



LOGICAL



Signature
ORTHOPAEDICS

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Introduction

The Signature Orthopaedics Logical Instrument system is an optimised instrument set for implantation of the Signature Orthopaedics Logical Cementless Acetabular Cup and Liner. The Logical instrument set is comprised of two trays for a *streamlined* and efficient instrument set.

The primary tray contains all of the common base instruments needed for every procedure.

The secondary tray serves as an ancillary case that is required only for very small and large statured patients.

Indications

Signature Orthopaedics' hip replacement range is intended to replace a hip joint where bone stock is sufficient to support the implant. When a surgeon has selected prosthetic replacement as the preferred treatment, the devices are indicated for:

- Non-inflammatory degenerative joint disease including osteoarthritis or avascular necrosis
- Inflammatory joint disease including rheumatoid arthritis (excluding TSI stem)
- Correction of functional deformity including congenital hip dysplasia
- Traumatic injury involving the hip joint including traumatic arthritis or femoral head or neck fracture
- Failed previous hip surgery including internal fixation or joint fusion, reconstruction, hemiarthroplasty, surface replacement, or total replacement.

Signature Orthopaedics' constrained liner components are indicated particularly for patients at high risk of hip dislocation due to a history of prior dislocation, bone loss, joint or soft tissue laxity, neuromuscular disease or intraoperative instability.

Contraindications

In general, prosthetic components require adequate bone support for correct fit and function. The use of prosthetic components is therefore contraindicated where any pathological condition may reduce the quantity and or strength of the bone which is supporting the prosthesis. Some contraindications are relative to the extent and severity of conditions and the benefits of prosthetic arthroplasty should be considered based on the patient's overall evaluation and the possibility of alternative treatment. Examples of such conditions include; osteoporosis, osteomalacia, osteogenesis imperfecta, or hypophosphatemia. Other contraindications include:

- Conditions limiting blood supply to the bone or joint.
- Systemic or local infection.
- Previous high dose radiotherapy.
- Psychological or neurological conditions which would restrict the patient's ability or compliance in restricting physical activity.
- Skeletal immaturity
- Conditions or activity which may place excessive load on the components such as; obesity, muscle, tendon & ligament deficiencies, multiple joint disabilities, and Charcot joints.
- Signature Orthopaedics' constrained liners are contraindicated particularly for active patients.

Logical Acetabular Cup and Liner Features

Ceramic Liner (not available in the U.S.A)

- Proven geometry and material (BIOLOX® delta)
- Excellent biological behaviour
- Significantly low taper corrosion
- No metal ion release

Polymer Liner

- Proven geometry, material (UHMWPE)
- Base resin: GUR1020
- Stock Forming: Compression molded
- Cross Linking: Gamma irradiation at 7.5 MRads
- Thermal Stabilisation: Remelting
- Sterilisation: ETO
- Available in neutral, 10° hooded, 20° Hooded constrained and +4mm lateralised variations

Acetabular Cup

- Clinically proven geometry, material (Ti6Al4V) and porous coating.
- Available in 3-Hole, multi-hole and no hole options.

Sintered Titanium Coating (G-Series)

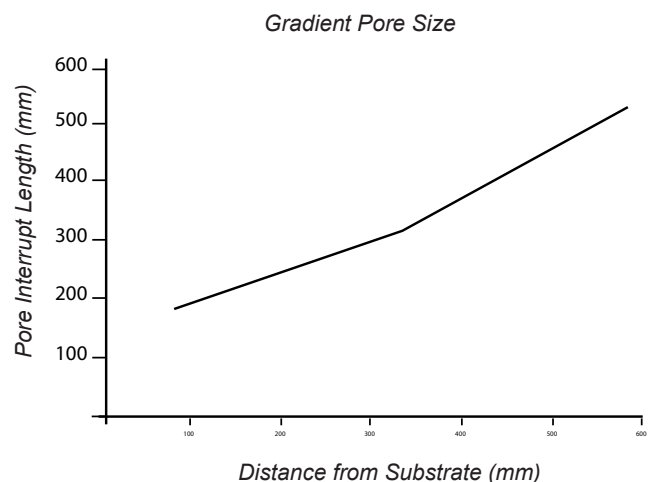
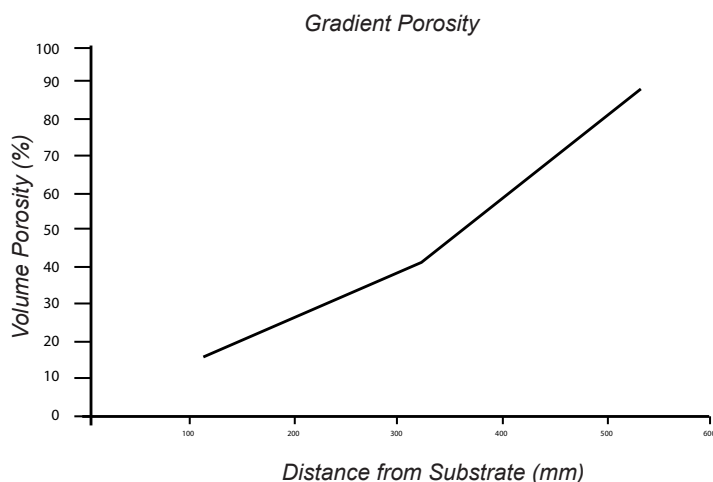
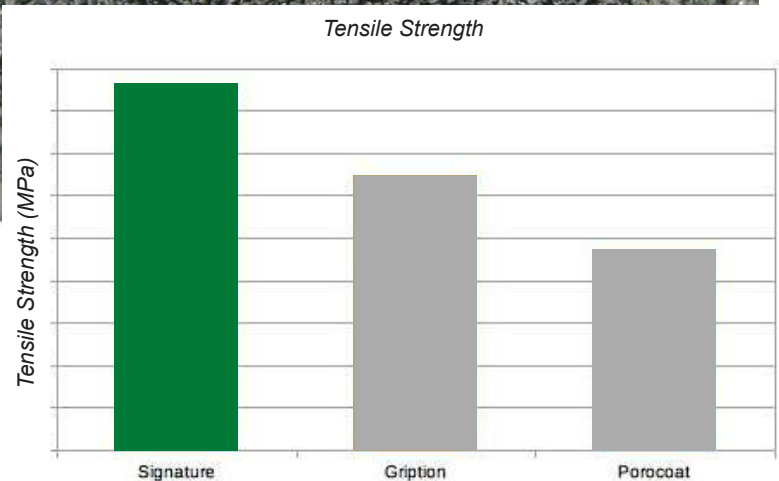
- Tensile Strength > 35MPa
- Shear Strength > 25MPa
- Porosity 45-65% and pore size 100-300 microns.



