

ACE[®]

Acetabular System

OPERATIVE TECHNIQUE



MULTI-BEARING



ACE
ACETABULAR SYSTEM



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Pre-operative Planning

Pre-operative planning for the ACE® Acetabular Cup System is available on all commonly used 2D software and in acetate. 3D templating is also available using ZedHip 3D (LEXI Europe GmbH)¹.

To ensure accurate templating, Anterior / Posterior and Lateral radiographs will be required with neutral leg alignment and stable pelvic tilt to help determine the implant size and positioning required to restore the patient's natural anatomy and hip biomechanics.

Be sure that the cup is well centred within the acetabulum and at an abduction angle of approximately 45°, taking into account the subchondral bone and selecting a size that is located between the superior rim and the tear drop. After templating the acetabulum for size, mark the centre of rotation. Care should also be taken intra-operatively to restore anteversion, taking into consideration alignment with the tranverse ligament².

The ACE® Acetabular Cup System is only indicated for use with JRI Orthopaedics Ltd. femoral stems and femoral heads. These include:

- Furlong® H-A.C. Stems and Revision Stems
- Furlong® Modular Cemented Stem and Revision Stem
- Furlong Evolution® Stem
- Securus Revision Stem System
- AVANTEON® Cemented Stem



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Acetabular Preparation

Starting with a reamer 6-8mm smaller than the templated size, increase in 1mm increments until a bed of circumferential bleeding subchondral bone is achieved (*Fig. 1*). The final reamer size determines the size of the definitive acetabular implant.



Fig. 1

The ACE® Acetabular Cup System is a hemispherical cup, designed to be 1.8mm larger in diameter than the reamer, in order to achieve equatorial interference fit when impacted into the acetabulum. Concentricity should be maintained within the acetabulum cavity during reaming, aiming for line-to-line sizing. Adjust according to patient bone quality where over-reaming by 1mm may be required.

The trial is 0.9mm larger than the acetabular reamer, allowing for some interference fit, but less than the definitive to aid removal and to preserve the integrity of the press-fit.

Fig. 2 demonstrates the actual dimensions of a cup when reamed line to line for a 50mm definitive cup.

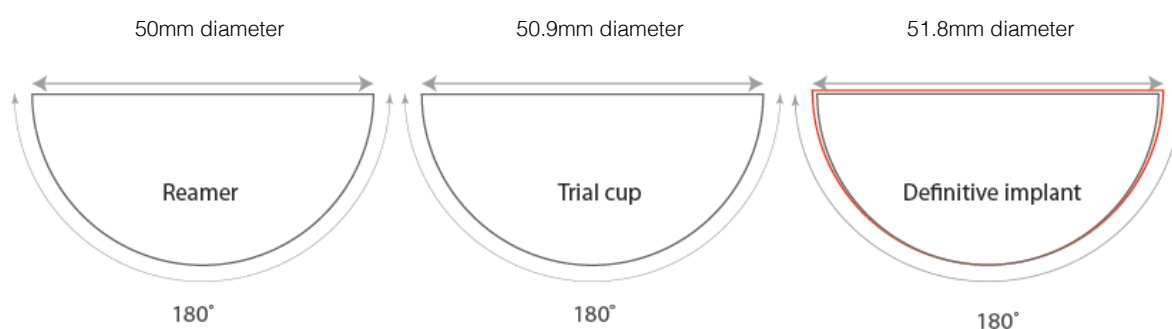


Fig. 2



Acetabular Trial Reduction

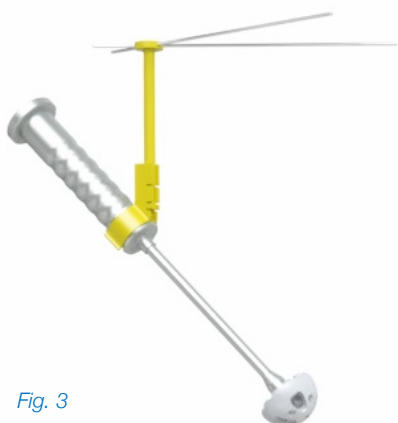


Fig. 3

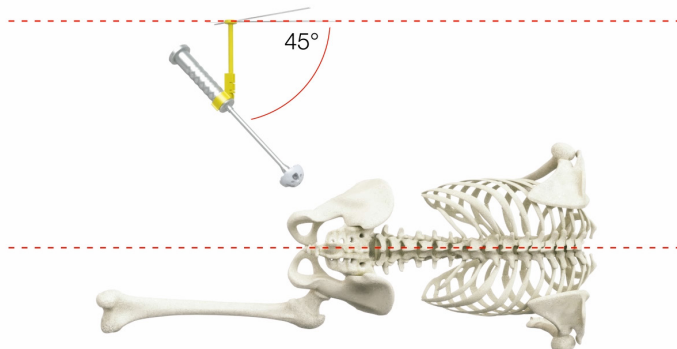


Fig. 4

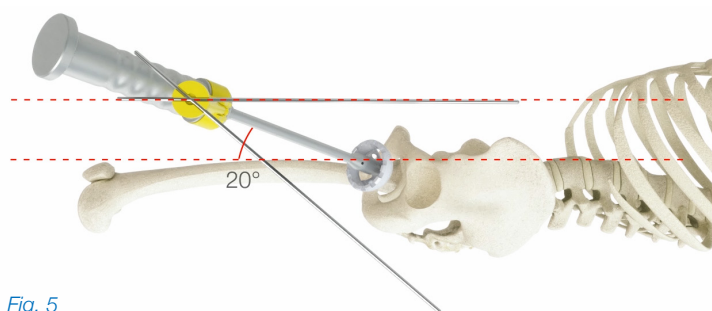


Fig. 5

Ensure that the acetabulum is clean and clear of debris, excise any soft tissues that may inhibit the seating of the cup. The trial cups are available in 2mm increments and mimic the definitive cup.

NB: The screw holes in the trial cup are for reference only, do not use these holes to secure the trial cup in position.

