

# EcoFit® cup EPORE®







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**Nota Bene:** The author of this technique has outlined the procedure for the uncomplicated surgical scenario. Ultimately however it is the operating surgeon who is best placed to assess and address the individual needs of each patient.

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# DESIGN CHARACTERISTICS

## Pole-area:

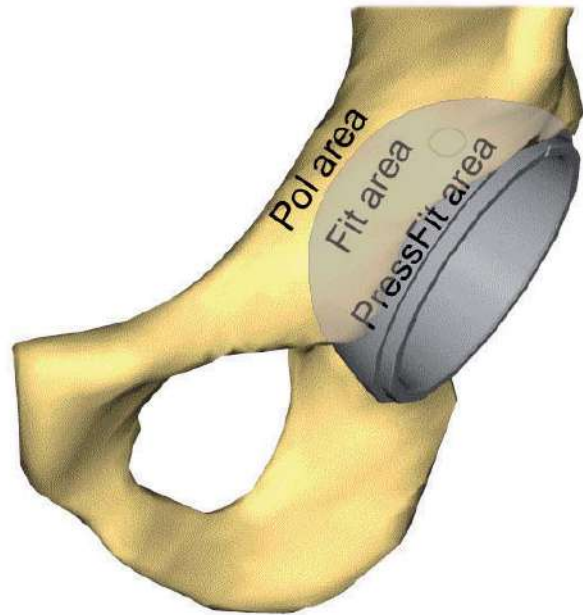
- ⊗ gap between cup and acetabulum
- ⊗ protection of the bone

## Fit-area:

- ⊗ reduction of tension towards the pole area

## PressFit-area:

- ⊗ safety against tilting and migration



The 'Low Profile' design of the cementless EcoFit® acetabular system is defined to enhance the stability and to support long-lasting bony integration.

## Pole-area

The PressFit of hemispherical acetabular implants results from under-reaming of the implant bed. The resulting PressFit acts upon the total bony area of contact. In the area of the acetabular base and in the pole area respectively this action is undesirable, because the resulting forces hold the risk of migration and loosening of the implant. For this reason the EcoFit® cup is flattened in order to guarantee the protection of the bone and to reduce the risk of loosening.




















## PressFit-area

The EcoFit® EPORE® cup locks stable through a peripheral enhanced PressFit. The PressFit grows progressively with the external diameter of the EcoFit® EPORE® acetabular implants. The primary stability decisively depends on the rate of tensions which appear during insertion of the implant. The degrees of these bone tensions are defined by the rate of the under-reaming. On equal under-reaming with all implant diameters you can see an increase of the resulting bone tensions rising with the growing diameter of the cups.

## Fit area

The cup has also got the EPORE® surface structure in the adjacent Fit area in order to enhance the osseointegration. The geometry corresponding to the reaming of the cup leads to reduced tensions in direction to the pole.

# SYSTEM OVERVIEW

42 - 44mm	46 - 48mm	50 - 54mm	56 - 58mm	60 - 72mm	
					EcoFit® cup EPORE®
not available					PE-insert 0° UHMWPE acc. to ISO 5834-2 or implacross®
	28 / 39 32 / 39**	28 / 44* 32 / 44 36 / 44**	28 / 48* 32 / 48 36 / 48	28 / 52* 32 / 52 36 / 52	
					PE-insert 10° UHMWPE acc. to ISO 5834-2 or implacross®
28 / 35**	28 / 39 32 / 39**	28 / 44* 32 / 44 36 / 44**	28 / 48* 32 / 48 36 / 48	28 / 52* 32 / 52 36 / 52	
					BIOLOX® delta insert acc. to ISO 6474-2
28 / 35	32 / 39	32 / 44 36 / 44	32 / 48 36 / 48 40 / 48	32 / 52 36 / 52 40 / 52	

\* not available in implacross®  
\*\* only available in implacross®

In order to minimize the micro motions and prevent PE abrasion in the contact area between metal cup and PE insert, a special locking mechanism has been developed. It allows the use of the identical acetabular cup implant for the use of BIOLOX® delta ceramic or PE inserts. The PE inserts are sterilized with ethylene oxide gas to prevent oxidative predegradation of the material. Alternatively PE inserts made of implacross® crosslinked polyethylene, are available. These PE-inserts have shown improved wear characteristics during preclinical tests.

The implants of the EcoFit® EPORE® system show a central hole in the acetabular base. The hole allows the control of the seating and the attachment of the impactor. It is covered by the use of a central screw cover which captures the cover while inserting. The EcoFit® EPORE® cup has three or seven (multihole) covered screw holes. To enhance the primary stability by using screws, the tapered covers may be removed (while the cup is already seated) and screws will be used. The cancellous screws can be angled up to 15°. The cup is also available without three additional holes (EcoFit® EPORE® NH).

# PREOPERATIVE PLANNING

For each surgery a preoperative planning has to be performed to allow for a precise planning in terms of dimensioning of the prostheses as well as the positioning of the implant components in the bone. Therefore templates of each implant are available as:

- **digital templates:** The templates are entered in the data bases of the most planning tools. For the case that the templates are not available in the software, please contact the planning tool. They will order the requested templates from implantcast GmbH.
- **printed x-ray templates:** Alternatively, you can order printed templates. In this case please contact your local distributor. The x-ray templates are available as standards 1:1; 1,1:1 and 1,15:1. Regarding the choice of the cup size and position the EcoFit® cup should rest congruently against the subchondral bone.

Further prior to surgery the following should be ensured:

- all needed components are available during surgery. An adequate number of various implant components should be available for surgery.
- all instruments for the implantation are present and are matching the corresponding implants. The insertion instruments must be adapted to the implant. The implants may only be used with the instruments of the implantcast GmbH. An exception are exclusively the standardized instruments used during surgery.

## PREPARATION OF THE ACETABULUM

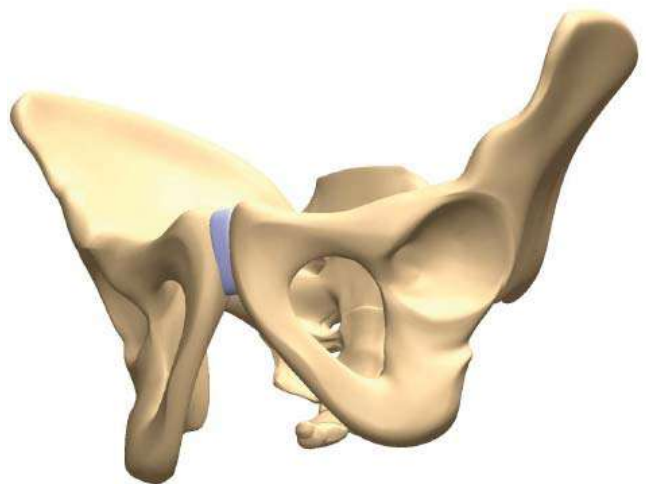
Please expose the hip joint completely. Resect the articular capsule and the labrum acetabulare. Dissect the bony rim of the acetabulum, if possible, completely. Remove the osteophytes and the connective tissue of the fossa acetabuli. In order to rebuild normal anatomical proportions, the acetabulum should be medialised to the extent to which you are able to reconstruct the preoperatively chosen centre of rotation.

## SURGICAL TECHNIQUE

To prepare the acetabular bone (Fig. 1), reamers of external diameters in increments of 2mm are available.

Align the reamer anatomically, in abduction of about 45° and anteversion of 20 - 30°. By using the reamer the acetabulum is prepared until bleeding subchondral bone is reached (Fig. 2).

Please note that the posterior and anterior acetabular rim serve for sizing and therefore should be preserved accordingly.



