DELTA TT

ACETABULAR CUP SYSTEM

SURGICAL TECHNIQUE | DELTA TT & DUAL MOBILITY

FEATURING

Trabecular *Titanium*®

Lima Corporate

Orthopaedic motion

DELTA TT & DUAL MOBILITY SURGICAL TECHNIQUE

Index

Limacorporate S.p.A., as manufacturer of prosthesis device, does not practice medicine. This surgical technique brochure has been developed in consultation with an experienced surgeon team and provides the surgeon with general guidance when implanting DELTA TT. Proper surgical procedures and techniques are necessarily the responsibility of the medical professional. Each surgeon must evaluate the appropriateness of the surgical technique used based on personal medical training, experience and clinical evaluation of each individual patient.

DELTA TT ACETABULAR CUP

The DELTA TT cup breaks new ground in orthopaedic technology, combining the proven features of the DELTA System with the Trabecular *Titanium* structure. The hemispheric, Titanium alloy (Ti6Al4V), design is ideal for uncemented implants, and the diameter is oversized to achieve a press-fit.

The mechanical interlocking between the cup and the acetabulum, enhanced by the high mechanical friction produced by the Trabecular *Titanium* structure, helps achieve primary fixation followed by biological fixation.

Indications and Contraindications

Consult instruction for use provided in the product package

INDICATIONS

The DELTA TT Acetabular System is indicated for use in total hip arthroplasty for reduction or relief of pain and/or improved hip function in skeletally mature patients with the following conditions:

- non-inflammatory degenerative joint disease such as osteoarthritis, avascular necrosis and hip dysplasia;
- rheumatoid arthritis;
- post-traumatic arthritis,
- correction of functional deformity;
- fractures, dislocation of the hip and unsuccessful cup arthroplasty;
- revisions in cases of good remaining bone stock.

DELTA TT cup is intended for cementless use.

The DELTA Dual Mobility System is intended to be used with DELTA TT Acetabular System.

CONTRAINDICATIONS

Absolute contraindications include:

- local or systemic infection;
- septicæmia;
- persistent acute or chronic osteomyelitis;
- confirmed nerve or muscle lesion compromising hip joint function.

Relative contraindications include:

- vascular or nerve diseases affecting the concerned limb;
- poor bone stock (for example due to osteoporosis) compromising the stability of the implant (applicable only to DELTA TT and DELTA TT Pro Cups);
- metabolic disorders which may impair fixation and stability of the implant;
- any concomitant disease and dependence that might affect the implanted prosthesis;
- metal hypersensitivity to implant materials.

RISK FACTORS

The following risk factors may result in poor results with this prosthesis:

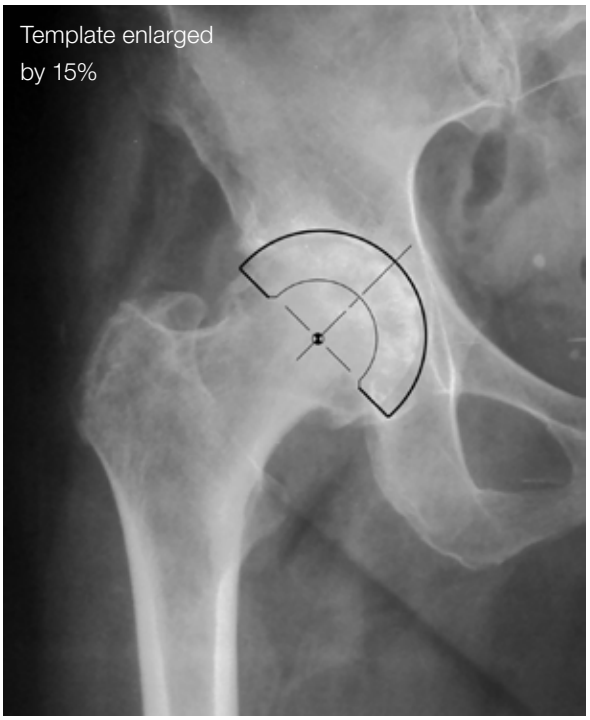
- overweight;
- strenuous physical activities (active sports, heavy physical work);
- incorrect implant positioning;
- medical disabilities which can lead to an unnatural gait and loading of the hip joint;
- muscle deficiencies;
- multiple joint disabilities;
- refusal to modify postoperative physical activities;
- patient's history of infections or falls;
- systemic diseases and metabolic disorders;
- local or disseminated neoplastic diseases;
- drug use or alcoholism;
- marked osteoporosis or osteomalacia;
- patient's resistance generally weakened (HIV, tumor, infections);
- severe deformity leading to impaired anchorage or improper positioning of implants.

WARNINGS

LimaCorporate products should be implanted only by surgeons familiar with the joint replacement procedures described in the specific surgical techniques.

Refer to Instruction For Use of femoral heads to identify allowed couplings with femoral stems.

Pre-operative planning



AP X-RAY with DELTA TT Template

PRE-OPERATIVE PLANNING

IMPORTANT: *Pre-operative planning provides useful information for the correct placement of the implant but dœs not necessarily indicate the appropriate cup size. The correct cup size must be determined during surgery.*

To achieve the best results, pre-operative planning using special templates (with 15% magnification) is always advisable.

Note. Other % magnification can be provided upon request.

It's suggested to do AP radiograph with adequate contrast. The templates show both the profile of the cup and the center of rotation of the femoral head.
Instead of conventional templates, a digital version compatible with most surgical planning software is also available.
Digital templates - provided by LimaCorporate - compatible with most surgical planning softwares, are available as alternative to conventional templates.

(a.)

(b.)

(c.)

(d.)

(e.)

ACETABULAR EXPOSURE

Prior to acetabular reaming, the acetabular site should be directly visible regardless the surgical approach chosen.
Soft tissues and osteophytes that may restrict the acetabular site visibility should be removed in order to clearly view the entire acetabular socket, thus verify presence of possible cavitary and/or segmental defects.

Specific acetabular retractors are available for facilitating the acetabular exposure.
Retractors available into the corresponding set are:
(a.) Cobra style Hohmann retractor
(b.) Single prong large Hohmann retractor
(c.) Single prong narrow Hohmann retractor
(d.) Femoral elevator
(e.) Offset femoral elevator

Figure 1

Reamer Handle

Figure 2a

Chana Reamer Handle

Figure 2b

Figure 3

Figure 4

ACETABULAR REAMING

DELTA TT acetabular cups have a self-locking build-up that provides 1 mm press-fit.
Reaming is performed with the press-fit incorporated into the final implant (e.g. 50 mm cup = 51.0 mm at the rim of the cup).

The acetabular seat is prepared with the acetabular reamers *(Fig. 1)*. Initially start reaming the acetabulum, preferably with a reamer 4-6 mm smaller than the size determined by pre-operative templating, mounted on the Reamer Handle *(Fig. 2a)* or on the Universal Chana Reamer Handle *(Fig. 2b)*, to deepen the acetabulum as templated.

To engage the reamer with the reamer handle:

1. Push the handle locking guide downward *(Fig. 3)*;
2. Insert the reamer and close it by turning *(Fig. 3)*;
3. Release the locking guide *(Fig. 4)*.

In case of reaming with the Universal Chana Reamer, assemble/dissasemble the reamer by turning the ring.

Figure 5

Figure 6

Multi Purpose Handle

Impactor - Positioner - Aligner

Figure 7

Figure 8

Insert the reamer into the acetabulum by keeping it on the ideal reaming axis of 45° of abduction *(fig. 5)* and 15° of anteversion. Operate the attached manipulator clockwise.

To remove the reamer pull the handle locking guide, turn the reamer clockwise and remove it.

Proceed gradually with incremental diameter reamers until reaching the subchondral bone.

Note. The amount of interference fit should be determined intra-operatively based upon the patient's bone quality.

Note. Reaming should proceed in 2 mm increments. Once the desired ream has been achieved, select the implant with nominal diameter corresponding to the final even reamer used. The implant's nominal diameter includes the interference fit of about 1 mm. In cases where less interference fit is needed, the 1 mm incrementing reamers (odd sized) can be used. Select the implant with nominal diameter corresponding to the last even reamer.

TRIAL AND ACETABULAR CUP INTRODUCTION

The trial cup is used for visualization and assessment of fit, contact, congruency and orientation within the acetabulum.

Once the acetabular seat preparation has been completed, use the cup trial *(Fig. 6)* of the size corresponding to the last reamer employed. Screw the trial cup onto the positioner or onto the multipurpose handle *(Fig. 7).*

Place the cup trial in an anatomic orientation and check its contact with the acetabular wall through the cutouts *(Fig. 8).*

The trial cup has an exact fit into the acetabulum (size by size), whereas the final implant has a press-fit of 1.0 mm.

