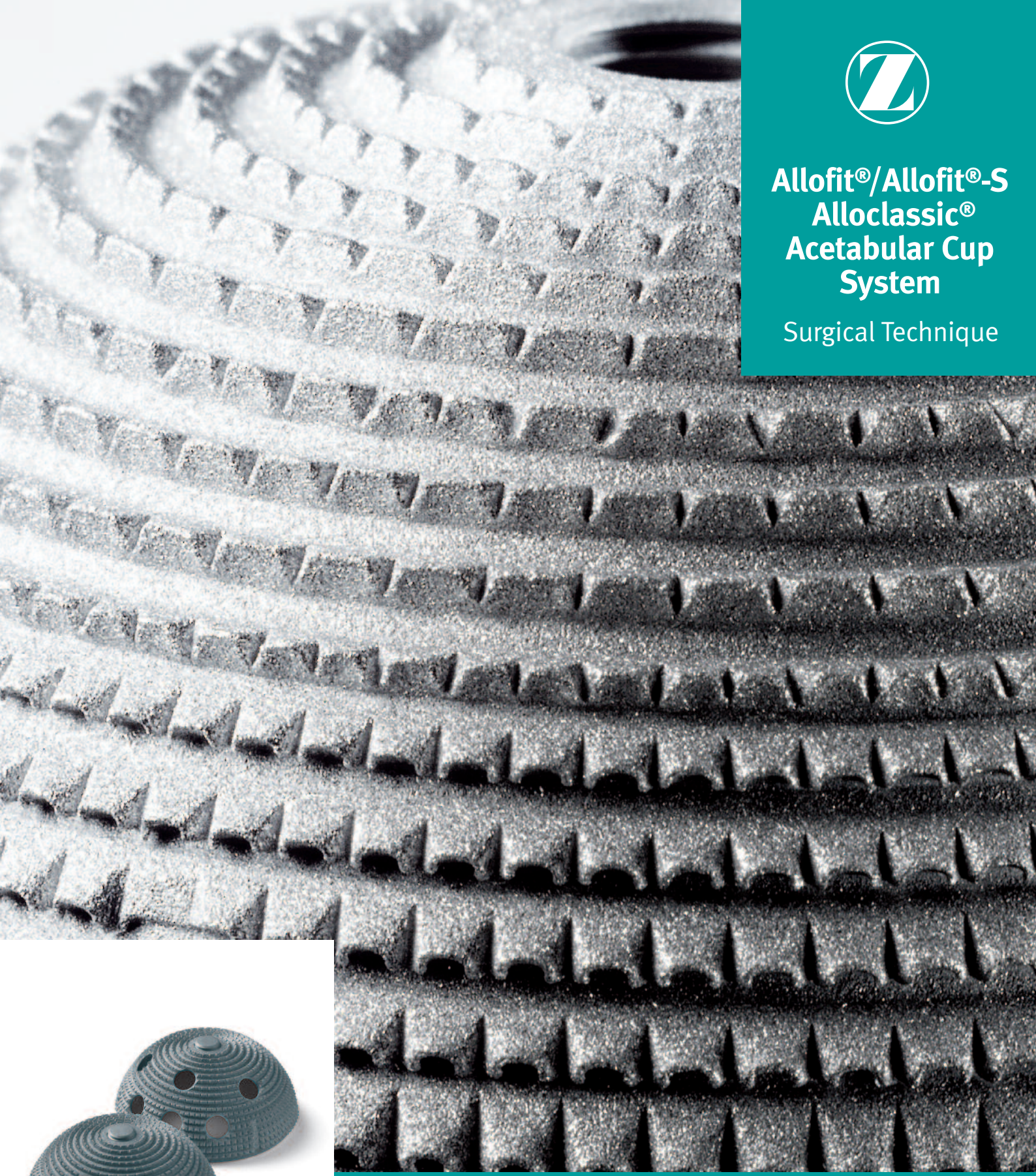
Allofit®/Allofit®-S Alloclassic® Acetabular Cup System

Surgical Technique



Primary Stability and Simple Application

zimmer

The Allofit/Allofit-S Cup System Uncemented

Contents

The Allofit/Allofit-S Cup System

Hemispherical cups for uncemented implantation have gained wide acceptance in recent years. One of the main reasons for this is that they reconstruct the original shape of the acetabulum, thereby ensuring minimum bone resection. This makes it possible to maintain and use the subchondral bone area as a load-bearing element. Unlike most other uncemented spherical cups, *Allofit* cups have a flattened pole area. This ensures that the implant cannot shift at the peak of its hemisphere, instead it transfers load to the periphery of the cup. The cup is slightly larger than the reamed acetabulum, which provides primary stability. The cup locks in the area of the subchondral bone, which both anchors the implant and restores the original physiological function of load transfer.

Primary anchorage of the titanium shell is supported by an excellent macrostructure. Long-term anchoring through osseointegration is ensured by the use of a proven material for the cup, the titanium-wrought alloy *Protasul*®-Ti with a rough-blasted surface.

In cases of uncemented modular acetabular cups in the past, it was shown that an incomplete metal insert backing, particularly where the polyethylene walls are thin, can cause problems and may lead to implant failure. In the *Allofit* cup system, it was therefore ensured that the polyethylene walls would be thick enough, and also that all screw holes in the titanium shell were designed for capping. The insert is seated and secured in the shell by a snap mechanism that holds the insert firmly in place.

The *Allofit* cup system provides the surgeon with a reliable prosthesis that is easy to handle and offers considerable freedom of choice because of its modular design. Titanium shells with or without the possibility of additional screw fixation are available as anchoring components. Neutral and 10-degree hooded polyethylene inserts, as well as *Metasul* and *Cerasul* inserts, can be combined with the titanium shells. This makes it possible to individually select the most suitable acetabular cup for the patient in an economic and practical way.

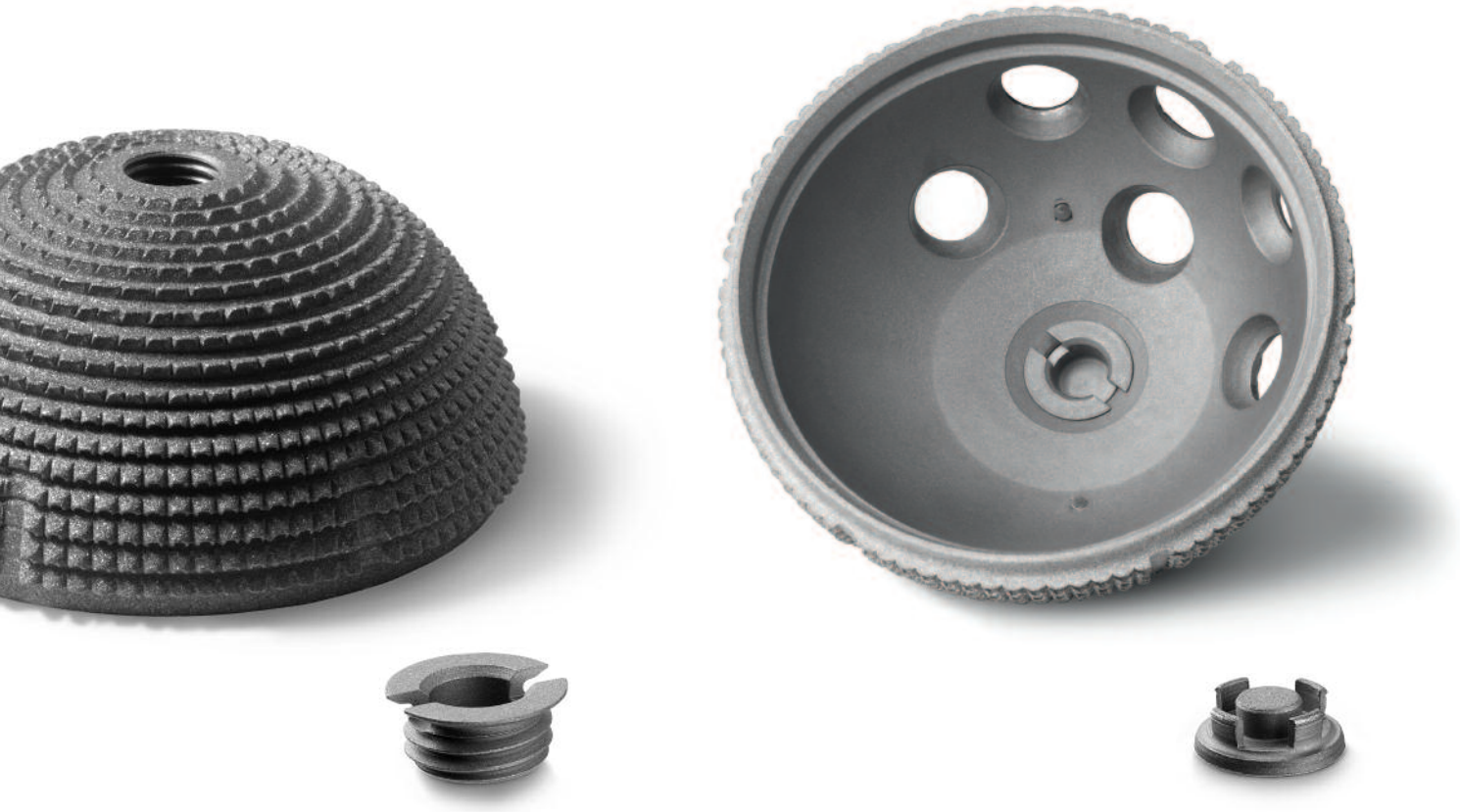
Indications

The *Allofit* cup can be used for all forms of coxarthrosis if the bone quality and quantity is adequate and there is sufficient bone coverage.