Logical G-Series Coating

The **Logical G-Series** Coating has an average pore size of 100-330µm which is considered in literature to be within the optimal pore range of 40 to 500µm to allow for tissue growth around the implant.^{1,2}

1.3x stronger tensile strength than Gription coating

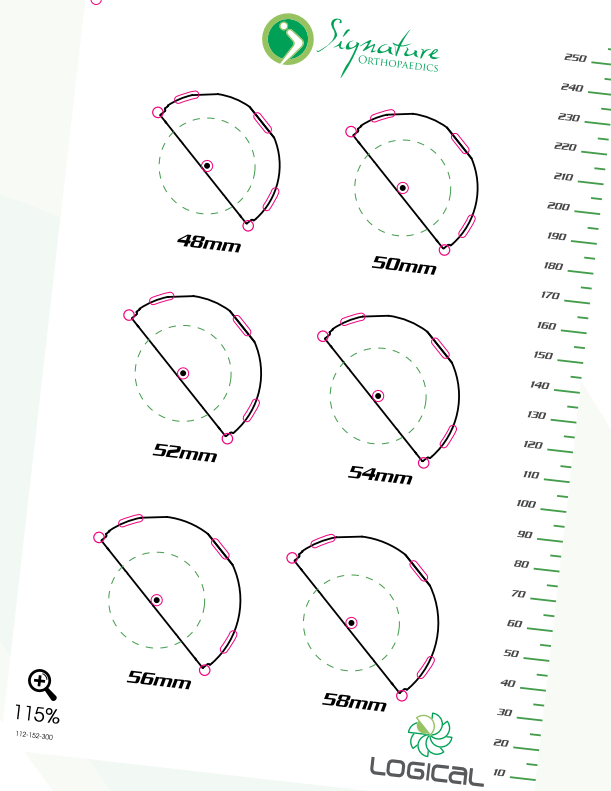


1 - S. C. P. Cachinho and R. N. Correia, "Titanium scaffolds for osteointegration: mechanical, in vitro and corrosion behaviour," J. Mater. Sci. Mater. Med., vol. 19, no. 1, pp. 451-457, 2008
 2 - J. D. Bobyn, R. M. Pilliar, H. U. Cameron, and G. C. Weatherly, "The optimum pore size for the fixation of porous-surfaced metal implants by the ingrowth of bone.," Clin. Orthop. Relat. Res., no. 150, pp. 263-270, 1980.

1

Preoperative Planning

Preoperative assessment of the appropriate size and position of the acetabular component will provide intraoperative guidance for acetabular reaming. To determine the acetabular cup size and position, hold the template at approximately 45° of abduction and place the center of rotation over the anatomic center of the acetabular image. Final component size and position should be determined intraoperatively. Templates are 115% magnification.

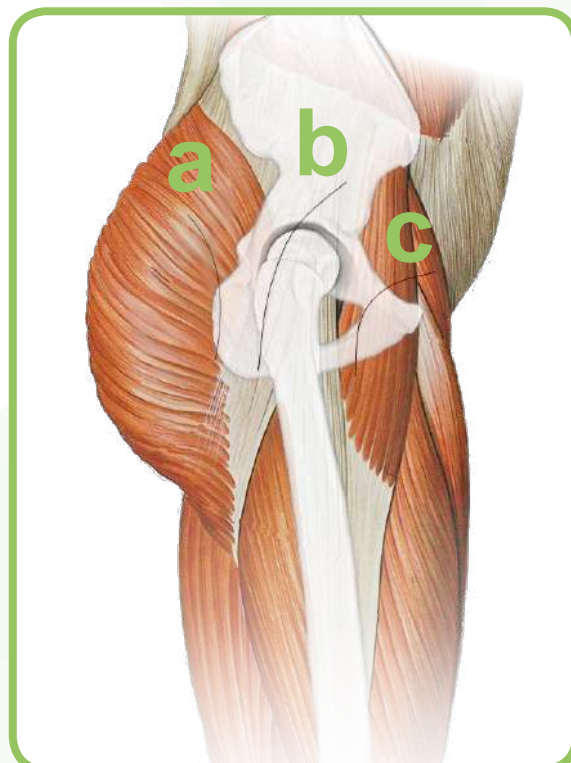


2

Preoperative Planning

The Logical cup can be used with any surgical approach that the surgeon selects.

- Posterior approach
- Posterolateral/anterolateral approach
- Anterior approach



3

Acetabular Preparation

Osteophytes should be removed to gain assessment of the true acetabular rim. Reaming should be sequential and start with the smallest reamer that conforms to the acetabular cavity. Reaming to the circumferential line on the reamer will mimic a full hemisphere. Gradually enlarge the acetabulum by reaming articular cartilage until a continuous surface of cancellous bone is exposed.

Acetabular Reamers
112-152-244 to 112-152-268

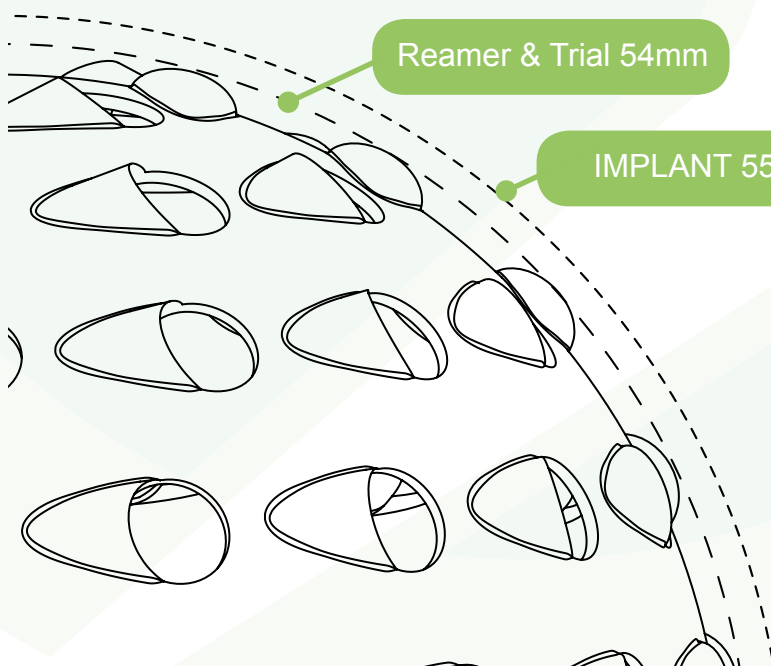
Note:

A 54mm reamer will ream a hemispherical cavity 54mm in diameter, and a 54mm trial cup is Ø54mm.
A 54mm Logical cup is 54mm + 1mm of porous coating.
This coating thickness of 1mm will give a press fit.

Reamer & Trial 54mm

IMPLANT 55mm

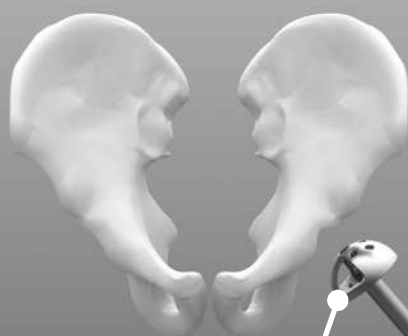
Reamer Handles
available in both large
(112-152-018) and
slim versions
(112-152-342)



4

Acetabular Trialling and Positioning

Trial cups are available to evaluate the size and optimum position of the final implant. Screw the trial cup onto the end of the cup inserter and position the trial cup in the desired orientation by manoeuvring the cup impactor.



Trial Acetabular Shells
112-152-191 to 112-152-203

Straight Cup Inserter
112-152-085

Trial Acetabular Cups

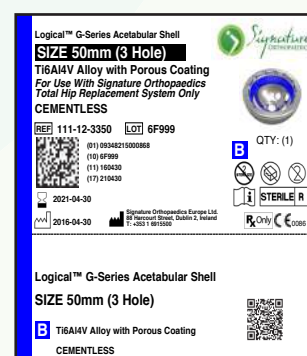
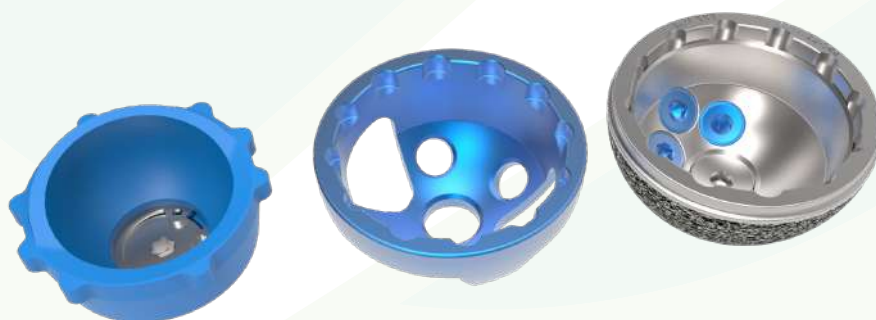
Part Number	Diameter
112-152-191	44mm
112-152-192	46mm
112-152-193	48mm
112-152-194	50mm
112-152-195	52mm
112-152-196	54mm
112-152-197	56mm
112-152-198	58mm
112-152-199	60mm
112-152-200	62mm
112-152-201	64mm
112-152-202	66mm
112-152-203	68mm
112-152-206	70mm

Instrument Identification:

Trial acetabular cups are identified by the size marked on the top rim. They are also colour-coded to match with compatible trial liners. Each trial cup size corresponds to a Logical cup implant size. Refer to the Logical Implants Sizing Chart in this technique for more details (pg13).