Securely screw the trial cup onto the cup impaction handle. Align the screw holes with the superior aspect of the acetabulum before attaching the cup alignment guide onto the cup impactor handle (Fig. 3). Patient position, with respect to the operating table, will affect the orientation of the cup and the alignment guide.

With the patient placed in the lateral position, the vertical rod on the alignment guide, when perpendicular to the floor, indicates 45° abduction of the cup (Fig. 4).

Appropriately align the crossed rod with the long axis of the body. This represents 20° of anteversion (Fig. 5). Impact the trial cup into the acetabulum, aiming for 40-45° of abduction and 15-20° of anteversion, or referenced with the transverse acetabular ligament (Surgeon preference).



Fig. 6

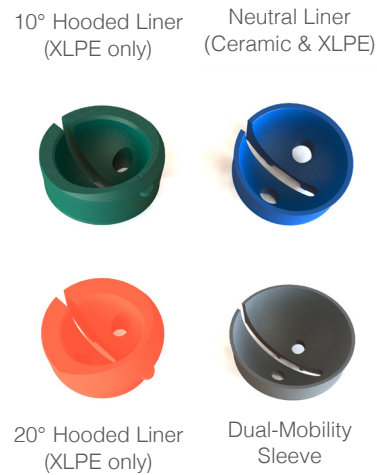


Fig. 7

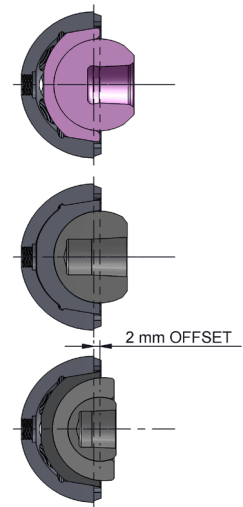


Fig. 8

Unclip the alignment guide before impacting the trial cup, ensuring that the cup position stays in the correct orientation (Fig. 6). With the trial cup firmly in position, a preliminary trial reduction can be performed if desired, in conjunction with the femoral component trials.

Trial liners are available in standard, +10°, +20° hooded and Dual Mobility (Fig. 7). Castellations on the trial liners are used to control rotation and position the hooded trials in the posterior-superior aspect, or as desired. See pages 22 and 23 for bearing combinations.

NB: The centre of rotation for the head is a consistent +2mm eccentric to the centre of rotation of the cup, irrespective of head diameter or when using XLPE or Ceramic liners. (Fig. 8).

Conduct a trial reduction checking for stability, range of motion and impingement, making adjustments as needed to obtain the correct orientation and hip tension. Before removing the trial cup, reattach the alignment guide and make note of the final cup position.



Definitive Cup Implantation



Fig. 9



Fig. 10

Select the same diameter definitive cup as the trial implant, and screw firmly onto the cup impactor handle. Recreate the position of the trial implants before attaching the cup alignment guide. Using the cup alignment guide, recreate the seating position of the trial cup. Impact the cup firmly ensuring the orientation of the cup is maintained. An audible change of tone and tactile feedback will indicate when the cup is fully seated (Fig. 9).

The impactor handle can be removed and the seating of the cup checked, through the apical hole and/or through the screw holes. Should the cup be difficult to seat or the bone be sclerotic, it may be necessary to open the aperture of the acetabular rim. Lightly reaming the acetabular rim with the next size reamer up will help to introduce and seat the implant (Fig. 10).



Screw Fixation



Fig. 11



Fig. 12

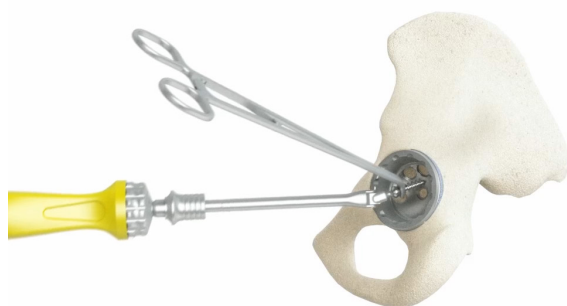


Fig. 13

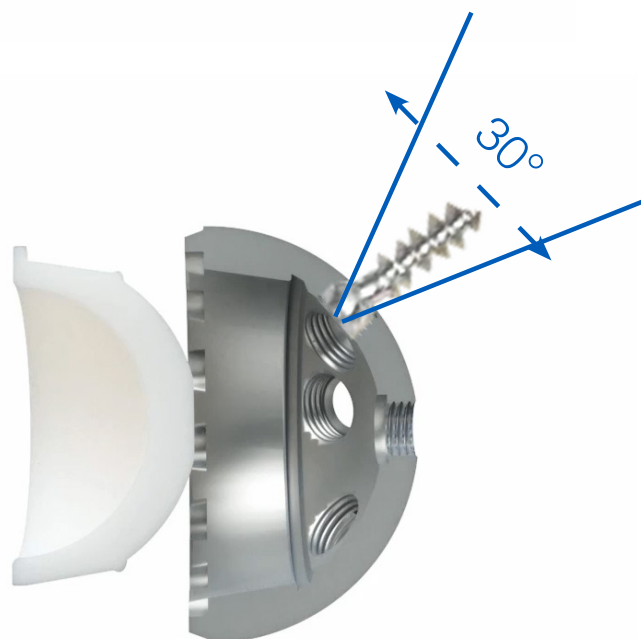


Fig. 14

Additional fixation can be achieved with the use of cancellous bone screws to supplement primary mechanical fixation. Each screw hole comes fitted with a screw cap to stop wear particle migration into the acetabular bone. Apart from the cups optimised for large bore cups, these can be removed with the 3.5mm hex screwdriver. A drill guide is placed carefully in the chosen screw hole, ensuring that it is fully seated (Fig. 11). A pilot hole is made using the disposable drill bit of the appropriate size (see page 19), which can be used with power or manually.