The bispherical basic design with polar flattening is preferable to the purely spherical cup, even in the case of poor bone quality, as is common in osteoporotic or rheumatoid patients, for achieving stable anchorage.

Furthermore, in cases of primary dysplasia of the hip, the *Allofit* cup can be used in combination with hooded polyethylene inserts, which can be implanted with stable rotation in any position.

If no stability by means of press-fit is achieved in cases of poor bone quality or in a revision operation, the *Allofit*-S cup with screw holes offers additional options.



Preoperative Planning

X-ray templates are available for preoperative planning of an *Allofit* cup. Together with a current X-ray overview of the pelvis, these are a practical aid for planning the surgical procedure.

The aim of preoperative planning is to determine the most favorable position of the implant and its approximate size, and anticipate potential surgical complications. A load-bearing, stable acetabular floor and solid lateral bony tissue are desirable. An extensively preserved osseous circumference of the acetabulum is a prerequisite for primary stability of the cup.

In cases of acetabular dysplasia, preoperative planning helps in deciding whether the implant bed must be supported by using bone grafts. The center of rotation should approximate physiological conditions as closely as possible.

The inclination of the cup should form an angle of 40°–45° to the pelvic horizontal line. A cup template of appropriate size is placed between the acetabular root and teardrop figure, which serve as a reference to determine the shell diameter. The cup should be placed in an anteversion of 10°–15° interoperatively. However, it should be kept in mind that the correct cup orientation also depends on the femoral implant position.

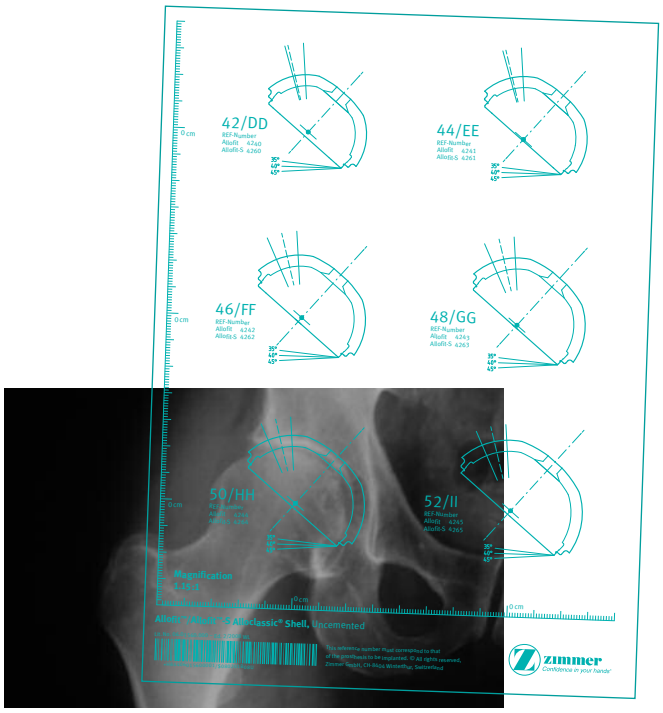


Fig. 1

Surgical Approach

The *Allofit* cup can be implanted using a variety of surgical approaches. The specific approach depends on the surgeon's preference and therefore may differ from the procedure shown below.

Exposing the Acetabulum

A clean and clear exposure of the acetabulum is a prerequisite for successful implantation. The capsule is excised in its entire circumference so that reamers can be easily introduced. All fibrous, cartilaginous and bony structures preventing the preparation of the acetabulum must be removed.

Reaming the Acetabulum

The acetabular bone bed is reamed based on its size and prepared in 2 mm steps. The aim is to create an anatomically shaped acetabular implant bed so that the cup is gripped by bone on all sides and anchored in well-vascularized bone. This establishes the prerequisites for primary and secondary stability.

Important: Reaming must be minimal to preserve bone stock and the morphology of the acetabulum.

In flat acetabuli, first ream the central acetabular floor with a relatively small reamer and then deepen according to the preoperative planning (Fig. 2a). In normal acetabuli, deepening is not required. Once the necessary depth has been reached, incline the reamer at around 40° to the longitudinal axis of the body and form a hemispherical implant bed using the next largest reamer (Fig. 2b). This cranial reamer direction is maintained until:

1. The necessary depth has been attained, and
2. 50–60 % of the acetabular roof has been reamed to vascularized bone.

The anterior and posterior acetabular roof must remain stable and solid.

The reaming process is completed when these conditions are met.

To obtain an implant bed being as symmetrical as possible and to avoid thermal necrosis, the final reaming should be performed manually. The reamer is inserted to a depth where its equator is entirely covered by bone; this does not apply to dysplastic acetabuli, for which an additional implant bed must be created.

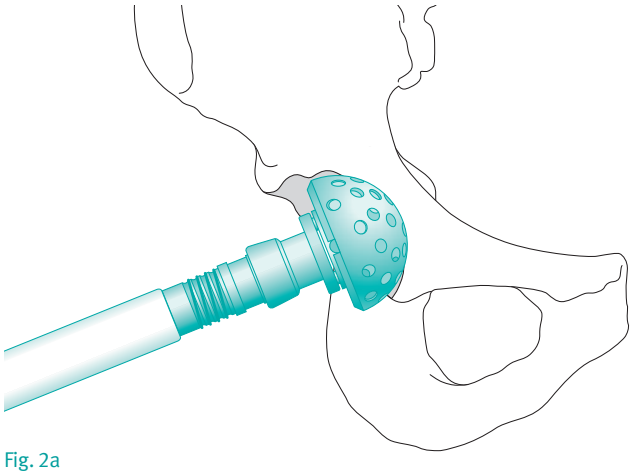


Fig. 2a

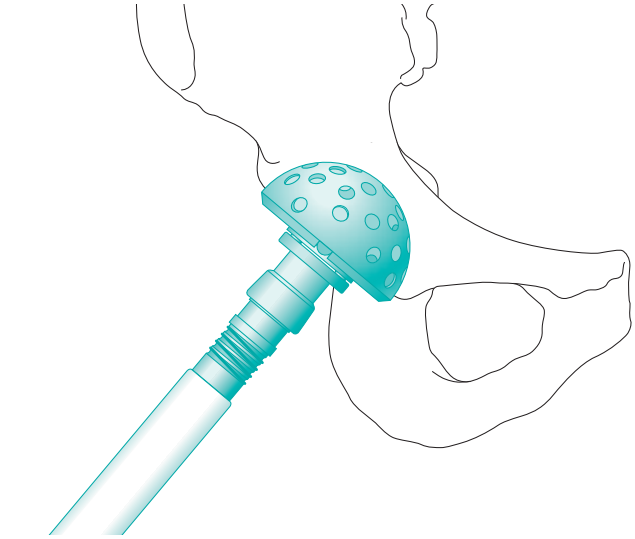


Fig. 2b

Cleaning the Reamer Handle

To clean the reamer handle, the white tissue protector is removed from the reamer handle. Then push the locking sleeve up and turn it to the right (Fig. 3a).

Next, pull the coupling apart (Fig. 3b). After cleaning, reassemble the locking sleeve in reverse order.