Surgical Technique

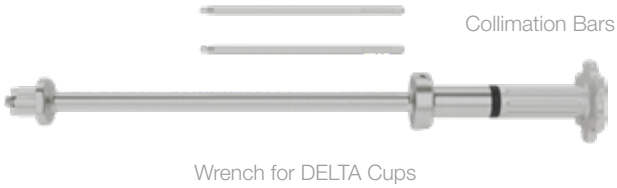


Figure 9

Figure 10

Figure 11

At this point, the definitive cup having the same nominal diameter as that of the cup trial used, is impacted in the acetabulum.

The wrench *(Fig. 9)* is equipped with three modular adaptors, sizes S, M, L (like acetabular liners), which optimize the impact stress distribution on the cup during impaction.

Choose the adaptor size according to the cup size (size is marked onto the packaging label as well as inside the cup) and assemble to the end of the wrench *(Fig. 10)*. The adaptor is magnetically clamped.

Place the cup on the end of the wrench *(Fig. 11)*, aligning the cup's internal polar grooves to the corresponding handle's pegs.

During the attachment, the two pegs should lodge into the cup's polar site grooves, hearing a slight snapping sound. The rim of the cup must be in complete contact with the adaptor periphery.

Note. DELTA TT cup is provided with three cranial holes for bone screws. Place the cranial cup's holes with the same side as the indication on the Wrench for DELTA cups.

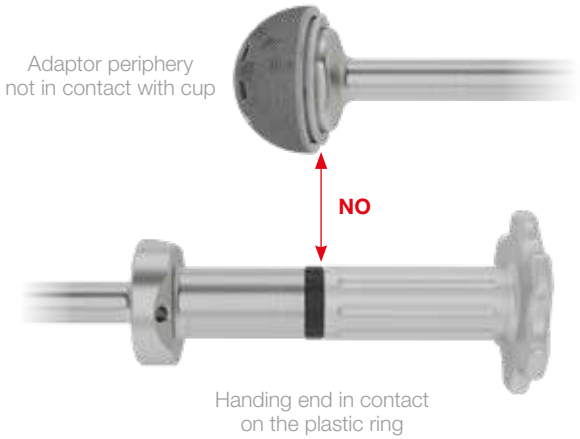


Figure 12

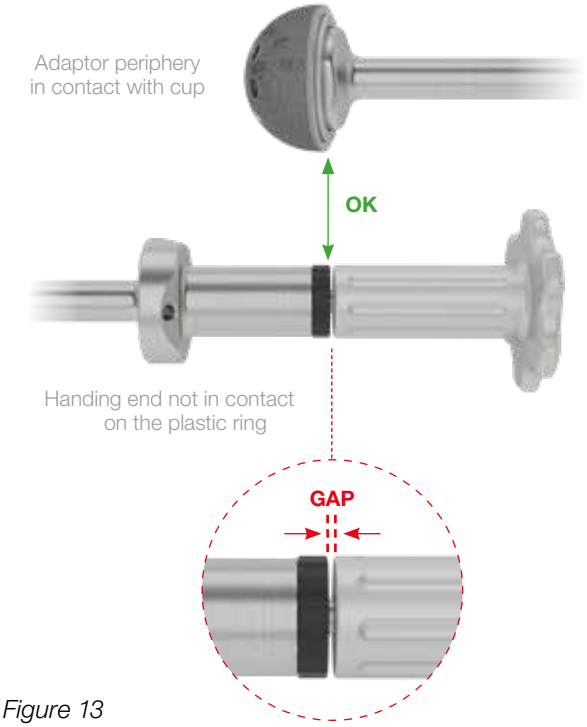


Figure 13

Figure 14

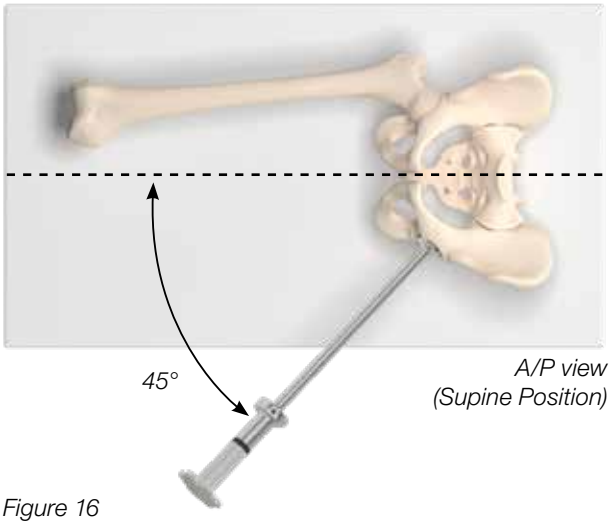
The opposite end of the handle also shows correct alignment between cup and wrench before tightening the cup *(Fig. 12-13)*.

Check the correct alignment *(Fig. 13)* and securely tighten the cup *(Fig. 14)*.

Warning! *Intra-operative handling of DELTA TT cups: when the cup is removed from its packaging, in the operation theatre, it must not come in contact with any particle releasing materials (e.g. swab/sponges). Due to the highly gripping Trabecular Titanium structure, it can easily remove particles from the material it has been touching, which can lead to inflammatory reactions and infections in the patient.*

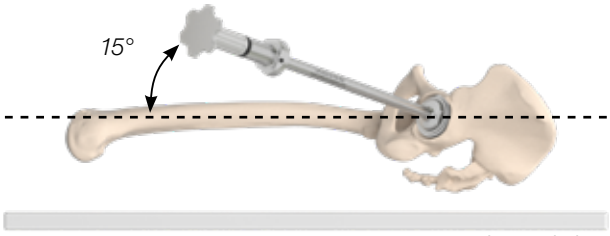
Surgical Technique

Figure 15



A/P view
(Supine Position)

Figure 16



Lateral view
(Supine Position)

Figure 17

The profile at the bottom of the cup achieves a strong lock with the wrench which reduces the risk of accidental disengagement during introduction and impaction *(Fig. 15)*. Moreover the adaptor facilitates cup refastening.

Place the cup in the acetabulum with an angle of abduction of about 45° *(Fig. 16)* and ante-version between 10° and 20° *(Fig. 17)*.

Note. *Abduction and Anteversion angles could differ from the above mentioned values and the physician could decide the safest orientation of the cup based on patient anatomy and/or femoral parameters.*

Warning! *An accurate pre-operative plan is recommended to determine the right screw length and positioning in order to help prevent injuries to nerves and vessels.*

If bone screws are used, position the cup so that the screw holes are in the superolateral area. The instrumentation set supports specific tools to control the positioning of the acetabular cup, no matter what the position of patient and the surgical approach are used.

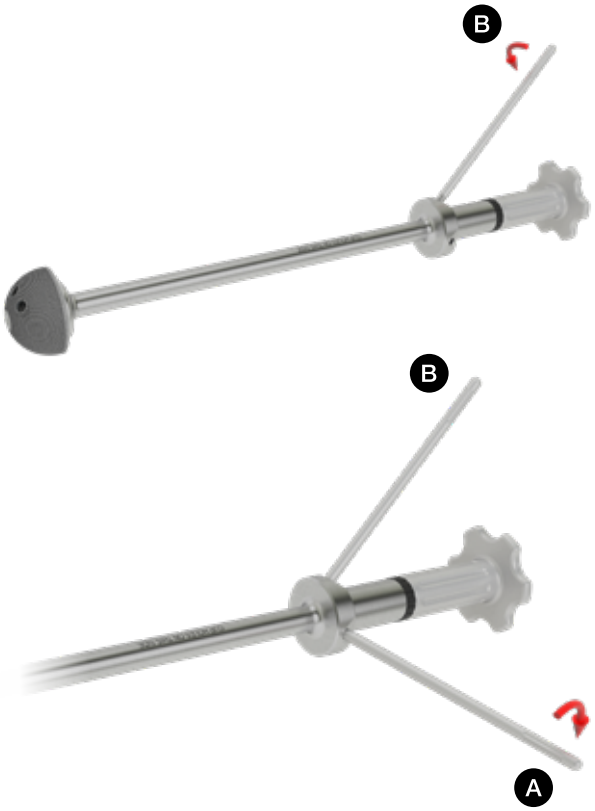


Figure 18

Insert the collimation bars in their threaded holes *(Fig. 18)* on the shaft of the wrench.

For instance if the patient lies on lateral decubitus, it is possible to check that if the B bar *(Fig. 19a)* is perpendicular and the A bar *(Fig. 19b)* is horizontal to the surgical bed, the cup is in 45° abduction and 15° anteversion.