The length of the screw is determined using the depth gauge (Fig. 12). Once selected, the self-tapping screws, which are available in 12mm and 15mm-70mm in 5mm increments, are held with the screw-holding forceps and screwed into position with a 3.5mm hex screwdriver (Fig. 13). It is imperative that the head of the screw does not sit proud from the screw hole. Failure to do so could result in the screw head preventing the liner from seating fully. The ACE® Low Profile Cancellous Bone Screw can achieve a polyaxial position of $\pm 15^\circ$ in standard thickness acetabular cups and $\pm 9^\circ$ in large bore acetabular cups, while ensuring the rim of the head of the screw remains sub-flush to the inner face of the cup (Figure 14).



Liner Insertion - XLPE

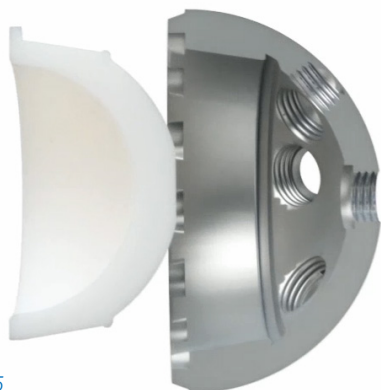


Fig. 15

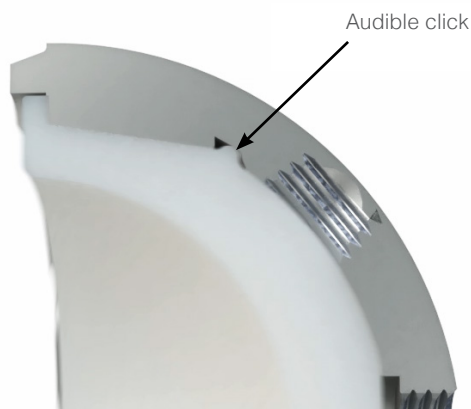


Fig. 16

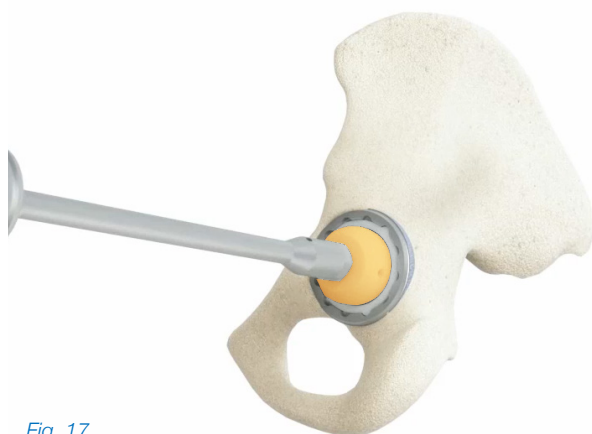


Fig. 17



Fig. 18

The inner surface of the acetabular cup must be clean, dry and free from debris. The XLPE liners must be positioned so that the tabs on the liner align with the 12 castellations on the rim of the shell. Ensure that the hooded liner matches the placement of the trial liners. The most prominent point on the hooded liners is indicated by a black laser-marked line.

The XLPE liner has a secondary mechanical locking feature to prevent subluxation of the liner; an internal groove which runs circumferentially around the inside of the cup. Push the liner firmly into the cup. The lip of the liner will make an audible click when it locates within the groove of the cup (Fig. 15 and 16).

The cup introducer handle is fitted with the liner impactor head that matches the internal diameter of the acetabular liner. The liner is firmly impacted home using as single blow. An audible 'click' should be heard when the locking ring clicks into position inside the shell (Fig. 17).

Finally, run your finger around the rim of the cup, ensuring that the XLPE liner is fully seated and secure (Fig. 18).



Liner Insertion - Ceramic



Fig. 19



Fig. 20



Fig. 21

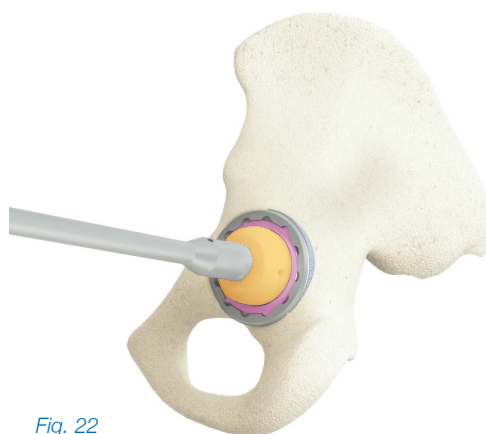


Fig. 22

The definitive ceramic acetabular liner is inserted into the cup by gently sliding the liner down the internal taper of the cup (*Fig. 19 and 20*). Ensure that the liner is uniformly flush against the entire rim by gliding your finger around the edge of the cup, confirming the edge of the liner is even with the rim of the shell around the whole circumference (*Fig. 21*). Impact the liner using the impactor handle with the corresponding size head fitted (*Fig. 22*).



Dual Mobility Trial Reduction



Fig. 23



Fig. 24



Fig. 25



Fig. 26

A preliminary trial reduction can be performed in conjunction with the femoral component trials. Select the trial dual mobility sleeve that corresponds to the cup size and place into the shell (see pages 22 and 23). Ensure the trial sleeve is correctly seated (Fig. 23).

Refer to the chart to select the correct diameter dual mobility trial bearing and the corresponding trial femoral head. Place the trial femoral head onto the trial stem, then push the dual mobility trial bearing onto the trial head, ensuring that the bearing is fully seated onto the femoral head (Fig. 24 and 25).

With the trials required in place, reduce the hip and assess for stability and range of motion (Fig. 26).



