

Accolade® System

Brochure

Achieving Perfect Balance

Cemented and Cementless
Femoral Hip System



Accolade®

Cemented Hip System

Potential for Perfect Balance

The Accolade® C Femoral

Component:

A perfect balance of successful design and innovative technology

The Accolade® C Femoral Component integrates well established, clinically successful design features with the highest standards of technology to help achieve a new benchmark for surgical efficiency and clinical performance.

Material

- **Forged Cobalt-Chrome Alloy** – enjoys a long and proud track record of clinical success in cemented total hip arthroplasty. The Accolade® C Femoral Component employs a stringent forged cobalt chrome specification to provide increased material strength and to allow for a significantly reduced neck geometry.

Design

- **Dual Wedge Design** – designed to reduce shear loads at the stem-cement interface and increase rotational stability of the stem in the cement.
- **Proximal Macro-Normalization** – designed to convert shear forces into compressive forces in the area of highest intended load transfer.
- **Distal Groove** – further enhances rotational stability.
- **Centralizer Options** – designed to accommodate either a Universal Distal Spacer or ring centralizer to match surgeon preference.
- **Soft Tissue Balance** – an offering of standard (132°) and extended (127°) offset options enhance soft tissue tensioning without significantly affecting leg length when adjusting joint stability.

- **Proportional Neck Lengths** – relative to body geometry, neck lengths grow proportionally in size to accommodate a wide patient population using a standard femoral head.
- **Reduced Neck Geometry** – features a narrow, ovoid neck design to optimize available range of motion while maintaining strength.

Compatibility

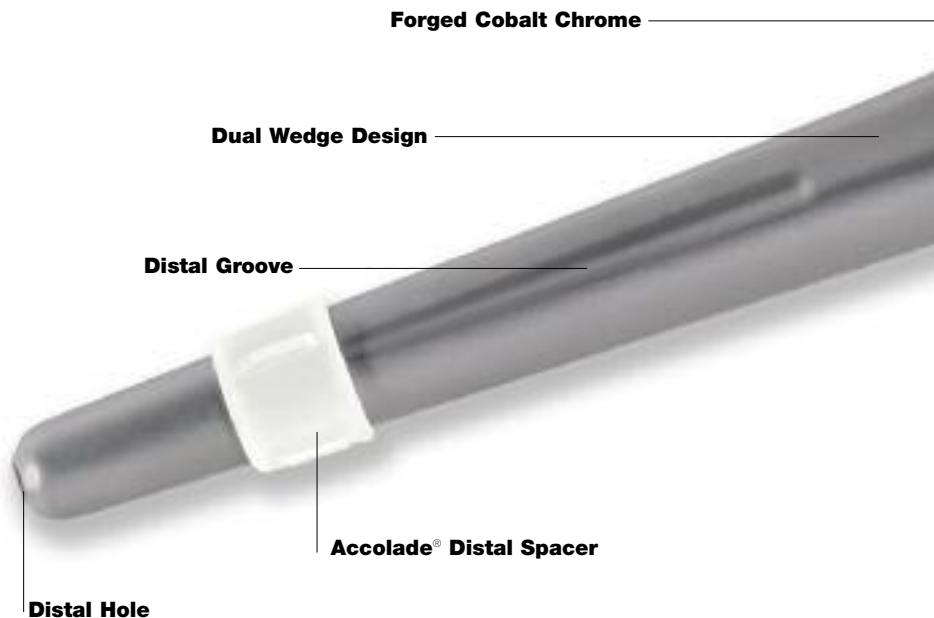
- **Large Selection of Femoral Heads** – the V40™ Femoral Heads offer a large range of offsets and are available in forged Vitallium® alloy, alumina and delta ceramic.
- **Bearing Surface Options** – the Trident® Acetabular System offers a selection of shell geometries compatible with standard polyethylene, Crossfire® or X3™ highly crosslinked polyethylene and ceramic inserts to accommodate the demands of a broader patient population.