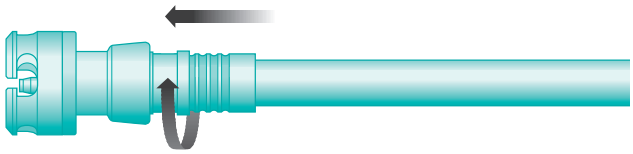


Fig. 3a

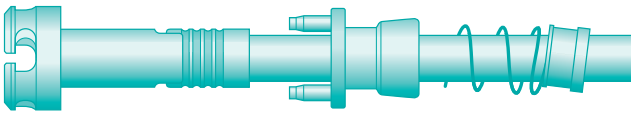


Fig. 3b

Selecting the Implant

After reaming, the trial shell is tapped in at 40°–45° inclination and 10°–15° anteversion and its stability is checked. Stability is carefully tested under pulling, tilting and rotating loads. The contact between the acetabular floor and trial shell can be verified with the control hook after unscrewing the setting instrument.

If the trial shell does not have a sufficient fixation base, the acetabulum must be adequately deepened with the last reamer used, after which the stability of the trial shell is checked again. If the trial shell is not seated firmly enough even with sufficient osseous enclosure, choose the next largest trial implant.

Caution: To protect the acetabulum, the trial shell is slightly larger (1 mm) than the reamer of the nominal size due to its lack of surface structure. The definitive implant is 2 mm larger, and will therefore fit even more tightly.

If there is an “onlay effect” despite this, perform an additional primary anchoring with at least two cancellous bone screws.

The trial shell can be removed by tipping out.

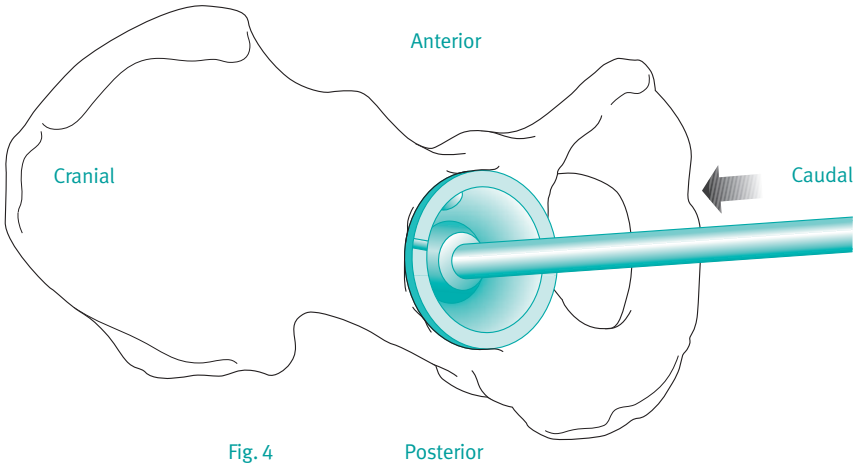


Fig. 4

Implanting the Titanium Shell Without Screw Holes (Allofit)

Important: The nominal size of the definitive shell must match the last reamer used; the excess of 2 mm has been taken into account. Oversizing and selection of a larger implant than prereamed is only advisable for soft bone, as the risk of pelvic fracture would be increased.

The titanium shell is completely screwed to the setting instrument and tapped in with 40°–45° inclination and 10°–15° anteversion (Fig. 5).

Any soft tissue which remains between the bone and the implant must be resected.

It is absolutely essential to align the shell before tapping in and maintain the selected setting direction.

The control hook is used to check whether the implant was driven to the acetabular floor. The shell must also maintain its stable seating under pulling, rotating and tipping loads.

If a trial reduction is planned with the trial insert, it is possible to fix the trial insert to the titanium shell using an attachment screw (Fig. 6).

The hole at the pole of the titanium shell is locked with the polar screw. This is set steadily on the placement instrument and screwed in accurately (Fig. 7). In addition to sealing the polar hole, the screw is also used for correct centering when fitting the cup insert.

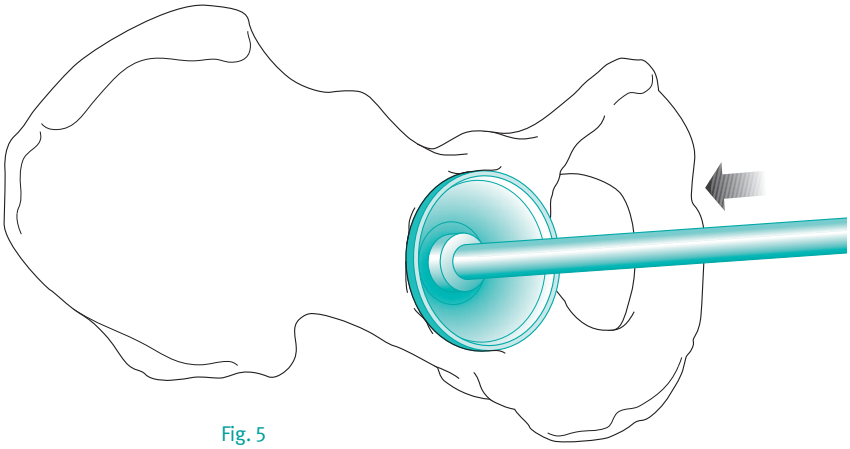


Fig. 5

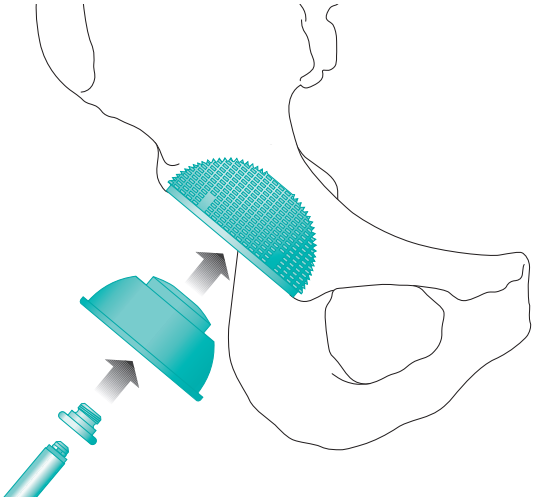


Fig. 6

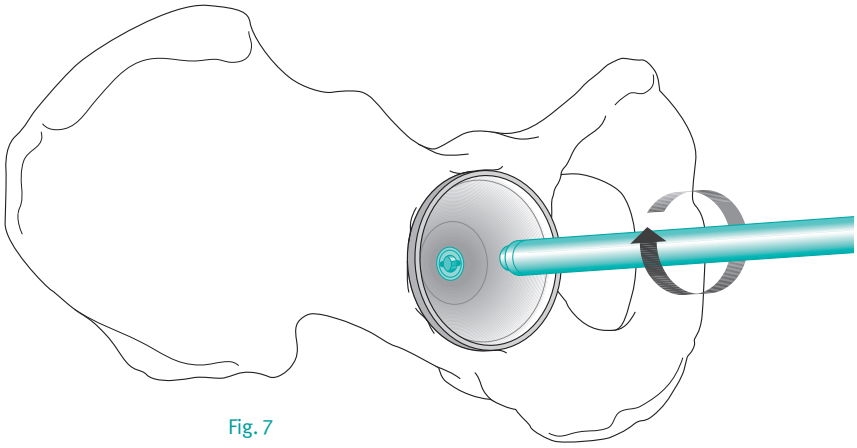


Fig. 7

Implanting the Titanium Shell With Screw Holes (Allofit-S)

Important: The nominal size of the definitive shell must match the last reamer used; the excess of 2 mm has been taken into account. Oversizing and selection of a larger implant than prereamed is only advisable for soft bone, as the risk of a pelvic fracture would be increased.

The titanium shell is completely screwed to the setting instrument and tapped in with 40°–45° inclination and 10°–15° anteversion (Fig. 8). Any soft tissue which remains between the bone and the implant must be resected. It is absolutely essential to align the cup correctly before tapping in, as its position cannot be changed after tapping in.

The *Allofit*-S cup has an orientation groove at the equator of the shell indicating the position of the screw holes in the shell. The holes must be placed correctly in the direction of the load transfer. A deviating orientation may not be biomechanically suitable and could lead to vascular and nerve lesions caused by the screws.

The control hook is used to check whether the implant was driven to the acetabular floor.

Where necessary, a trial reduction is performed with the trial insert during stem preparation or after implanting the stem (Fig. 9).

The hole at the pole of the titanium shell is locked with the polar screw. This is set steadily on the placement instrument and screwed in accurately (Fig. 10). In addition to sealing the polar hole, the screw is also used for correct centring when fitting the cup insert.