Fig. 27

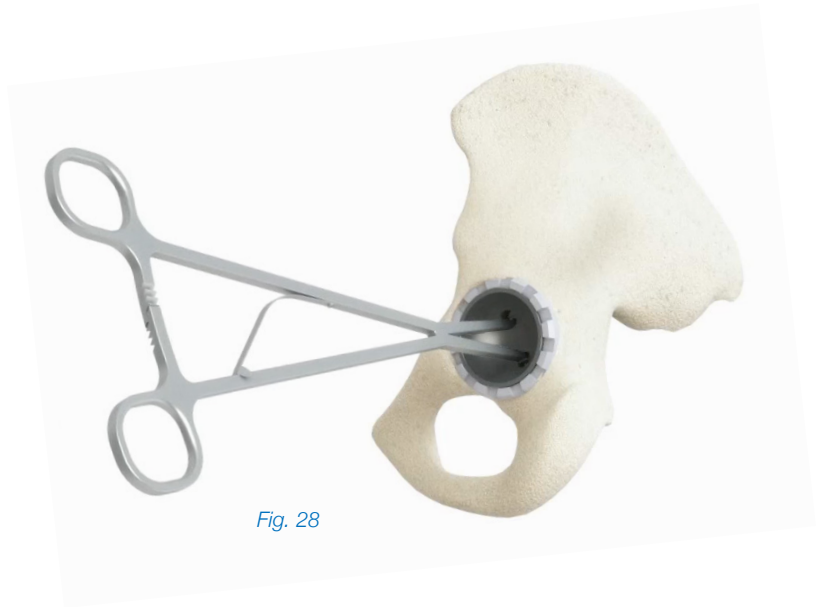


Fig. 28

Should you need to change the trials to achieve better stability, lever the Dual Mobility (DM) bearing off the trial femoral head, and replace the femoral head with a longer or shorter length until the correct stability and range of motion is achieved.

Should the trial bearing and head be difficult to separate, a separator tool is available (Fig. 27). To exchange the Femoral Head (FH) for a longer or shorter trial head, use the DM/FH separator tool by clamping the DM bearing firmly and levering the FH out of the DM bearing.

Retain the trial DM/FH assembly for use in trial reduction with the definitive femoral stem and acetabular cup in position. Remove the trial DM sleeve using the removal forceps (Fig. 28).



Dual Mobility Definitive Sleeve Insertion



Fig. 29



Fig. 30

The inner surface of the acetabular cup must be clean, dry and free from debris. The definitive dual mobility sleeve is inserted into the cup by gently sliding the sleeve down the internal taper of the cup. Ensure that the liner is uniformly flush against the whole rim by gliding your finger around the edge of the cup, confirming the edge of the sleeve is even with the rim of the shell around the whole circumference.

The cup introducer handle is fitted with a sleeve impactor head that matches the internal diameter of the dual mobility sleeve. The sleeve is firmly impacted using a single blow (Fig. 29). After impaction, re-check to ensure correct seating of the sleeve (Fig. 30).



Dual Mobility Definitive Femoral Head Assembly

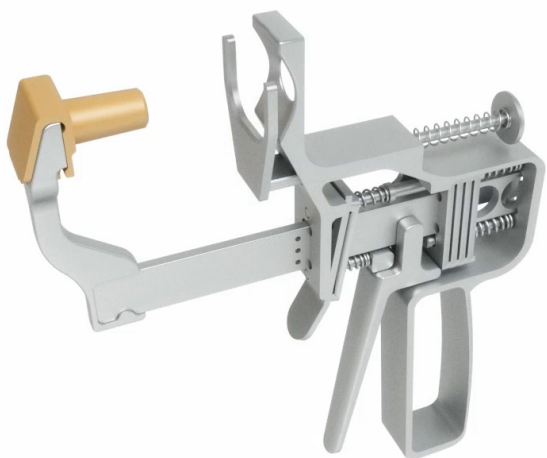


Fig. 31



Fig. 32

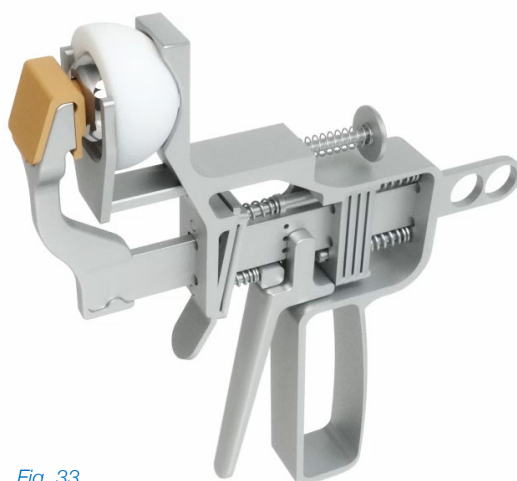


Fig. 33

The definitive Dual Mobility (DM) bearing and Femoral Head (FH) are assembled using the Dual Mobility Head Reducer. The FH must be inserted into the bearing using a 'double click technique'; the first click pushes the FH inside the DM bearing, the second click releases the internal pressure. Ensure the FH spins freely inside the DM bearing.

Place the FH onto the femoral head spigot (Fig 31). Locate the DM bearing spring clamp of the Dual Mobility Head Reducer ensuring the concave surface is facing outward towards the FH (Fig 32).

Squeeze the Dual Mobility Head Reducer trigger until two audible clicks are heard (Fig 33).

NB: The use of a skirted femoral head is not recommended for use with ACE Dual Mobility.



Dual Mobility Final Reduction



Fig. 34



Fig. 35

Ensure that the femoral spigot is clean and free from debris. Place the DM/FH assembly onto the definitive femoral stem. Using the femoral head impactor, impact the head firmly using a single blow (Fig. 34).

Prior to reduction, it is important to ensure the liner is oriented to reduce the angle between liner and femoral stem neck incase contact occurs with the rim of the cup/acetabulum. By placing a finger on the liner in conjunction with pushing using the head impactor, this will ensure the liner stays in the correct orientation during reduction (Fig. 35).



Fig. 36

Reduce the hip construct and check for joint stability, leg length and range of motion (Fig. 36).