Universal Distal Plug
(Optional for use with the Accolade® Distal Spacer)



Universal Distal Spacer
(Alternate for Accolade® Distal Spacer)





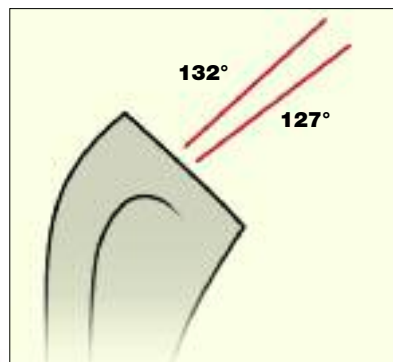
**V40™
Femoral
Head**

**Reduced
Neck Geometry**

**Proportional
Neck Length**

**Offset Options
132° OR 127°**

**Proximal
Macro-Normalization**



Available in Two Offsets

Range of Motion and Ligament Stability

A perfect balance of improved range of motion and enhanced patient quality of life

Standard and extended offset options help the surgeon to enhance soft tissue tensioning without significantly affecting leg length. The goal is to enhance patient quality of life by improving joint stability and range of motion.

Accolade® Instrument System

A perfect balance of simplicity and precision - the perfect complement to a surgeon's skills

- **Consolidated 2 Tray System** – maximizes Operating Room efficiency.
- **Ergonomically Designed** – to accommodate a broad range of surgeon techniques and requirements.
- **Easier Use** – color coded indicators on neck trials and broach bodies provide a more intuitive use of the instrument system.



Dual Angle Neck Trials Provide Intraoperative Flexibility

132° Neck Trial

Femoral Head Trial

127° Neck Trial

Broach



The Accolade® C Femoral Component and Simplex™ P Bone Cement:

A perfect balance of technology and reliability

Simplex™ P Bone Cement is the most widely tested and documented cement, with over 40 years of successful clinical performance. Trusted by tens of thousands of surgeons, it is one of the most reliable and predictable bone cements on the market. Together, Simplex™ P Bone Cement and the Accolade® C Femoral Component provide the perfect balance of technology and reliability. Simplex™ P Bone Cement with Tobramycin is also available for revision cases.*

*See Simplex™ P Bone w/ Tobra package insert for prescribing information.

Achieving Perfect Balance

The Accolade® TMZF® Femoral Component

A perfect balance of successful design and innovative technology

The Accolade® TMZF® Femoral Component merges clinically successful concepts with the highest standards of science and technology into a single system.

Material

- **TMZF®** – this proprietary beta titanium alloy offers an impressive 25% greater flexibility than Ti-6Al-4V, yielding a modulus that more closely approximates that of bone. In addition, this alloy maintains a 20% higher tensile strength than Ti-6Al-4V.¹
- **PureFix™ HA Coating** – Stryker's clinically successful, 50µm (nominal thickness) PureFix™ HA coating demonstrates unprecedented clinical results in a multicenter study followed for more than 13 years.²
- **Circumferential Plasma Spray** – a circumferential titanium plasma spray surface over the proximal body assists with mechanical engagement in bone, and provides an optimum interface for application of PureFix™ HA coating.

Design

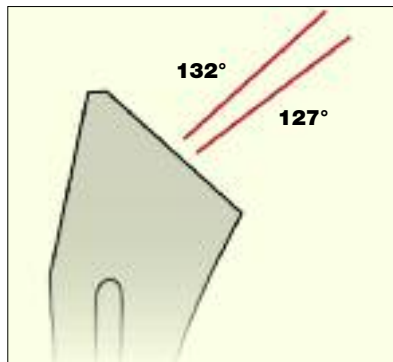
- **Tapered Design** – the tapered wedge design of the Accolade® TMZF® Femoral Component helps provide firm mediolateral stability within the femoral canal. This design philosophy is supported by extensive long-term clinical experience.^{3,4} This low profile, bone sparing design easily accommodates either a standard or small incision approach.
- **Soft Tissue Balance** – an offering of standard (132°) and extended (127°) offset options enhance soft tissue tensioning without significantly affecting leg length when adjusting joint stability.
- **Wide Range of Sizes** – The Accolade® TMZF® offers a wide range of sizes to accommodate patient anatomy. Thirteen sizes in each of two offsets for a total of twenty six sizes.

