

Solar Modular Hip System

MODULAR BIPOLAR & HIP



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ISO 13485 and Indian FDA approved company
CDSCO Approved

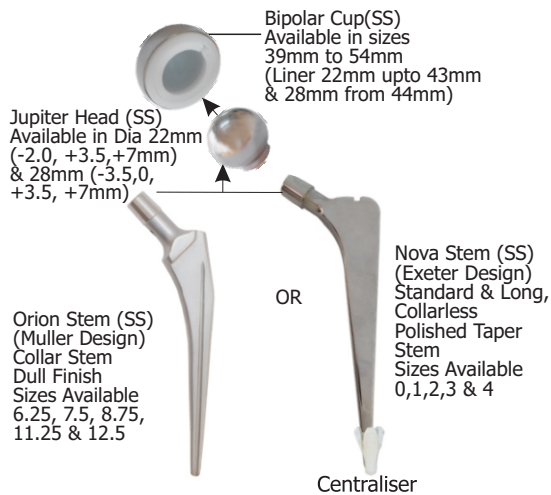
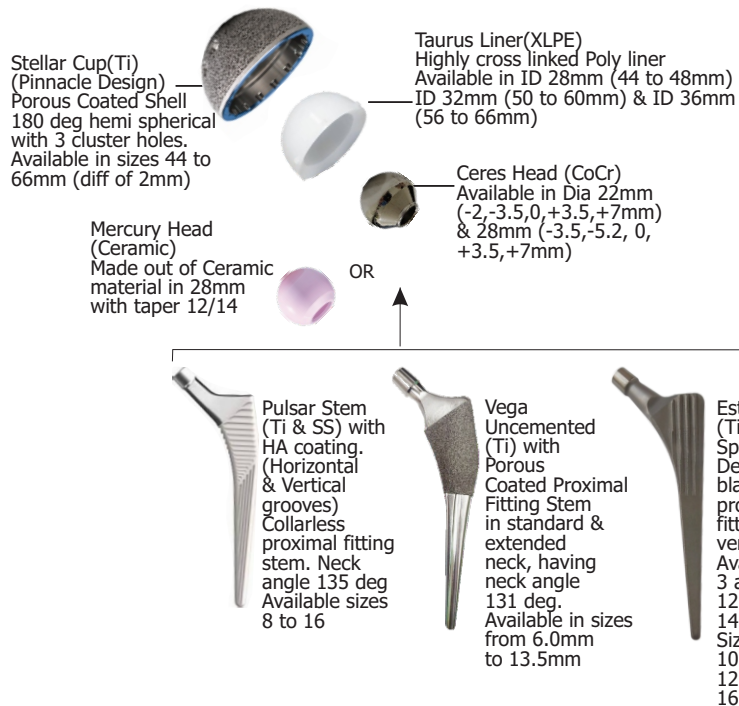
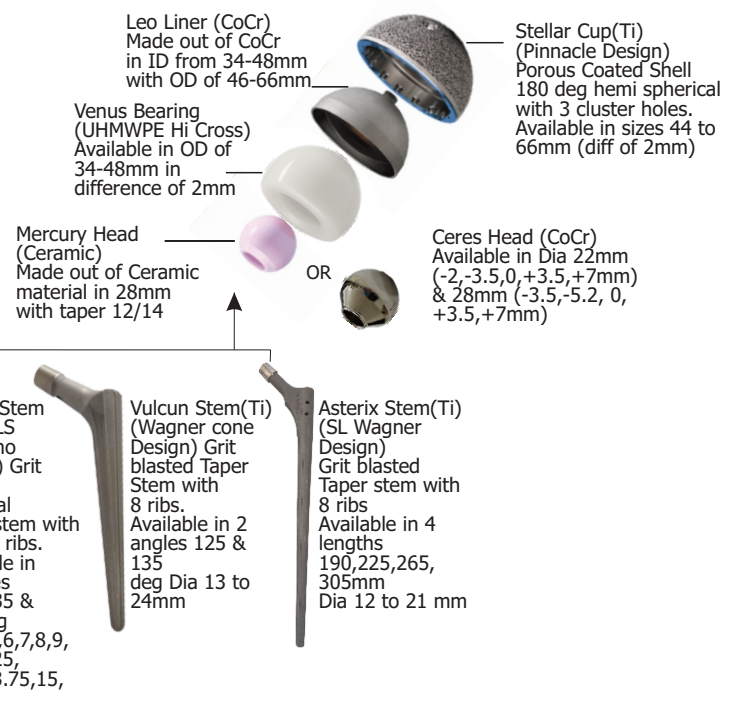
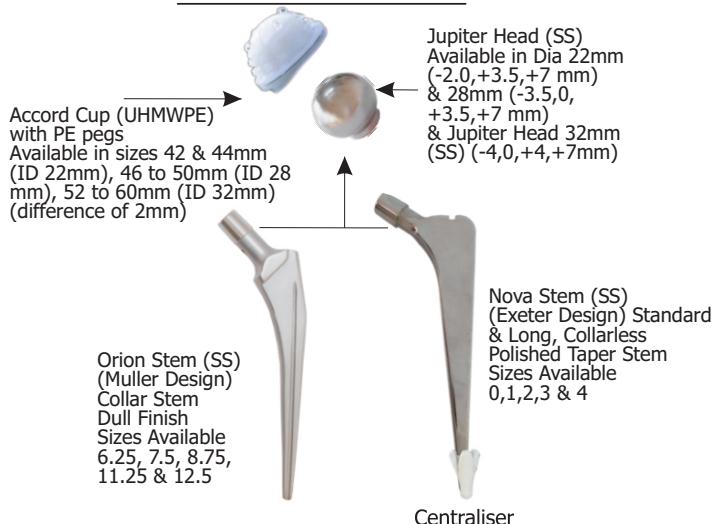
- Modular Hip System is designed for Bipolar & Hip replacement
- Options of cemented & uncemented Stems
- Options of Cemented & Uncemented Cups
- Uncemented Revision Stem