PART NUMBER	ACE® H-A.C. CUP
001-44-00	ACE H-AC Cup 44mm OD
001-46-00	ACE H-AC Cup 46mm OD
001-46-01	ACE H-AC Cup 46mm OD (Large bearing optimised)
001-48-00	ACE H-AC Cup 48mm OD
001-50-00	ACE H-AC Cup 50mm OD
001-50-01	ACE H-AC Cup 50mm OD (Large bearing optimised)
001-52-00	ACE H-AC Cup 52mm OD
001-54-00	ACE H-AC Cup 54mm OD
001-54-01	ACE H-AC Cup 54mm OD (Large bearing optimised)
001-56-00	ACE H-AC Cup 56mm OD
001-58-00	ACE H-AC Cup 58mm OD
001-60-00	ACE H-AC Cup 60mm OD
001-62-00	ACE H-AC Cup 62mm OD
001-64-00	ACE H-AC Cup 64mm OD

PART NUMBER	ACE® H-A.C. CUP ZERO BIOLOX® <i>Delta</i> CERAMIC LINER
000-44-28	ACE Ceramic Liner 28mm ID for 44/46mm Shells
000-46-28	ACE Ceramic Liner 28mm ID for 48/50mm Shells & Large Bore 46mm Shells
000-46-32	ACE Ceramic Liner 32mm ID for 48/50mm Shells & Large Bore 46mm Shells
000-50-32	ACE Ceramic Liner 32mm ID for 52/54mm Shells & Large Bore 50mm Shells
000-50-36	ACE Ceramic Liner 36mm ID for 52/54mm Shells & Large Bore 50mm Shells
000-54-32	ACE Ceramic Liner 32mm ID for 56/58mm Shells & Large Bore 54mm Shells
000-54-36	ACE Ceramic Liner 36mm ID for 56/58mm Shells & Large Bore 54mm Shells
000-54-40	ACE Ceramic Liner 40mm ID for 56/58mm Shells & Large Bore 54mm Shells
000-60-32	ACE Ceramic Liner 32mm ID for 60-64mm Shells
000-60-36	ACE Ceramic Liner 36mm ID for 60-64mm Shells
000-60-40	ACE Ceramic Liner 40mm ID for 60-64mm Shells



PART NUMBER	ACE® XLPE CROSS-LINKED POLYETHYLENE LINERS
002-44-28	XLPE Liner, STD, 28mm I/D for 44/46mm Shell
002-46-28	XLPE Liner, STD, 28mm I/D for 48/50mm & L/Bore 46mm Shell
002-46-32	XLPE Liner, STD, 32mm I/D for 48/50mm & L/Bore 46mm Shell
002-50-28	XLPE Liner, STD, 28mm I/D for 52/54mm & L/Bore 50mm Shell
002-50-32	XLPE Liner, STD, 32mm I/D for 52/54mm & L/Bore 50mm Shell
002-50-36	XLPE Liner, STD, 36mm I/D for 52/54mm & L/Bore 50mm Shell
002-54-28	XLPE Liner, STD, 28mm I/D for 56/58mm & L/Bore 54mm Shell
002-54-32	XLPE Liner, STD, 32mm I/D for 56/58mm & L/Bore 54mm Shell
002-54-36	XLPE Liner, STD, 36mm I/D for 56/58mm & L/Bore 54mm Shell
002-60-28	XLPE Liner, STD, 28mm I/D for 60-64mm Shell
002-60-32	XLPE Liner, STD, 32mm I/D for 60-64mm Shell
002-60-36	XLPE Liner, STD, 36mm I/D for 60-64mm Shell



PART NUMBER	ACE® XLPE POLYETHYLENE 10° HOODED LINERS
003-44-28	XLPE Liner, 10° Hooded, 28mm I/D for 44/46mm Shell
003-46-28	XLPE Liner, 10° Hooded, 28mm I/D for 48/50mm & L/Bore 46mm Shell
003-46-32	XLPE Liner, 10° Hooded, 32mm I/D for 48/50mm & L/Bore 46mm Shell
003-50-28	XLPE Liner, 10° Hooded, 28mm I/D for 52/54mm & L/Bore 50mm Shell
003-50-32	XLPE Liner, 10° Hooded, 32mm I/D for 52/54mm & L/Bore 50mm Shell
003-50-36	XLPE Liner, 10° Hooded, 36mm I/D for 52/54mm & L/Bore 50mm Shell
003-54-28	XLPE Liner, 10° Hooded, 28mm I/D for 52/54mm & L/Bore 54mm Shell
003-54-32	XLPE Liner, 10° Hooded, 32mm I/D for 56/58mm & L/Bore 54mm Shell
003-54-36	XLPE Liner, 10° Hooded, 36mm I/D for 56/58mm & L/Bore 54mm Shell
003-60-28	XLPE Liner, 10° Hooded, 28mm I/D for 60-64mm Shell
003-60-32	XLPE Liner, 10° Hooded, 32mm I/D for 60-64mm Shell
003-60-36	XLPE Liner, 10° Hooded, 36mm I/D for 60-64mm Shell



PART NUMBER	ACE® XLPE POLYETHYLENE 20° HOODED LINERS
005-44-28	XLPE Liner, 20° Hooded, 28mm I/D for 44/46mm Shell
005-46-28	XLPE Liner, 20° Hooded, 28mm I/D for 48/50mm & L/Bore 46mm Shell
005-46-32	XLPE Liner, 20° Hooded, 32mm I/D for 48/50mm & L/Bore 46mm Shell
005-50-28	XLPE Liner, 20° Hooded, 28mm I/D for 52/54mm & L/Bore 50mm Shell
005-50-32	XLPE Liner, 20° Hooded, 32mm I/D for 52/54mm & L/Bore 50mm Shell
005-50-36	XLPE Liner, 20° Hooded, 36mm I/D for 52/54mm & L/Bore 50mm Shell
005-54-28	XLPE Liner, 20° Hooded, 28mm I/D for 56/58mm & L/Bore 54mm Shell
005-54-32	XLPE Liner, 20° Hooded, 32mm I/D for 56/58mm & L/Bore 54mm Shell
005-54-36	XLPE Liner, 20° Hooded, 36mm I/D for 56/58mm & L/Bore 54mm Shell
005-60-28	XLPE Liner, 20° Hooded, 28mm I/D for 60-64mm Shell
005-60-32	XLPE Liner, 20° Hooded, 32mm I/D for 60-64mm Shell
005-60-36	XLPE Liner, 20° Hooded, 36mm I/D for 60-64mm Shell