- **Proportional Neck Lengths** – relative to body geometry, neck lengths grow proportionally in size to accommodate a wide patient population using a standard femoral head.
- **Reduced Neck Geometry** – the TMZF® alloy provides the opportunity to reduce the neck geometry thus optimizing the available range of motion while maintaining strength.

Compatibility

- **Large Selection of Femoral Heads** – the V40™ Femoral Heads offer a large range of offsets and are available in forged Vitallium® alloy, alumina and delta ceramic.
- **Bearing Surface Options** – the Trident® Acetabular System offers a selection of shell geometries compatible with standard polyethylene, Crossfire® or X3™ highly crosslinked polyethylene and ceramic inserts to accommodate the demands of a broader patient population.





Available in Two Offsets

**V40™
Femoral
Head**

**Reduced
Neck
Geometry**

**Proportional
Neck
Length**

**Offset Options
132° OR 127°**

**Circumferential
Plasma
Spray**

**PureFix™ HA
Coating**

Femoral Head Trial

**132°
Neck
Trial**

**127°
Neck
Trial**

**Starter
Awl**

Rasp

**Quick-
Inserter**

**Broach
Handle**

Range of Motion and Ligament Stability

A perfect balance of improved range of motion and enhanced patient quality of life

Standard and extended offset options help allow the surgeon to enhance soft tissue tensioning without significantly affecting leg length. The goal is to help enhance patient quality of life by improving joint stability and range of motion.

Accolade® Instrument System

A perfect balance of simplicity and precision - the perfect complement to a surgeon's skills



- **Consolidated 2 Tray System** – maximizes Operating Room efficiency.
- **Rasp Only Procedure** – eliminating endosteal reaming preserves bone while reducing intraoperative steps.
- **Ergonomically Designed** – to accommodate a broad range of surgeon techniques.
- **Easy-To-Use** – color coded indicators on neck trials and rasp bodies provide intuitive use of the instrument system.

Accolade®

Cementless Hip System

Achieving Perfect Balance

The Accolade® HFX™ Femoral Component

A perfect balance of successful concepts and design for fracture indications

The Accolade® HFX™ Femoral Component merges clinically successful concepts and designs into a cementless system for fracture indications.

Material

- **Forged Cobalt Chrome Alloy** – The Accolade® HFX™ Femoral Component employs a stringent forged cobalt chrome specification to provide increased material strength.
- **Circumferential Plasma Spray** – a circumferential titanium plasma spray surface over the proximal body assists with mechanical engagement in bone.

Design

- **Tapered Design** – the tapered wedge design of the Accolade® HFX™ Femoral Component provides firm mediolateral stability within the femoral canal. This design philosophy is supported by extensive long-term clinical experience.^{3,4}
- **Proportional Neck Lengths** – relative to body geometry, neck lengths grow proportionally in size to accommodate a wide patient population using a standard femoral head.

Compatibility

- **Large Selection of Femoral Heads** – The Accolade® HFX™ designed specifically with the fracture patient in mind incorporates a V40™ taper.



UHR® Universal Head Bipolar System

The Stryker® UHR® Universal Head is a leader among bipolar component designs. The UHR® BiPolar has established effectiveness with over 20 years of positive clinical use.⁵⁻¹²