Example below:

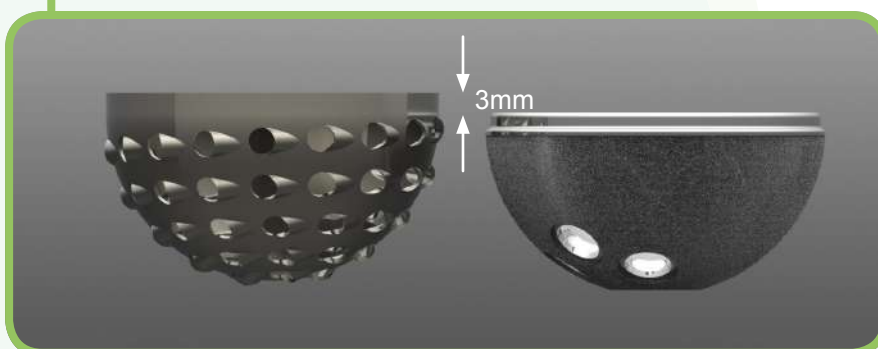
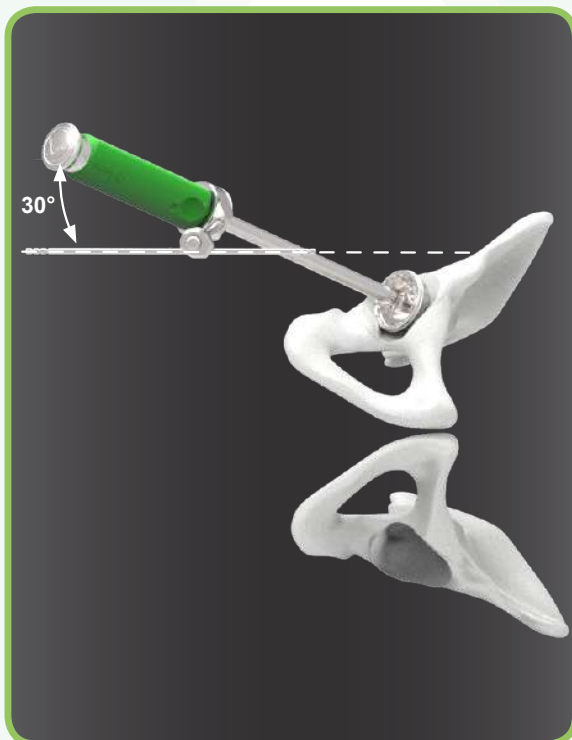
Connection type B shown, the blue trial liner matches the blue trial shell, which matches the blue colouring on the box label and the hole covers on the implant.



5

Implant Acetabular Cup Insertion

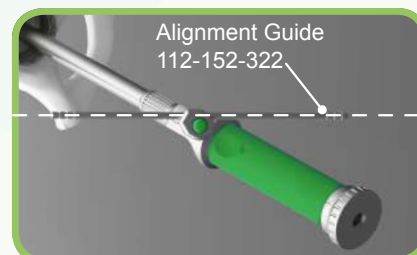
Thread the appropriate size prosthetic cup onto the impactor (same size as the final reamer). The cup rotation can be adjusted with regards to the impactor by pressing the button and rotating the strikeplate, in increments of 15°. The alignment guide can be attached to the impactor to help with anteversion and abduction angles. Seat the cup with a series of firm mallet blows to the end of the impactor. Screw placement can begin once the cup component is securely positioned and the impactor is removed.

**Optional:**

A curved cup inserter option is also available, please inquire for additional instructions for use.

**Note:**

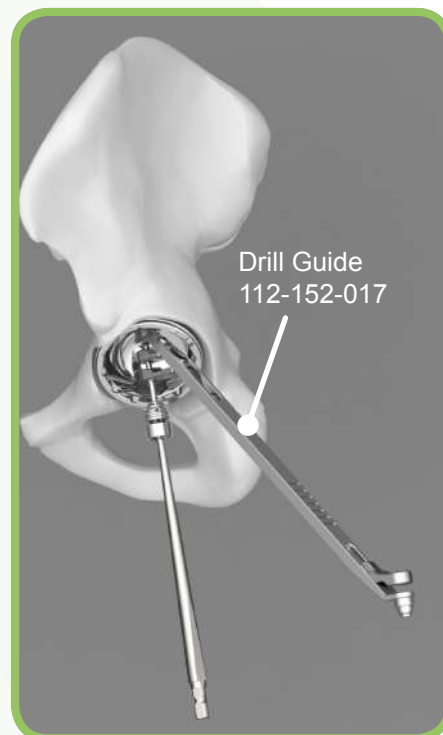
The alignment guide indicates 30° of operative anteversion, which equates to 20° of radiographic anteversion. Operative anteversion differs from radiographic anteversion due to the projection of angles on a radiograph.



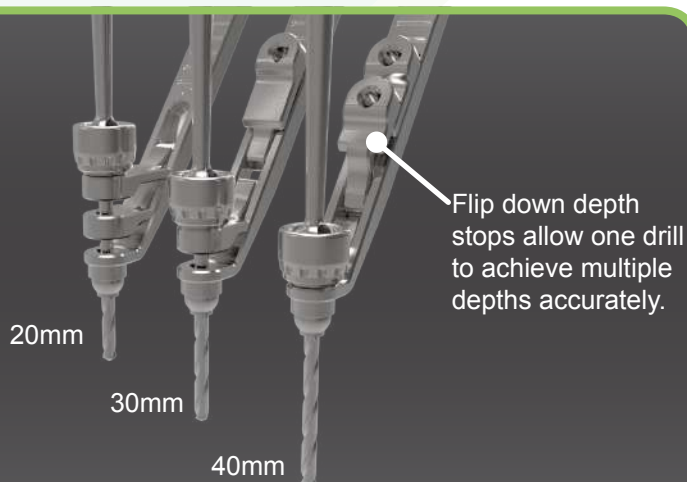
6

Determine Screw Location and Drill Depth

Determine screw location and select a suitable drill depth (see figure below). The flexible drill allows a wide range of drilling angles while still being able to apply pressure to the drill.

**Instrument operation:**

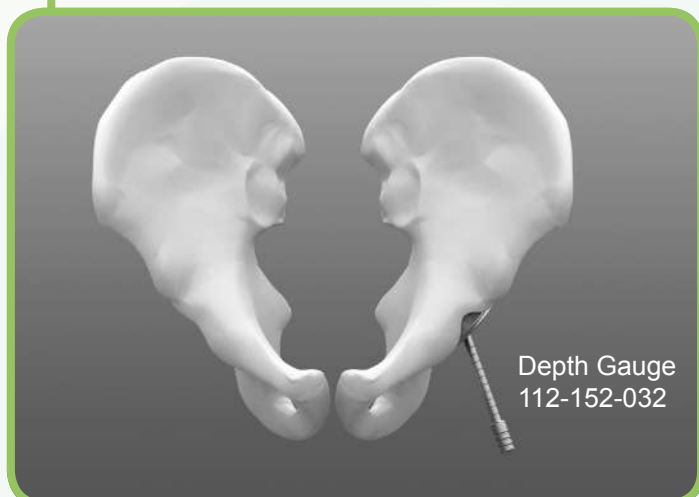
The drill guide has flip-down depth stops at each end. One end has 10mm steps, which allows a 50mm drill to drill a hole at 40, 30 and 20mm deep. While the other end has steps of 5mm, which allows holes to be drilled at 25 and 35mm.