PART NUMBER	ACE® XLPE POLYETHYLENE BEARING
007-36-22	Dual Mobility XLPE Bearing 22.25mm I/D, 36 O/D
007-38-22	Dual Mobility XLPE Bearing 22.25mm I/D, 38 O/D
007-40-22	Dual Mobility XLPE Bearing 22.25mm I/D, 40 O/D
007-42-22	Dual Mobility XLPE Bearing, 22.25mm I/D, 42 O/D
007-42-28	Dual Mobility XLPE Bearing 28mm I/D, 42 O/D
007-44-22	Dual Mobility XLPE Bearing, 22.25mm I/D, 44 O/D
007-44-28	Dual Mobility XLPE Bearing, 28mm I/D, 44 O/D
007-46-22	Dual Mobility XLPE Bearing, 22.25mm I/D, 46 O/D
007-46-28	Dual Mobility XLPE Bearing, 28mm I/D, 46 O/D
007-48-22	Dual Mobility XLPE Bearing, 22.25mm I/D, 48 O/D
007-48-28	Dual Mobility XLPE Bearing, 28mm I/D, 48 O/D
007-50-22	Dual Mobility XLPE Bearing 22.25mm I/D, 50 O/D
007-50-28	Dual Mobility XLPE Bearing 28mm I/D, 50 O/D
007-52-22	Dual Mobility XLPE Bearing 22.25mm I/D, 52 O/D
007-52-28	Dual Mobility XLPE Bearing, 28mm I/D, 52 O/D
007-54-22	Dual Mobility XLPE Bearing, 22.25mm I/D, 54 O/D
007-54-28	Dual Mobility XLPE BEaring, 28mm I/D, 54 O/D
007-56-22	Dual Mobility XLPE Bearing, 22.25mm I/D, 56 O/D
007-56-28	Dual Mobility XLPE Bearing, 28mm I/D, 56 O/D

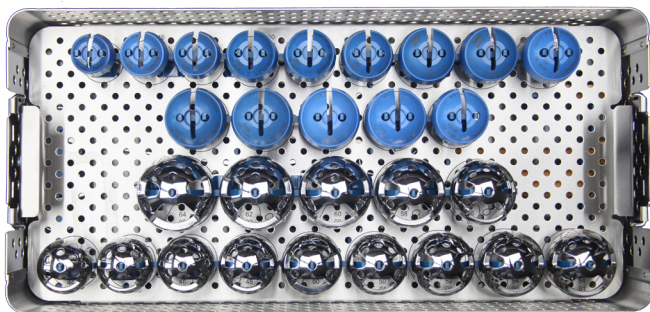


PART NUMBER	ACE® H-A.C. CUP DUAL MOBILITY SLEEVE
006-46-36	Dual Mobility Sleeve 36mm I/D for 48/50mm Shell & L/Bore 46mm Shell
006-50-40	Dual Mobility Sleeve 40mm I/D for 52/54mm Shell & L/Bore 50mm Shell
006-54-44	Dual Mobility Sleeve 44mm I/D for 56/58mm Shell & L/Bore 54mm Shell
006-60-48	Dual Mobility Sleeve 48mm I/D for 60/64mm Shell
006-66-52	Dual Mobility Sleeve 52mm I/D for 66/70mm Shell



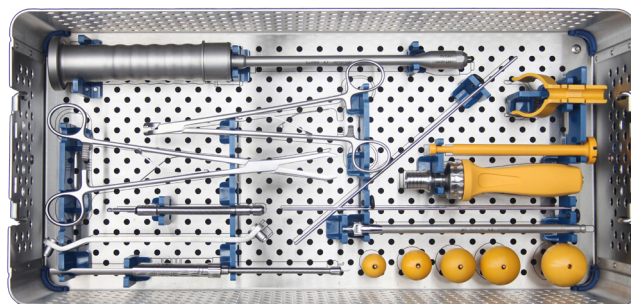
PART NUMBER	ACE® Low Profile Cancellous Bone Screws
009-00-12	ACE Low Profile Bone Screw, 6.5mm Thread Diameter, Length 12mm
009-00-15	ACE Low Profile Bone Screw, 6.5mm Thread Diameter, Length 15mm
009-00-20	ACE Low Profile Bone Screw, 6.5mm Thread Diameter, Length 20mm
009-00-25	ACE Low Profile Bone Screw, 6.5mm Thread Diameter, Length 25mm
009-00-30	ACE Low Profile Bone Screw, 6.5mm Thread Diameter, Length 30mm
009-00-35	ACE Low Profile Bone Screw, 6.5mm Thread Diameter, Length 35mm
009-00-40	ACE Low Profile Bone Screw, 6.5mm Thread Diameter, Length 40mm
009-00-45	ACE Low Profile Bone Screw, 6.5mm Thread Diameter, Length 45mm
009-00-50	ACE Low Profile Bone Screw, 6.5mm Thread Diameter, Length 50mm
009-00-55	ACE Low Profile Bone Screw, 6.5mm Thread Diameter, Length 55mm
009-00-60	ACE Low Profile Bone Screw, 6.5mm Thread Diameter, Length 60mm
009-00-65	ACE Low Profile Bone Screw, 6.5mm Thread Diameter, Length 65mm
009-00-70	ACE Low Profile Bone Screw, 6.5mm Thread Diameter, Length 70mm

PART NUMBER	CSF Acetabular Standard Drill Bit - Bayonet Fitting (Sterile SUD)
87-30-03	Std Bone Drill Bayonet Fitting 30mm
87-40-03	Std Bone Drill Bayonet Fitting 40mm
87-45-03	Std Bone Drill Bayonet Fitting 45mm
87-60-03	Std Bone Drill Bayonet Fitting 60mm