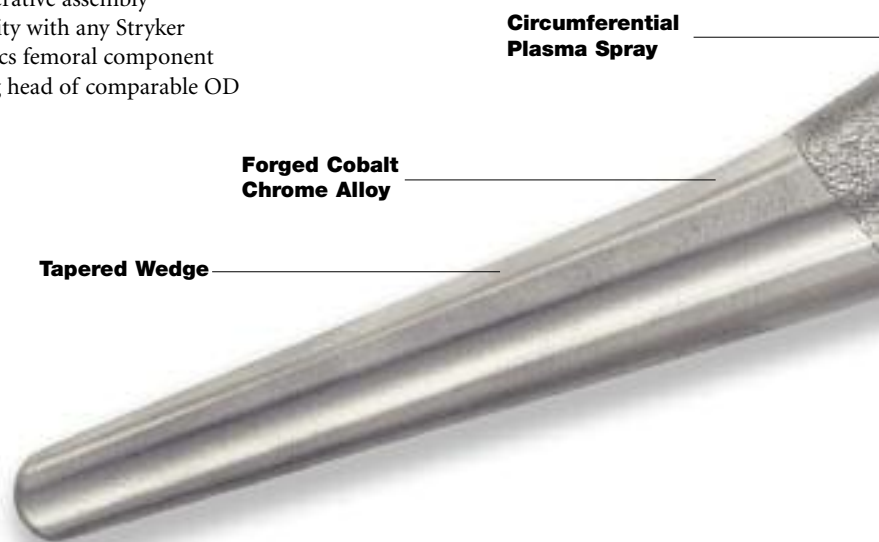
- Dynamic Valgus Alignment
- Large array of OD sizes (41-72mm) allow for precise patient matching
- One-Piece Locking Mechanism
- Beveled Lip
- No interoperative assembly
- Compatibility with any Stryker Orthopaedics femoral component and bearing head of comparable OD



Unitrax® UniPolar System

The Stryker® Unitrax® UniPolar System provides the surgeon with numerous options for endoprosthesis surgery. No other modular endoprosthesis system has such a wide range of neck length and head size options.

- Provides a large range of sizing and neck length options (38-61mm)
- Independent sizing of acetabulum and femur
- Modular sleeve for interoperative flexibility and head revision without stem removal



Circumferential Plasma Spray

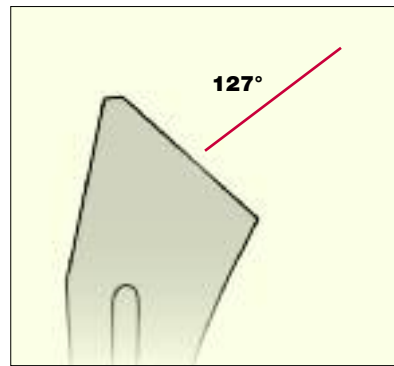
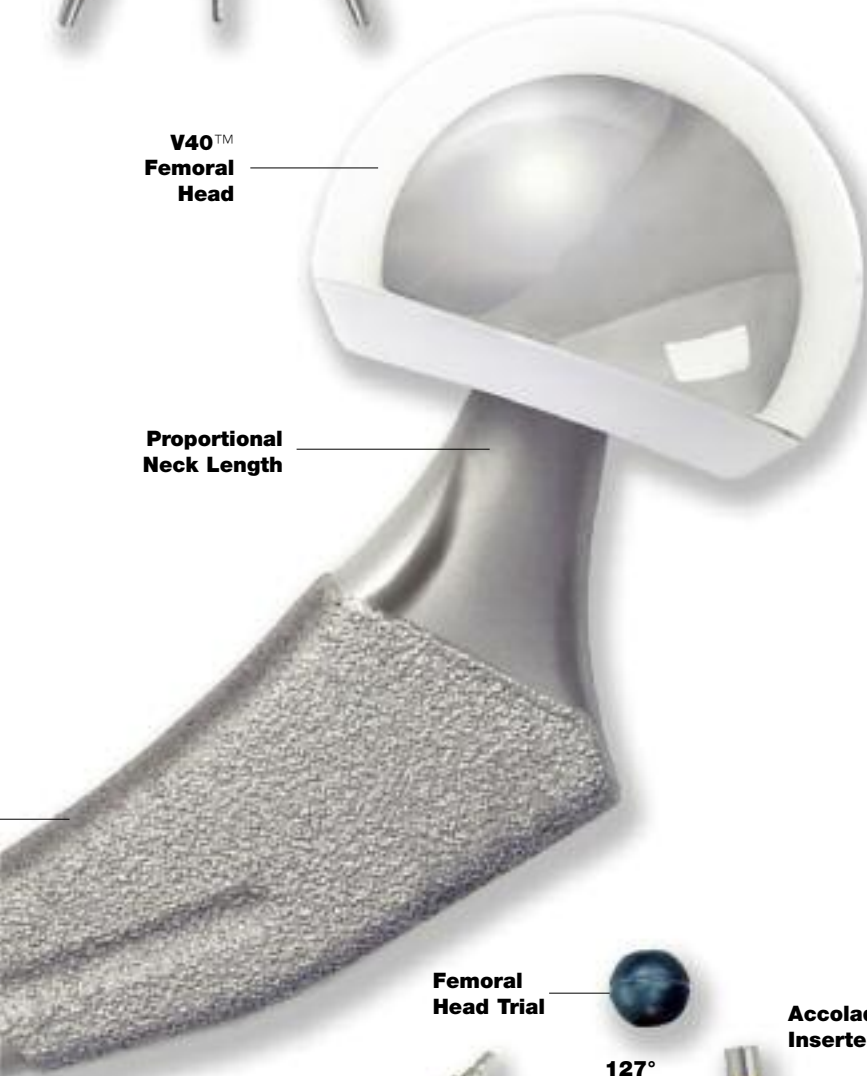
Forged Cobalt Chrome Alloy