Hold the wrench steady and hit along the axis with a hammer, impacting the cup firmly into the bony socket. Check that the cup is sunk into the acetabulum sufficiently and that the implant is initially stable by moderately levering the wrench shaft in various planes.

Disengage the wrench by unscrewing the knob and check the contact between the cup and the acetabulum through the polar and cranial holes (removes one or more plugs). If necessary refasten the wrench and repeat the axial hammer impaction.

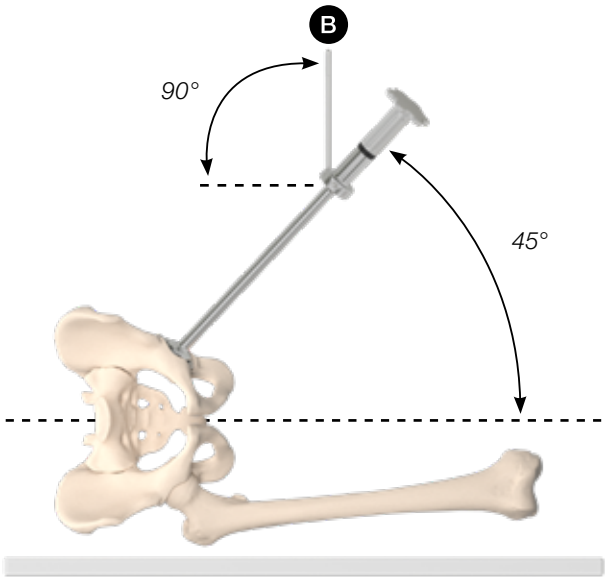
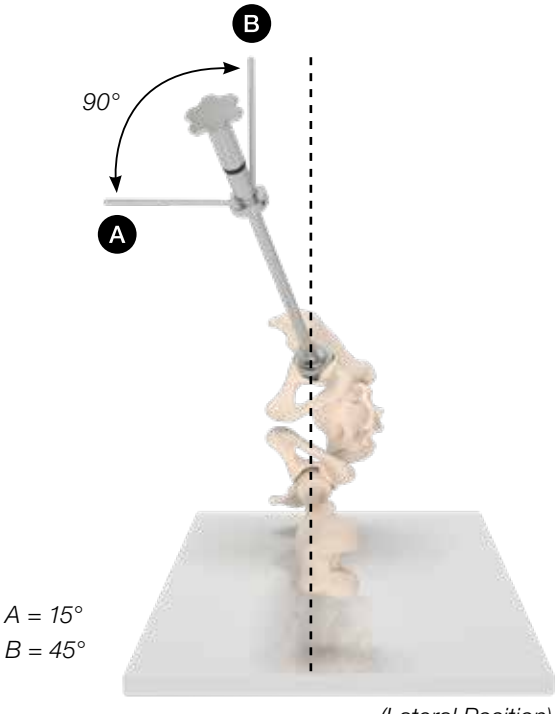


Figure 19a

A/P view
(Lateral Position)



(Lateral Position)

Figure 19b

Figure 20

Figure 21

Figure 21a

Figure 22

Figure 23

If the primary stability of the cup is judged to be insufficient, independent of the use of further bone screws, further milling of the acetabular site is recommended, using a reamer of larger diameter and thus implanting its corresponding cup.

CUP IMPACTION WITH CURVED CUP IMPACTOR

Instead of the Wrench for DELTA cups for impacting the definitive cup into the acetabulum as described into the previous section, it is possible to use the curved impactor *(Fig. 20)* available into the corresponding instrument set.

Note. *Trial adaptor (Fig. 21a) can be coupled only with trial cups (Fig. 21) provided with the Acetabular Cup Reamer Set.*

To assess the amount of interference and cup orientation, use the trial cup *(Fig. 21)* following instructions included into Trial Introduction section. Assemble the trial adaptor *(Fig. 21a)* to the end of the curved impactor and screw the trial cup.

To assemble the defintive cup, select the correct size of cup adaptor (Small, Medium, Large) *(Fig. 22)* choosing the adaptor size according to the cup size (cup size is marked onto the packaging label as well as inside the cup).

Assemble the adaptor to the end of the curved impactor. The adaptor is automatically clamped *(Fig. 23)*.

Note. *The adaptor can be assembled with the curved impactor by different angular positions in order to choose the right cup screw holes direction.*

Assemble acetabular cup at the end of the curved handle (*Fig. 24*). Align cup's internal polar grooves to the

Figure 24

Figure 25

corresponding adaptor's pegs (*Fig. 25*). During the attachment, the two pegs should lodge into the cup's polar site grooves, hearing a slight snapping sound. The rim of the cup must be in complete contact with the adaptor periphery.

Insert the screwdriver to the cylinder and screw the cup on the adaptor (*Fig. 26*).

For a proper cup positioning, it is possible to use the Y guide by holding the red ferrule until the Y guide is fixed with the desired position (*Figs. 27-28*) to achieve 45° cup coverage and 15° cup anteversion.

If the patiens lies with a supine position, place the guide with a 90° angle on the left or right side with respect of the impactor,

Figure 26

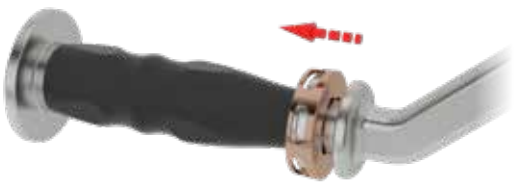


Figure 27

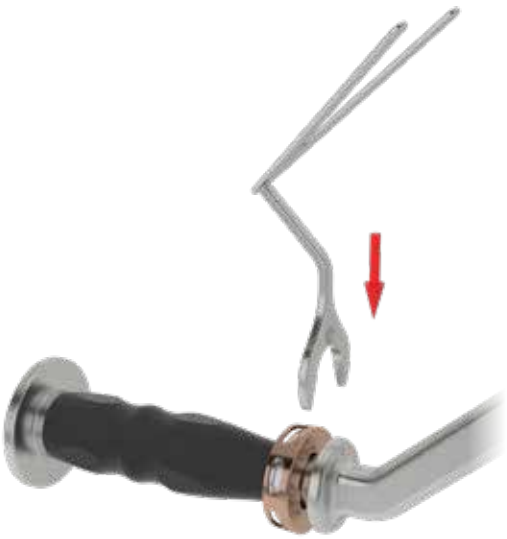


Figure 28

Figure 29

depending on the surgery side performed (*Fig. 29)*.

It is possible to achieve 45° of abduction with aligning plane "A" to the sagittal plane of the patient (*Fig. 30)*, achieving 15° of ante version with aligning axe "B" to the patient axe (*Fig. 31)*.

If the patiens lies with a lateral decubitus position, place the guide aligned with respect of the impactor (*Fig. 32)*.

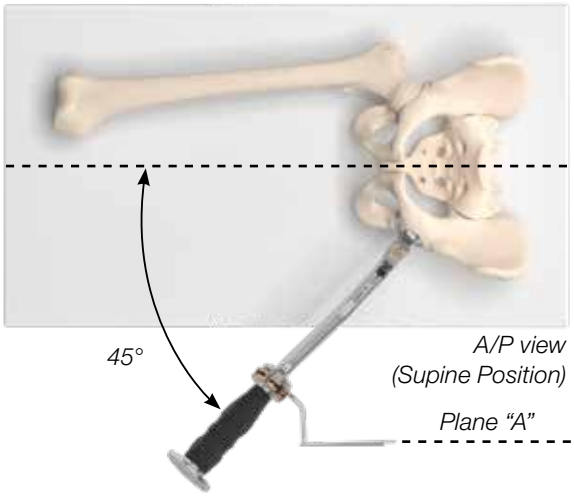


Figure 30

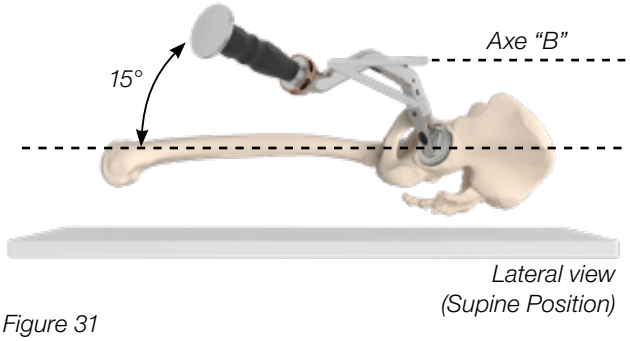
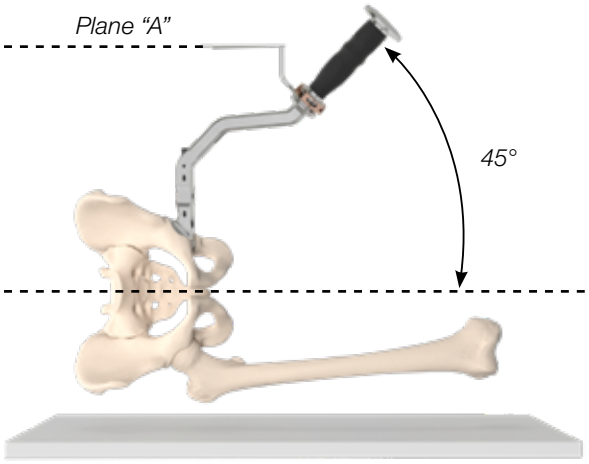