7

Determine Screw Length

Use the screw depth gauge to determine the appropriate length screw. Due to intrapelvic vascularity, screw placement in the medial aspect of the acetabulum must be carefully considered.



8

Insert Screws

Screws snap into the screw inserter, allowing them to rotate freely without falling out at any angle. Pull inserter off screw to allow for countersinking of the screw head. Full seating can be confirmed with the use of a trial liner prior to impacting the prosthetic liner, or by manually examining the inner surface. To ensure proper prosthetic liner seating in the cup, screw heads must be seated below the inner surface of the cup. Hex driver available in both tapered and parallel versions.



Solid end provides stability to flexible driver.



9

Trial Liner Evaluation

Trial liners that match the prosthetic implant are available to evaluate the optimum position of the final implant. Position the trial liner in the desired orientation and secure it in place with the captured screw using one of the 3.5mm hex screwdriver shafts. Apical Screw insertion should not take place until a reduction with the trial liner is completed. Refer to "Logical Instruments" for information about sizes.



10

Liner Placement

Prior to inserting the prosthetic liner, thoroughly irrigate and clean the cup. Insert the prosthetic liner by hand (or using the ceramic liner inserter (112-152-230) if ceramic is chosen), making sure the face of the liner is parallel with the face of the acetabular cup. The anti-rotation tabs should be lined up with the slots in the cup. Use the liner impactor on the cup impactor to apply a series of firm mallet blows to fully seat the liner.

A final inspection of the liner should be done to ensure the liner is firmly locked in place. Neutral and ceramic liners should be flush with the cup face along the entire rim. Only the lower half of the rim of lipped liners should be flush with the cup face.



11

Ceramic Liner Placement (*Not available in USA)

The ceramic liner inserter (112-152-230), has a series of snap rings that are coloured per the connection type. The example below is yellow (C type connection). 4 different Impactor heads are available (28/32/26/40mm - 112-152-21X). The snap ring is loaded onto the inserter first, followed by the impactor head. This will grip the ceramic liner firmly, in any position desired. Once the ceramic liner is loaded into the shell, a firm tap on the end of the inserter will see the snap ring let go of the ceramic liner, and the ceramic liner seat into the shell. Further impaction may be done using the straight cup inserter coupled with the ceramic liner impact adapter, as shown below.



An alternative to the liner impactor for the ceramic liners, is to use the "Ceramic Liner Impact Adapter" (112-152-305) with an appropriate sized trial head. This combination can also be used on the polyethylene liners.



Straight Cup Inserter
112-152-085

Ceramic Liner Impact
Adapter 112-152-305



Regular Trial Head

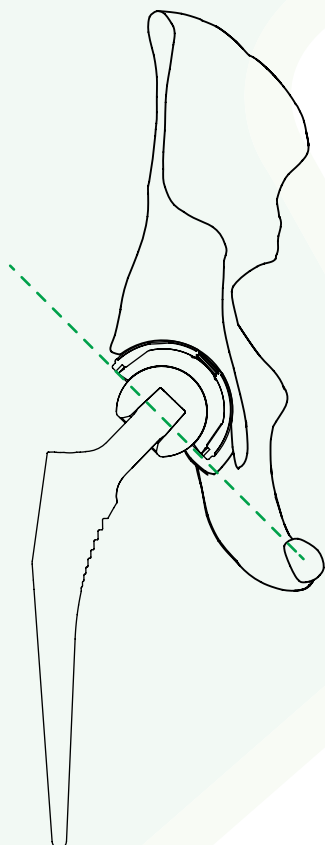
12

Positioning

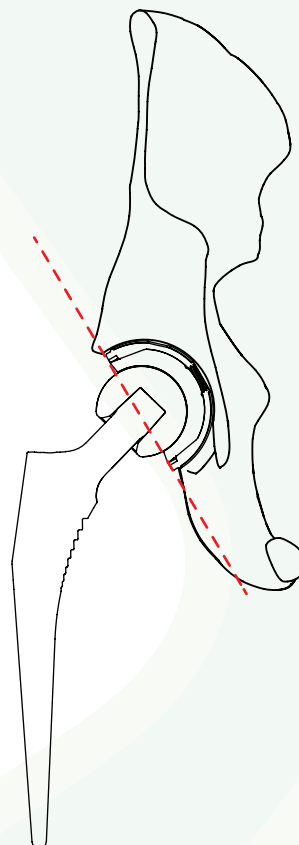
Current studies* have highlighted that correct acetabular component positioning is a key element to success with all types of bearings used in hip replacement surgery. As well as subluxation, impingement, fixation and range of motion, optimum femoral head coverage and mechanical loading of the bearing must also be considered when positioning the acetabular component. Incorrect acetabular component positioning can lead to edge loading and undesirable effects across all bearings, such as dislocation, increased wear, and polyethylene fractures.

CORRECT

Inclination 40-45°
Anteversion 15-20°

**INCORRECT**

Inclination >45°
Anteversion >20°



*Data on file

13

Polyethylene Liner removal

Upon removal of any Liner, inspect the taper and polyethylene locking mechanisms for damage. Special care should be taken not to lever against the Shell during Liner removal.

- a. Locate a 3.5mm drill bit included in the Kit.
- b. Drill a pilot hole into the dome of the Liner between the pole and the taper region of the Shell.
- c. Drive the screw into the pilot hole by hand until the Liner is lifted out of the Shell.







*Special care should be taken not to damage the Shell taper or locking mechanism during removal of the Liner.