**Figure 1**

# SURGICAL TECHNIQUE

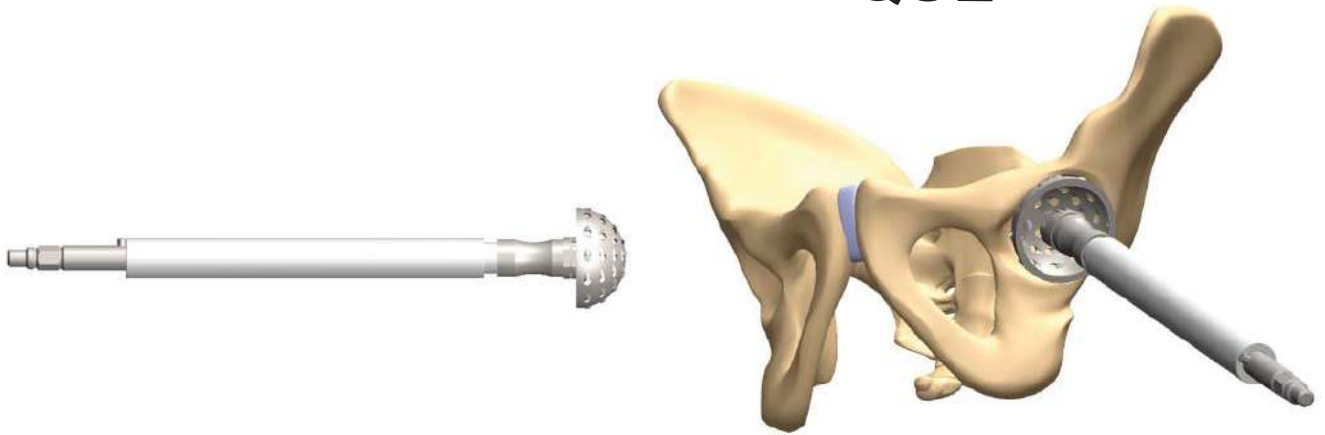


Figure 2

## Sizing

Using the trial shells, the size of the prepared implant bed is checked (Fig. 3a).

The slots of the trial shells serve for the determination of the bone contact between the respective trial shell and the prepared acetabulum (Fig. 3b).

Please consider that the trial shells are of a hemispherical shape, while the EcoFit® cup shows a circumferential enhanced PressFit.



Figure 3a

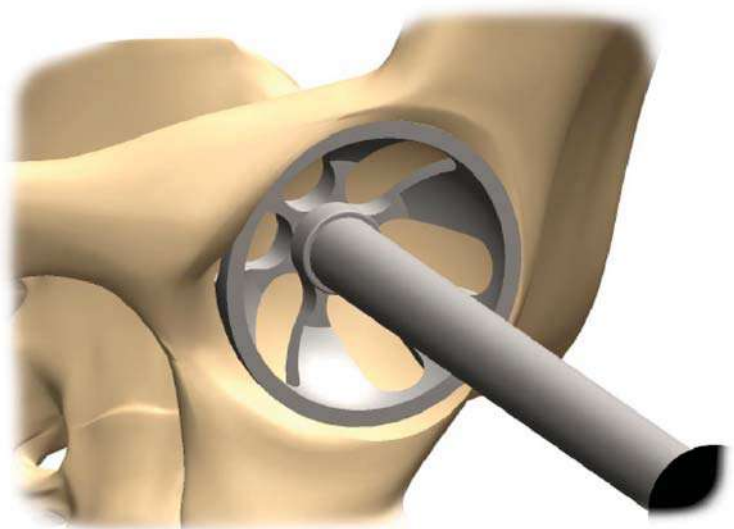


Figure 3b

# SURGICAL TECHNIQUE

## Insertion of the cup

The chosen EcoFit® cup is combined with the universal impactor and inserted in the prepared acetabulum (Fig. 4). Exactly aligned the EcoFit® cup should rest at an angle of abduction of 45° and an anteversion of 10-20°.

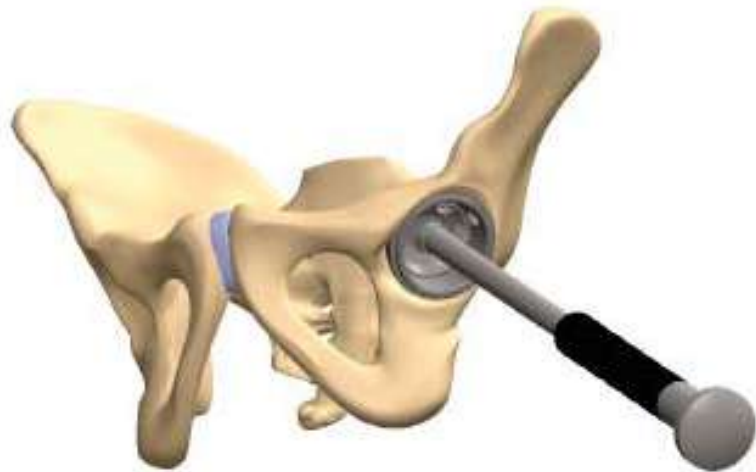
The chosen size of the EcoFit® cup should have the same diameter as the previously used reamer. The PressFit of the EcoFit® cup increases proportionally to the cup diameter.

The stability of the implant fit (PressFit) and the implant-to-bone contact can be adjusted by moving the impactor at the end of the handle. In doing so the whole pelvic should move without changing the position of the cup in the acetabulum. If the stability is not desirable, please consider to use a larger reamer and cup size or consider to use additional cancellous bone screws to enhance the stability (see page 14).

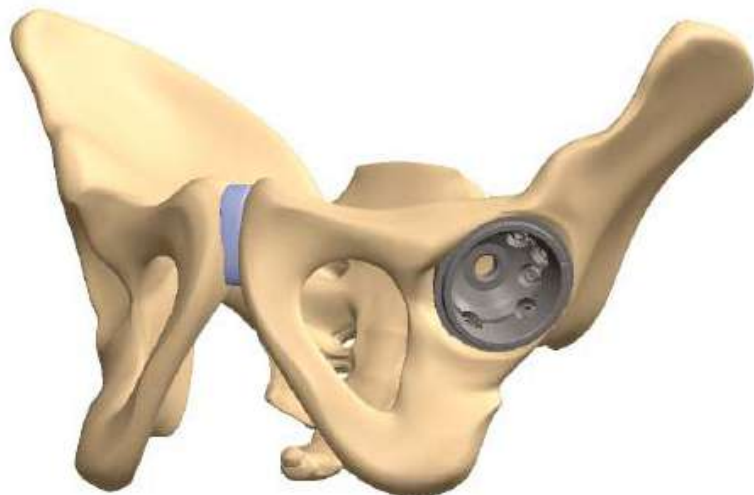
If so, you can act on the assumption of a firm primary fit and the impactor can be removed. Peripheral osteophytes that possibly hinder the femoral implant from its full range of motion have to be removed (Fig. 5).

### **NOTE:**

The EcoFit® EPORE® Hüftpfanne 42mm does not have a central bore hole. The cup is placed with the impactor 42mm which is assembled with the cup impactor.



**Figure 4**



**Figure 5**



# SURGICAL TECHNIQUE

## Insertion of the central cover

The central hole of the EcoFit® cup has got a thread and is closed with a screw driver. The captured screw driver holds the cover while inserting (Fig. 6 and Fig. 7)

Before inserting the central screw holder, the central hole has to be cleaned thoroughly by rinsing and sucking off.

Make sure that the central cover is seated completely (Fig. 8).