Figure 31

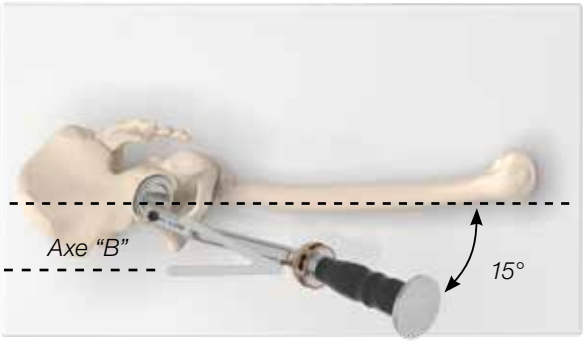
Figure 32

It is possible to achieve 45° of abduction with aligning the plane “A” with operating table (*Fig. 33)*, achieving 15° of ante version with aligning axe “B” to the patient axe (*Fig. 34)*.



A/P view
(Lateral Position)

Figure 33



Lateral view
(Lateral Position)

Figure 34

Figure 35

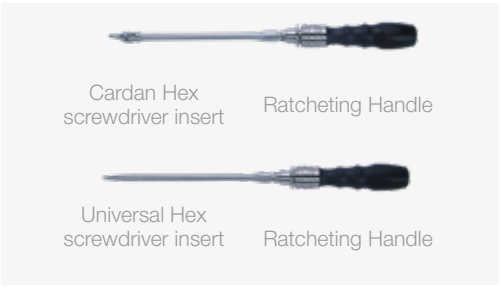


Figure 36

Figure 37

Figure 38

Figure 39

INTRODUCTION OF THE BONE SCREWS

If screw fixation is desired, we recommend that you use exclusively the bone screws supplied with the system *(Fig. 35)*. Other screws could create problems with correct articular liner insertion.

Using one of the screwdrivers *(Fig. 36)*, remove one or more of the threaded plugs as appropriate *(Fig. 37)*.

Introduce the drill *(Fig. 38)* with a flexible drill shaft into the drill guide *(Figs. 39-40)*.

One drill shaft and two helix drills are available, one short (30 mm) and one long (50 mm) *(Fig. 38)*.

Place the drill guide in the selected hole of the cup, respecting the direction of the hole and then drill the bony tissue *(Fig. 40)*.

Figure 40

Screw holding forceps

Figure 41

Figure 42

Figure 43

Grasp the bone screw with the holding forceps *(Fig. 41)* below the spherical head and start screwing into the bone using the universal or cardanic screwdriver *(Fig. 42)*.

As soon as the screw starts entering the bone, remove the screw holding forceps and complete the screwing *(Fig. 43)*.

Note. The head of the screw must not protrude from the interior of the acetabular cup; if it dœs it might prevent the articular liner from coupling correctly.

If necessary repeat this procedure for the other holes. No more than three screws can be used.

We kindly ask surgeons to pay particular attention when implanting DELTA TT cups with bone screws. The intra-operative internal protrusion of bone screws must be absolutely avoided, in order to guarantee a complete conical coupling between liner and the acetabular cup.
Method for determining the correct bone screws insertion: use a finger to assess that the screw/s head is/are seated flush against the shell to prevent improper seating of the liner. If the bone screw/s is/are protruding, please tighten again until seated correctly. If this maneuver is not effective the screw/s must be removed and re-positioned along a more appropriate axis.
Insert one of the trial liners into the cup and check for its stability. If the trial liner is unstable, tighten the bone screws and check again trial liner stability until the liner becomes steady inside the cup. If this maneuver is not effective the screw/s must be removed and re-positioned along a more appropriate axis.

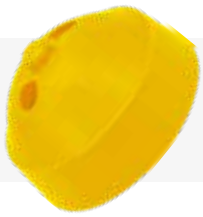


Figure 44

Figure 45

Figure 46

Figure 47

TRIAL REDUCTION

Trial reduction with trial liners and heads only (for dual mobility trial reduction, refer to the dual mobility section).
Normally the acetabular procedure precedes the femoral one, so that once the acetabular component has been inserted it is recommended that all contact between the acetabular cup and femoral stem is avoided. In order to facilitate this, it is suggested that you insert a trial liner into the cup (this can also be used for trial reduction of the hip replacement) or a protection tampon.
The use of trial liners *(Fig. 44)* is advised to check joint movement. The DELTA cups instrument set provides trial heads *(Fig. 45)*, diameters 28, 32, 36 and 40 for trial reduction *(Fig. 46)*.

If the cup is poorly positioned in relation to the femoral component you may choose a protruded polyethylene liner. Mark the bone where dislocation may happen, this will aid the insertion of the protruded polyethylene liner.

INSERTION OF THE DEFINITIVE ARTICULAR LINER

Before inserting the definitive articular liner (whose correct size is printed on the packaging and inside the acetabular cup) **clean the interior of the cup carefully** and check that soft tissues will not interfere with definitive liner insertion.

All the liners are fixed by a conical coupling. This dœs not require either snap devices or antirotation pegs on the external edge of the cup. Furthermore, with the aid of the polar peg, the liner insertion maneuver is driven with reduced risks of liner misalignment.

For polyethylene liners *(Fig. 47)* the positioning maneuver is performed by hand.
Hold the liner between the thumb and forefinger, having the latter in the concave part of the liner. Insert the liner into the cup pushing it with the forefinger. Check for the correct liner lodging.

Note. For protruded liners, hold with the fingers the liner from the lip and insert it placing the lip with the desired position.

Liner Impactor

Figure 48

Multi Purpose Handle

Impactor - Positioner - Aligner

Figure 49

Figure 50

Figure 51

To ensure the coupling stability, screw the liner impactor *(Fig. 48)* onto the impactor *(Figs. 49-50)* and impact the liner in an axial direction *(Fig. 51)*.

The bearing load will definitely lock the coupling.

At the end clean and wipe the coupling surfaces carefully before definitively reducing the joint.

Note. The removal of the polyethylene liner can be achieved by screwing a self-tapping bone screw in the bottom.

Note. X-Lima polyethylene liners have a polar peg, occluding the DELTA TT cup's polar hole.

Figure 52

DUAL MOBILITY

Delta TT cup can be used with the Dual Mobility System starting from:

- 50 mm - 52 mm cup size (Medium Liner)
- 54 mm - .. - 76 mm cup size (Large Liner).

The Delta Dual Mobility System incorporates the following dual articulations items:

- 28 mm femoral head
- Mobile polyethylene insert that mimics a femoral head

TRIAL COMPONENTS FOR DUAL MOBILITY

Select the trial liner size (Medium or Large) that matches with the size of the cup and place it into the cup. Insert the 28 mm trial head and the corresponding trial mobile liner onto the neck trial or the stem trunnion *(Fig. 52)*. Proceed with trial reduction of the joint to determine hip stability and leg length. Once both hip stability and leg length have been checked, remove all the trial components.

TRIAL LINER	TRIAL MOBILE LINER	TRIAL HEAD
9055.66.400 #M for dia. 40 mm mobile liner	9055.65.040 Trial Mobile Liner dia. 40 mm for heads dia. 28 mm	• 9095.10.711 dia.28 mm S • 9095.10.712 dia.28 mm M • 9095.12.713 dia.28 mm L
9058.85.042 #L for dia. 42 mm mobile liner	9055.65.042 Trial Mobile Liner dia. 42 mm for heads dia. 28 mm	• 9095.10.711 dia.28 mm S • 9095.10.712 dia.28 mm M • 9095.12.713 dia.28 mm L

Figure 53

Figure 54

Figure 55

LINER IMPLANTATION

Ensure that the inside of the shell is clean, dry and free of soft tissue or any other debris, which could prevent the liner from properly seating in the shell.

Select the final liner with the same size as the trial liner used and introduce the CoCrMo liner *(Fig. 53)* inside the shell.
To ensure the coupling stability, screw the liner impactor onto the multi purpose handle or impactor and tap the liner in an axial direction. The bearing load will self-lock the liner.