Logical Implant Sizing Guide

Acetabular Cups, ceramic and UHMWPE Liners

*Ceramic liners not available in USA

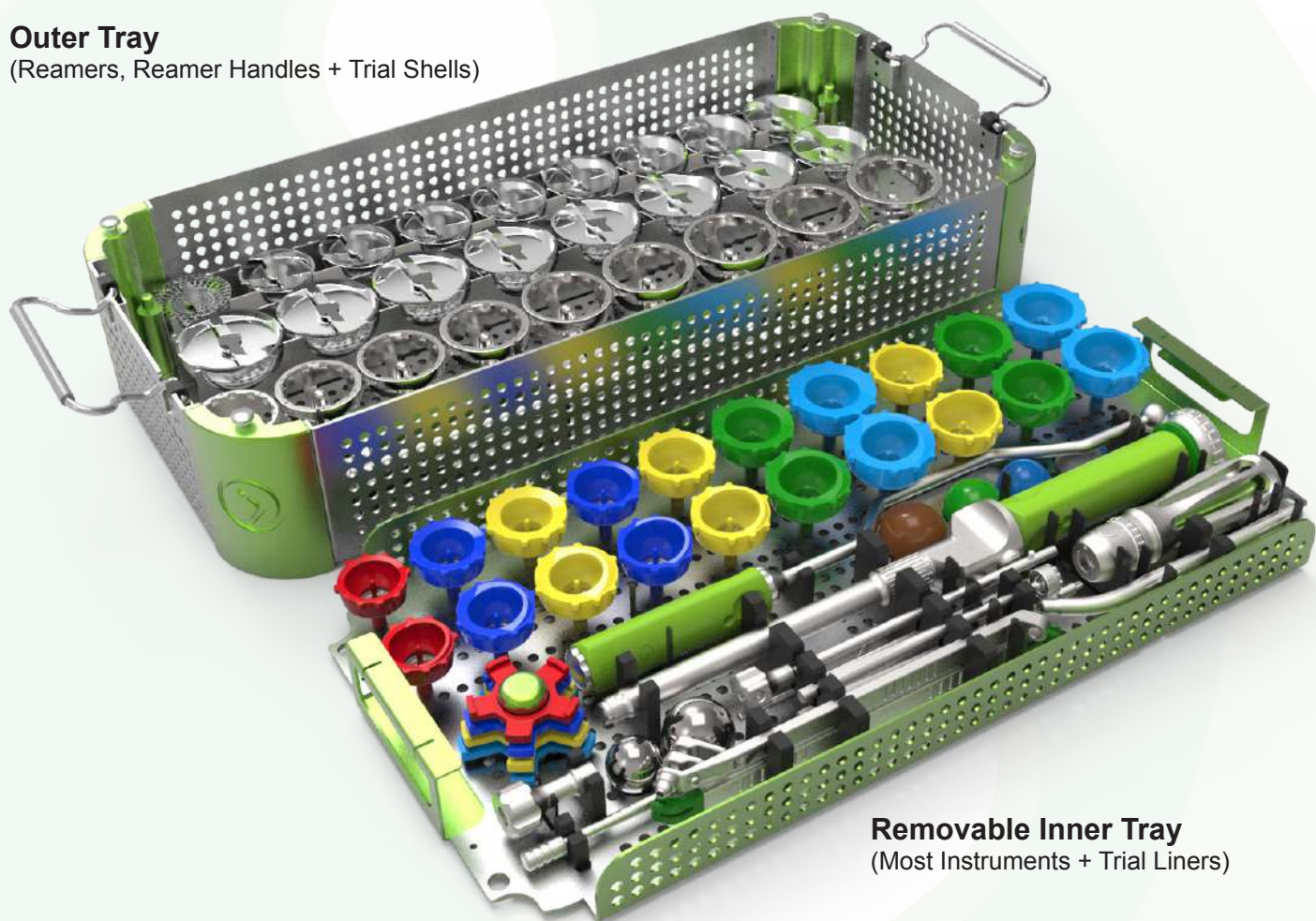
		28	32	36	40
111-12-3344 44 111-12-3346 46  A		Neutral- 111-12-5844 Hooded- 111-12-6844 111-12-0844 Ceramic- 111-22-1002 Constrained-111-12-9211 Lateralised- 111-12-7844 111-12-8844 111-12-9844			
111-12-3348 48 111-12-3350 50  B		Neutral- 111-12-5850 Hooded- 111-12-6850 111-12-0850 Ceramic- 111-22-1003 Lateralised- 111-12-7850 111-12-8850 111-12-9850	Neutral- 111-12-5250 Hooded- 111-12-6250 111-12-0250 Ceramic- 111-22-1005 Constrained- 111-12-9212 Lateralised- 111-12-7250 111-12-8250 111-12-9250		
111-12-3351 50 111-12-3352 52 111-12-3354 54  C		Neutral- 111-12-5852 Hooded- 111-12-6852 111-12-0852 Ceramic- 111-22-1004 Lateralised- 111-12-7852 111-12-8852 111-12-9852	Neutral- 111-12-5252 Hooded-111-12-6252 111-12-0252 Ceramic- 111-22-1006 Lateralised- 111-12-7252 111-12-8252 111-12-9252	Neutral- 111-12-5652 Hooded- 111-12-6652 111-12-0652 Ceramic- 111-22-1009 Constrained- 111-12-9213 Lateralised- 111-12-7652 111-12-8652 111-12-9652	
111-12-3356 56 111-12-3358 58  D			Neutral- 111-12-5256 Hooded- 111-12-6256 111-12-0256 Ceramic- 111-22-1007 Lateralised- 111-12-7256 111-12-8256 111-12-9256	Neutral- 111-12-5656 Hooded-111-12-6656 111-12-0656 Ceramic- 111-22-1010 Lateralised- 111-12-7656 111-12-8656 111-12-9656	Neutral- 111-12-5456 Hooded- 111-12-6456 111-12-0456 Ceramic- 111-22-1012 Constrained- 111-12-9214 Lateralised-111-12-7456 111-12-8456 111-12-9456
111-12-3360 60 111-12-3362 62 111-12-3364 64 111-12-3366 66 111-12-3368 68 111-12-3370 70  E			Neutral- 111-12-5260 Hooded- 111-12-6260 111-12-0260 Ceramic- 111-22-1008 Lateralised- 111-12-7260 111-12-8260 111-12-9260	Neutral- 111-12-5660 Hooded- 111-12-6660 111-12-0660 Ceramic- 111-22-1011 Lateralised- 111-12-7660 111-12-8660 111-12-9660	Neutral- 111-12-5460 Hooded- 111-12-6460 111-12-0460 Ceramic- 111-22-1013 Lateralised- 111-12-7460 111-12-8460 111-12-9460
111-12-3355 54  S					Neutral- 111-12-5457

Logical Instrument Trays

Primary Logical Instrument Tray

Outer Tray

(Reamers, Reamer Handles + Trial Shells)



Removable Inner Tray

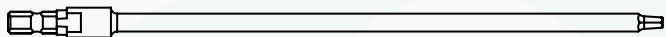
(Most Instruments + Trial Liners)

The secondary tray that is required only for very small and large statured patients not shown.

Logical Instruments

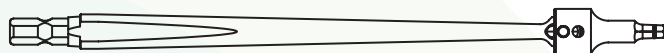
Hi Torque Screwdriver 3.5mm Hex

112-152-306



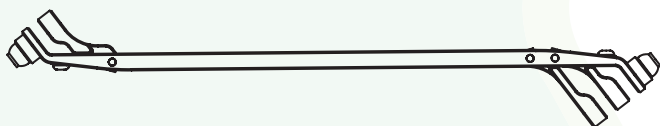
Flexible Screwdriver

112-152-026



Drill Guide

112-152-017



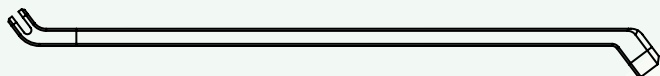
Depth Gauge

112-152-032



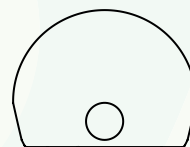
Screw Inserter

112-152-038



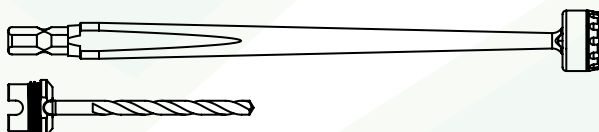
Liner Impactors

112-152-002 - 28mm
112-152-334 - 32mm
112-152-121 - 36mm
112-152-003 - 40mm



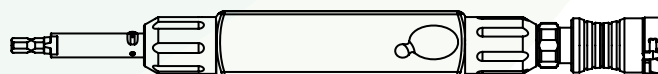
Optimus Drill (Flexible Drill)

192-072-001 (Drill bits 192-072-002)



Reamer Shaft Assembly

112-152-018 (Large Reamer Grip 112-152-316)



Logical Instruments

Straight Cup Inserter

112-152-085 (Cup alignment can be set in increments of 15°)



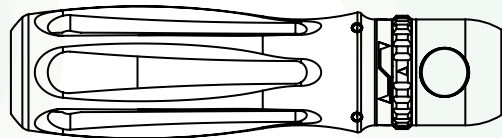
Alignment Guide (Two parts in tray)

112-152-322 (Button release)