Cemented Modular Bipolar

- ➔ The **SOLAR HIP-MODULAR*** Bipolar system is designed to offer comprehensive solution in Neck of Femur fractures in elderly patients.
- ➔ The **SOLAR HIP MODULAR*** Bipolar assembly comprises of cemented Orion Stem, Jupiter Head, Saturn Bipolar Cup with XLPE Cup Liner.
- ➔ **Orion Stems*** are designed with time tested Muller principles in 6 different sizes to offer greater customization. The Orion Stems are manufactured using SS316 L Stainless Steel conforming to ISO 5832-1 to impart long term survivorship to the implant. The specially chosen process of forging ensures uniformity in micro-structural grains, eliminating the chances of formation of micro cavities or potential to develop micro cracks. It offers standard 12-14 taper that gets snugly locked in the Jupiter Head cavity.
- ➔ **Nova Stems*** are Collarless, Polished stems. Nova stems are manufactured using SS316 L Stainless Steel conforming to ISO 5832-1 to impart long term survivorship to the implant.
- ➔ **Jupiter Heads*** are manufactured using Special 316 L Stainless Steel conforming to ISO 5832-1. The Jupiter Head Cavity has been machined on Ultra High Tech CNC Machines to provide accuracy within Micron Limits. Jupiter Heads are available in 22mm & 28mm diameter with an option of 4 Neck Lengths in each size. This enhances the modularity of the system and helps the surgeon to achieve near natural offsets for perfect customization.
- ➔ **Saturn Bipolar Cups*** are made of SS 316L SS conforming to ISO 5832-1 with XLPE cup liner confirming to ISO 5834-1 or ISO 5834-2 with digitally controlled mirror finish polish to minimize friction on acetabular surface. Saturn Bipolar Cups are available in 17 sizes starting from 38mm to 54mm, with difference of 1mm in Dia. This feature completes the required customization.
- ➔ The **Saturn Bipolar Cup** with Poly Liner & the Jupiter Head are held in place by a 'Circlip Ring' also made from UHMWPE.
- ➔ A very special care is taken to keep the manufacturing and the packaging area clean & lint free. Implants are sterilized by gamma irradiation.
- ➔ **SOLAR HIP MODULAR*** Bipolar system with its right choice of materials & manufacturing process offers, ultimate level of patient safety through long term implant survivorship. The innovative design of the instruments add to the surgical comfort & accuracy.