Tapered Wedge



**V40™
Femoral
Head**

**Proportional
Neck Length**



Available in Only One Offset

Accolade® Instrument System

A perfect balance of simplicity and precision – the perfect complement to a surgeon’s skill

- **Consolidated 2 Tray System** – maximizes Operating Room efficiency.
- **Rasp Only Procedure** – eliminating endosteal reaming preserves bone while reducing intraoperative steps.
- **Ergonomically Designed** – to accommodate a broad range of surgeon techniques.
- **Easy-To-Use** – color coded indicators on neck trials and rasp bodies provide intuitive use of the instrument system.
- **System Consistency** – one set of instruments to perform either a cementless primary or fracture surgery. One single system for the OR staff to become familiar with.



**Femoral
Head Trial**

**127°
Neck
Trial**

**Accolade® Stem
Inserter/Extractor**

Starter Awl

Rasp

Broach Handle



Accolade® System

Femoral Hip System

Achieving Perfect Balance



**Accolade® Basic
Procedure Tray**



**Accolade® C Cemented
Procedure Tray**



**Accolade® Cementless
Procedure Tray**

Accolade® System

Femoral Hip System

Accolade® C Femoral Stems

Accolade® C Cemented Femoral Stem (127° Neck Angle)				
Catalog Number	Stem Size	Stem Length (from Drive Hole)	Neck Length	Offset (+0mm)
6057-0230D	2	124mm	30mm	39mm
6057-0335D	3	131mm	35mm	43mm
6057-0435D	4	137mm	35mm	46mm
6057-0537D	5	145mm	37mm	48mm
6057-0637D	6	158mm	37mm	49mm
6057-0740D	7	158mm	40mm	52mm

Accolade® C Cemented Femoral Stem (132° Neck Angle)				
Catalog Number	Stem Size	Stem Length (from Drive Hole)	Neck Length	Offset (+0mm)
6058-0230D	2	124mm	30mm	35mm
6058-0335D	3	131mm	35mm	39mm
6058-0435D	4	137mm	35mm	42mm
6058-0537D	5	145mm	37mm	44mm
6058-0637D	6	158mm	37mm	45mm
6058-0740D	7	158mm	40mm	48mm

Accolade® C Distal Spacers (Ring Style)