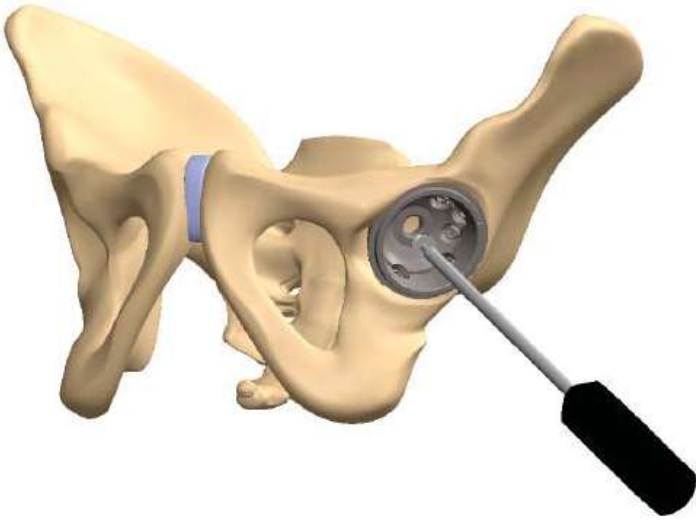


Figure 6

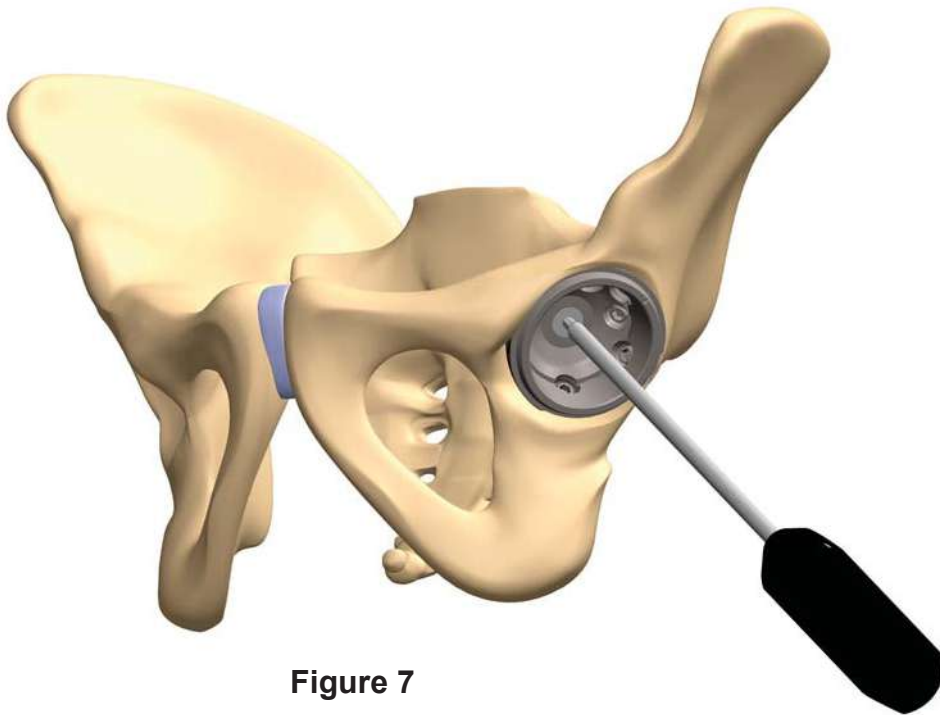


Figure 7



Figure 8

# SURGICAL TECHNIQUE

## Trial reduction

When the EcoFit® cup is fixed firmly in the desired position, a trial insert of the appropriated size may be inserted for the trial reduction.

By the use of the trial insert you avoid damages of the PE and the ceramic insert respectively.

The table below shows the colour coding of the trial inserts. The same colour coding could be found on the outside labelling of the implant packages.

Combine the universal impactor with the trial impactor of the correct size and colour (see table 1) and insert the trial insert (Fig. 9).

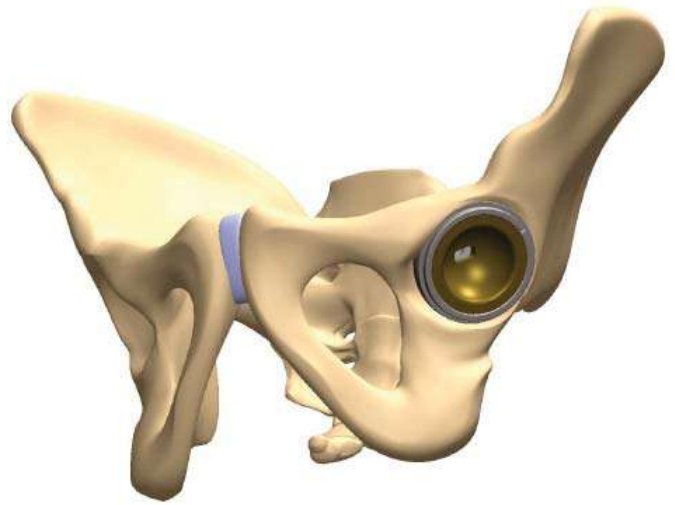


Figure 9



cup Ø 42-44mm	head Ø 28mm	head Ø 28mm
cup Ø 46-48mm	head Ø 28mm	head Ø 32mm
cup Ø 50-54mm	head Ø 32mm	head Ø 36mm
cup Ø 56-58mm	head Ø 32mm	head Ø 36mm
cup Ø 60-72mm	head Ø 32mm	head Ø 36mm

Table 1

# SURGICAL TECHNIQUE

## Removal of the trial insert

Mount the trial insert extractor to the universal impactor.

Insert the tip of the extractor into the bottom hole of the trial insert (fig. 10) and turn the extractor. It will hook in and the trial insert can be pulled out (Fig. 11).