Uncemented Modular Bipolar

- ➔ Uncemented Hip Stems provide time tested fixation solutions for treatment of revision hip and can also be used for primary hip arthroplasty. The ribs provide the primary fixation, whereas secondary fixation is provided by the corundum blasted surface of the implant, which promotes osseointegration.
- ➔ **Pulsar Stems*** are comprised of a titanium-forged stem with an HA coating. They feature a collarless proximal fitting design and provide a universal 12/14 taper for modularity. Available in sizes ranging from 8 to 16, the stem design incorporates both vertical and horizontal grooves to ensure rotational stability. The stem neck angle is set at 135 degrees, making it suitable for primary arthroplasty.
- ➔ **Estella Stems*** are crafted from a titanium alloy, featuring a corundum-blasted surface to promote osteointegration. Designed with a 3D taper and trapezoidal cross-section, the stems include proximal ribs and rounded edges to mitigate thigh pain. With a stem neck angle ranging from 125 to 135 degrees, they also incorporate a universal 12/14 taper for modularity. Available in sizes ranging from 5 to 16.5, Estella Stems* are indicated for primary arthroplasty.
- ➔ **Asterix Revision Stems*** are constructed from a Titanium alloy, incorporating a corundum-blasted stem with 8 ribs to ensure rigid fixation. The design includes a 2-degree taper from the midsection to the distal end for metaphyseal fit. With a stem neck angle of 135 degrees and a universal 12/14 taper for modularity, these stems are available in diameters ranging from 12mm to 21mm with increments of 1mm, and lengths from 190mm to 210mm. They are specifically indicated for revision arthroplasty, and additionally, for primary arthroplasty cases that necessitate a long stem and involve IT fractures.
- ➔ **Vulcan Stems*** are crafted from a Titanium alloy with corundum grit blasting to promote effective osteointegration. The design features a short conical stem with a 5-degree taper and 8 ribs, ensuring rotational stability. They are available in 12 different diameters, ranging from size 13 to size 24, and offer 2 offsets (125 degrees and 135 degrees). The neck incorporates a universal 12/14 taper, enhancing versatility and compatibility.
- ➔ **Vega Stems*** are single taper, wedge style for primary hip solution. It has Tapered Wedge collarless design intends to achieve immediate axial and rotational mechanical stability between the medial and lateral cortices of the femoral canal. The stem has proximal/distal stem ratio should allow the implant to achieve fixation in all primary femur types. Vega Uncemented (Ti) with Porous Coated Proximal Fitting Stem, Standard and Extended Neck, having neck angle 131deg., Available in sizes from 6.0mm to 13.5mm.
- ➔ **Stellar Cups*** are Titanium Alloy hemispherical cups with a porous surface. They feature three cluster holes for additional fixation using titanium screws and can accommodate poly and ceramic liners. Available in diameters from 44mm to 66mm (2mm increments), these cups offer versatile solutions for various clinical needs.
- ➔ **Taurus XLPE Liner*** is crafted from highly cross-linked implant-grade polyethylene, providing superior wear resistance. It is available in inner diameters of 28mm, 32mm, and 36mm, depending on the cup size. The liner features a 140-degree posterior wall.
- ➔ **Accord Cup*** is made of implant grade UHMWPE. 10 deg posterior wall. Available in 22mm, 28mm, 32mm inner dia depending on cup size. 4 UHMWPE pegs.

