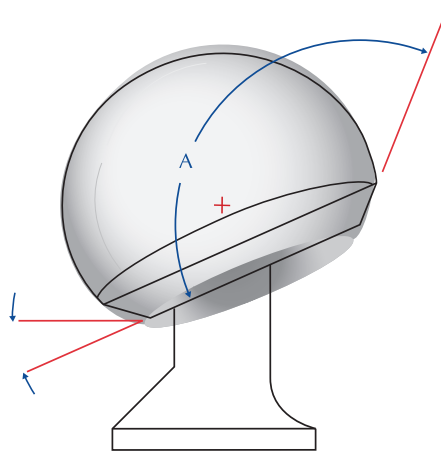


Figure 1.

The UHR® component features a reduced corner angle "A".

Joint Replacements

Trauma

Spine

Micro Implants

Orthobiologics

Instruments

Interventional Pain

Navigation

Endoscopy

Communications

Patient Handling Equipment

EMS Equipment

References:

- ¹.Green S, Moore T, Proano F. Bipolar prosthetic replacement for the management of unstable intertrochanteric hip fractures in the elderly. *Clinical Orthopaedics and Related Research*. November 1987;224:169-177. ².Bowman AJ Jr, Walker MW, Kilfoyle RM, O'Brien PI, McConville JF. Experience with the bipolar prosthesis in hip arthroplasty: A clinical study. *Orthopedics*. April 1985;8(4):460-467. ³.Nottingham RL. Treatment of a femoral neck fracture with a Universal Hip replacement: A case report. *Osteonics Clinical Case Reports*. 1983. ⁴.Bernasek TL. Prosthetic replacement for extracapsular fractures of the hip. *Techniques in Orthopaedics*. 1989;4(2):49-55. ⁵.Takaoka K, et al. Bipolar prosthetic replacement for the treatment of avascular necrosis of the femoral head. *Clinical Orthopaedics and Related Research*. April 1992;277:121-127. ⁶.Bochner RM, Pellicci PM, Lyden JP. Bipolar hemiarthroplasty for fracture of the femoral neck: Clinical review with special emphasis on prosthetic motion. *Journal of Bone and Joint Surgery*. August 1988;70A(7):1001-1010. ⁷.Sarmiento A, Gerard F. Total hip arthroplasty for failed endoprostheses. *Clinical Orthopaedics and Related Research*. Nov/Dec. 1978;137:112-117. ⁸.Austin-Moore Good results in femoral neck fractures. *Orthopaedics Review*. July 1983; Vol. XII No.7:84

The information presented in this brochure is intended to demonstrate a Stryker product. Always refer to the package insert, product label and/or user instructions before using any Stryker product. Products may not be available in all markets. Product availability is subject to the regulatory or medical practices that govern individual markets. Please contact your Stryker representative if you have questions about the availability of Stryker products in your area.

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