Ratcheting Screwdriver

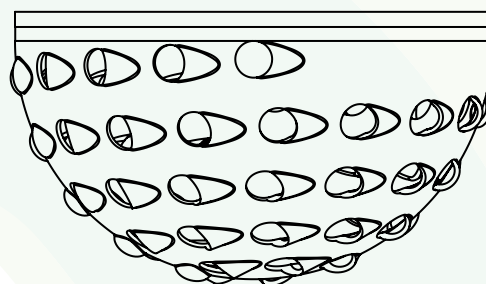
192-062-001



Logical Instruments

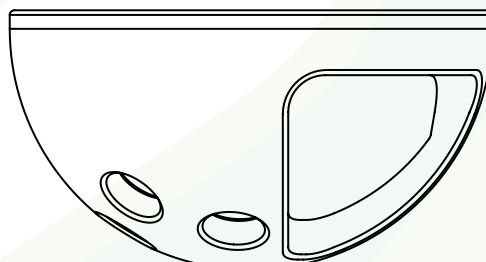
Acetabular Reamers

112-152-244	44mm
112-152-245	45mm
112-152-246	46mm
112-152-247	47mm
112-152-248	48mm
112-152-249	49mm
112-152-250	50mm
112-152-251	51mm
112-152-252	52mm
112-152-253	53mm
112-152-254	54mm
112-152-255	55mm
112-152-256	56mm
112-152-257	57mm
112-152-258	58mm
112-152-259	59mm
112-152-260	60mm
112-152-261	61mm
112-152-262	62mm
112-152-263	63mm
112-152-264	64mm
112-152-265	65mm
112-152-266	66mm
112-152-267	67mm
112-152-268	68mm
112-152-269	69mm
112-152-270	70mm



Trial Acetabular Cups

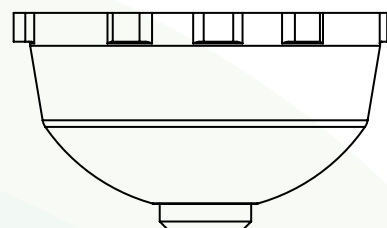
112-152-191	44mm
112-152-192	46mm
112-152-193	48mm
112-152-194	50mm
112-152-195	52mm
112-152-196	54mm
112-152-197	56mm
112-152-198	58mm
112-152-199	60mm
112-152-200	62mm
112-152-201	64mm
112-152-202	66mm
112-152-203	68mm



Logical Instruments

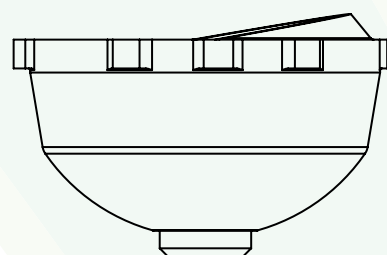
Logical Trial Liner Neutral

112-152-156	28/44-46mm	A
112-152-157	28/48-50mm	B
112-152-158	28/52-54mm	C
112-152-159	32/48-50mm	B
112-152-160	32/52-54mm	C
112-152-161	32/56-58mm	D
112-152-162	32/60-68mm	E
112-152-163	36/52-54mm	C
112-152-164	36/56-58mm	D
112-152-165	36/60-68mm	E
112-152-166	40/56-58mm	D
112-152-167	40/60-68mm	E



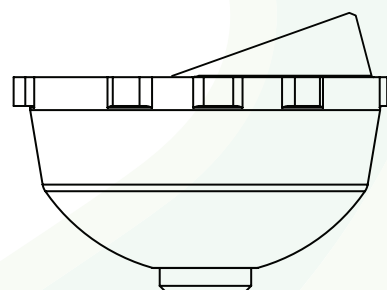
Logical Trial Liner 10° Hooded

112-152-061	28/44-46mm	A
112-152-062	28/48-50mm	B
112-152-063	28/52-54mm	C
112-152-064	32/48-50mm	B
112-152-065	32/52-54mm	C
112-152-066	32/56-58mm	D
112-152-067	32/60-68mm	E
112-152-068	36/52-54mm	C
112-152-069	36/56-58mm	D
112-152-070	36/60-68mm	E
112-152-142	40/56-58mm	D
112-152-143	40/60-68mm	E



Logical Trial Liner 20° Hooded

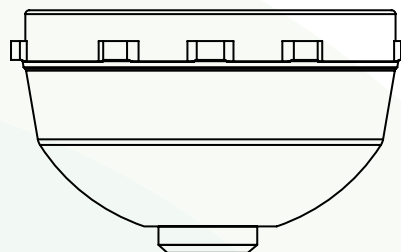
112-152-517	28/44-46mm	A
112-152-518	28/48-50mm	B
112-152-519	28/52-54mm	C
112-152-520	32/48-50mm	B
112-152-521	32/52-54mm	C
112-152-522	32/56-58mm	D
112-152-523	32/60-68mm	E
112-152-524	36/52-54mm	C
112-152-525	36/56-58mm	D
112-152-526	36/60-68mm	E
112-152-527	40/56-58mm	D
112-152-528	40/60-68mm	E



Logical Instruments

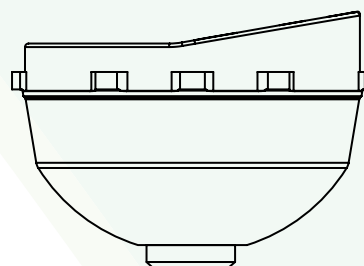
Logical Lateralised Trial Liner Neutral

112-15-7844	28/44-46mm	A
112-15-7850	28/48-50mm	B
112-15-7852	28/52-54mm	C
112-15-7250	32/48-50mm	B
112-15-7252	32/52-54mm	C
112-15-7256	32/56-58mm	D
112-15-7260	32/60-68mm	E
112-15-7652	36/52-54mm	C
112-15-7656	36/56-58mm	D
112-15-7660	36/60-68mm	E
112-15-7456	40/56-58mm	D
112-15-7460	40/60-68mm	E



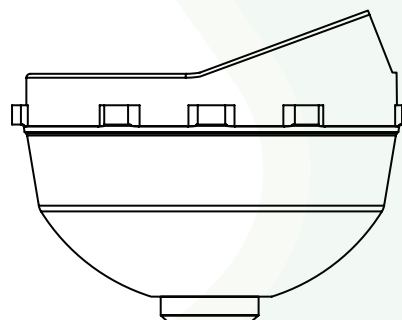
Logical Lateralised Trial Liner 10° Hooded

112-15-8844	28/44-46mm	A
112-15-8850	28/48-50mm	B
112-15-8852	28/52-54mm	C
112-15-8250	32/48-50mm	B
112-15-8252	32/52-54mm	C
112-15-8256	32/56-58mm	D
112-15-8260	32/60-68mm	E
112-15-8652	36/52-54mm	C
112-15-8656	36/56-58mm	D
112-15-8660	36/60-68mm	E
112-15-8456	40/56-58mm	D
112-15-8460	40/60-68mm	E



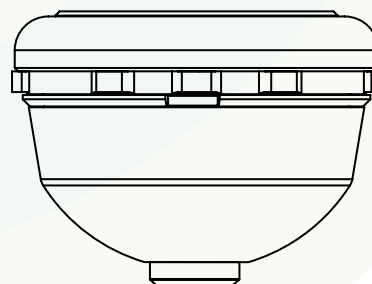
Logical Lateralised Trial Liner 20° Hooded

112-15-9844	28/44-46mm	A
112-15-9850	28/48-50mm	B
112-15-9852	28/52-54mm	C
112-15-9250	32/48-50mm	B
112-15-9252	32/52-54mm	C
112-15-9256	32/56-58mm	D
112-15-9260	32/60-68mm	E
112-15-9652	36/52-54mm	C
112-15-9656	36/56-58mm	D
112-15-9660	36/60-68mm	E
112-15-9456	40/56-58mm	D
112-15-9460	40/60-68mm	E



Logical Constrained Trial Liner

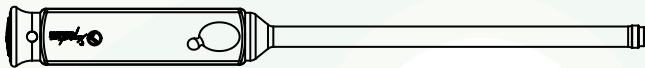
112-152-537	22/44-46mm	A
112-152-538	28/48-50mm	B
112-152-539	32/52-54mm	C
112-152-540	36/56-58mm	D
112-152-541	40/60-68mm	E



Logical Optional Instruments

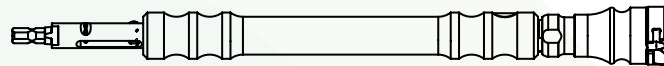
Simple Cup Inserter

112-152-310 (No moving parts)