Cemented Bipolar Construct**Uncemented Bipolar Construct****Uncemented THR Construct****Uncemented THR Construct with Dual Mobility****Cemented THR Construct****Ti Peri Prosthetic Cable Plate**

Aquarius* Dual Mobility Construct



OR



Mercury Head (Ceramic)
in 28,mm with taper 12/14

OR

Ceres Head (CoCr)
Available in Dia 22mm & 28mm

XLPE Venus Bearing
Available in OD of
32-48mm in
difference of 2mm

Leo Liner (CoCr)
Made out of CoCr
in ID from 32-48mm
with OD of 44-66mm

Stellar Cup(Ti)
Porous Coated Shell
180 deg hemi spherical
with 3 cluster holes.
Available in sizes 44 to
66mm (diff of 2mm)

Fitting Part Nomenclature

Stellar Shell	Stellar Shell Multi Hole	CoCr Leo Liner	Polyethylene Venus Bearing	Ceres Head	Ceramic Mercury Head
Stellar Shell 44mm		Cocr Leo Liner IDXX, Shell 44	Polyethylene Venus Bearing OD XX	Ceres Head Ø22	
Stellar Shell 46mm		Cocr Leo Liner ID34, Shell 46	Polyethylene Venus Bearing OD 34	Ceres Head Ø22	
Stellar Shell 48mm	Ti Stellar Shell Multi Hole 48mm	Cocr Leo Liner ID36, Shell 48	Polyethylene Venus Bearing OD 36	Ceres Head Ø22	
Stellar Shell 50mm	Ti Stellar Shell Multi Hole 50mm	Cocr Leo Liner ID38, Shell 50	Polyethylene Venus Bearing OD 38	Ceres Head Ø28	Ceramic Mercury Head 28
Stellar Shell 52mm	Ti Stellar Shell Multi Hole 52mm	Cocr Leo Liner ID40, Shell 52	Polyethylene Venus Bearing OD 40	Ceres Head Ø28	Ceramic Mercury Head 28
Stellar Shell 54mm	Ti Stellar Shell Multi Hole 54mm	Cocr Leo Liner ID40, Shell 54	Polyethylene Venus Bearing OD 40	Ceres Head Ø28	Ceramic Mercury Head 28
Stellar Shell 56mm	Ti Stellar Shell Multi Hole 56mm	Cocr Leo Liner ID44, Shell 56	Polyethylene Venus Bearing OD 44	Ceres Head Ø28	Ceramic Mercury Head 28
Stellar Shell 58mm	Ti Stellar Shell Multi Hole 58mm	Cocr Leo Liner ID44, Shell 58	Polyethylene Venus Bearing OD 44	Ceres Head Ø28	Ceramic Mercury Head 28
Stellar Shell 60mm	Ti Stellar Shell Multi Hole 60mm	Cocr Leo Liner ID48, Shell 60	Polyethylene Venus Bearing OD 48	Ceres Head Ø28	Ceramic Mercury Head 28
Stellar Shell 62mm	Ti Stellar Shell Multi Hole 62mm	Cocr Leo Liner ID48, Shell 62	Polyethylene Venus Bearing OD 48	Ceres Head Ø28	Ceramic Mercury Head 28
Stellar Shell 64mm	Ti Stellar Shell Multi Hole 64mm	Cocr Leo Liner ID48, Shell 64	Polyethylene Venus Bearing OD 48	Ceres Head Ø28	Ceramic Mercury Head 28
Stellar Shell 66mm	Ti Stellar Shell Multi Hole 66mm	Cocr Leo Liner ID48, Shell 66	Polyethylene Venus Bearing OD 48	Ceres Head Ø28	Ceramic Mercury Head 28

CoCr Leo Liner	
Size	Part No.
ID 32, Shell 44	F173032440
ID 34, Shell 46	F173034460
ID 36, Shell 48	F173036480
ID 38, Shell 50	F173038500
ID 40, Shell 52	F173040520
ID 40, Shell 54	F173040540
ID 44, Shell 56	F173044560
ID 44, Shell 58	F173044580
ID 48, Shell 60	F173048600
ID 48, Shell 62	F173048620
ID 48, Shell 64	F173048640
ID 48, Shell 66	F173048660