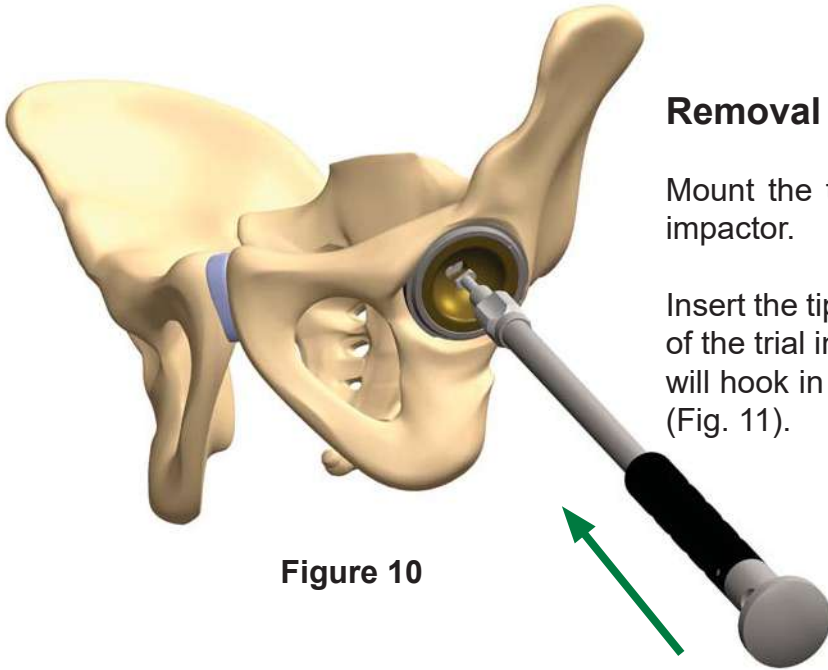


Figure 10

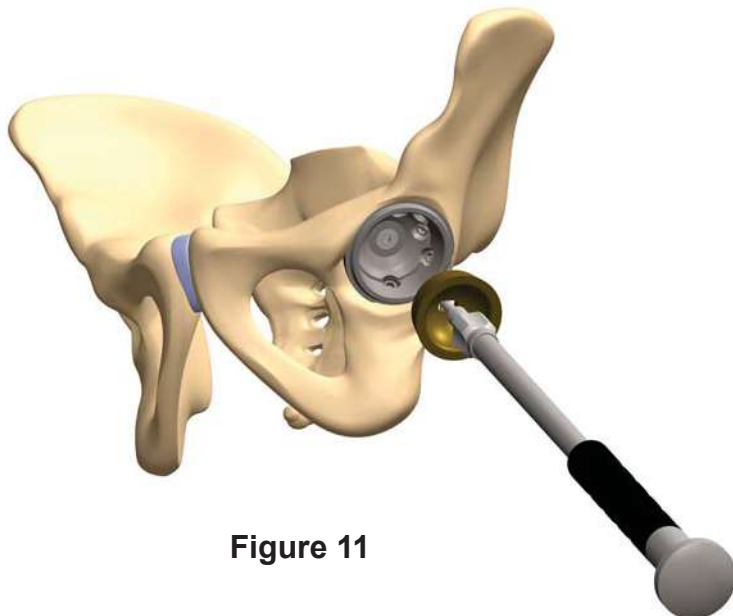
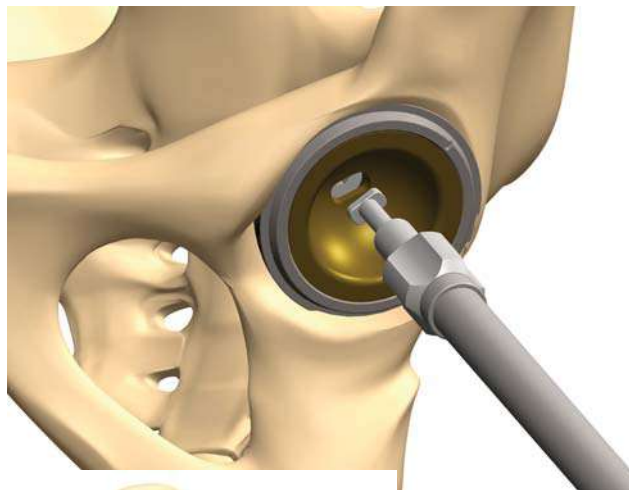
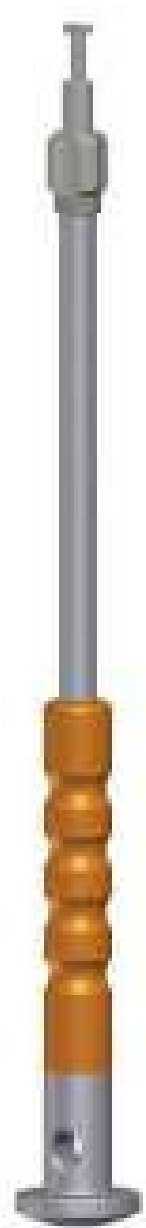


Figure 11



# SURGICAL TECHNIQUE

## Insertion of the PE-insert

Before final insertion of the PE articulation inserts into the EcoFit® cup, the rim and the inner surface have to be cleaned thoroughly. Tissue and bone particles have to be removed.

Combine the impactor for PE insert 10° with the PE insert of the correct size. The two spikes of the impactor will seat firmly into the holes of the PE insert. Before pressing in the PE insert 10° make sure the overhang is placed in the appropriated position. Please respect that the X-mark of the impactor should line up with the mark of the acetabular cup (Fig. 12).

The overhang optimizes the stability of the joint and reduces the tendency to sublunate. Usually the overhang is inserted in the cranio/posterior direction.

The PE insert 0° is inserted by using the non captured impactor as it is used for inserting the ceramic inserts (see next page).

Please make sure that the PE insert fits with stability thus assuring that the snap mechanism of the PE insert is caught completely by the cup (Fig. 13).

If a removal of the PE insert from the EcoFit® cup is necessary for correction, the polyethylene component has to be lifted up and discarded. In no case the PE insert may be inserted into the cup a second time. The use of a new PE insert is mandatory.

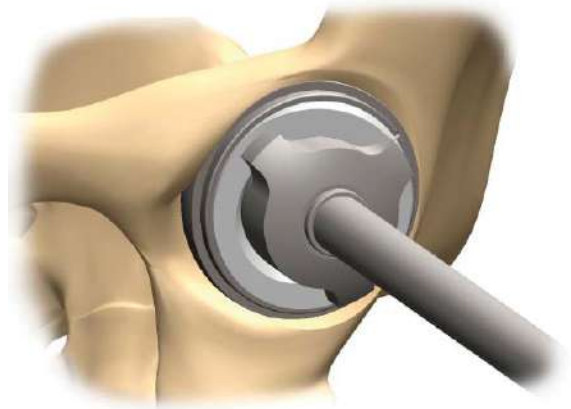


Figure 12



Figure 13

# SURGICAL TECHNIQUE

## Insertion of the ceramic-insert

Before final insertion of one of the three insert types into the EcoFit® cup the rim and the inner surface of the cup have to be cleaned thoroughly. Tissue and bone particles have to be removed. The following pictures are explaining the technique showing the BIOLOX® delta insert.

After a positioner for ceramic of the appropriated diameter had been mounted to the universal impactor, the insert is inserted into the cup (Fig. 14).

The insert is conically locked into the EcoFit® cup (Fig. 15a). If a ceramic insert has to be removed in case of revision, only a PE insert may be inserted in the residual cup implant afterwards. Make sure that the insert is fully seated (Fig. 15b) before final reduction of the joint is performed (Fig. 16).

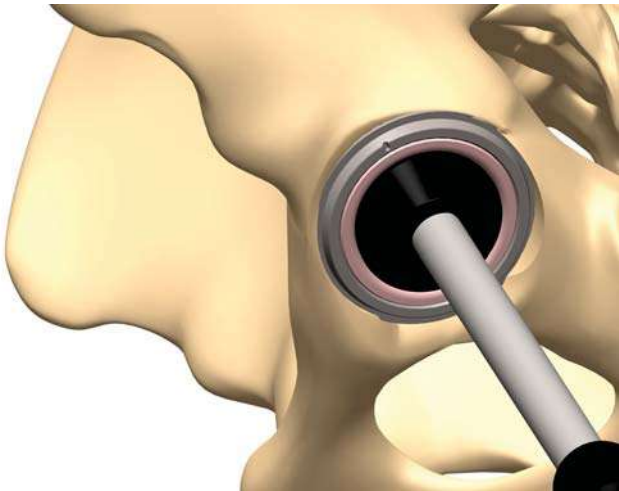


Figure 14

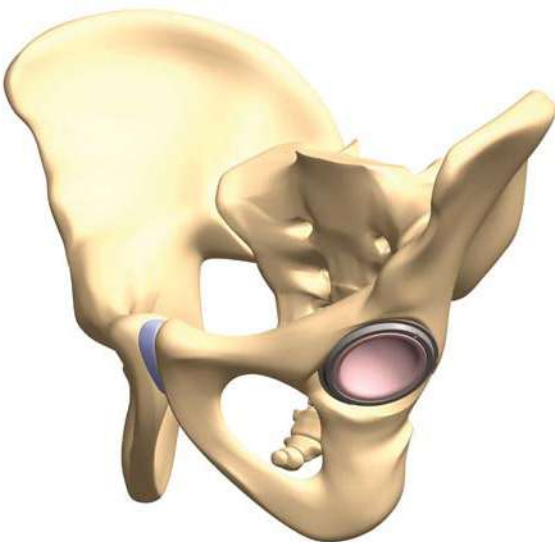


Figure 15a

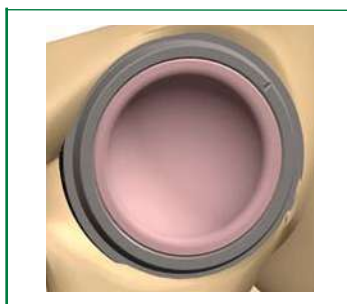


Figure 15b

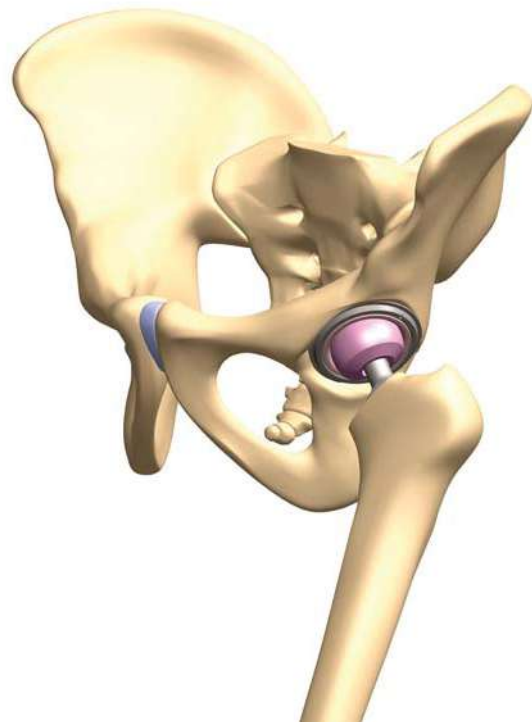


Figure 16

# SURGICAL TECHNIQUE

## Application of screws

The stability of the primary fixation of the cup can be enhanced by the use of additional cancellous bone screws.