Note. *If the metal liner becomes jammed sideways it will have to be removed by striking the metal rim of the cup with a flat bladed osteotome. The vibrations will shake the liner out of its housing.*

Take the 28 mm head (in ceramic or metal) and the polyethylene mobile liner that matches the implanted cup and mobile liner.
The components are assembled using the press *(Fig. 54)*. Once the press is firmly stable on the back table, open the press completely; place the selected modular head on the head-liner peg and position the mobile liner onto the head; turn the T-handle until the two components have been completely assembled. As result, the head-mobile liner freely rotate. Insert the components on the taper of the stem *(Fig. 55)*. Perform the final reduction of the implant.

Surgical Technique

Press Baseplate

Head-Liner Peg

Neck Holder

Figure 56

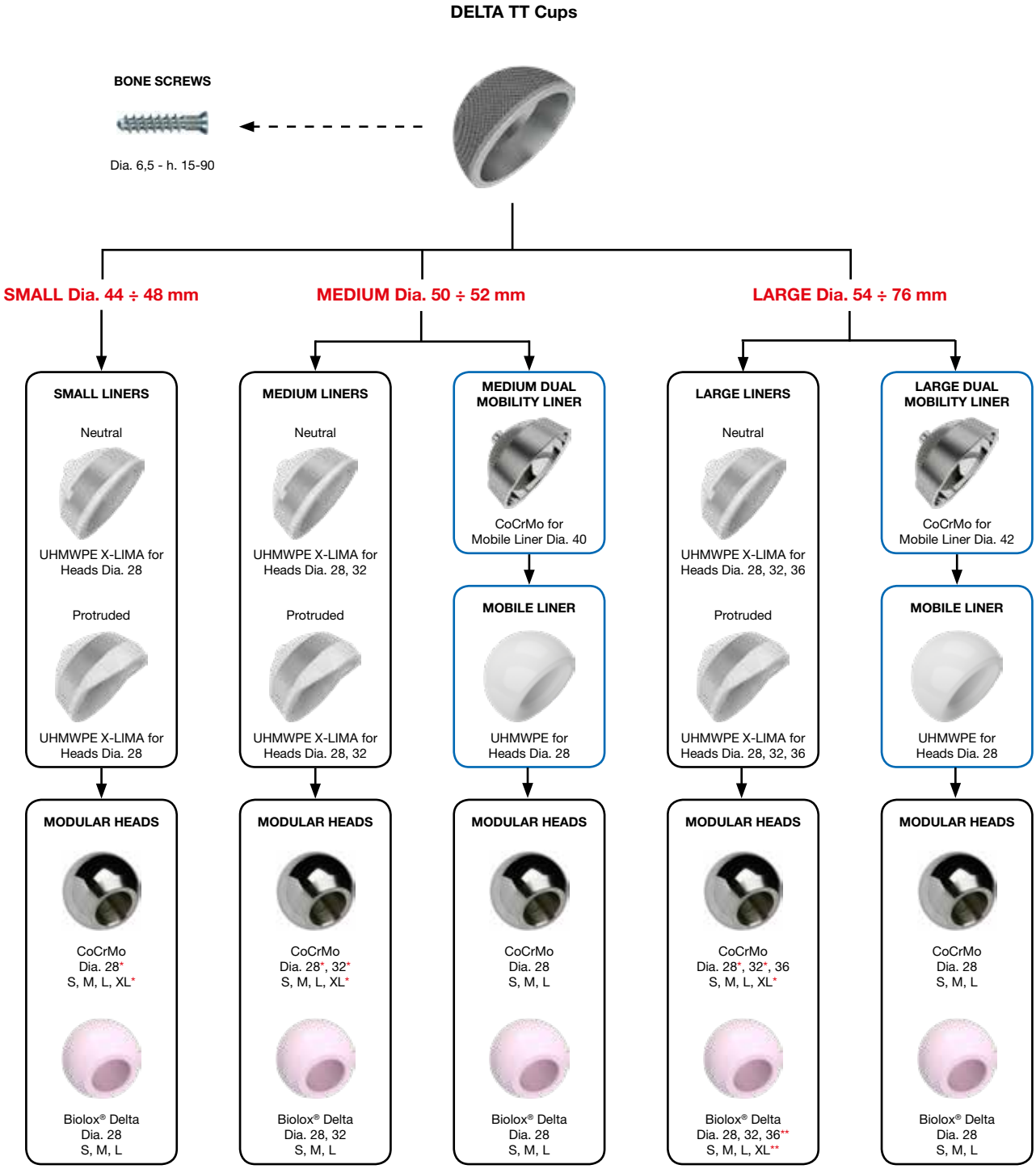
In case of head-liner assembling directly onto the stem in-situ, remove the press baseplate and the head-liner peg and place the neck holder for press *(Fig. 56)*. Place the selected head on the taper of the stem and position the mobile liner onto the head; turn the T-handle untile the two components have been completely assembled. Remove the press before proceed with the final reduction of the implant.

Note. Mobile liners are suited for unskirted heads only.

Note. Only S, M and L Heads Dia. 28mm can be used in the Dual Mobility System.

Note. The removal of the metallic coupling must be executed by striking the metal rim of the cup with a flat bladed osteotome. The vibrations will shake the liner out of its housing.

Product Combinations



* Skirted Modular Head

** XL Biolox® Delta Modular Heads available only with Dia. 36 and 40

— = Dual Mobility System

Note. Mobile liners are suited for unskirted heads only.

Note. Only S, M and L Heads Dia. 28mm can be used in the Dual Mobility System.

Note. Refer to Instruction For Use of femoral heads to identify allowed couplings with femoral stems.

DELTA TT & DUAL MOBILITY SURGICAL TECHNIQUE

Instrument Set

9055.24.000 Acetabular Cup “Half-Cross” Reamer Set A-O Connection

Ref.	CODE	DESCRIPTION	Qty.
A24	9057.20.810	Straight Reamer Handle A-O connetction	2
B24	9057.20.942	Half Cross Acetabular Reamer Dia. 42	1
B24	9057.20.943	Half Cross Acetabular Reamer Dia. 43	1
B24	9057.20.944	Half Cross Acetabular Reamer Dia. 44	1
B24	9057.20.945	Half Cross Acetabular Reamer Dia. 45	1
B24	9057.20.946	Half Cross Acetabular Reamer Dia. 46	1
B24	9057.20.947	Half Cross Acetabular Reamer Dia. 47	1
B24	9057.20.948	Half Cross Acetabular Reamer Dia. 48	1
B24	9057.20.949	Half Cross Acetabular Reamer Dia. 49	1
B24	9057.20.950	Half Cross Acetabular Reamer Dia. 50	1
B24	9057.20.951	Half Cross Acetabular Reamer Dia. 51	1
B24	9057.20.952	Half Cross Acetabular Reamer Dia. 52	1
B24	9057.20.953	Half Cross Acetabular Reamer Dia. 53	1
B24	9057.20.954	Half Cross Acetabular Reamer Dia. 54	1
B24	9057.20.955	Half Cross Acetabular Reamer Dia. 55	1
B24	9057.20.956	Half Cross Acetabular Reamer Dia. 56	1
B24	9057.20.957	Half Cross Acetabular Reamer Dia. 57	1
B24	9057.20.958	Half Cross Acetabular Reamer Dia. 58	1
B24	9057.20.959	Half Cross Acetabular Reamer Dia. 59	1
B24	9057.20.960	Half Cross Acetabular Reamer Dia. 60	1
B24	9057.20.961	Half Cross Acetabular Reamer Dia. 61	1
B24	9057.20.962	Half Cross Acetabular Reamer Dia. 62	1
B24	9057.20.963	Half Cross Acetabular Reamer Dia. 63	1
B24	9057.20.964	Half Cross Acetabular Reamer Dia. 64	1
B24	9057.20.965	Half Cross Acetabular Reamer Dia. 65	1
B24	9057.20.966	Half Cross Acetabular Reamer Dia. 66	1
C24	9055.28.400	Multipurpose Handle	1
D24	9056.10.010	Impactor for Cemented Cups Dia. 28 mm	1
D24	9056.10.020	Impactor for Cemented Cups Dia. 32 mm	1
E24	9057.20.300	Liner Impactor for Dia. 28 mm Heads	1
E24	9057.20.310	Liner Impactor for Dia. 32 mm Heads	1
E24	9057.20.320	Liner Impactor for Dia. 36 mm Heads	1
E24	9057.20.330	Liner Impactor for Dia. 40 mm Heads	1
F24	9055.28.442	Trial Cup D. 42 mm	1
F24	9055.28.444	Trial Cup D. 44 mm	1
F24	9055.28.446	Trial Cup D. 46 mm	1
F24	9055.28.448	Trial Cup D. 48 mm	1
F24	9055.28.450	Trial Cup D. 50 mm	1
F24	9055.28.452	Trial Cup D. 52 mm	1
F24	9055.28.454	Trial Cup D. 54 mm	1
F24	9055.28.456	Trial Cup D. 56 mm	1
F24	9055.28.458	Trial Cup D. 58 mm	1
F24	9055.28.460	Trial Cup D. 60 mm	1
F24	9055.28.462	Trial Cup D. 62 mm	1
F24	9055.28.464	Trial Cup D. 64 mm	1
F24	9055.28.466	Trial Cup D. 66 mm	1
G24	9057.20.555	Beater-Positioner-Aligner	1
H24	9058.85.090	Ceramic Liner Positioner	2
I24	9058.85.110	Joint for Ceramic Liner Positioner	1
L24	9058.85.210	Liner Positioner SMALL Dia. 32 mm	1
L24	9058.85.220	Liner Positioner MEDIUM-LARGE Dia. 36 mm	1
L24	9058.85.230	Liner Positioner LARGE Dia. 40 mm	1
M24	9095.10.225	Hexagonal Screwdriver	1
	9055.24.990	Instrument tray	1