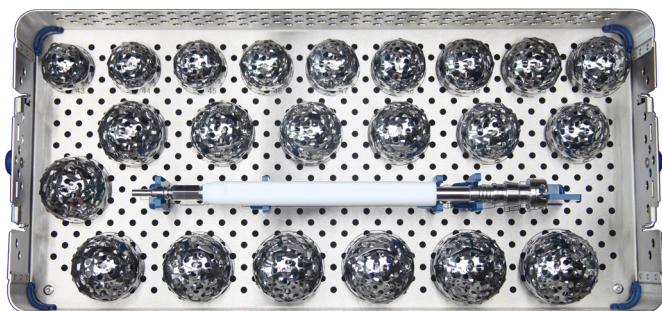
ACE® PRIMARY - TOP TRAY

PART NUMBER	DESCRIPTION
051-44-00	ACE Trial Cup 44mm
051-46-00	ACE Trial Cup 46mm
051-46-01	ACE Trial Cup 46mm+
051-48-00	ACE Trial Cup 48mm
051-50-00	ACE Trial Cup 50mm
051-50-01	ACE Trial Cup 50mm+
051-52-00	ACE Trial Cup 52mm
051-54-00	ACE Trial Cup 54mm
051-54-01	ACE Trial Cup 54mm+
051-56-00	ACE Trial Cup 56mm
051-58-00	ACE Trial Cup 58mm
051-60-00	ACE Trial Cup 60mm
051-62-00	ACE Trial Cup 62mm
051-64-00	ACE Trial Cup 64mm
052-44-28	TRIAL 0° INSERT
052-46-28	TRIAL 0° INSERT
052-46-32	TRIAL 0° INSERT
052-50-28	TRIAL 0° INSERT
052-50-32	TRIAL 0° INSERT
052-50-36	TRIAL 0° INSERT
052-54-28	TRIAL 0° INSERT
052-54-32	TRIAL 0° INSERT
052-54-36	TRIAL 0° INSERT
052-54-40	TRIAL 0° INSERT
052-60-28	TRIAL 0° INSERT
052-60-32	TRIAL 0° INSERT
052-60-36	TRIAL 0° INSERT
052-60-40	TRIAL 0° INSERT

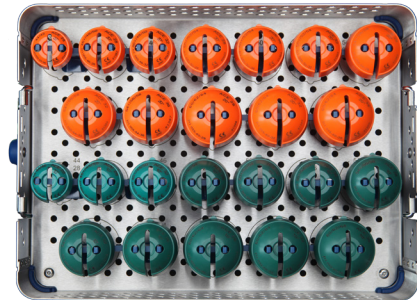
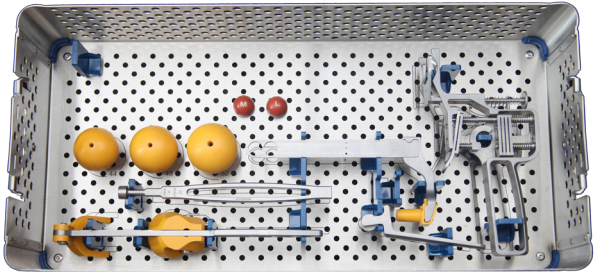


ACE® PRIMARY - BOTTOM TRAY

PART NUMBER	DESCRIPTION
051-01-22	Liner Impactor
051-01-28	Liner Impactor
051-01-32	Liner Impactor
051-01-36	Liner Impactor
051-01-40	Liner Impactor
051-00-01	Sputnik Sleeve
051-00-01-02-01	Sputnik Rod
051-00-01-02-02	Sputnik Alignment Guides
051-00-00	Cup Introducer
50-00-38	Trial Liner Forceps
051-00-03	Tecomet Modular Handle
86-00-02	Flexible Drill Shaft
86-00-03	Drill guide
55-00-01	Hole Flexible Depth Gauge
50-00-30	Screw Holding Forceps
50-91-36	3.5mm A/F Flexible Screwdriver shaft
050-99-01	PRIMARY TRAY - TOP AND BOTTOM



PART NUMBER	ACETABULAR REAMER 'EDGE' TRAY
10-03-43	Acetabular Reamer EDGE 43mm
10-03-44	Acetabular Reamer EDGE 44mm
10-03-45	Acetabular Reamer EDGE 45mm
10-03-46	Acetabular Reamer EDGE 46mm
10-03-47	Acetabular Reamer EDGE 47mm
10-03-48	Acetabular Reamer EDGE 48mm
10-03-49	Acetabular Reamer EDGE 49mm
10-03-50	Acetabular Reamer EDGE 50mm
10-03-51	Acetabular Reamer EDGE 51mm
10-03-52	Acetabular Reamer EDGE 52mm
10-03-53	Acetabular Reamer EDGE 53mm
10-03-54	Acetabular Reamer EDGE 54mm
10-03-55	Acetabular Reamer EDGE 55mm
10-03-56	Acetabular Reamer EDGE 56mm
10-03-57	Acetabular Reamer EDGE 57mm
10-03-58	Acetabular Reamer EDGE 58mm
10-03-59	Acetabular Reamer EDGE 59mm
10-03-60	Acetabular Reamer EDGE 60mm
10-03-61	Acetabular Reamer EDGE 61mm
10-03-62	Acetabular Reamer EDGE 62mm
10-03-63	Acetabular Reamer EDGE 63mm
10-03-64	Acetabular Reamer EDGE 64mm
10-02-00	Grater Shaft
050-99-00	TRAY