The screw holes are covered, so please remove the plug of the desirable screw hole or holes (Fig 17a). Therefore put the screw driver 3,5mm into the relevant plug. By right- or leftturning the plugs can be removed (Fig. 17b and 17c) .

The plug is captured by the tip of the remover and it can be pulled out (Fig. 18).

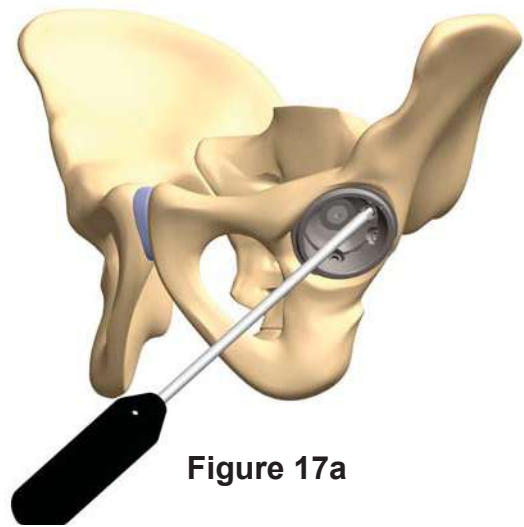


Figure 17a

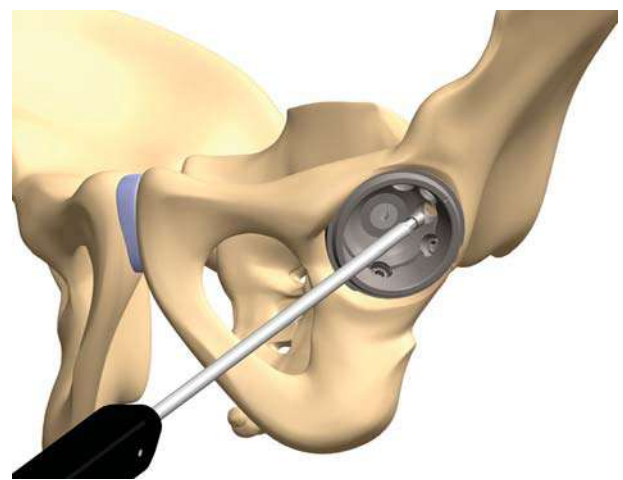


Figure 17c

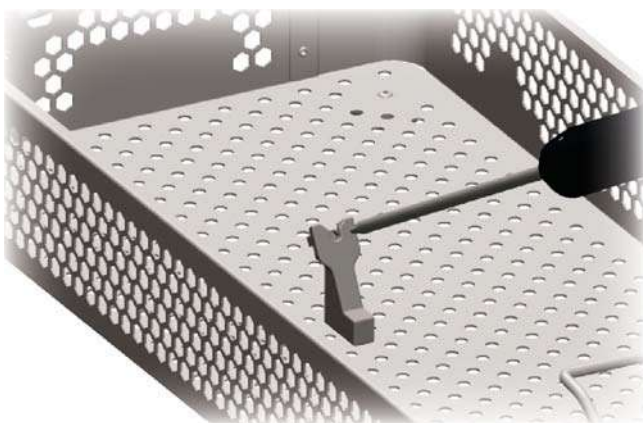


Figure 17b

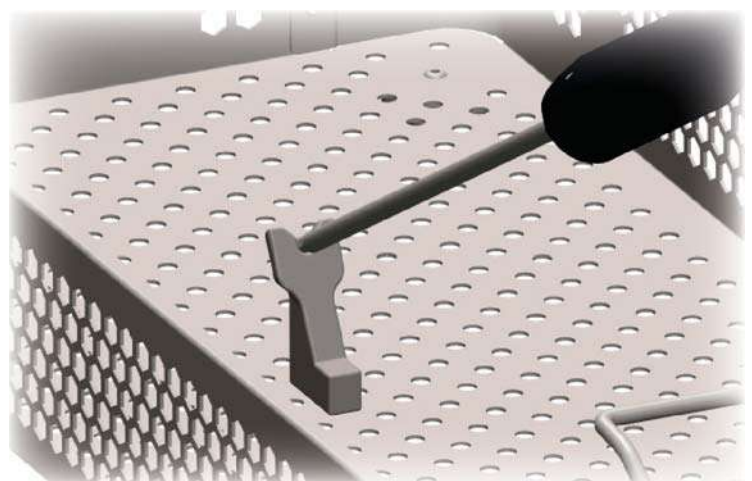


Figure 18

# SURGICAL TECHNIQUE

## Application of screws

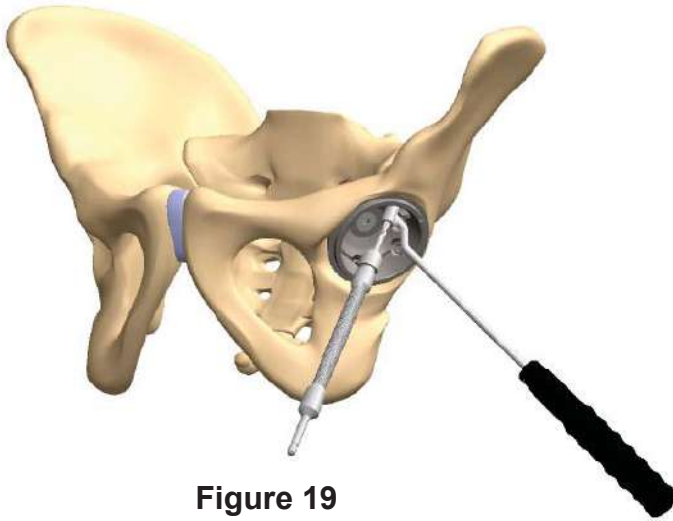


Figure 19

When you position the holes, please consider that the most suitable bone for screw fixation is situated in the cranio/posterior parts of the acetabulum, whereas a screw fixation in the os ischii or os pubis leads to an unsatisfactory fit of the screws. In case of inserting the cancellous bone screws in direction to the foramen ischiadicum, you may guard against an injury of the N. ischiadicus by an exact palpation of this part. When positioning the screws and drilling the holes, please act with utmost caution to avoid the penetration of the interior corticalis of the pelvis or the foramen ischiadicum. Please consider the run of the neurovascular structures.



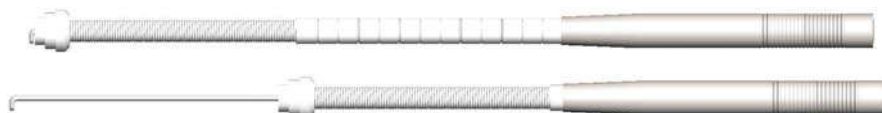
Figure 20

For every chosen hole pilot holes are to be drilled. Because of the risk of artery injuries do not drill directly in anterior or medial direction. Please use the angled drill guide to pre-drill the screw holes. Screws can be angled up to 15 degrees.

Mount a drill bit to the flexible drill shaft and drill through the drill guide (Fig. 19).

Flexible drill shafts are allowed to be loaded with a maximum torque of 0,2Nm at a maximum bending of 45°. Pay attention that the flexible part is bent with a preferably uniform bending radius during application. The application with adjustments of narrow nonuniform or s-curved bendings can reduce the lifetime. The form stability of the flexible drill shaft is given for a torque of up to 0,5Nm.

Before inserting the cancellous bone screws the exact length of the screw is determined by using the special depth gauge. The length has to be determined exactly in order to avoid injuries of the soft tissue in the interior of the pelvis. Please insert the depth gauge and measure the length of the screw (Fig. 20). You can read the correct length from the handle of the depth gauge when the flexible measuring needle is seated correctly.



# SURGICAL TECHNIQUE

## Application of screws

Please select the screw of the previously determined length. Use the cardan screw driver to lock the screws (Fig. 21).

Make sure that the head of the cancellous bone screw is completely counter-sunk into the hole of the EcoFit® cup to assure the correct positioning of the PE and ceramic insert.