9055.25.000 Acetabular Cup "Half-Cross" Reamer Set Zimmer-Hall

Ref.	CODE	DESCRIPTION	Qty.
A25	9057.20.814	Straight Reamer Handle Zimmer-Hall Connection	2
B25	9057.20.942	Half Cross Acetabular Reamer Dia. 42	1
B25	9057.20.943	Half Cross Acetabular Reamer Dia. 43	1
B25	9057.20.944	Half Cross Acetabular Reamer Dia. 44	1
B25	9057.20.945	Half Cross Acetabular Reamer Dia. 45	1
B25	9057.20.946	Half Cross Acetabular Reamer Dia. 46	1
B25	9057.20.947	Half Cross Acetabular Reamer Dia. 47	1
B25	9057.20.948	Half Cross Acetabular Reamer Dia. 48	1
B25	9057.20.949	Half Cross Acetabular Reamer Dia. 49	1
B25	9057.20.950	Half Cross Acetabular Reamer Dia. 50	1
B25	9057.20.951	Half Cross Acetabular Reamer Dia. 51	1
B25	9057.20.952	Half Cross Acetabular Reamer Dia. 52	1
B25	9057.20.953	Half Cross Acetabular Reamer Dia. 53	1
B25	9057.20.954	Half Cross Acetabular Reamer Dia. 54	1
B25	9057.20.955	Half Cross Acetabular Reamer Dia. 55	1
B25	9057.20.956	Half Cross Acetabular Reamer Dia. 56	1
B25	9057.20.957	Half Cross Acetabular Reamer Dia. 57	1
B25	9057.20.958	Half Cross Acetabular Reamer Dia. 58	1
B25	9057.20.959	Half Cross Acetabular Reamer Dia. 59	1
B25	9057.20.960	Half Cross Acetabular Reamer Dia. 60	1
B25	9057.20.961	Half Cross Acetabular Reamer Dia. 61	1
B25	9057.20.962	Half Cross Acetabular Reamer Dia. 62	1
B25	9057.20.963	Half Cross Acetabular Reamer Dia. 63	1
B25	9057.20.964	Half Cross Acetabular Reamer Dia. 64	1
B25	9057.20.965	Half Cross Acetabular Reamer Dia. 65	1
B25	9057.20.966	Half Cross Acetabular Reamer Dia. 66	1
C25	9055.28.400	Multipurpose Handle	1
D25	9056.10.010	Impactor for Cemented Cups Dia. 28mm	1
D25	9056.10.020	Impactor for Cemented Cups Dia. 32mm	1
E25	9057.20.300	Liner Impactor for Dia. 28mm Heads	1
E25	9057.20.310	Liner Impactor for Dia. 32mm Heads	1
E25	9057.20.320	Liner Impactor for Dia. 36mm Heads	1
E25	9057.20.330	Liner Impactor for Dia. 40mm Heads	1
F25	9055.28.442	Trial Cup D. 42 mm	1
F25	9055.28.444	Trial Cup D. 44 mm	1
F25	9055.28.446	Trial Cup D. 46 mm	1
F25	9055.28.448	Trial Cup D. 48 mm	1
F25	9055.28.450	Trial Cup D. 50 mm	1
F25	9055.28.452	Trial Cup D. 52 mm	1
F25	9055.28.454	Trial Cup D. 54 mm	1
F25	9055.28.456	Trial Cup D. 56 mm	1
F25	9055.28.458	Trial Cup D. 58 mm	1
F25	9055.28.460	Trial Cup D. 60 mm	1
F25	9055.28.462	Trial Cup D. 62 mm	1
F25	9055.28.464	Trial Cup D. 64 mm	1
F25	9055.28.466	Trial Cup D. 66 mm	1
G25	9057.20.555	Beater-Positioner-Aligner	1
H25	9058.85.090	Ceramic Liner Positioner	2
I25	9058.85.110	Joint for Ceramic Liner Positioner	1
L25	9058.85.210	Liner Positioner SMALL Dia. 32 mm	1
L25	9058.85.220	Liner Positioner MEDIUM-LARGE Dia. 36 mm	1
L25	9058.85.230	Liner Positioner LARGE Dia. 40 mm	1
M25	9095.10.225	Hexagonal Screwdriver	1
	9055.25.990	Instrument Tray	1

DELTA TT & DUAL MOBILITY SURGICAL TECHNIQUE

Instrument Set

9055.26.000 Acetabular Cup “Half-Cross” Reamer Set Hudson Connection

Ref.	CODE	DESCRIPTION	Qty.
A26	9057.20.820	Straight Reamer Handle Hudson Connection	2
B26	9057.20.942	Half Cross Acetabular Reamer Dia. 42	1
B26	9057.20.943	Half Cross Acetabular Reamer Dia. 43	1
B26	9057.20.944	Half Cross Acetabular Reamer Dia. 44	1
B26	9057.20.945	Half Cross Acetabular Reamer Dia. 45	1
B26	9057.20.946	Half Cross Acetabular Reamer Dia. 46	1
B26	9057.20.947	Half Cross Acetabular Reamer Dia. 47	1
B26	9057.20.948	Half Cross Acetabular Reamer Dia. 48	1
B26	9057.20.949	Half Cross Acetabular Reamer Dia. 49	1
B26	9057.20.950	Half Cross Acetabular Reamer Dia. 50	1
B26	9057.20.951	Half Cross Acetabular Reamer Dia. 51	1
B26	9057.20.952	Half Cross Acetabular Reamer Dia. 52	1
B26	9057.20.953	Half Cross Acetabular Reamer Dia. 53	1
B26	9057.20.954	Half Cross Acetabular Reamer Dia. 54	1
B26	9057.20.955	Half Cross Acetabular Reamer Dia. 55	1
B26	9057.20.956	Half Cross Acetabular Reamer Dia. 56	1
B26	9057.20.957	Half Cross Acetabular Reamer Dia. 57	1
B26	9057.20.958	Half Cross Acetabular Reamer Dia. 58	1
B26	9057.20.959	Half Cross Acetabular Reamer Dia. 59	1
B26	9057.20.960	Half Cross Acetabular Reamer Dia. 60	1
B26	9057.20.961	Half Cross Acetabular Reamer Dia. 61	1
B26	9057.20.962	Half Cross Acetabular Reamer Dia. 62	1
B26	9057.20.963	Half Cross Acetabular Reamer Dia. 63	1
B26	9057.20.964	Half Cross Acetabular Reamer Dia. 64	1
B26	9057.20.965	Half Cross Acetabular Reamer Dia. 65	1
B26	9057.20.966	Half Cross Acetabular Reamer Dia. 66	1
C26	9055.28.400	Multipurpose Handle	1
D26	9056.10.010	Impactor for Cemented Cups Dia. 28mm	1
D26	9056.10.020	Impactor for Cemented Cups Dia. 32mm	1
E26	9057.20.300	Liner Impactor for Dia. 28mm Heads	1
E26	9057.20.310	Liner Impactor for Dia. 32mm Heads	1
E26	9057.20.320	Liner Impactor for Dia. 36mm Heads	1
E26	9057.20.330	Liner Impactor for Dia. 40mm Heads	1
F26	9055.28.442	Trial Cup D. 42 mm	1
F26	9055.28.444	Trial Cup D. 44 mm	1
F26	9055.28.446	Trial Cup D. 46 mm	1
F26	9055.28.448	Trial Cup D. 48 mm	1
F26	9055.28.450	Trial Cup D. 50 mm	1
F26	9055.28.452	Trial Cup D. 52 mm	1
F26	9055.28.454	Trial Cup D. 54 mm	1
F26	9055.28.456	Trial Cup D. 56 mm	1
F26	9055.28.458	Trial Cup D. 58 mm	1
F26	9055.28.460	Trial Cup D. 60 mm	1
F26	9055.28.462	Trial Cup D. 62 mm	1
F26	9055.28.464	Trial Cup D. 64 mm	1
F26	9055.28.466	Trial Cup D. 66 mm	1
G26	9057.20.555	Beater-Positioner-Aligner	1
H26	9058.85.090	Ceramic Liner Positioner	2
I26	9058.85.110	Joint for Ceramic Liner Positioner	1
L26	9058.85.210	Liner Positioner SMALL Dia. 32 mm	1
L26	9058.85.220	Liner Positioner MEDIUM-LARGE Dia. 36 mm	1
L26	9058.85.230	Liner Positioner LARGE Dia. 40 mm	1
M26	9095.10.225	Hexagonal Screwdriver	1
	9055.26.990	Instrument Tray	1