Catalog Number	Spacer Type	Outer Diameter
1059-2310	Small (Use with stem sizes 2 and 3)	10mm
1059-2311	Small (Use with stem sizes 2 and 3)	11mm
1059-2312	Small (Use with stem sizes 2 and 3)	12mm
1059-2313	Small (Use with stem sizes 2 and 3)	13mm
1059-2314	Small (Use with stem sizes 2 and 3)	14mm
1059-2315	Small (Use with stem sizes 2 and 3)	15mm
1059-4512	Medium (Use with stem sizes 4 and 5)	12mm
1059-4513	Medium (Use with stem sizes 4 and 5)	13mm
1059-4514	Medium (Use with stem sizes 4 and 5)	14mm
1059-4515	Medium (Use with stem sizes 4 and 5)	15mm
1059-4516	Medium (Use with stem sizes 4 and 5)	16mm
1059-4517	Medium (Use with stem sizes 4 and 5)	17mm
1059-6713	Large (Use with stem sizes 6 and 7)	13mm
1059-6714	Large (Use with stem sizes 6 and 7)	14mm
1059-6715	Large (Use with stem sizes 6 and 7)	15mm
1059-6716	Large (Use with stem sizes 6 and 7)	16mm
1059-6717	Large (Use with stem sizes 6 and 7)	17mm
1059-6718	Large (Use with stem sizes 6 and 7)	18mm
1067-0002	Universal Distal Hole Plug (Optional for use with ring style spacers)	

Stryker® Universal Distal Cement Spacer			
Catalog Number	Outer Diameter	Catalog Number	Outer Diameter
1067-0008	8mm	1067-0014	14mm
1067-0009	9mm	1067-0015	15mm
1067-0010	10mm	1067-0016	16mm
1067-0011	11mm	1067-0017	17mm
1067-0012	12mm	1067-0018	18mm
1067-0013	13mm		

Simplex™ P Bone Cement	
Catalog Number	
6191-1-001	Full-Dose-Individual Pack
6191-1-010	Full-Dose-10 Pack
6188-1-001	Half-Dose-Individual Pack
6188-1-010	Half-Dose-10 Pack
Simplex™ P with Tobramycin Bone Cement	
6197-9-010	Full-Dose-10 Pack

Accolade® System

Femoral Hip System

Accolade® TMZF® Femoral Stems

Accolade® TMZF® Cementless Femoral Stem (127° Neck Angle)				
Catalog Number	Stem Size	Stem Length (from Medial Calcar)	Neck Length	Offset (+0mm)
6021-0030*	0	86mm	30mm	37mm
6021-0130	1	110mm	30mm	38mm
6021-0230	2	115mm	30mm	39mm
6021-2530	2.5	118mm	30mm	40mm
6021-0335	3	120mm	35mm	43mm
6021-3535	3.5	124mm	35mm	43mm
6021-0435	4	125mm	35mm	44mm
6021-4535	4.5	129mm	35mm	45mm
6021-0537	5	130mm	37mm	48mm
6021-5537	5.5	133mm	37mm	49mm
6021-0637	6	135mm	37mm	49mm
6021-0740	7	140mm	40mm	53mm
6021-0840	8	145mm	40mm	54mm

Accolade® TMZF® Cementless Femoral Stem (132° Neck Angle)				
Catalog Number	Stem Size	Stem Length (from Medial Calcar)	Neck Length	Offset (+0mm)
6020-0030*	0	86mm	30mm	33mm
6020-0130	1	110mm	30mm	34mm
6020-0230	2	115mm	30mm	35mm
6020-2530	2.5	118mm	30mm	36mm
6020-0335	3	120mm	35mm	39mm
6020-3535	3.5	124mm	35mm	39mm
6020-0435	4	125mm	35mm	40mm
6020-4535	4.5	129mm	35mm	41mm
6020-0537	5	130mm	37mm	44mm
6020-5537	5.5	133mm	37mm	45mm
6020-0637	6	135mm	37mm	45mm
6020-0740	7	140mm	40mm	48mm
6020-0840	8	145mm	40mm	49mm

*Available through Loaner Bank only.