The stability of the implant fit is checked by exercising pressure to the rim of the cup. This stability test must not show any visible motion of the EcoFit® cup. If the primary stability is still uncertain, an additional fixation of the screw or the use of a cemented acetabular component shall be considered.

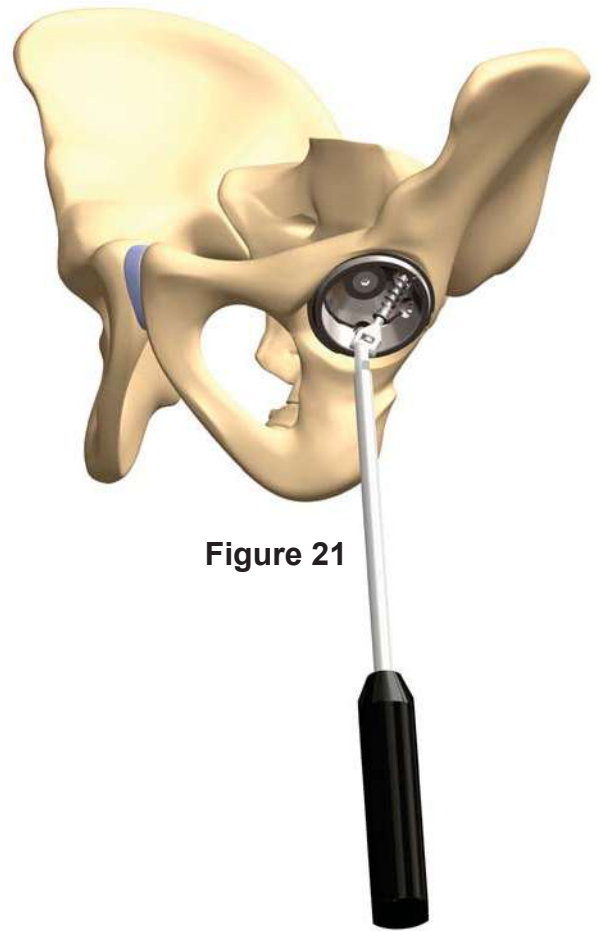


Figure 21

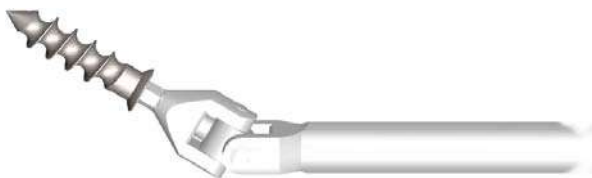


Figure 23

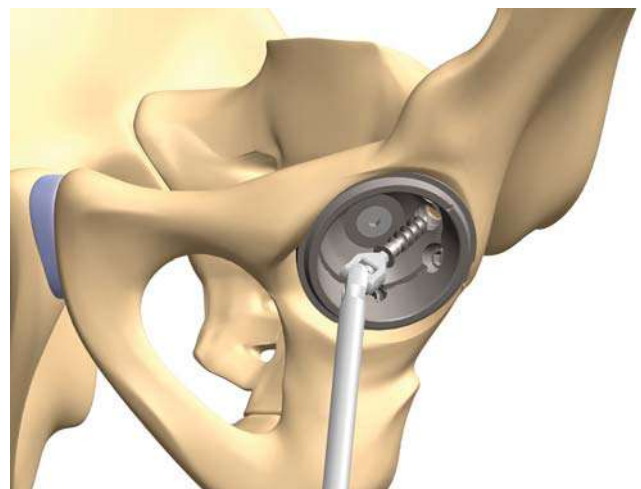


Figure 22



# EcoFit® EPORE® cup

# PRODUCT- INFORMATION

IMPLANTS with reference number.....	18
INSTRUMENTS with reference number.....	22



# IMPLANTS

## EcoFit® cup EPORE®, cementless implatan®, TiAl<sub>6</sub>V<sub>4</sub>

REF standard	size	REF NH-version
0220-0742	42mm	0220-0942
0220-0744	44mm	0220-0944
0220-0746	46mm	0220-0946
0220-0748	48mm	0220-0948
0220-0750	50mm	0220-0950
0220-0752	52mm	0220-0952
0220-0754	54mm	0220-0954
0220-0756	56mm	0220-0956
0220-0758	58mm	0220-0958
0220-0760	60mm	0220-0960
0220-0762	62mm	0220-0962
0220-0764	64mm	0220-0964
0220-0766	66mm	0220-0966
0220-0768	68mm	0220-0968
0220-0770	70mm	0220-0970
0220-0772	72mm	0220-0972



## EcoFit® cup EPORE® multihole, cementless implatan®, TiAl<sub>6</sub>V<sub>4</sub>

REF multihole	size
0220-0642	42mm
0220-0644	44mm
0220-0646	46mm
0220-0648	48mm
0220-0650	50mm
0220-0652	52mm
0220-0654	54mm
0220-0656	56mm
0220-0658	58mm
0220-0660	60mm
0220-0662	62mm
0220-0664	64mm
0220-0666	66mm
0220-0668	68mm
0220-0670	70mm
0220-0672	72mm



# IMPLANTS

**EcoFit® cup EPORE® /TCP,  
cementless\***  
implatan®, TiAl<sub>6</sub>V<sub>4</sub> with TCP coating



REF standard	size	REF NH-version
0220-2042	42mm	0220-7042
0220-2044	44mm	0220-7044
0220-2046	46mm	0220-7046
0220-2048	48mm	0220-7048
0220-2050	50mm	0220-7050
0220-2052	52mm	0220-7052
0220-2054	54mm	0220-7054
0220-2056	56mm	0220-7056
0220-2058	58mm	0220-7058
0220-2060	60mm	0220-7060
0220-2062	62mm	0220-7062
0220-2064	64mm	0220-7064
0220-2066	66mm	0220-7066
0220-2068	68mm	0220-7068
0220-2070	70mm	0220-7070
0220-2072	72mm	0220-7072

**EcoFit® cup EPORE® / TCP multihole,  
cementless\***  
implatan®, TiAl<sub>6</sub>V<sub>4</sub> with TCP coating



REF multihole	size
0220-6042	42mm
0220-6044	44mm
0220-6046	46mm
0220-6048	48mm
0220-6050	50mm
0220-6052	52mm
0220-6054	54mm
0220-6056	56mm
0220-6058	58mm
0220-6060	60mm
0220-6062	62mm
0220-6064	64mm
0220-6066	66mm
0220-6068	68mm
0220-6070	70mm
0220-6072	72mm

\* only available on special request

# IMPLANTS

## spongiosa screw flat head Ø 6,5mm

implatan®, TiAl<sub>6</sub>V<sub>4</sub> acc. to ISO 5832-3

REF	length
0280-1015	15mm
0280-1020	20mm
0280-1025	25mm
0280-1030	30mm
0280-1035	35mm
0280-1040	40mm
0280-1045	45mm



The spongiosa screws are included in the shipment till length 50mm. We are providing lengths till 80mm on request.