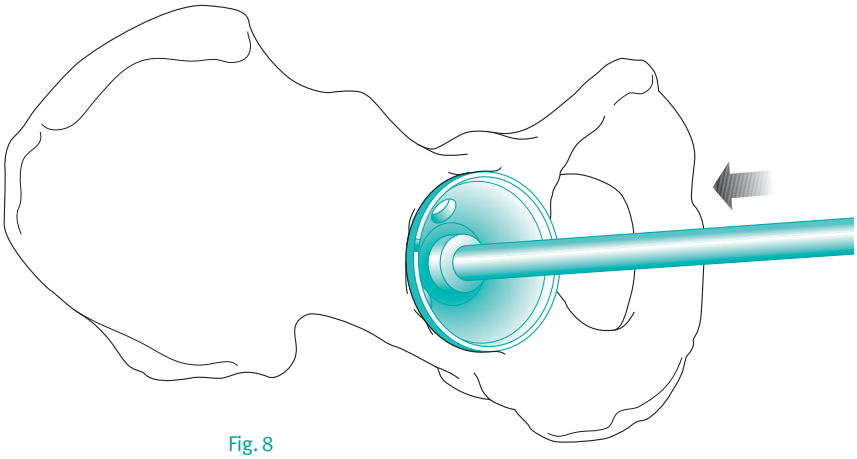


Fig. 8

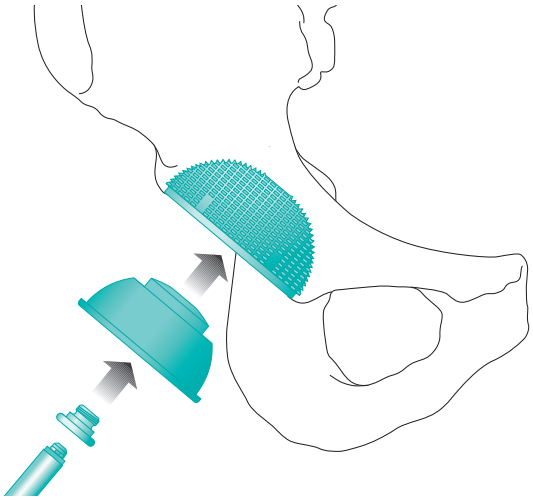


Fig. 9

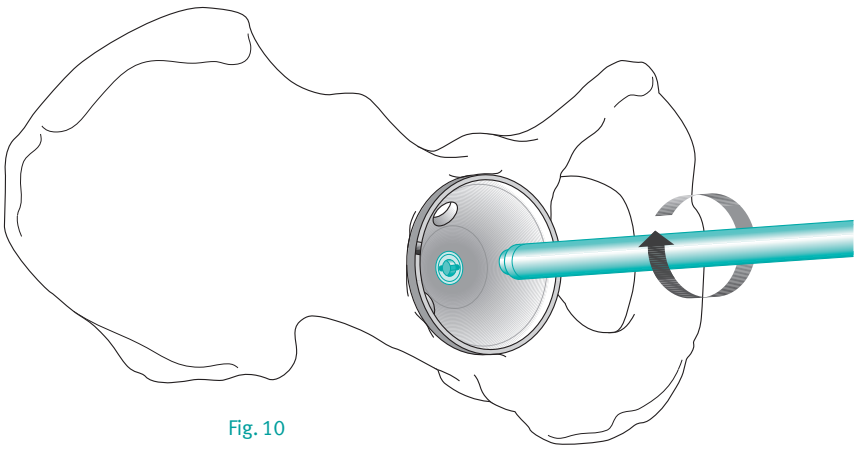


Fig. 10

Inserting the Screws (Allofit-S)

Zimmer 6.5 mm countersunk screws must be used. To simplify the initial insertion of the self-tapping cancellous bone screws, 3.2 mm holes are drilled into the subchondral bone (Fig. 11).

Tapping of the drill holes is recommended only in cases of sclerotic bone. This is used purely to break through the hard osseous parts. Since the screws are only to be anchored in cancellous bone, lengths of up to 30 mm are normally sufficient. The screws should not penetrate the opposite cortex. The geometry of the screw holes allows the screws in all cup sizes to be orientated within a range of around 10° in all directions (Fig. 12).

Caution: The specified Ti-6Al-4V screws have a lower shearing resistance than screws made of steel or CoCrMo alloys.

The screws must be screwed in fully. Projecting screw heads would make correct fitting of the cup insert impossible.

Unused screw holes in the titanium shell can be capped with a screw hole plug (Fig. 13). The plug is placed on the appropriate setting instrument and fixed in the screw hole of the titanium shell with a light tap. The screw hole plugs are intended for single use only and cannot be snapped into the shell more than once.

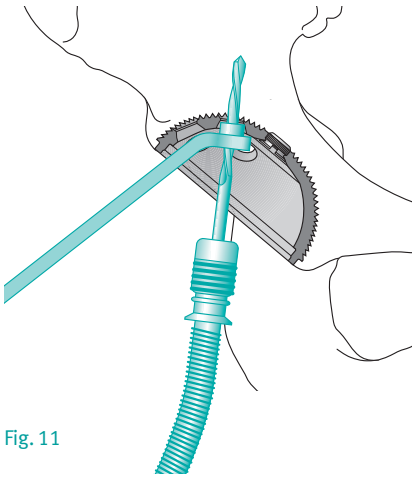


Fig. 11

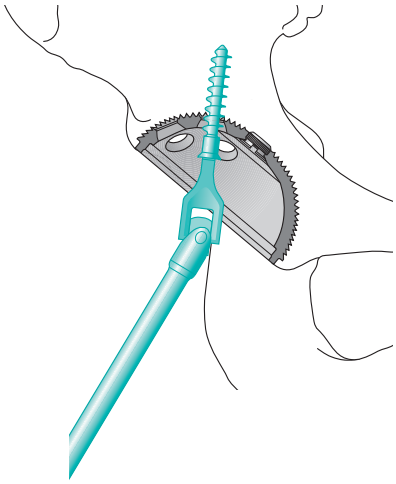


Fig. 12

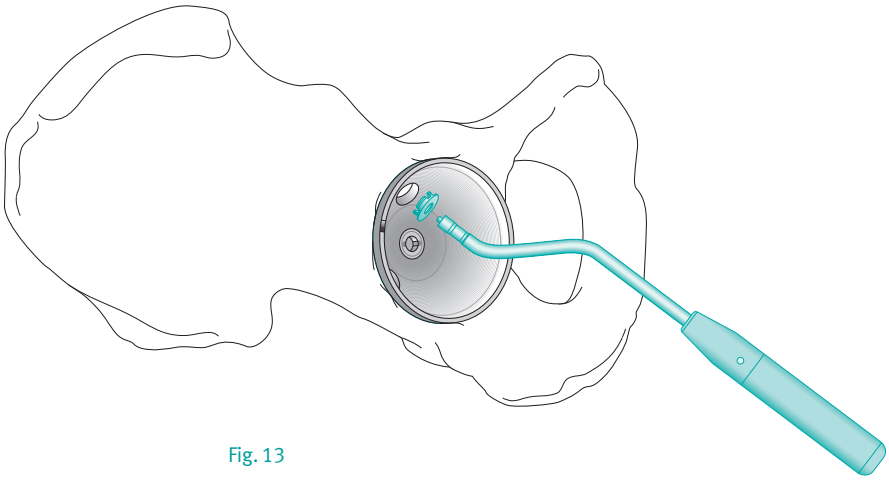


Fig. 13

Fitting the Cup Insert

After implanting the femoral component and the trial reduction, decide whether a neutral or hooded cup insert is to be used. The trial insert is then removed. The polar screw is fitted (Fig. 14). This must always be screwed in as the polar screw accepts the polyethylene peg of the liner into its hole, centring the insert.

Bone or soft tissue remnants must not overlap the edge of the titanium shell as they may prevent the insert from snapping into position. The shell edge must be free from any tissue and particular attention must be paid to the posterior inferior bony edge of the acetabulum.

The size of the cup inserts is indicated by a letter code. This code matches the size on the corresponding titanium shell.

The supplied insert is attached to the setting instrument, introduced into the cleaned shell, and is carefully centered. The polyethylene peg must be centred in the hole of the polar screw (Fig. 15).

To do this, use the setting instrument to position the insert at the entrance plane of the shell. In this position, the insert is turned clockwise using the setting instrument (Fig. 16). If it can easily be turned concentrically, it is only tapped lightly with a hammer.