Accolade® HFx™ Femoral Stems

Accolade® HFx™ Cementless Femoral Stems (127° Neck Angle)				
Catalog Number	Stem Size	Stem Length (from Medial Calcar)	Neck Length	Offset (+0mm)
6077-0130	1	110mm	30mm	38mm
6077-0230	2	115mm	30mm	39mm
6077-0335	3	120mm	35mm	43mm
6077-0435	4	125mm	35mm	44mm
6077-0537	5	130mm	37mm	48mm
6077-0637	6	135mm	37mm	49mm
6077-0740	7	140mm	40mm	53mm
6077-0840	8	145mm	40mm	54mm

Accolade® System Instrumentation

Basic Procedure Tray	
Catalog Number	Instrument
1020-1100	Neck Resection Guide
1101-2100	T-Handle
1120-1000	Mallet
1020-1400	Offset Rasp Handle
1020-2730	127 deg, 30mm Neck Trial
1020-2735	127 deg, 35mm Neck Trial
1020-2737	127 deg, 37mm Neck Trial
1020-2740	127 deg, 40mm Neck Trial
1020-3230	132 deg, 30mm Neck Trial
1020-3235	132 deg, 35mm Neck Trial
1020-3237	132 deg, 37mm Neck Trial
1020-3240	132 deg, 40mm Neck Trial
6264-8-026	26mm -3mm V40™ Trial Head
6264-8-126	26mm STND V40™ Trial Head
6264-7-226	26mm +4mm V40™ Trial Head
6264-8-326	26mm +8mm V40™ Trial Head
6264-8-426	26mm +12mm V40™ Trial Head
6264-8-028	28mm -4mm V40™ Trial Head
6264-8-928	28mm -2.7mm V40™ Trial Head
6264-8-128	28mm STND V40™ Trial Head
6264-8-228	28mm +4mm V40™ Trial Head
6264-8-328	28mm +8mm V40™ Trial Head
6264-8-428	28mm +12mm V40™ Trial Head
6264-8-032	32mm -4mm V40™ Trial Head
6264-8-132	32mm STND V40™ Trial Head
6264-8-232	32mm +4mm V40™ Trial Head
6264-8-332	32mm +8mm V40™ Trial Head
6264-8-432	32mm +12mm V40™ Trial Head
1020-2700	Calcar Planar
6266-0-140	Head Impactor
1113-1001	
or	
6266-5-005	Box Chisel
1020-6000	Basic Procedure Tray
8000-0100	Outer Case

(Optional) Minimally Invasive Instrumentation	
Catalog Number	Instrument
5900-0050	T-Handle
1440-1040	Quick Connect Handle
1440-1050	Alignment Rod
1440-1700	Neck Trial Forceps
1440-1010	Femoral Head Extractor
1440-1400	Straight Accolade Rasp Handle
1440-1000	Neck Resection Guide
1440-1070	Femoral Head Impactor
1440-0040	Tray

Cemented Procedure Tray	
Catalog Number	Instrument
1101-0304	Starter Reamer
1020-2200	Trochanteric Reamer - Small
1020-2201	Trochanteric Reamer - Large
1020-2100	Distal Sizer
1020-2104	Propeller Sizer
1212-0008	Trial Distal Tip - 8mm
1212-0009	Trial Distal Tip - 9mm
1212-0010	Trial Distal Tip - 10mm
1212-0011	Trial Distal Tip - 11mm
1212-0012	Trial Distal Tip - 12mm
1212-0013	Trial Distal Tip - 13mm
1212-0014	Trial Distal Tip - 14mm
1212-0015	Trial Distal Tip - 15mm
1212-0016	Trial Distal Tip - 16mm
1212-0017	Trial Distal Tip - 17mm
1212-0018	Trial Distal Tip - 18mm
1020-2002	Size 2 Broach
1020-2003	Size 3 Broach
1020-2004	Size 4 Broach
1020-2005	Size 5 Broach
1020-2006	Size 6 Broach
1020-2007	Size 7 Broach
1020-2500	Stem Inserter
1020-7000	Cemented Procedure Tray