## BIOLOX® delta-cup insert

BIOLOX® delta ceramic Al<sub>2</sub>O<sub>3</sub> and ZrO<sub>2</sub>  
acc. to ISO 6474-2

REF	size
0220-2835	insert 28/35 (42-44mm)
0220-3239	insert 32/39 (46-48mm)
0220-3244	insert 32/44 (50-54mm)
0220-3644	insert 36/44 (50-54mm)
0220-3248	insert 32/48 (56-58mm)
0220-3648	insert 36/48 (56-58mm)
0220-4048*	insert 40/48 (56-58mm)
0220-3252	insert 32/52 (60-72mm)
0220-3652	insert 36/52 (60-72mm)
0220-4052*	insert 40/52 (60-72mm)



\*only available on request

## PE cup insert 0°

UHMWPE acc. to ISO 5834-2

REF	size
0280-2039	insert 28/39 (46-48mm)
0280-2044	insert 28/44 (50-54mm)
0280-3444	insert 32/44 (50-54mm)
0280-2048	insert 28/48 (56-58mm)
0280-3448	insert 32/48 (56-58mm)
0280-4448	insert 36/48 (56-58mm)
0280-2052	insert 28/52 (60-72mm)
0280-3452	insert 32/52 (60-72mm)
0280-4452	insert 36/52 (60-72mm)



# IMPLANTS



## PE cup insert 10°

UHMWPE acc. to ISO 5834-2

REF	size
0280-2139	insert 28/39 (46-48mm)
0280-2144	insert 28/44 (50-54mm)
0280-2148	insert 28/48 (56-58mm)
0280-3144	insert 32/44 (50-54mm)
0280-3148	insert 32/48 (56-58mm)
0280-4548	insert 36/48 (56-58mm)
0280-2152	insert 28/52 (60-72mm)
0280-3152	insert 32/52 (60-72mm)
0280-4552	insert 36/52 (60-72mm)



## implacross® PE cup insert 0°

crosslinked UHMWPE

REF	size
0223-2839	insert 28/39 (46-48mm)
0223-3239	insert 32/39 (46-48mm)
0223-3244	insert 32/44 (50-54mm)
0223-3644	insert 36/44 (50-54mm)
0223-3248	insert 32/48 (56-58mm)
0223-3648	insert 36/48 (56-58mm)
0223-3252	insert 32/52 (60-72mm)
0223-3652	insert 36/52 (60-72mm)

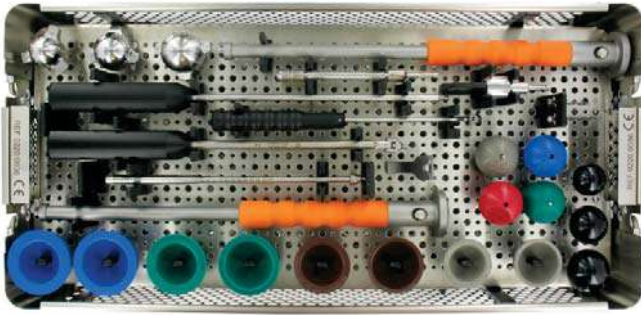


## implacross® PE cup insert 10°

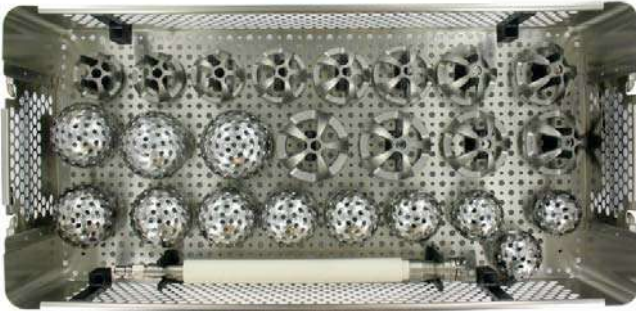
crosslinked UHMWPE

REF	size
0224-2835	insert 28/35 (42-44mm)
0224-2839	insert 28/39 (46-48mm)
0224-3239	insert 32/39 (46-48mm)
0224-3244	insert 32/44 (50-54mm)
0224-3644	insert 36/44 (50-54mm)
0224-3248	insert 32/48 (56-58mm)
0224-3648	insert 36/48 (56-58mm)
0224-3252	insert 32/52 (60-72mm)
0224-3652	insert 36/52 (60-72mm)

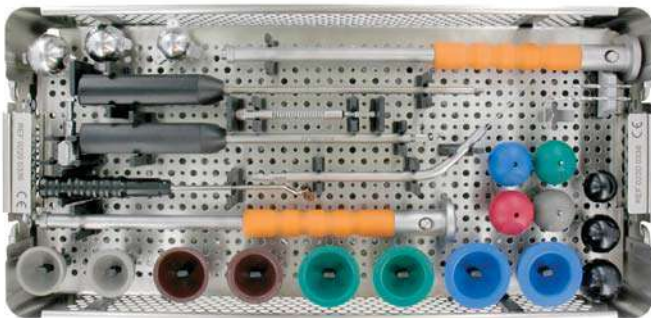
# INSTRUMENTS



**0220-0036**  
**EcoFit® Cup container 36mm**  
**(top)**



**0220-0036**  
**EcoFit® Cup container 36mm**  
**(bottom)**

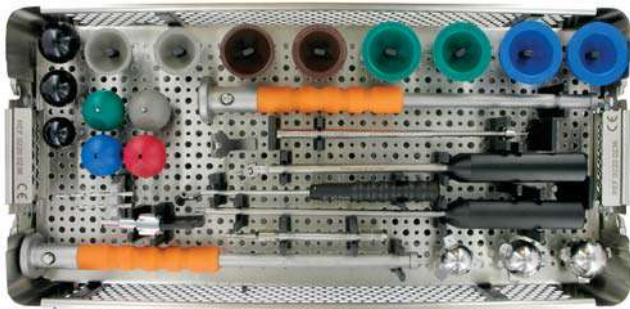


**0220-0336**  
**EcoFit® Cup EPORE® container**  
**(top)**

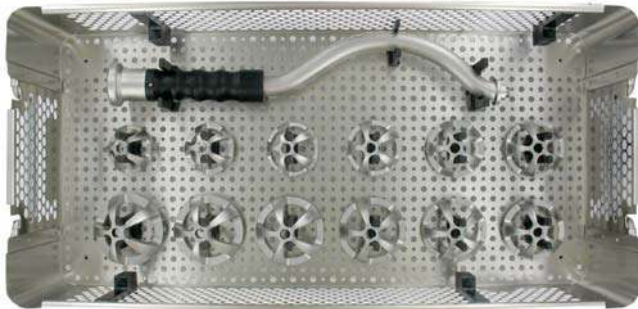


**0220-0336**  
**EcoFit® Cup EPORE® container**  
**(bottom)**

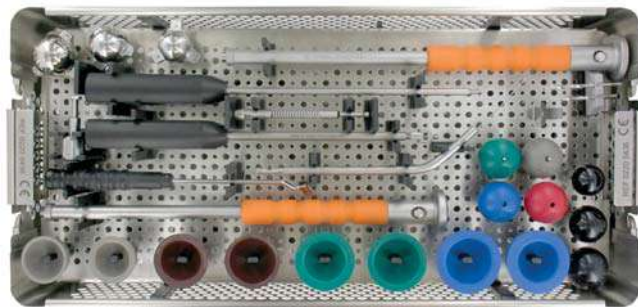
# INSTRUMENTS



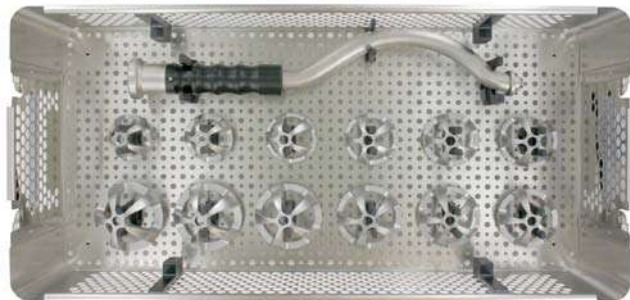
**0220-0236**  
**EcoFit® Cup GIS® container 36mm**  
**(top)**



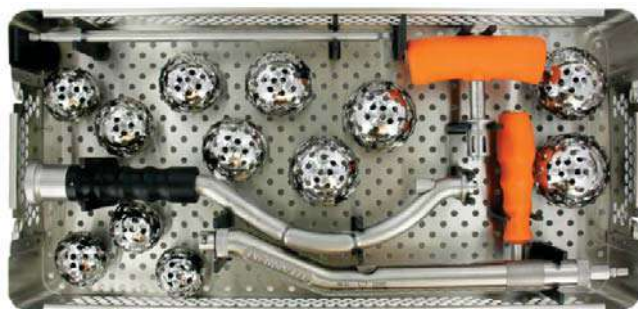
**0220-0236**  
**EcoFit® Cup GIS® container 36mm**  
**(bottom)**