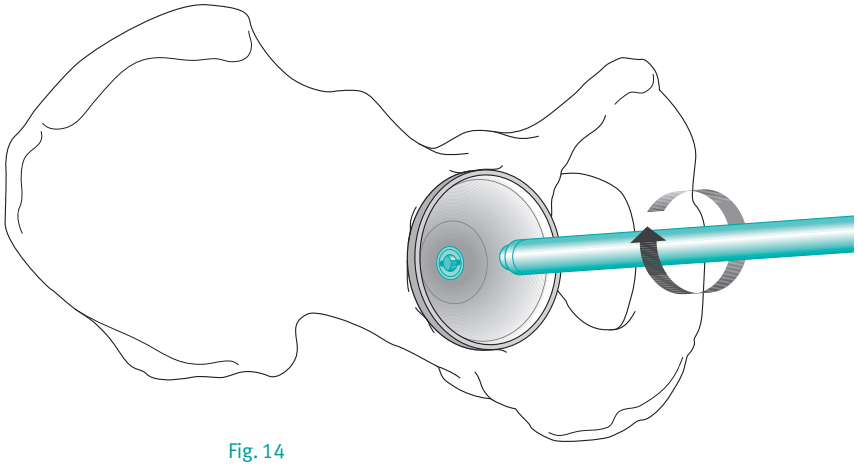


Fig. 14

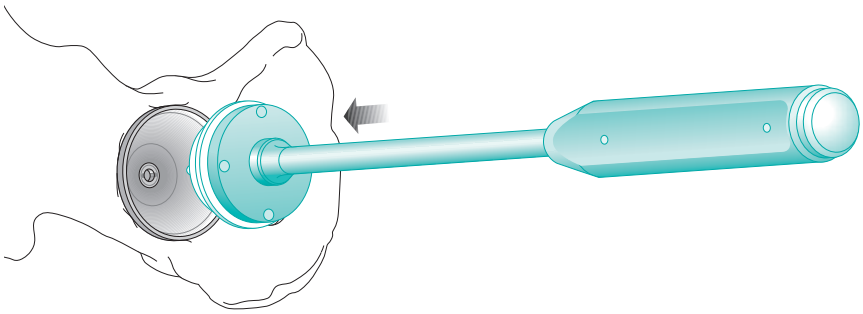


Fig. 15

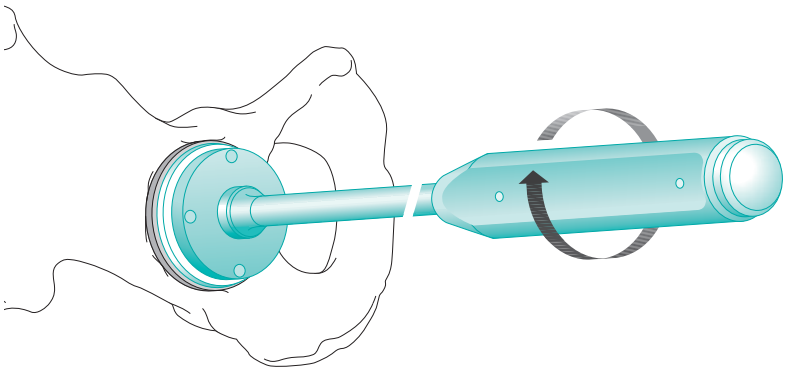


Fig. 16

If it can no longer be rotated with low torque, it sits concentrically and can be tapped in definitively (Fig. 17). If the insert can still be turned with low torque after tapping it lightly, this indicates nonconcentric positioning or soft tissues between insert and cup. After removing the soft tissue remnants and correctly positioning the insert, repeat the process (Fig. 16) until the insert cannot be turned after tapping it lightly. Only then it can be tapped in completely.

Where necessary, a tap plastic impactor provides confirmation that the connection is reliable.

If the insert has snapped into place correctly, the edge is protruding around 1.5 mm over the equator of the titanium shell (Fig. 18).

If unsure, the seating can be checked using a raspatory. If the fitting of the insert is faulty, a new insert must be used. If the polar peg is deformed, it will not be possible to anchor the insert correctly.

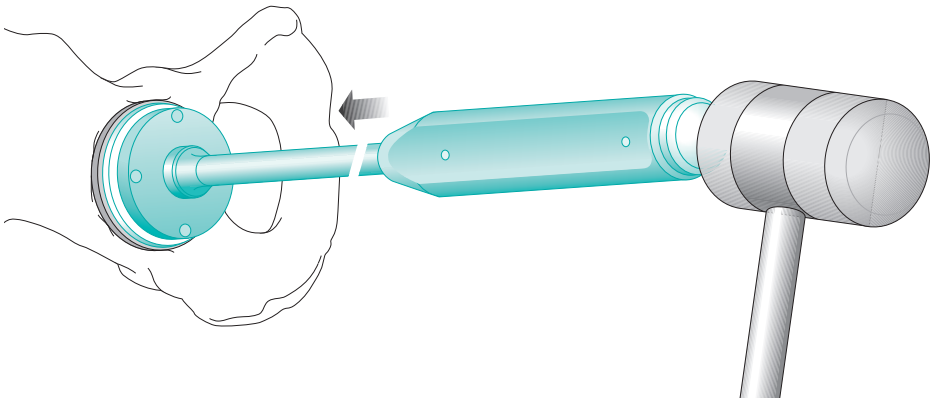


Fig. 17

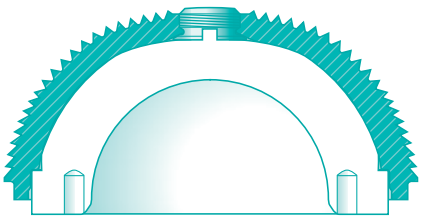


Fig. 18

Metasul and *Cerasul* inserts must be handled with special care; there must not be any damage to their metal or ceramic surface. *Metasul* inserts must only be combined with *Metasul* femoral heads, and *Cerasul* inserts with *Cerasul* or *BIOLOX® delta** femoral heads.

Changing the Cup Insert

If the removal of a firmly seated insert becomes necessary, the following approach is often successful: An AO type cancellous bone screw is inserted into the polyethylene insert after making a small pilot drill hole (Fig. 19). This is done centrally for polyethylene inserts if the PE insert is thick enough; otherwise decentrally between articulating surface and shell edge as with *Metasul* or *Cerasul* inserts. It is also possible to attempt to lever out the insert at the edge with an osteotome. The inside edge of the shell, where the locking mechanism for the insert is placed, must be protected if a new insert is to be fitted. If a new insert can no longer be reliably anchored in the old shell, the shell must be removed and replaced.

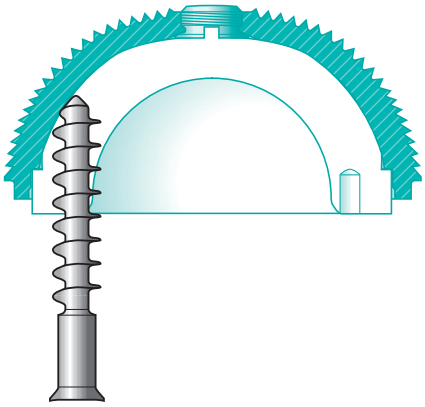


Fig. 19

* BIOLOX delta is a trademark of CeramTec AG.

Die *Allofit* Pfanne kann nur mit Alpha-Einsätzen kombiniert werden!
Die Kompatibilität zwischen Schalen und Einsätzen wird über die pfannenspezifischen Größenabstimmungen mittels Buchstabenzuordnung DD bis TT angegeben.

The *Allofit* cup shall only be used with Alpha inserts!
The compatibility between the shells and inserts is given by the specific letter codes DD to TT lasered on the respective implants.

Le cotyle *Allofit* ne doit etre utilisé qu'en combinaison avec des inserts Alpha!
La correspondance entre taille de cupule et d'insert est indiquée au moyen de lettres allant de DD à TT gravées sur la cupule et sur l'insert.

Metasul Einsätze dürfen nur mit *Metasul* Kugelköpfen kombiniert werden!
Cerasul Einsätze dürfen nur mit *Cerasul* oder *BIOLOX delta* Kugelköpfen kombiniert werden!

Metasul inlays are to be used only in combination with *Metasul* femoral heads!
Cerasul inlays are to be used only in combination with *Cerasul* or *BIOLOX delta* heads!