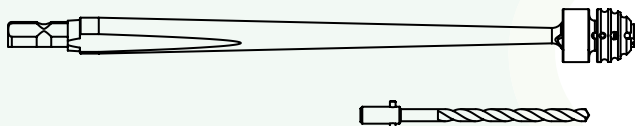
Slim Reamer Shaft Assembly

112-152-342 (Slim grip 112-152-022)



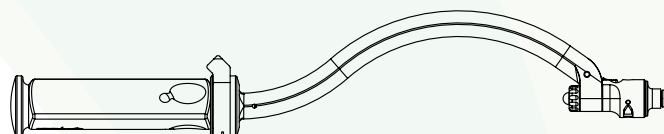
Optimus Q Drill (Flexible Drill)

192-072-020 (Drill bits 192-072-013)



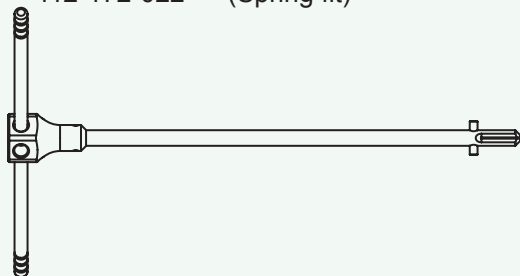
Curved Cup Inserter

112-172-001



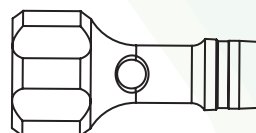
Alignment Guide (Two parts in tray)

112-172-022 (Spring fit)



Ceramic Liner Inserter

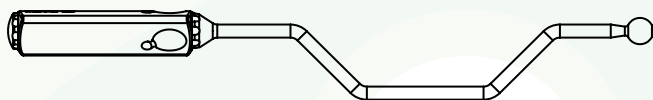
112-152-305



Logical Optional Instruments

Ceramic Liner Inserter

112-152-230



Ceramic Liner Snap Rings

Part Number

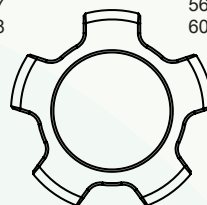
112-152-214
112-152-215
112-152-216
112-152-217
112-152-218

Shell Size

44-46mm
48-50mm
52-54mm
56-58mm
60-70mm

Connection Type

A
B
C
D
E



Ceramic Liner Snap Rings

112-152-210
112-152-211
112-152-212
112-152-213

Ø28mm
Ø32mm
Ø36mm
Ø40mm



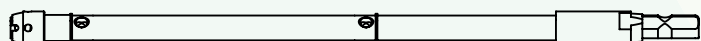
Lightweight Drill Guide

112-152-419



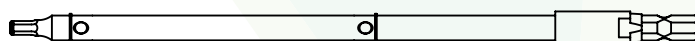
Floxtimus Q

192-072-050



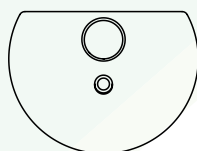
3.5MM Flhexible Driver

112-152-424 3.5MM Flhexible Driver
112-152-425 3.5MM Flhexible Driver - Self Retaining



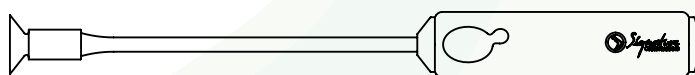
Acetal Liner Impactor

112-152-399_Acetal Liner Impactor - 28MM
112-152-400_Acetal Liner Impactor - 32MM
112-152-401_Acetal Liner Impactor - 36MM
112-152-402_Acetal Liner Impactor - 40MM



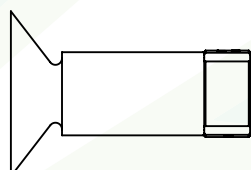
Liner Inserter

112-152-379



Modular Liner Inserter

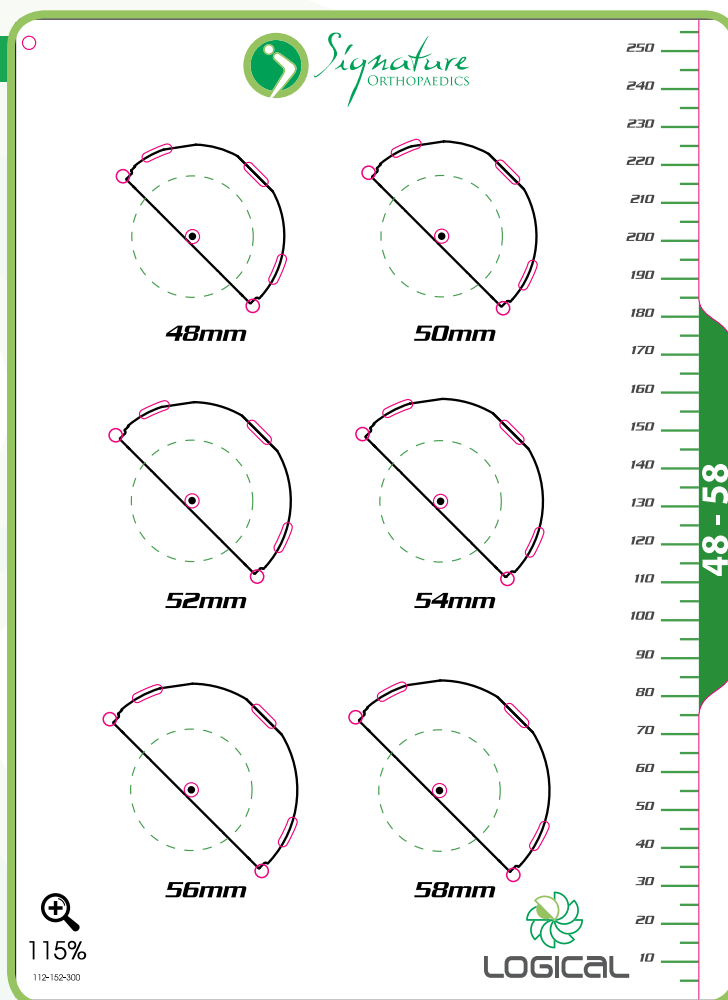
112-152-373



Logical Preoperative Templates

Logical Templates

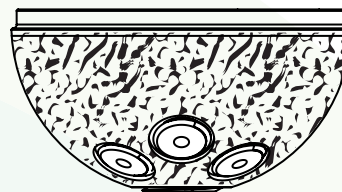
112-152-304	38-46mm
112-152-300	48-58mm
112-152-301	60-70mm



Logical Implants

Logical G Series Acetabular Cups, No Hole

111-12-3044	44mm
111-12-3046	46mm
111-12-3048	48mm
111-12-3050	50mm
111-12-3052	52mm
111-12-3054	54mm
111-12-3056	56mm
111-12-3058	58mm
111-12-3060	60mm
111-12-3062	62mm
111-12-3064	64mm
111-12-3066	66mm
111-12-3068	68mm
111-12-3070	70mm



Logical G Series Acetabular Cups, 2 Holes

111-12-3344	44mm
111-12-3346	46mm

Logical G Series Acetabular Cups, 3 Holes

111-12-3348	48mm
111-12-3350	50mm
111-12-3351	50mm
111-12-3352	52mm
111-12-3354	54mm
111-12-3355	54mm
111-12-3356	56mm
111-12-3358	58mm
111-12-3360	60mm
111-12-3362	62mm
111-12-3364	64mm
111-12-3366	66mm
111-12-3368	68mm
111-12-3370	70mm

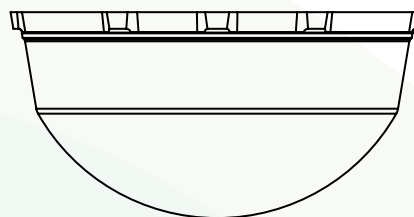
Logical G Series Acetabular Cups, Multi Holes