Cementless Procedure Tray	
Catalog Number	Instrument
1020-0000L	
1020-5100	Size 0 Rasp
1020-1001L	
1020-5101	Size 1 Rasp
1020-1002L	
1020-5102	Size 2 Rasp
1020-1025L	
1020-5125	Size 2.5 Rasp
1020-1003L	
1020-5103	Size 3 Rasp
1020-1035L	
1020-5135	Size 3.5 Rasp
1020-1004L	
1020-5104	Size 4 Rasp
1020-1045L	
1020-5145	Size 4.5 Rasp
1020-1005L	
1020-5105	Size 5 Rasp
1020-1055L	
1020-5155	Size 5.5 Rasp
1020-1006L	
1020-5106	Size 6 Rasp
1020-1007L	
1020-5107	Size 7 Rasp
1020-1008L	
1020-5108	Size 8 Rasp
1020-1200	Axial Starter Reamer
1020-1500*	Stem Inserter
1020-1600	Accolade® Stem Inserter/Extractor
1020-8500	Cementless Procedure Tray

*Compatible with Accolade® TMZF® implants sizes 2.5 to 8 only.

NOTE: Broach family 1020-10XX and broach family 1020-51XX are not to be used interchangeably.

¹ Wang K, Gustavson L, Dumbleton J. The Characterization of Ti-12Mo-6Zr-2Fe – a New Biocompatible Titanium Alloy Developed for Surgical Implants. In: Beta Titanium Alloys in the 1990's, Edited by Eylon D, Boyer RR, Koss DA. The Minerals, Metals & Materials Society, 1993.

² Capello WN, D'Antonio JA, et al. HA Femoral Stems for Total Hip Arthroplasty 10-13 Year Follow-up. CORR. December, 2001.

³ McLaughlin JR, Lee KR. Total Hip Arthroplasty in Young Patients: 8-13 Year Results Using an Uncemented Stem. CORR. 373: 153-163, 2000.

⁴ Sakalkale D, Rothman R, et al. Minimum 10-Year Results of a Tapered Cementless Hip Replacement. CORR. 362: 138-144, 1999.

⁵ 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.

⁶ Bowman AJ Jr, Walker MW, Kilfoyle RM, O'Brien PI, McConville JF. Experience with the Bipolar Prosthesis in Hip Arthroplasty: A Clinical Study. Orthopaedics. April 1985;8(4):460-467.

⁷ Nottingham RL. Treatment of a Femoral Neck Fracture with a Universal Hip Replacement: A case report. Osteonics Clinical Case Reports. 1983.

⁸ Bernasek TL. Prosthetic Replacement of Extracapsular Fractures of the Hip. Techniques in Orthopaedics. 1989;4(2):49-55.

⁹ 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.

¹⁰ 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.

¹¹ Sarmiento A, Gerarard F. Total Hip Arthroplasty for Failed Endoprostheses. Clinical Orthopaedics and Related Research. Nov/Dec.1978;137:112-117.

¹² Austin-Moore Good Results in Femoral Neck Fractures. Orthopaedic Review. July 1983 Vol. XII No.7:84.

Joint Replacements

Trauma, Extremities & Deformities

Craniomaxillofacial

Spine

Biologics

Surgical Products

Neuro & ENT

Interventional Spine

Navigation

Endoscopy

Communications

Imaging

Patient Care & Handling Equipment

EMS Equipment

325 Corporate Drive
Mahwah, New Jersey 07430
t: 201 831 5000

www.stryker.com

A surgeon must always rely on his or her own professional clinical judgment when deciding whether to use a particular product when treating a particular patient. Stryker does not dispense medical advice and recommends that surgeons be trained in the use of any particular product before using it in surgery.

The information presented is intended to demonstrate the breadth of Stryker product offerings. A surgeon must always refer to the package insert, product label and/or instructions for use before using any Stryker product. Products may not be available in all markets because product availability is subject to the regulatory and/or medical practices in individual markets. Please contact your Stryker representative if you have questions about the availability of Stryker products in your area.

Stryker Corporation or its divisions or other corporate affiliated entities own, use or have applied for the following trademarks or service marks: Accolade and Stryker. All other trademarks are trademarks of their respective owners or holders.

Literature Number: **LASB Rev. 3**
MS/GS 00/10

Copyright © 2010 Stryker
Printed in USA