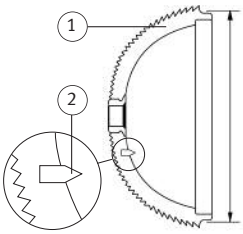
Les inserts en *Metasul* doivent être utilisés uniquement en combinaison avec des têtes sphériques *Metasul!*
Les inserts en *Cerasul* doivent être utilisés uniquement en combinaison avec des têtes sphériques *Cerasul ou BIOLOX delta!*

Allofit® Implants

Allofit® Schale
Allofit® Shell
Cupule Allofit®

1) Protasul®-Ti uncemented
2) Protasul®-10

STERILE R

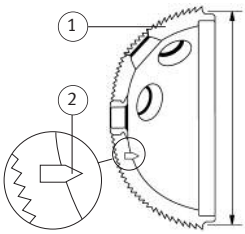


Größe/Size/Taille**	REF
42/DD	4240*
44/EE	4241*
46/FF	4242
48/GG	4243
50/HH	4244
52/II	4245
54/JJ	4246
56/KK	4247
58/LL	4248
60/MM	4249
62/NN	4250
64/OO	4251

Allofit®-S Schale
Allofit®-S Shell
Cupule Allofit®-S

1) Protasul®-Ti uncemented
2) Protasul®-10

STERILE R



Größe/Size/Taille**	REF
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46/FF	4262
48/GG	4263
50/HH	4264
52/II	4265
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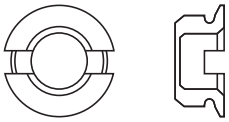
56/KK	4267
58/LL	4268
60/MM	4269
62/NN	4270
64/OO	4271
66/PP	4272
68/QU	4273
70/RR	4274*
72/SS	4275*
74/TT	4276*

Polverschluss M8
Pole plug M8
Obturateur polaire M8

Protasul®-Ti

STERILE R



Quantity	REF
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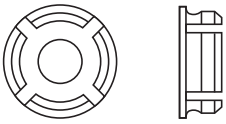
Schraubenlochverschluss
Screw hole plug
Obturateur des trous de vis

Protasul®-Ti

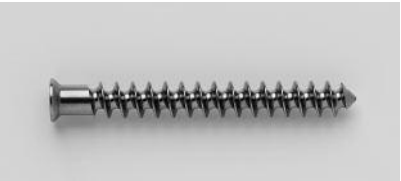


	Quantity	REF
not sterile	7	4279
sterile	7	01.00004.001

* Auf Anfrage
* On request
* Sur demande

** Buchstabencodes referenzieren die korrekte Größe des Alpha-Einsatzes.
** Letter code references indicate the correct Alpha insert size.
** Codes de lettre référencent la taille correcte de l'insert Alpha.

Cancellous Bone Screws



Senkkopf-Spongiosaschraube
Countersunk Cancellous Bone Screw
Vis à spongieux à tête noyée

∅ 6.5 mm
Protasul®-64WF

not sterile

Length	REF
15 mm	4301-07-015
20 mm	4301-07-020
25 mm	4301-07-025
30 mm	4301-07-030
35 mm	4301-07-035
40 mm	4301-07-040
45 mm	4301-07-045
50 mm	4301-07-050
55 mm	4301-07-055
60 mm	4301-07-060
70 mm	4301-07-070*
80 mm	4301-07-080*

Senkkopf-Spongiosaschraube
Countersunk Cancellous Bone Screw
Vis à spongieux à tête noyée

∅ 6.5 mm
Tivanium®

STERILE R

Length	REF
15 mm	00-6250-065-15
20 mm	00-6250-065-20
25 mm	00-6250-065-25
30 mm	00-6250-065-30
35 mm	00-6250-065-35
40 mm	00-6250-065-40
50 mm	00-6250-065-50
60 mm	00-6250-065-60
70 mm	00-6250-065-70*
80 mm	00-6250-065-80*

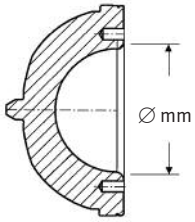
* Auf Anfrage
* On request
* Sur demande

Sulene® Alpha Inserts

Sulene® PE Alpha-Einsatz
Sulene® PE Alpha Insert
Alpha insert Sulene® PE

Sulene® PE
uncemented

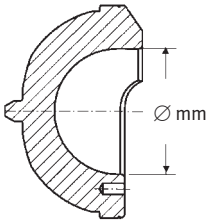
STERILE R



Sulene® PE Alpha-Einsatz überhöht
Sulene® PE Alpha Insert hooded
Alpha insert Sulene® PE avec rebord

Sulene® PE
uncemented

STERILE R

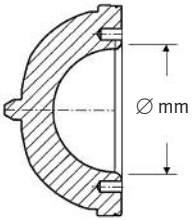


Größe/Size/Taille	∅ mm	REF	Größe/Size/Taille	∅ mm	REF	Größe/Size/Taille	∅ mm	REF
			DD	22	01.00010.104			
			EE	22	01.00010.105			
			FF	22	01.00010.106			
			GG	22	01.00010.107			
			HH	22	01.00010.108			
FF	28	01.00010.206	FF	28	01.00010.306			
GG	28	01.00010.207	GG	28	01.00010.307			
HH	28	01.00010.208	HH	28	01.00010.308			
II	28	01.00010.209	II	28	01.00010.309	II	32	01.00010.809
JJ	28	01.00010.210	JJ	28	01.00010.310	JJ	32	01.00010.810
KK	28	01.00010.211	KK	28	01.00010.311	KK	32	01.00010.811
LL	28	01.00010.212	LL	28	01.00010.312	LL	32	01.00010.812
MM	28	01.00010.213	MM	28	01.00010.313	MM	32	01.00010.813
NN	28	01.00010.214	NN	28	01.00010.314	NN	32	01.00010.814
OO	28	01.00010.215	OO	28	01.00010.315	OO	32	01.00010.815
PP	28	01.00010.216	PP	28	01.00010.316	PP	32	01.00010.816
QU	28	01.00010.217	QU	28	01.00010.317	QU	32	01.00010.817

Durasul® Alpha Inserts

Durasul® PE Alpha-Einsatz
Durasul® PE Alpha Insert
Alpha insert Durasul® PE

Durasul® PE
uncemented



STERILE R

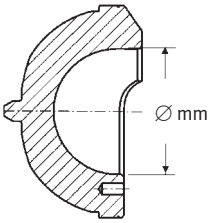
Größe/Size/Taille	∅ mm	REF	Größe/Size/Taille	∅ mm	REF	Größe/Size/Taille	∅ mm	REF
DD	22	01.00013.004*						
EE	28	01.00013.205*						
FF	28	01.00013.206						
GG	28	01.00013.207	GG	32	01.00013.407			
HH	28	01.00013.208	HH	32	01.00013.408			
II	28	01.00013.209	II	32	01.00013.409	II	36	01.00013.709
JJ	28	01.00013.210	JJ	32	01.00013.410	JJ	36	01.00013.710
KK	28	01.00013.211	KK	32	01.00013.411	KK	36	01.00013.711
LL	28	01.00013.212	LL	32	01.00013.412	LL	36	01.00013.712
MM	28	01.00013.213	MM	32	01.00013.413	MM	36	01.00013.713
NN	28	01.00013.214	NN	32	01.00013.414	NN	36	01.00013.714
OO	28	01.00013.215	OO	32	01.00013.415	OO	36	01.00013.715
PP	28	01.00013.216	PP	32	01.00013.416	PP	36	01.00013.716
QU	28	01.00013.217	QU	32	01.00013.417	QU	36	01.00013.717
RR	28	01.00013.218*	RR	32	01.00013.418*	RR	36	01.00013.718*
SS	28	01.00013.219*	SS	32	01.00013.419*	SS	36	01.00013.719*
TT	28	01.00013.220*	TT	32	01.00013.420*	TT	36	01.00013.720*

* Auf Anfrage
* On request
* Sur demande

Durasul® Alpha Inserts

Durasul® PE Alpha-Einsatz überhöht
Durasul® PE Alpha Insert hooded
Alpha insert Durasul® PE avec rebord

Durasul® PE
uncemented



STERILE R

Größe/Size/Taille	∅ mm	REF	Größe/Size/Taille	∅ mm	REF
DD	22	01.00013.104*			
EE	28	01.00013.305*			
FF	28	01.00013.306			
GG	28	01.00013.307			
HH	28	01.00013.308	HH	32	01.00013.508
II	28	01.00013.309	II	32	01.00013.509
JJ	28	01.00013.310	JJ	32	01.00013.510
KK	28	01.00013.311	KK	32	01.00013.511
LL	28	01.00013.312	LL	32	01.00013.512
MM	28	01.00013.313	MM	32	01.00013.513
NN	28	01.00013.314	NN	32	01.00013.514
OO	28	01.00013.315	OO	32	01.00013.515
PP	28	01.00013.316	PP	32	01.00013.516
QU	28	01.00013.317	QU	32	01.00013.517
RR	28	01.00013.318*	RR	32	01.00013.518*
SS	28	01.00013.319*	SS	32	01.00013.519*
TT	28	01.00013.320*	TT	32	01.00013.520*

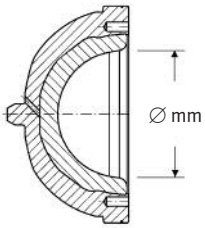
* Auf Anfrage
* On request
* Sur demande