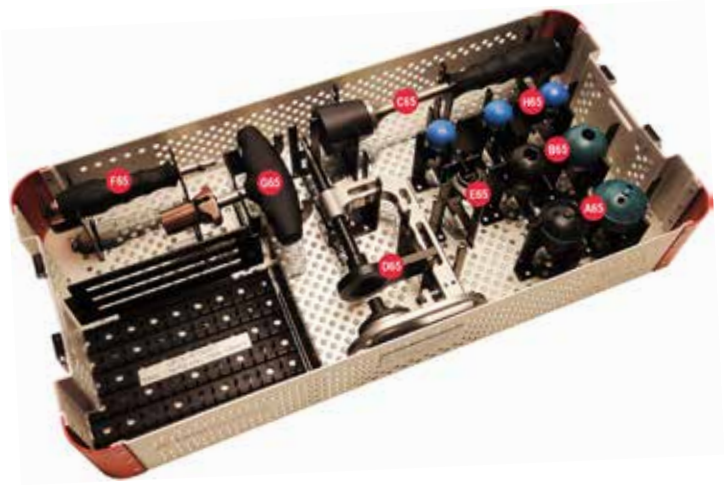
9055.48.000 Large Diameter Cups - “Half-Cross” Reamer Set ■

Ref.	CODE	DESCRIPTION	Qty.
A48	9055.28.468	Trial Cup Dia. 68mm	1
A48	9055.28.470	Trial Cup Dia. 70mm	1
A48	9055.28.472	Trial Cup Dia. 72mm	1
A48	9055.28.474	Trial Cup Dia. 74mm	1
A48	9055.28.476	Trial Cup Dia. 76mm	1
B48	9057.20.967	Half Cross Acetabular Reamer Dia. 67	1
B48	9057.20.968	Half Cross Acetabular Reamer Dia. 68	1
B48	9057.20.969	Half Cross Acetabular Reamer Dia. 69	1
B48	9057.20.970	Half Cross Acetabular Reamer Dia. 70	1
B48	9057.20.971	Half Cross Acetabular Reamer Dia. 71	1
B48	9057.20.972	Half Cross Acetabular Reamer Dia. 72	1
B48	9057.20.973	Half Cross Acetabular Reamer Dia. 73	1
B48	9057.20.974	Half Cross Acetabular Reamer Dia. 74	1
B48	9057.20.975	Half Cross Acetabular Reamer Dia. 75	1
B48	9057.20.976	Half Cross Acetabular Reamer Dia. 76	1
	9055.48.950	Transportation Box	1

■ Upon Request

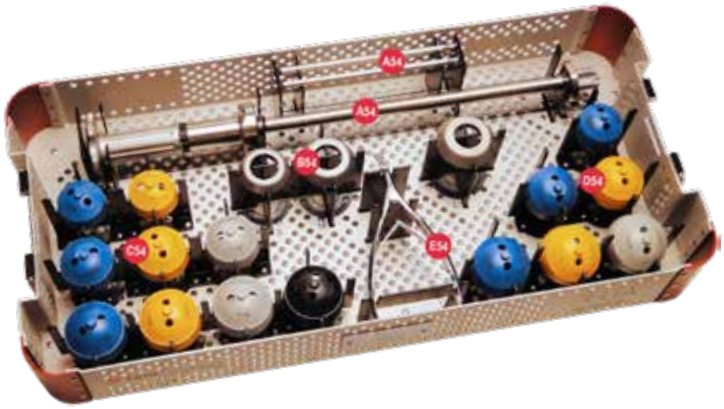
DELTA TT & DUAL MOBILITY SURGICAL TECHNIQUE
Instrument Set

9055.65.000 Delta Cups - Dual Mobility Instrument Set



Ref.	CODE	DESCRIPTION	Qty.
A65	9055.66.400	Trial Liner #M for Dual Mobility Dia. 40mm	1
A65	9058.85.042	Trial Liner #L for Dual Mobility Dia. 42mm	1
B65	9055.65.040	Trial Mobile Liner Dia. 40/28mm	1
B65	9055.65.042	Trial Mobile Liner Dia. 42/28mm	1
C65	9051.10.033	Head Pusher	1
D65	9055.60.110	Double Mobility Press	1
E65	9055.60.111	Neck Positioner for Press	1
F65	9095.11.251	Multipurpose Handle	1
G65	9095.11.200	T Handle with Zimmer Connection	1
H65	9095.10.711	Trial Head 12/14 Dia. 28 mm S	1
H65	9095.10.712	Trial Head 12/14 Dia. 28 mm M	1
H65	9095.10.713	Trial Head 12/14 Dia. 28 mm L	1
	9055.65.990	Instrument Tray	1

9055.54.000 Delta Cup: Trial Liners Set



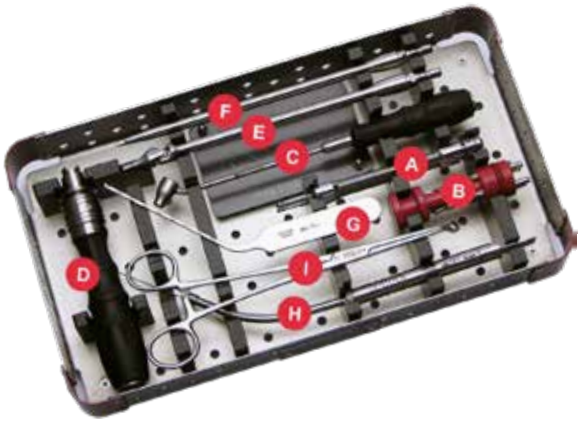
Ref.	CODE	DESCRIPTION	Qty.
A54	9055.51.015	Wrench for DELTA Cups	1
B54	9055.51.310	Adapter Small for DELTA Cups Wrench	1
B54	9055.51.320	Adapter Medium for DELTA Cups Wrench	1
B54	9055.51.330	Adapter Large for DELTA Cups Wrench	1
C54	9058.85.355	Neutral Trial Liner #S Dia. 28mm	1
C54	9058.85.358	Neutral Trial Liner #M Dia. 28mm	1
C54	9058.85.360	Neutral Trial Liner #L Dia. 28mm	1
C54	9058.85.455	Neutral Trial Liner #S Dia. 32mm	1
C54	9058.85.458	Neutral Trial Liner #M Dia. 32mm	1
C54	9058.85.460	Neutral Trial Liner #L Dia. 32mm	1
C54	9058.85.558	Neutral Trial Liner #M Dia. 36mm	1
C54	9058.85.560	Neutral Trial Liner #L Dia. 36mm	1
C54	9058.85.562	Neutral Trial Liner #L Dia. 40mm	1
D54	9058.85.055	Protruded Trial Liner #S Dia. 28mm	1
D54	9058.85.058	Protruded Trial Liner #M Dia. 28mm	1
D54	9058.85.060	Protruded Trial Liner #L Dia. 28mm	1
D54	9058.85.158	Protruded Trial Liner #M Dia. 32mm	1
D54	9058.85.160	Protruded Trial Liner #L Dia. 32mm	1
D54	9058.85.260	Protruded Trial Liner #L Dia. 36mm	1
E54	9066.35.610	Extracting Plier for Trial Adaptors	1
	9055.54.990	Instrument Tray	1