**0220-0436**  
**EcoFit® Cup EPORE® container GIS®**  
**(top)**

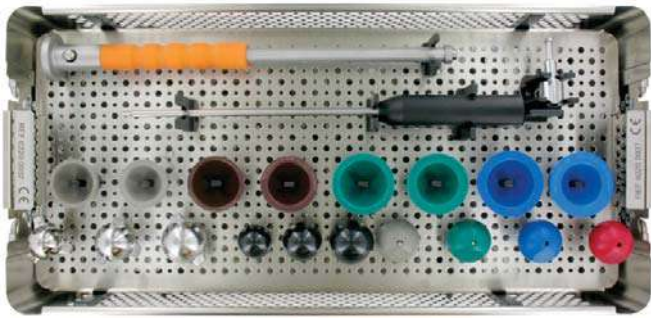


**0220-0436**  
**EcoFit® Cup EPORE® container GIS®**  
**(bottom)**

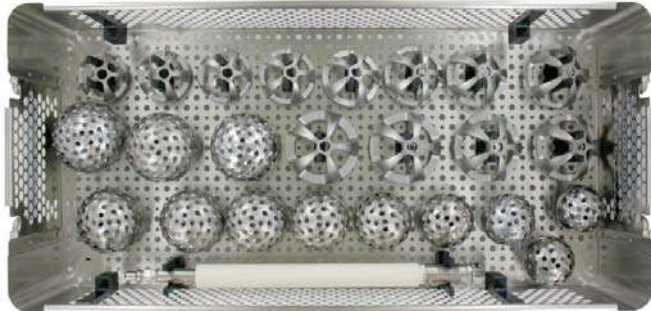


**7999-0800**  
**GIS® acetabulum reamer container**  
**with curved cup impactor**

# INSTRUMENTS



**0220-0037**  
**EcoFit® cup EPORE® NH container**  
**(top)**



**0220-0037**  
**EcoFit® cup EPORE® NH container**  
**(bottom)**



**0220-0136**  
**EcoFit® Cup EPORE® container**  
**42-44mm**



**0220-0138**  
**EcoFit® cup EPORE® container**  
**70-72mm**



**0220-0040**  
**Trial container for ceramic insert 40mm**  
only available on request



# INSTRUMENTS

## CONTAINER 0220-0036/0220-0336/0220-0236/0220-0436/0220-0037

### acetabulum reamer low profile

(not in container 02200236 and 02200436)

2950-3046 / 2960-3046	Ø 46mm
2950-3048 / 2960-3048	Ø 48mm
2950-3050 / 2960-3050	Ø 50mm
2950-3052 / 2960-3052	Ø 52mm
2950-3054 / 2960-3054	Ø 54mm
2950-3056 / 2960-3056	Ø 56mm
2950-3058 / 2960-3058	Ø 58mm
2950-3060 / 2960-3060	Ø 60mm
2950-3062 / 2960-3062	Ø 62mm
2950-3064 / 2960-3064	Ø 64mm
2950-3066 / 2960-3066	Ø 66mm
2950-3068 / 2960-3068	Ø 68mm



### handle for acetabulum reamer

(not in container 02200236 and 02200436)

2950-2010



### EcoFit® trial cup

0220-3046	Ø 46mm
0220-3048	Ø 48mm
0220-3050	Ø 50mm
0220-3052	Ø 52mm
0220-3054	Ø 54mm
0220-3056	Ø 56mm
0220-3058	Ø 58mm
0220-3060	Ø 60mm
0220-3062	Ø 62mm
0220-3064	Ø 64mm
0220-3066	Ø 66mm
0220-3068	Ø 68mm



### handle curved

(only in container 02200236 and 02200436)

7512-2202



### positioner PE Liner 10°

0282-0003	Ø 28mm
0282-0004	Ø 32mm
0282-0036	Ø 36mm



# INSTRUMENTS



**shell impactor (2x; in container 02200037 1x)**  
0282-0030



**impactor for cup insert**

0282-0002                      Ø 28mm  
0282-0007                      Ø 32mm  
0282-0009                      Ø 36mm



**trial head snap taper 12/14mm**

7962-3600 / 7965-3600      Ø 36mm short  
7962-3605 / 7965-3605      Ø 36mm medium  
7962-3610 / 7965-3610      Ø 36mm long  
7962-3615 / 7965-3615      Ø 36mm extra long



**trial insert 0°**

0225-2835                      Ø 28/35mm  
0225-2839                      Ø 28/39mm  
0225-3239                      Ø 32/39mm

0225-3244                      Ø 32/44mm  
0225-3248                      Ø 32/48mm  
0225-3252                      Ø 32/52mm

0225-3644                      Ø 36/44mm  
0225-3648                      Ø 36/48mm  
0225-3652                      Ø 36/52mm



**trial insert extractor**  
1260-0009



**screw driver long 3,5mm**  
0280-1006



**flexible screw driver 3,5mm**  
(not in container 02200037)  
0270-1002



**angled drill guide 3,2mm**  
(not in container 02200037)  
0282-1001



**plug remover (not in container 02200037)**  
0220-2011

# INSTRUMENTS

## drill bit 3,2mm (not in container 02200037)

0282-1005 56mm (container 02200036 and 02200236)

0282-1070 70mm (container 02200036 and 02200236)

0282-3240 40mm (container 02200336 and 02200436)

0282-3260 60mm (container 02200336 and 02200436)



## flexible drill shaft (not in container 02200037)

0282-1000 (container 02200036 and 02200236)

0282-2110 (container 02200336 and 02200436)



## depth gauge

(only in container 02200036 and 02200236)

0282-1007



## depth gauge two-piece

(only in container 02200336 and 02200436)

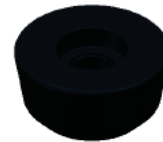
0282-1009



## CONTENT CONTAINER 0220-0136

### impactor 42mm

0220-4042



### trial insert 0°

0225-2835

Ø 28/35mm



### acetabulum reamer low profile

2950-3042 / 2960-3042 Ø 42mm

2950-3044 / 2960-3044 Ø 44mm



### EcoFit® trial cup

0220-3042

Ø 42mm

0220-3044

Ø 44mm



# INSTRUMENTS

## CONTENT CONTAINER 7999-0800

### **acetabulum reamer solid section**

7512-1746	Ø 46mm
7512-1748	Ø 48mm
7512-1750	Ø 50mm
7512-1752	Ø 52mm
7512-1754	Ø 54mm
7512-1756	Ø 56mm
7512-1758	Ø 58mm
7512-1760	Ø 60mm
7512-1762	Ø 62mm
7512-1764	Ø 64mm
7512-1766	Ø 66mm
7512-1768	Ø 68mm



### **cup impactor curved constrained** 2950-0606



### **ic-T-handle Zimmer-Jakobs** 4223-0023



### **ic adapter with hexagon ball 8mm** 7512-3608



### **offset handle for acetabular reamer GIS®** 7512-1700



# INSTRUMENTS

## CONTAINER 0220-0138

### acetabulum reamer low profile

2960-3070 Ø 70mm

2960-3072 Ø 72mm



### trial shell open

2950-2370 Ø 70mm

2950-2372 Ø 72mm



### flexible screw driver 3,5mm

0270-1008



## CONTAINER 0220-0040

### trial head taper 12/14

7965-4000 Ø 40mm S

7965-4005 Ø 40mm M

7965-4010 Ø 40mm L

7965-4015 Ø 40mm XL



### trial insert 0°

0225-4048 Ø 40/48mm

0225-4052 Ø 40/52mm



### impactor for cup insert

0282-0040 Ø 40mm



Only available on request!

# INSTRUMENTS

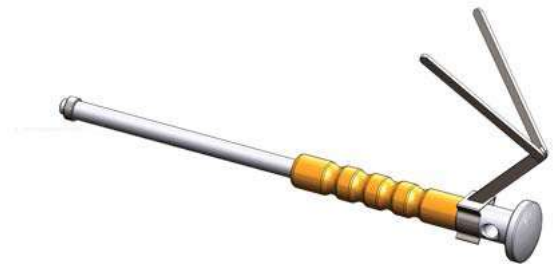
## ADDITIONAL SINGLE INSTRUMENT

### **alignment guide**

7512-2203 for curved handle



7512-2204 for straight handle



**Only available on request!**





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