Cerasul® Alpha Inserts

Cerasul® Alpha-Einsatz
Cerasul® Alpha Insert
Alpha insert Cerasul®

Sulene® PE/
Cerasul®
uncemented

STERILE R



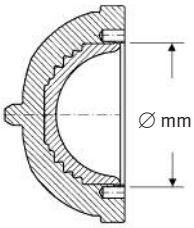
Größe/Size/Taille	∅ mm	REF
II	28	01.00010.609**
JJ	28	01.00010.610**
KK	28	01.00010.611**
LL	28	01.00010.612**
MM	28	01.00010.613**
NN	28	01.00010.614**
OO	28	01.00010.615**
PP	28	01.00010.616**
QU	28	01.00010.617**

Metasul® Alpha Inserts

Metasul® Alpha-Einsatz
Metasul® Alpha Insert
Alpha insert Metasul®

Sulene® PE/
Protasul® 21WF
uncemented

STERILE R

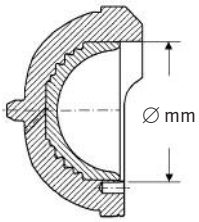


Größe/Size/Taille	∅ mm	REF
GG	28	01.00010.407**
HH	28	01.00010.408**
II	28	01.00010.409**
JJ	28	01.00010.410**
KK	28	01.00010.411**
LL	28	01.00010.412**
MM	28	01.00010.413**
NN	28	01.00010.414**
OO	28	01.00010.415**
PP	28	01.00010.416**
QU	28	01.00010.417**
II	32	01.00010.709**
JJ	32	01.00010.710**
KK	32	01.00010.711**
LL	32	01.00010.712**
MM	32	01.00010.713**
NN	32	01.00010.714**
OO	32	01.00010.715**
PP	32	01.00010.716**
QU	32	01.00010.717**

Metasul® Alpha-Einsatz, überhöht
Metasul® Alpha Insert, hooded
Alpha insert Metasul® avec rebord

Sulene® PE/
Protasul® 21WF
uncemented

STERILE R



Größe/Size/Taille	∅ mm	REF
GG	28	01.00010.507**
HH	28	01.00010.508**
II	28	01.00010.509**
JJ	28	01.00010.510**
KK	28	01.00010.511**
LL	28	01.00010.512**
MM	28	01.00010.513**
NN	28	01.00010.514**
OO	28	01.00010.515**
PP	28	01.00010.516**
QU	28	01.00010.517**
II	32	01.00010.909**
JJ	32	01.00010.910**
KK	32	01.00010.911**
LL	32	01.00010.912**
MM	32	01.00010.913**
NN	32	01.00010.914**
OO	32	01.00010.915**
PP	32	01.00010.916**
QU	32	01.00010.917

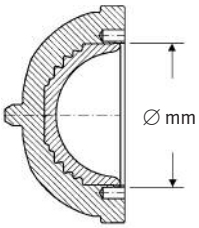
** Not available for distribution in the US.

Metasul® Alpha Inserts

Metasul® Alpha-Einsatz
Metasul® Alpha Insert
Alpha insert Metasul®

Sulene® PE/
Protasul® 21WF
uncemented

STERILE R

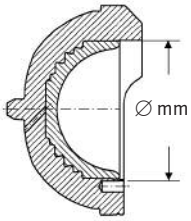


Größe/Size/Taille	∅ mm	REF
GG	28	01.00016.407**
HH	28	01.00016.408**
II	28	01.00016.409**
JJ	28	01.00016.410**
KK	28	01.00016.411**
LL	28	01.00016.412**
MM	28	01.00016.413**
NN	28	01.00016.414**
OO	28	01.00016.415**
PP	28	01.00016.416**
QU	28	01.00016.417**
II	32	01.00016.709**
JJ	32	01.00016.710**
KK	32	01.00016.711**
LL	32	01.00016.712**
MM	32	01.00016.713**
NN	32	01.00016.714**
OO	32	01.00016.715**
PP	32	01.00016.716**
QU	32	01.00016.717

Metasul® Alpha-Einsatz, überhöht
Metasul® Alpha Insert, hooded
Alpha insert Metasul® avec rebord

Sulene® PE/
Protasul® 21WF
uncemented

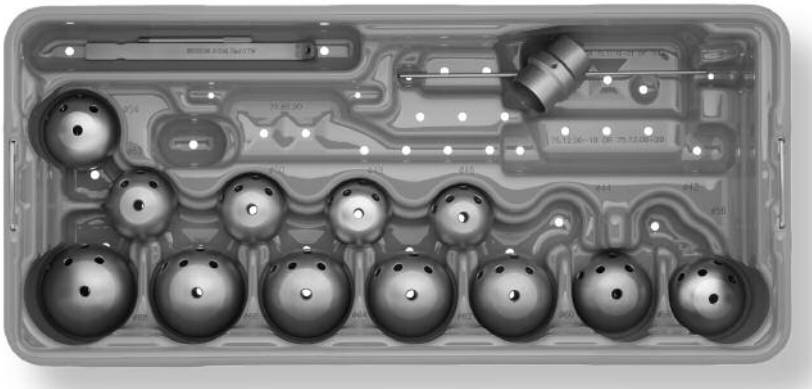
STERILE R



Größe/Size/Taille	∅ mm	REF
GG	28	01.00016.507**
HH	28	01.00016.508**
II	28	01.00016.509**
JJ	28	01.00016.510**
KK	28	01.00016.511**
LL	28	01.00016.512**
MM	28	01.00016.513**
NN	28	01.00016.514**
OO	28	01.00016.515**
PP	28	01.00016.516**
QU	28	01.00016.517**
II	32	01.00016.909**
JJ	32	01.00016.910**
KK	32	01.00016.911**
LL	32	01.00016.912**
MM	32	01.00016.913**
NN	32	01.00016.914**
OO	32	01.00016.915**
PP	32	01.00016.916**
QU	32	01.00016.917**

** Available for distribution in the US only.

Allofit® Instruments



Alpha-Sieb (leer)
Alpha tray (empty)
Plateau Alpha (vide)
REF
01.00019.101

Einsatz zu Alpha-Sieb (leer)
Insert to Alpha tray (empty)
Alpha plateau supérieur (vide)
REF
01.00019.102

Siebdeckel
Tray cover
Couvercle pour plateau
REF
01.00029.031

Sieb für Grössen 70–74 mm
Tray for sizes 70–74 mm
Plateau pour cotyles 70–74 mm
REF
00-6000-005-00

Siebdeckel
Tray cover
Couvercle pour plateau
REF
00-5900-099-00

All instruments not sterile

Setzinstrument für Titanschale
Impactor for titanium shell
Impacteur pour cupule titane

REF
8638

Zielgerät
Positioning guide
Guide de positionnement

REF
7843

Lochverschluss-Setzinstrument
Setting instrument for screw plug
Positionneur pour obturateur des trous de vis

REF
8639

Pfannenmesskörper
Cup measuring instruments
Cotyle de mesure

∅ mm	REF
42	01.00469.042*
44	01.00469.044*
46	8609
46	8610
50	8611
52	8612
54	8613
56	8614
58	8615
60	8616
62	8617
64	8618
66	8619
68	8620
70	01.00469.070*
72	01.00469.072*
74	01.00469.074*

Messhaken
Control hook
Sonde de contrôle

REF
5633

Setzinstrument Alpha, gebogen, Schraubkupplung
Setting instrument for insert Alpha, curved, screw coupling
Positionneur pour insert Alpha, plat courbé, raccord fileté

REF
01.00019.004*

Polverschluss-Setzinstrument
Setting instrument for pole plug
Positionneur pour obturateur polaire

REF
01.00009.001

Setzinstrument Alpha, gerade Schraubkupplung
Setting instrument for insert Alpha, straight, screw coupling
Positionneur pour insert Alpha, droit raccord fileté

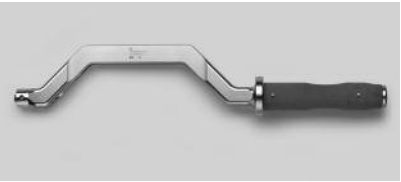
REF
01.00019.005

* Auf Anfrage
* On request
* Sur demande

All instruments not sterile

Schraubendreher für MIS Instrumente
Screwdriver for MIS Instruments
Tournevis pour instruments MIS

REF
01.00502.004*



MIS Allofit® Offset-Einschläger
MIS Allofit® Offset impactor
Impacteur MIS à offset Allofit®

REF
01.00502.005*

MIS Polverschluss-Setzinstrument
MIS setting instrument for pole plug
Positionneur MIS pour obturateur polaire