DELTA TT & DUAL MOBILITY SURGICAL TECHNIQUE
Instrument Set

9095.36.000 Universal Anterior MIS Instrument Set

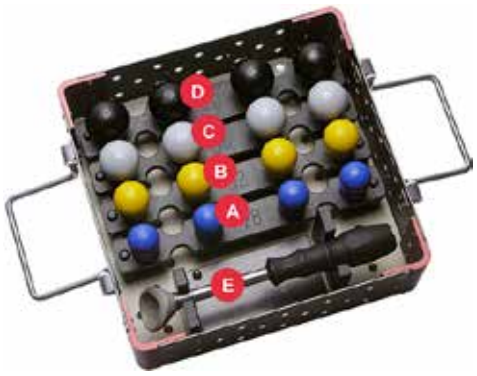
Ref.	CODE	DESCRIPTION	Qty.
A36	9095.10.560	Cobra Style Hohmann Retractor	2
B36	9095.10.561	Single Prong Large Hohmann Retractor	1
B36	9095.10.562	Single Prong Narrow Hohmann Retractor	1
C36	9095.10.563	Femoral Elevator	1
D36	9095.10.564	Offset Femoral Elevator	1
E36	9095.11.550	Curved Impactor	1
F36	9095.11.252	Hexagonal Screwdriver 5mm	1
G36	9055.51.051	Adaptor Delta Cup #S	1
G36	9055.51.052	Adaptor Delta Cup #M	1
G36	9055.51.053	Adaptor Delta Cup #L	1
H36	9055.51.055	Adaptor Trial Delta Cup	1
I36	9057.20.883	Universal Chana Reamer Handle Zimmer-Hall Connection	1
J36	9058.85.090	Ceramic Liner Positioner	2
K36	9058.85.100	45° Joint for Ceramic Joint Positioner	1
L36	9058.85.120	45° Joint for Beater	1
	9095.36.990	Instrument Tray	1

9084.21.000 Set for Bone Screw



Ref.	CODE	DESCRIPTION	Qty.
A	9084.20.010	Flexible Drill Shaft	2
B	9084.20.100	SHORT Drill - Dia. 4.5mm Length 30mm	2
B	9084.20.110	LONG Drill - Dia. 4.5mm Length 50mm	2
C	9084.20.150	Drill Guide - Dia. 4.5mm	1
D	9084.20.305	Ratcheting Handle	1
E	9084.20.310	Cardan Hex Screwdriver Insert	1
F	9084.20.320	Universal Hex Screwdriver Insert	1
G	9084.20.400	Depth Gauge	1
H	9084.20.410	Curved Depth Gauge	1
I	9095.10.115	Screws Holding Forceps	1
	9084.21.950	Transportation Box	1

9095.50.000 Set for Trial Heads Dia. 28-40 mm ■



Ref.	CODE	DESCRIPTION	Qty.
A	9095.10.711	Trial Head Dia. 28mm S	1
A	9095.10.712	Trial Head Dia. 28mm M	1
A	9095.10.713	Trial Head Dia. 28mm L	1
A	9095.10.714	Trial Head Dia. 28mm XL	1
B	9095.10.721	Trial Head Dia. 32mm S	1
B	9095.10.722	Trial Head Dia. 32mm M	1
B	9095.10.723	Trial Head Dia. 32mm L	1
B	9095.10.724	Trial Head Dia. 32mm XL	1
C	9095.10.731	Trial Head Dia. 36mm S	1
C	9095.10.732	Trial Head Dia. 36mm M	1
C	9095.10.733	Trial Head Dia. 36mm L	1
C	9095.10.734	Trial Head Dia. 36mm XL	1
D	9095.10.741	Trial Head Dia. 40mm S	1
D	9095.10.742	Trial Head Dia. 40mm M	1
D	9095.10.743	Trial Head Dia. 40mm L	1
D	9095.10.744	Trial Head Dia. 40mm XL	1
E	9095.11.110	Femoral Head Impactor	1
	9095.50.950	Transportation Box	1

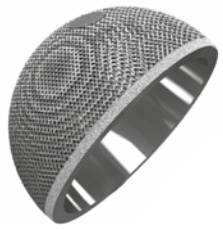
ADDITIONAL INSTRUMENTS

CODE	DESCRIPTION	
9095.11.110	Femoral Head Impactor	■
9095.11.906	Head slide	■

■ Upon Request

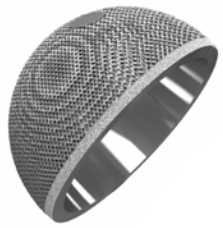
DELTA TT & DUAL MOBILITY SURGICAL TECHNIQUE

Product codes



DELTA TT ACETABULAR CUPS

Ti6Al4V		FOR LINERS SIZE SMALL
	5552.15.440	Dia. 44 mm
	5552.15.460	Dia. 46 mm
	5552.15.480	Dia. 48 mm
		FOR LINERS SIZE MEDIUM
	5552.15.500	Dia. 50 mm
	5552.15.520	Dia. 52 mm
		FOR LINERS SIZE LARGE
	5552.15.540	Dia. 54 mm
	5552.15.560	Dia. 56 mm
	5552.15.580	Dia. 58 mm
	5552.15.600	Dia. 60 mm
	5552.15.620	Dia. 62 mm
	5552.15.640	Dia. 64 mm



DELTA TT LARGE DIAMETER ACETABULAR CUPS

Ti6Al4V		FOR LINERS SIZE LARGE	
	5552.15.660	Dia. 66 mm	■
	5552.15.680	Dia. 68 mm	■
	5552.15.700	Dia. 70 mm	■
	5552.15.720	Dia. 72 mm	■
	5552.15.740	Dia. 74 mm	■
	5552.15.760	Dia. 76 mm	■

■ Upon Request

Product codes

40 mm COUPLING FOR DUAL MOBILITY

CoCrMo	5885.09.040	Liner M for Dual Mobility dia. 40 mm	■

MOBILE LINER

UHMWPE	5566.50.401	I.D. 28 mm - dia. 40	■

42 mm COUPLING FOR DUAL MOBILITY

CoCrMo	5885.09.042	Liner L for Dual Mobility dia. 42 mm	■

MOBILE LINERS

UHMWPE	5566.50.420	I.D. 28 mm - dia. 42	■

Note: Only S, M and L Heads can be used in the Dual Mobility System.

DELTA TT & DUAL MOBILITY SURGICAL TECHNIQUE

Product codes

NEUTRAL LINERS

UHMWPE X-LIMA + Ti6Al4V	5885.51.055	I.D. 28 mm - Size SMALL
	5885.51.058	I.D. 28 mm - Size MEDIUM
	5885.51.158	I.D. 32 mm - Size MEDIUM
	5885.51.060	I.D. 28 mm - Size LARGE
	5885.51.160	I.D. 32 mm - Size LARGE
	5885.51.260	I.D. 36 mm - Size LARGE

Note: X-Lima = “Cross-Linked”

PROTRUDED LINERS

UHMWPE X-LIMA + Ti6Al4V	5886.51.055	I.D. 28 mm - Size SMALL
	5886.51.058	I.D. 28 mm - Size MEDIUM
	5886.51.158	I.D. 32 mm - Size MEDIUM
	5886.51.060	I.D. 28 mm - Size LARGE
	5886.51.160	I.D. 32 mm - Size LARGE
	5886.51.260	I.D. 36 mm - Size LARGE

Note: X-Lima = “Cross-Linked”

BONE SCREWS

Ti6Al4V		DIA. 6.5 mm
	8420.15.010	h. 20 mm
	8420.15.020	h. 25 mm
	8420.15.030	h. 30 mm
	8420.15.040	h. 35 mm
	8420.15.050	h. 40 mm
	8420.15.060	h. 45 mm
	8420.15.070	h. 50 mm
	8420.15.080	h. 55 mm
	8420.15.090	h. 60 mm
	8420.15.100	h. 65 mm ■
	8420.15.110	h. 70 mm ■
	8420.15.120	h. 75 mm ■
	8420.15.130	h. 80 mm ■
	8420.15.140	h. 85 mm ■
	8420.15.150	h. 90 mm ■

■ Upon Request

Product codes

HEADS - TAPER 12/14

BIOLOX® DELTA		DIA. 28 mm	
	5010.42.281	S	
	5010.42.282	M	
	5010.42.283	L	
		DIA. 32 mm	
	5010.42.321	S	
	5010.42.322	M	
	5010.42.323	L	
		DIA. 36 mm	
	5010.42.361	S	
	5010.42.362	M	
	5010.42.363	L	
	5010.42.364	XL	■
		DIA. 40 mm	
	5010.42.401	S	
	5010.42.402	M	
	5010.42.403	L	
	5010.42.404	XL	■

■ upon request

HEADS- TAPER 12/14

CoCrMo		DIA. 28 mm	
	5010.09.281	S	
	5010.09.282	M	
	5010.09.283	L	
	5010.09.284	XL	■
		DIA. 32 mm	
	5010.09.321	S	
	5010.09.322	M	
	5010.09.323	L	
	5010.09.324	XL	■
		DIA. 36 mm	
	5010.09.361	S	
	5010.09.362	M	
	5010.09.363	L	
	5010.09.364	XL	■

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