XLPE Venus Bearing	
Size (OD)	Part No.
32	F172022320
34	F172022340
36	F172022360
38	F172028380
40	F172028400
44	F172028440
48	F172028480

Ceramic Mercury Head	
Size (Taper 12/14)	Part No.
Ceramic Mercury Head 28 / -3.5	F169000128
Ceramic Mercury Head 28 / 0	F169000228
Ceramic Mercury Head 28 / +3.5	F169000328

**** Trials of CoCr and Ceramic heads have different design, End user or Distributor to order it appropriately.**

SOLAR HIP - MODULAR BIPOLAR SYSTEM



Orion Stem Muller Type Straight

Part No.	Size
F 136000625	6.25 mm
F 136000075	7.5 mm
F 136000875	8.75 mm
F 136000010	10 mm
F 136001125	11.25 mm
F 136000125	12.5 mm



Nova Cemented Stem

Part No.	Size
F 146000001	1
F 146000002	2
F 146000003	3
F 146000004	4
F 147000000	0



SS Nova 2 Long Stem

Part No.	Size
F165002200	200 mm
F165002240	240 mm



XLPE Nova Centralizer

Part No.	Size
F155000000	



Jupiter Head Dia 22mm (SS)

Part No.	Size
F 137012220	-2.0 mm
F 137052235	-3.5 mm
F 137022200	0 mm
F 137032235	+3.5 mm
F 137042270	+7 mm

Jupiter Head Dia 28mm (SS)

Part No.	Size
F 138012835	-3.5 mm
F 138052852	-5.2 mm

F 138022800	0mm
F 138032835	+3.5mm
F 138042870	+7 mm

Jupiter Head Dia 32mm (SS)

Part No.	Size
F 159013240	-4mm
F 159023200	0mm
F 159033240	+4mm
F 159043270	+7mm

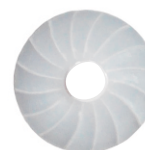


Saturn Bipolar Cup

Part No.	Size
F 135000037	37mm
F 135000038	38mm
F 135000039	39mm
F 135000040	40mm
F 135000041	41mm
F 135000042	42mm
F 135000043	43mm
F 135000044	44mm
F 135000045	45mm
F 135000046	46mm
F 135000047	47mm
F 135000048	48mm
F 135000049	49mm
F 135000050	50mm
F 135000051	51mm
F 135000052	52mm
F 135000053	53mm
F 135000054	54mm

XLPE Saturn Bipolar Insert 2

Part No	Size
F135003022	22mm
F135003028	28mm



Cement Restrictor

Part No.	Size
F 139001024	24mm
F 139001029	29mm

Uncemented Modular Stem for Bipolar & Hip



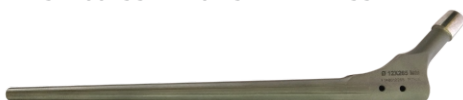
Pulsar *Stem HA Coated (Ti alloy)

Part No.	Size (mm)	Taper
F140000008	8	12/14
F140000009	9	12/14
F140000010	10	12/14
F140000011	11	12/14
F140000012	12	12/14
F140000013	13	12/14
F140000014	14	12/14
F140000015	15	12/14
F140000016	16	12/14



Estella Stem

Part No.	Size	Deg
F152050125	5	125°
F152050135	5	135°
F152060125	6	125°
F152060135	6	135°
F152070125	7	125°
F152070135	7	135°
F152080125	8	125°
F152080135	8	135°
F152090125	9	125°
F152090135	9	135°
F152100125	10	125°
F152100135	10	135°
F152110125	11.25	125°
F152110135	11.25	135°
F152120125	12.50	125°
F152120135	12.50	135°
F152130125	13.75	125°
F152130135	13.75	135°
F152150125	15	125°
F152150135	15	135°
F152160125	16.25	125°
F152160135	16.25	135°



ASTERIX Revision Stem

Part No.	Size mm	Length mm
F148012190	12	190
F148012225	12	225
F148012265	12	265
F148012305	12	305
F148012345	12	345
F148013190	13	190
F148013225	13	225
F148013265	13	265
F148013305	13	305