REF
01.00502.007*

Alpha-Aufsatz neutral
Alpha top neutral
Porte-noyau neutre Alpha

Durasul® 22 mm
REF
01.00019.105*

Durasul® EE/28 mm
REF
01.00019.115*

PE, Metasul®, Durasul® 28 mm
REF
01.00019.107

Cerasul® 28 mm, Metasul® 32 mm
REF
01.00019.108

PE, Durasul® 32 mm
REF
01.00019.112

Durasul® 36 mm
REF
01.00019.114

Alpha-Aufsatz überhöht
Alpha top with rim
Porte-noyau avec rebord Alpha

PE, Durasul® 22 mm
REF
01.00019.106*

Durasul® EE/28 mm
REF
01.00019.116*

PE, Durasul®, Metasul® 28 mm
REF
01.00019.109

PE, Durasul®, Metasul® 32 mm
REF
01.00019.110

Nachschlagaufsatz
Impactor
Impacteur

flach/flat/plat

∅ mm	REF
22	840.6022*
28	840.6023
32	840.6024
36	01.00209.114

überhöht/hooded/surélevé

∅ mm	REF
22	01.00209.106*
28	840.6032
32	840.6033

* Auf Anfrage
* On request
* Sur demande

All instruments not sterile

Instruments for Spherical Reamers

Sieb für sphärische Fräser (leer)
Tray for spherical reamers (empty)
Plateau pour fraises sphériques (vide)

REF
01.00209.400

Siebdeckel
Tray cover
Couvercle pour plateau

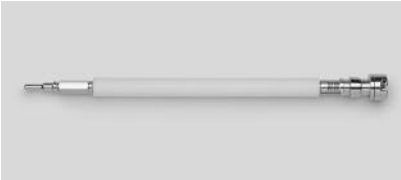
REF
01.00029.031

Adapter AO-3-Backenfutter
Adapter AO-3 jaw chuck
Adaptateur AO-3 mandrin

REF
5637*

Adapter AO-Zimmer-Hudson
Adapter AO-Zimmer-Hudson
Adaptateur AO-Zimmer-Hudson

REF
840.5015*



Antriebswelle für 4-Steg-Fräser, EZ clean, lang
Drive shaft for 4-strut reamers, EZ clean, long
Axe d'entraînement pour la fraise à 4 branches, EZ clean, long

Größe/Size/Taille	REF
360 mm	01.00209.402

Antriebswelle für 4-Steg-Fräser, EZ clean, kurz
Drive shaft for 4-strut reamers, EZ clean, short
Axe d'entraînement pour la fraise à 4 branches, EZ clean, court

Größe/Size/Taille	REF
260 mm	01.00209.401*

4-Steg-Raffelfräser sphärisch
4-strut spherical reamer
Fraise sphérique à 4 branches

∅ mm	REF
36	01.00209.436*
38	01.00209.438*
40	01.00209.440
42	01.00209.442
44	01.00209.444
46	01.00209.446
48	01.00209.448
50	01.00209.450
52	01.00209.452
54	01.00209.454
56	01.00209.456
58	01.00209.458
60	01.00209.460
62	01.00209.462
64	01.00209.464
66	01.00209.466
68	01.00209.468
70	01.00209.470*
72	01.00209.472*
74	01.00209.474*

* Auf Anfrage
* On request
* Sur demande

All instruments not sterile

Instruments for Trial Inserts

Alpha-Sieb für Manipuliereinsätze (leer)
Alpha tray for trial inserts (empty)
Plateau Alpha pour inserts de manipulation (vide)

REF
01.00019.300

Siebdeckel
Tray cover
Couvercle pour plateau

REF
01.00029.031

Befestigungsschraube
Fixation screw
Vis de fixation

Größe Size Taille	REF
M8	8635

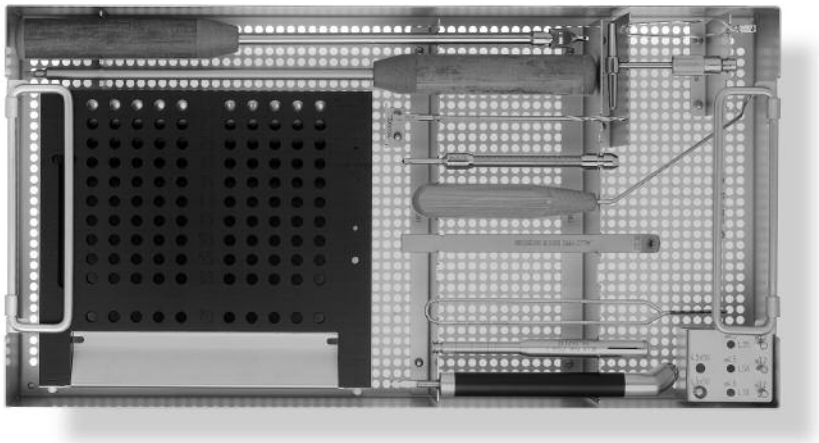
Manipuliereinsatz
Trial insert
Insert de manipulation

Größe Size Taille	∅ mm	REF	Größe Size Taille	∅ mm	REF	Größe Size Taille	∅ mm	REF
DD	22	8645*						
EE	28	01.00019.211*						
FF	28	8623						
GG	28	8624	GG	32	01.00019.230			
HH	28	8625	HH	32	01.00019.231			
II	28	8626	II	32	01.00019.232	II	36	01.00019.250
JJ	28	8627	JJ	32	01.00019.233	JJ	36	01.00019.251
KK	28	8628	KK	32	01.00019.234	KK	36	01.00019.252
LL	28	8629	LL	32	01.00019.235	LL	36	01.00019.253
MM	28	8630	MM	32	01.00019.236	MM	36	01.00019.254
NN	28	8631	NN	32	01.00019.237	NN	36	01.00019.255
OO	28	8632	OO	32	01.00019.238	OO	36	01.00019.256
PP	28	8633	PP	32	01.00019.239	PP	36	01.00019.257
QU	28	8634	QU	32	01.00019.240	QU	36	01.00019.258
RR	28	01.00019.224*	RR	32	01.00019.241*	RR	36	01.00019.259*
SS	28	01.00019.225*	SS	32	01.00019.242*	SS	36	01.00019.260*
TT	28	01.00019.226*	TT	32	01.00019.243*	TT	36	01.00019.261*

* Auf Anfrage
* On request
* Sur demande

All instruments not sterile

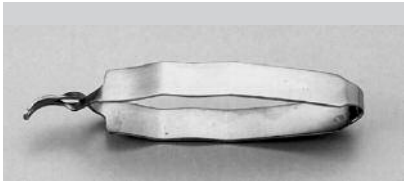
Instruments for Cancellous Bone Screws



Sieb für Knochenschrauben (leer)
Tray for cancellous bone screws (empty)
Plateau pour vis à spongieux (vide)
REF
5901

Schraubenträger
Screw compartment
Porte-vis
REF
5911

Siebdeckel
Tray cover
Couvercle pour plateau
REF
7139



Schraubenpinzette
Screw forceps
Brucelles pour vis
REF
100.90.005

Kardanschraubenzieher 3,5 mm
Cardan hex screwdriver 3.5 mm
Tournevis à cardan 3,5 mm
REF
7798

Bohrlehre ∅ 3,2 mm, gerade
Drill guide ∅ 3.2 mm, straight
Guide-mèches ∅ 3,2 mm, droite
REF
5913

Schraubenzieher gerade 3,5 mm
Screwdriver straight 3.5 mm
Tournevis droit 3,5 mm
REF
5912*

Flex-Welle
Flexible shaft
Tige flexible
REF
75.80.04

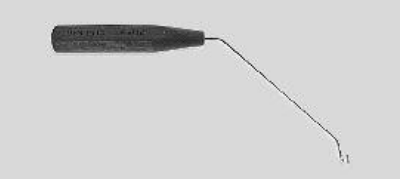
All instruments not sterile

Winkelgetriebe
Angular gear
Renvoi d'angle

	REF
	7799*

Gewindeschneider
Tap
Taraud

Größe/Size/Taille*	REF
6.5 × 50	5908



Zentrierhaken
Guiding hook
Crochet de centrage

	REF
	5174

Spiralbohrer
Drill bit
Mèche

Größe/Size/Taille	REF
3.2 × 35	5902
3.2 × 56	5903
3.2 × 70	5904
3.2 × 145	103.32.145

Tiefenmessinstrument
Depth gauge
Jauge de profondeur

	REF
	7936

T-Griff
T handle
Poignée en T

	REF
	100.90.210

Schraubenmessgerät
Gauge for screws
Jauge de longueur pour vis

	REF
	75.80.15*

* Auf Anfrage
* On request
* Sur demande

All instruments not sterile

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