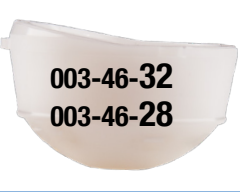
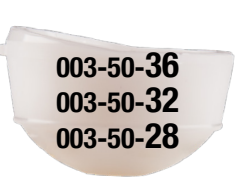
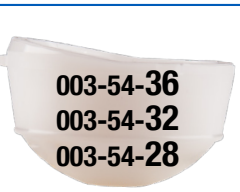
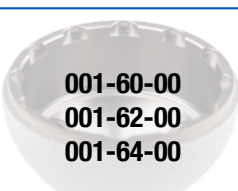
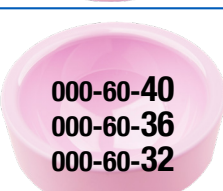
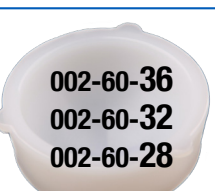
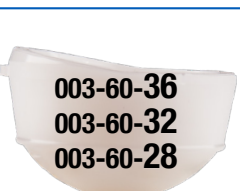
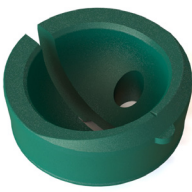
PART NUMBER	DUAL MOBILITY - TOP TRAY
056-46-36	Trial DM Sleeve
056-50-40	Trial DM Sleeve
056-54-44	Trial DM Sleeve
056-60-48	Trial DM Sleeve
056-66-52	Trial DM Sleeve
057-36-22	Trial DM Bearings
057-40-22	Trial DM Bearings
057-44-22	Trial DM Bearings
057-48-22	Trial DM Bearings
057-52-22	Trial DM Bearings
057-44-28	Trial DM Bearings
057-48-28	Trial DM Bearings
057-52-28	Trial DM Bearings

PART NUMBER	DUAL MOBILITY - BOTTOM TRAY
056-00-02	DM Head Remover
051-01-44	Liner Impactor
051-01-48	Liner Impactor
051-01-52	Liner Impactor
056-00-01-A	Dual Mobility Head Reducer Body Assembly
056-00-01-B	Dual Mobility Head Reducer Bar Assembly
056-00-01-C	Dual Mobility Head Reducer Trigger
056-00-01-D	Dual Mobility Head Reducer Head Adaptor
63-22-20	22.25mm Trial Head Medium
63-22-30	22.25mm Trial Head Long

PART NUMBER	HOODED CUP TRIALS
053-44-28	TRIAL 10° INSERT
053-46-28	TRIAL 10° INSERT
053-46-32	TRIAL 10° INSERT
053-50-28	TRIAL 10° INSERT
053-50-32	TRIAL 10° INSERT
053-50-36	TRIAL 10° INSERT
053-54-28	TRIAL 10° INSERT
053-54-32	TRIAL 10° INSERT
053-54-36	TRIAL 10° INSERT
053-60-28	TRIAL 10° INSERT
053-60-32	TRIAL 10° INSERT
053-60-36	TRIAL 10° INSERT
055-44-28	TRIAL 20° INSERT
055-46-28	TRIAL 20° INSERT
055-46-32	TRIAL 20° INSERT
055-50-28	TRIAL 20° INSERT
055-50-32	TRIAL 20° INSERT
055-50-36	TRIAL 20° INSERT
055-54-28	TRIAL 20° INSERT
055-54-32	TRIAL 20° INSERT
055-54-36	TRIAL 20° INSERT
055-60-28	TRIAL 20° INSERT
055-60-32	TRIAL 20° INSERT
055-60-36	TRIAL 20° INSERT
055-44-28	TRIAL 20° INSERT
055-44-28	TRIAL 20° INSERT
050-99-02	TRAY

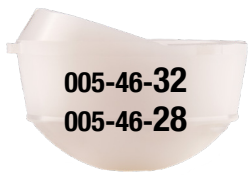
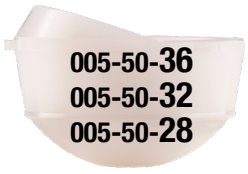
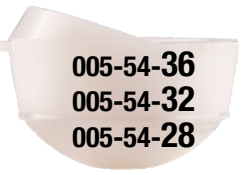
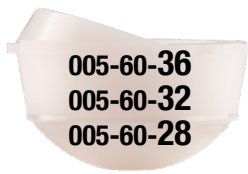


ACE® Bearing Combinations

ACE® H-A.C. CUP		BIOLOX® <i>delta</i> CERAMIC	XLPE LINER	XLPE 10° HOODED LINER
36 (BORE)	 001-44-00 001-46-00	 000-44-28	 002-44-28	 003-44-28
40	 001-46-01 001-48-00 001-50-00	 000-46-32 000-46-28	 002-46-32 002-46-28	 003-46-32 003-46-28
44	 001-50-01 001-52-00 001-54-00	 000-50-36 000-50-32	 002-50-36 002-50-32 002-50-28	 003-50-36 003-50-32 003-50-28
48	 001-54-01 001-56-00 001-58-00	 000-54-40 000-54-36 000-54-32	 002-54-36 002-54-32 002-54-28	 003-54-36 003-54-32 003-54-28
52	 001-60-00 001-62-00 001-64-00	 000-60-40 000-60-36 000-60-32	 002-60-36 002-60-32 002-60-28	 003-60-36 003-60-32 003-60-28
TRIAL LINERS BLUE = BIOLOX® <i>delta</i> CERAMIC LINER & HIGHLY CROSS-LINKED UHMWPE LINER GREEN = 10° HOODED XLPE LINER ORANGE = 20° HOODED XLPE LINER GREY = DUAL MOBILITY SLEEVE				
XX-XX-XX = Product Code XX-XX-XX = Outside diameter XX-XX-XX = Bearing size		XX-XX-01 = Optimised for large bearings/ Blanking Plugs cannot be used + = Large Bore		

NB: The use of a skirted femoral head is not recommended for use with ACE® dual mobility



XLPE 20° HOODED LINER		DUAL MOBILITY SLEEVE	DUAL MOBILITY XLPE BEARING
 005-46-32 005-46-28		 006-46-36	 007-36-22
 005-50-36 005-50-32 005-50-28		 006-50-40	 007-40-22
 005-54-36 005-54-32 005-54-28		 006-54-44	 007-44-22 007-44-28
 005-60-36 005-60-32 005-60-28		 006-60-48	 007-48-22 007-48-28
			
 ACE® LOW PROFILE BONESCREW 009-00- 12, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60			

References

¹The ACE® Acetabular Cup System is made in Britain. Other components and services within this document which are not sourced in Britain are: BIOLOX® *delta* ceramic components & LEXI software

²Goodman S, Aspenberg P. Effects of mechanical stimulation on the differentiation of hard tissues. *Biomaterials*. 1993;14:563–9.



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