F148013345	13	345
F148014190	14	190
F148014225	14	225
F148014265	14	265
F148014305	14	305
F148014345	14	345
F148015190	15	190
F148015225	15	225
F148015265	15	265
F148015305	15	305
F148015345	15	345
F148016190	16	190
F148016225	16	225
F148016265	16	265
F148016305	16	305
F148016345	16	345
F148017190	17	190
F148017225	17	225
F148017265	17	265
F148017305	17	305
F148017345	17	345
F148018190	18	190
F148018225	18	225
F148018265	18	265
F148018305	18	305
F148018345	18	345
F148019190	19	190
F148019225	19	225
F148019265	19	265
F148019305	19	305
F148019345	19	345
F148020190	20	190
F148020225	20	225
F148020265	20	265
F148020305	20	305
F148020345	20	345
F148021190	21	190
F148021225	21	225
F148021265	21	265
F148021305	21	305
F148021345	21	345



Vulcan Stem

Part No.	Size	Deg.
F153130125	13	125°
F153140125	14	125°
F153150125	15	125°
F153160125	16	125°
F153170125	17	125°
F153180125	18	125°
F153190125	19	125°
F153200125	20	125°
F153210125	21	125°
F153220125	22	125°
F153230125	23	125°
F153240125	24	125°
F153130135	13	135°
F153140135	14	135°
F153150135	15	135°
F153160135	16	135°
F153170135	17	135°
F153180135	18	135°
F153190135	19	135°

F153200135	20	135°
F153210135	21	135°
F153220135	22	135°
F153230135	23	135°
F153240135	24	135°
F153200135	20	135°
F153210135	21	135°
F153220135	22	135°
F153230135	23	135°
F153240135	24	135°



Ti Vega Porous Stem Extended

Part No.	Size
F178000600	6.0
F178000675	6.75
F178000750	7.5
F178000850	8.5
F178000950	9.5
F178001050	10.5
F178001150	11.5
F178001250	12.5
F178001350	13.5

Ti Vega Porous Stem Standard

Part No.	Size
F170000600	6.0
F170000675	6.75
F170000750	7.5
F170000850	8.5
F170000950	9.5
F170001050	10.5
F170001150	11.5
F170001250	12.5
F170001350	13.5



Ceres Head Dia 22mm in CrCo

Part No.	Size
F154012220	-2.0 mm
F154022200	0 mm
F154052235	-3.5 mm
F154032235	+3.5 mm
F154042270	+7 mm

Ceres Head Dia 28mm in CrCo

Part No.	Size
F143012835	-3.5 mm
F143022800	0 mm
F143052852	-5.2 mm
F143032835	+3.5 mm
F143042870	+7 mm

Ceres Head Dia 32mm in CrCo

Part No.	Size
F156013240	-4 mm
F156023200	0 mm

F156033240	+4 mm
F156043270	+7 mm

Ceres Head Dia 36mm in CrCo

Part No.	Size
F157013640	-4 mm



Accord Cemented Acetabular Cup

Part No.	Size
F158012242	42 mm(22mm)
F158012244	44 mm(22mm)
F158012846	46 mm(28mm)
F158012848	48 mm(28mm)
F158012850	50 mm(28mm)
F158013252	52 mm(32mm)
F158013254	54 mm(32mm)
F158013256	56 mm(32mm)
F158013258	58 mm(32mm)
F158013260	60 mm(32mm)

Uncemented Cup & Liner



Stellar Shell Cluster Hole

Part No.	Size
F161000440	44 mm
F161000460	46 mm
F161000480	48 mm
F161000500	50 mm
F161000520	52 mm
F161000544	54 mm
F161000560	56 mm
F161000580	58 mm
F161000600	60 mm
F161000620	62 mm
F161000640	64 mm
F161000660	66 mm



Ti Stellar Shell Multi Hole

Part No.	Size
F166000480	48 mm
F166000500	50 mm
F166000520	52 mm
F166000544	54 mm
F166000560	56 mm
F166000580	58 mm
F166000600	60 mm
F166000620	62 mm
F166000640	64 mm
F166000660	66 mm