111-12-3944	44mm
111-12-3946	46mm
111-12-3948	48mm
111-12-3950	50mm
111-12-3952	52mm
111-12-3954	54mm
111-12-3955	54mm
111-12-3956	56mm
111-12-3958	58mm
111-12-3960	60mm
111-12-3962	62mm
111-12-3964	64mm
111-12-3966	66mm
111-12-3968	68mm
111-12-3970	70mm

Logical Implants

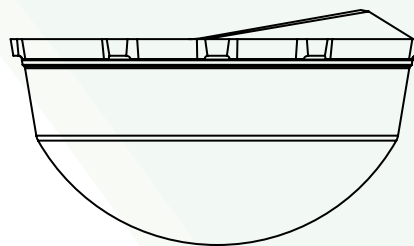
Logical XLPE Liner Neutral

111-12-5844	28/44-46mm	A
111-12-5850	28/48-50mm	B
111-12-5852	28/52-54mm	C
111-12-5250	32/48-50mm	B
111-12-5252	32/52-54mm	C
111-12-5256	32/56-58mm	D
111-12-5260	32/60-70mm	E
111-12-5652	36/52-54mm	C
111-12-5656	36/56-58mm	D
111-12-5660	36/60-70mm	E
111-12-5457	40/54mm	S
111-12-5456	40/56-58mm	D
111-12-5460	40/60-68mm	E



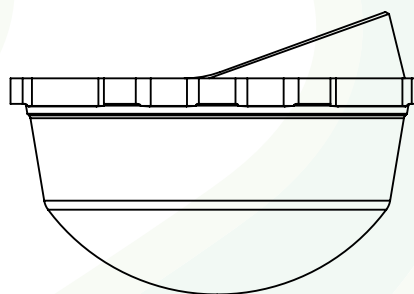
Logical XLPE Liner 10° Hooded

111-12-6844	28/44-46mm	A
111-12-6850	28/48-50mm	B
111-12-6852	28/52-54mm	C
111-12-6250	32/48-50mm	B
111-12-6252	32/52-54mm	C
111-12-6256	32/56-58mm	D
111-12-6260	32/60-70mm	E
111-12-6652	36/52-54mm	C
111-12-6656	36/56-58mm	D
111-12-6660	36/60-70mm	E
111-12-6457	40/45mm	S
111-12-6456	40/56-58mm	D
111-12-6460	40/60-68mm	E



Logical XLPE Liner 20° Hooded

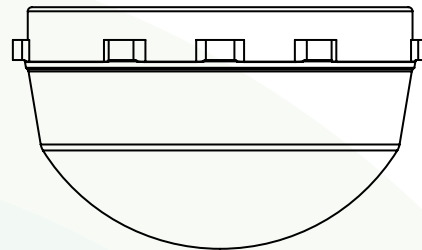
111-12-0844	28/44-46mm	A
111-12-0850	28/48-50mm	B
111-12-0852	28/52-54mm	C
111-12-0250	32/48-50mm	B
111-12-0252	32/52-54mm	C
111-12-0256	32/56-58mm	D
111-12-0260	32/60-70mm	E
111-12-0652	36/52-54mm	C
111-12-0656	36/56-58mm	D
111-12-0660	36/60-70mm	E
111-12-0457	40/54mm	S
111-12-0456	40/56-58mm	D
111-12-0460	40/60-68mm	E



Logical Implants

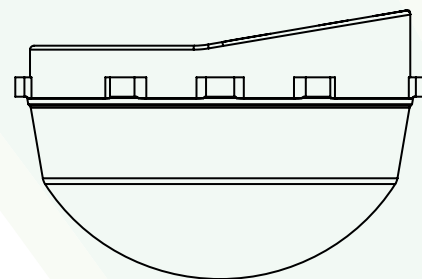
Logical XLPE Liner Neutral Lateralised

111-12-7844	28/44-46mm	A
111-12-7850	28/48-50mm	B
111-12-7852	28/52-54mm	C
111-12-7250	32/48-50mm	B
111-12-7252	32/52-54mm	C
111-12-7256	32/56-58mm	D
111-12-7260	32/60-70mm	E
111-12-7652	36/52-54mm	C
111-12-7656	36/56-58mm	D
111-12-7660	36/60-70mm	E
111-12-7457	40/54mm	S
111-12-7456	40/56-58mm	D
111-12-7460	40/60-68mm	E



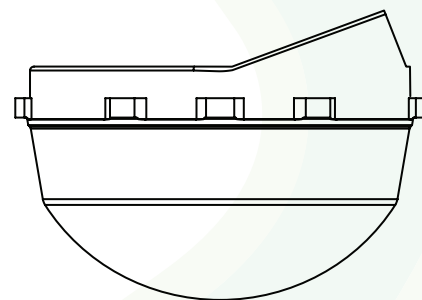
Logical XLPE Liner 10° Hooded Lateralised

111-12-8844	28/44-46mm	A
111-12-8850	28/48-50mm	B
111-12-8852	28/52-54mm	C
111-12-8250	32/48-50mm	B
111-12-8252	32/52-54mm	C
111-12-8256	32/56-58mm	D
111-12-8260	32/60-70mm	E
111-12-8652	36/52-54mm	C
111-12-8656	36/56-58mm	D
111-12-8660	36/60-70mm	E
111-12-7457	40/54mm	S
111-12-8456	40/56-58mm	D
111-12-8460	40/60-68mm	E



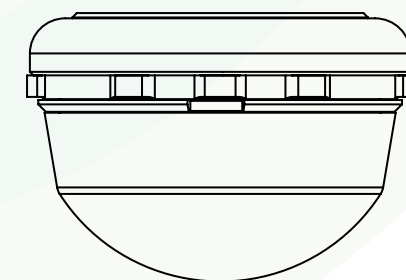
Logical XLPE Liner 20° Hooded Lateralised

111-12-9844	28/44-46mm	A
111-12-9850	28/48-50mm	B
111-12-9852	28/52-54mm	C
111-12-9250	32/48-50mm	B
111-12-9252	32/52-54mm	C
111-12-9256	32/56-58mm	D
111-12-9260	32/60-70mm	E
111-12-9652	36/52-54mm	C
111-12-9656	36/56-58mm	D
111-12-9660	36/60-70mm	E
111-12-7457	40/54mm	S
111-12-9456	40/56-58mm	D
111-12-9460	40/60-68mm	E



Logical XLPE Liner Constrained

111-12-9201	28/48-50mm	B
111-12-9202	32/52-54mm	C
111-12-9203	36/56-58mm	D
111-12-9204	40/60-68mm	E

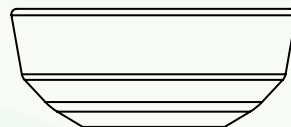


Logical Implants

Logical Ceramic Liner *Not available in USA

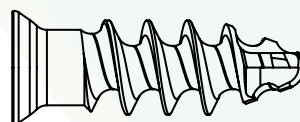
111-12-1002	28/44-46mm
111-12-1003	28/48-50mm
111-12-1004	28/52-54mm
111-12-1005	32/48-50mm
111-12-1006	32/52-54mm
111-12-1007	32/56-58mm
111-12-1008	32/60-70mm
111-12-1009	36/52-54mm
111-12-1010	36/56-58mm
111-12-1011	36/60-70mm
111-12-1012	40/56-58mm
111-12-1013	40/60-68mm

A
B
C
B
C
D
E
C
D
E
D
E



Acetabular Fixation Screws, Ø6.5mm

111-12-9115	15mm
111-12-9120	20mm
111-12-9125	25mm
111-12-9130	30mm
111-12-9135	35mm
111-12-9140	40mm
111-12-9145	45mm
111-12-9150	50mm
111-12-9155	55mm
111-12-9160	60mm
111-12-9165	65mm
111-12-9170	70mm



Apical Screw

111-12-9001





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