XLPE Taurus Liner +4 10° Posterior Lip

Part No.	Size
F162028440	44mm(28mm)
F162028460	46mm(28mm)
F162032480	48mm(32mm)
F162032500	50mm(32mm)
F162032520	52mm(32mm)
F162032540	54mm(32mm)
F162032560	56mm(32mm)
F162032580	58mm(32mm)
F162032600	60mm(32mm)
F162036560	56mm(36mm)
F162036580	58mm(36mm)
F162036600	60mm(36mm)
F162036620	62mm(36mm)
F162036640	64mm(36mm)
F162036660	66mm(36mm)

XLPE Taurus Liner Neutral

Part No.	Size
F167028440	44mm(28mm)
F167028460	46mm(28mm)
F167032480	48mm(32mm)

F167032500	50mm(32mm)
F167032520	52mm(32mm)
F167032540	54mm(32mm)
F167032560	56mm(32mm)
F167032580	58mm(32mm)
F167032600	60mm(32mm)
F167036560	56mm(36mm)
F167036580	58mm(36mm)
F167036600	60mm(36mm)
F167036620	62mm(36mm)
F167036640	64mm(36mm)
F167036660	66mm(36mm)



Cancellous Screw Dia 6.5 for Uncemented Shell

Part No.	Size
F144065020	20mm
F144065025	25mm
F144065030	30mm
F144065035	35mm
F144065040	40mm

Instrument Set for Solar Hip Modular Bipolar System

Instruments Set for Orion Muller Stem

Part No.	F569010000
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Instruments Set for Nova Hip System

Part No.	F613010000
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Instrument Set for Saturn Bipolar Cup

Part No.	F615010000
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Instruments for Pulsar Stem

Part No.	F590010000
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Instruments for Estella Stem

Part No.	F635010000
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Instruments for Asterix Hip System

Part No.	F612010000
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Instruments for Vulcan Hip System

Part No.	F665010000
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Instruments for Stellar Shell and Taurus Liner

Part No.	F667010000
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Instruments for Acetabular Reamer

Part No.	F681010000
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Instrument Set for DAA (Direct Anterior Approach)



Bone Lever For Double-Spike Retractor

Part No. F706001000



Curved Handle Impactor

Part No. F712001000



Bone Lever For J Shaped Retractor

Part No. F707001000



Impactor for DDA Reamer Handle

Part No.
Right F713001000
Left F714001000



Bone Lever For Minimally Invasive Acetabular Retractor Type 1

Part No. F708001000



Depth Gauge For J-Shaped Acetabular Probe

Part No. F715001000



Bone Lever For Minimally Invasive Acetabular Retractor Type 2

Part No. F709001000



Acetabular Reamer Holder For DDA Type

Part No. F716001000



Bone Lever For Minimally Invasive Acetabular Retractor Type 3

Part No. F710001000



Acetabular Cup Insertor-Extractor For DDA Type

Part No. F717001000



Bone Lever For Cobra Retractor

Part No.
38 F711000038
42 F711000042

Instrument Set for DAA (Direct Anterior Approach)



L-Shaped Retractor

Part No. F718001000



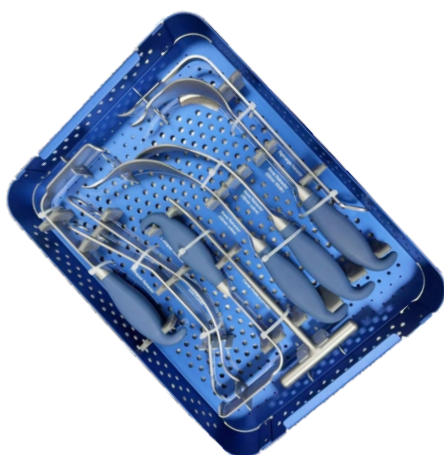
Container for Direct Anterior Approach

Part No. HA06401000



Right-Angle Retractor

Part No. F719001000



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