

Conversion in a blink



AGILON®

Design Rationale

Table of contents

Introduction.....	2
Metaphyseal components.....	4
Extension pieces	4
Screws	4
Stems	5
Anatomic cap options	6
CTA caps	7
Cemented glenoids.....	7
Cementless glenoids	8
Cancellous screws.....	8
PE-Inserts.....	9
Glenospheres	9
Patient specific instruments (PSI).....	9
Inverse caps	10
Retentive inverse caps	10
AGILON® MI	10
Materials	12
Ceramic TiN-coating	13
Implants	14
Instruments.....	18
Container overview.....	21



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Introduction

implantcast GmbH was incorporated in 1988 and we specialize in the development and production of orthopaedic implants - specifically our core competences lie in the manufacturing of joint replacement and customised implant systems.

To ensure the highest possible quality and technical standards we constantly invest in our German facility as well as our employees and partners world-wide as we consider these key elements to the fundamental pillars of our company's success.



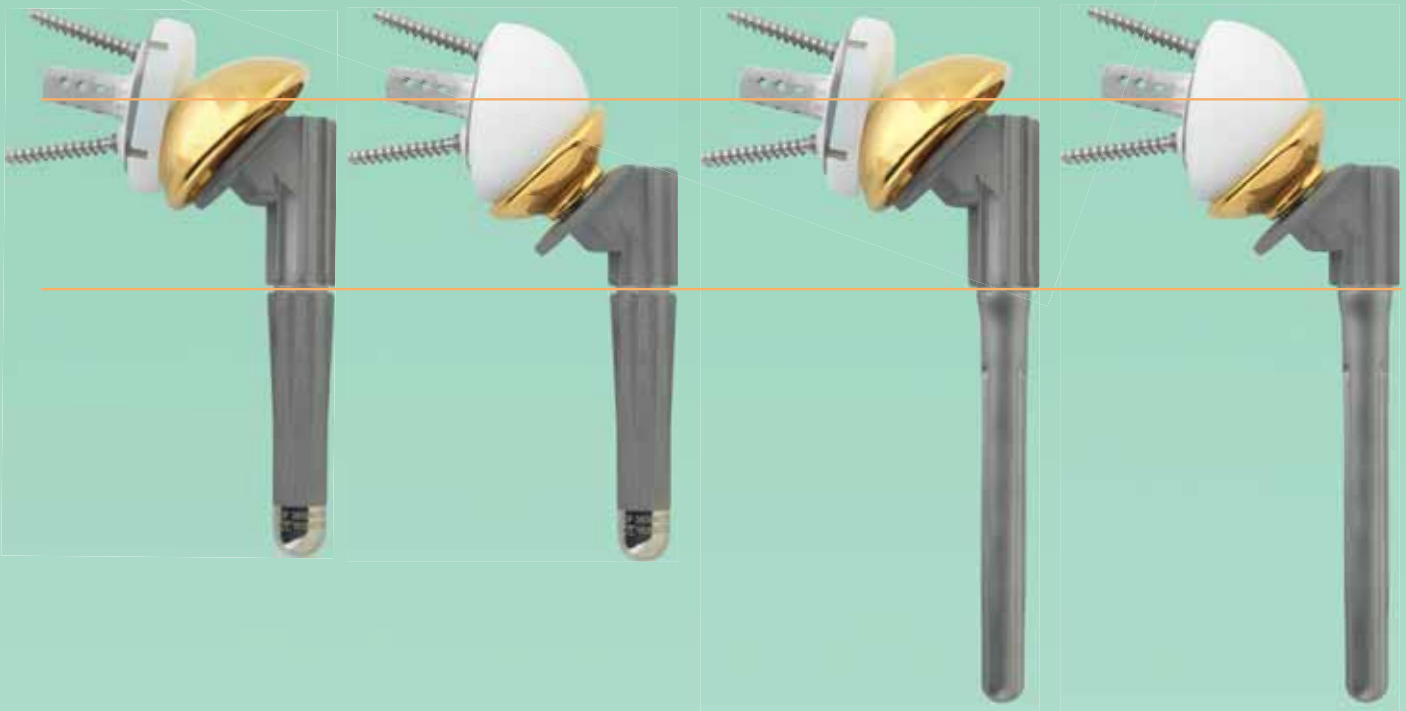
The first version of the modular AGILON® shoulder system came to market in 2005 and was originally designed to treat four-part humeral fractures. However, over the years the modularity of system has been extended to allow the treatment of arthritic joints. The latest addition to the range is the stemless humeral implant which (whether combined with our various glenoid options or not) provides the surgeon with a complete shoulder arthroplasty offering.

The modular options of the AGILON® system have been designed to give surgeons the freedom to treat trauma or arthritis via anatomic or inverse geometry devices with features that enable seamless intra-operative switching between treatment types to better meet the needs of each individual patient. Thus the revision of an anatomic primary to an inverse geometry option is simplified greatly since the stem and modular glenoid can be left in-situ to reduce surgery time and to preserve bone stock as only the articulating components need to be changed - **Conversion in a blink.**

Additionally if an extension piece or the long metaphyseal component has been used previously the same reconstruction length can be retained. Plus extension pieces can be used to fine tune soft tissue tension in order to optimize stability of well-fixed devices.

The humeral construct is a combination of a diaphyseal stem for intramedullary alignment, a metaphyseal component and an optional extension piece all of which are held together by M6 screws as well as by a safety screw. The components feature a serration connection to enable rotation to be fine tuned in 10 degree steps before a cap (anatomic or inverse) is fitted.

Conversion in a blink



stemmed omarthrosis options



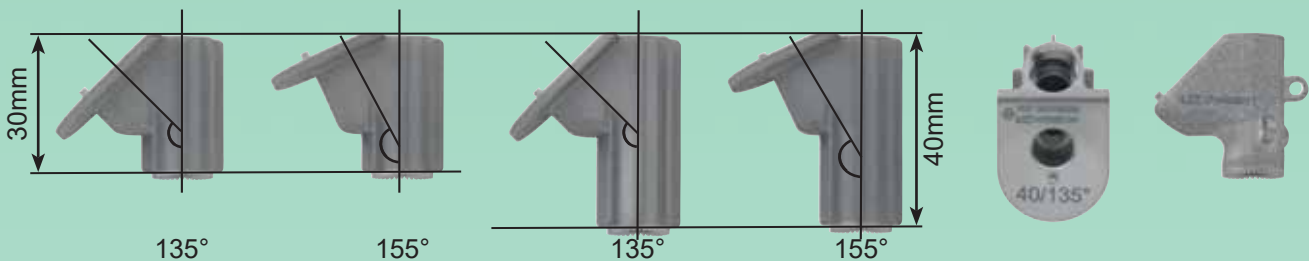
trauma options

Metaphyseal components

The AGILON® shoulder system follows a logical modular approach so that the surgeon can optimize implant-patient fit intra-operatively in a stepwise manner as an array of possibilities is available at each stage. There are six implan® (TiAl₆V₄) metaphyseal components altogether (i.e. four omarthrosis versions in two lengths of 30mm or 40mm and two CCD angles of 135° or 155° plus two 30mm long trauma options which also come with CCD angles of 135° or 155°). As this choice is made just prior to closing the fine-tuning of rotation (relative to the diaphyseal elements via the stable 10° spur gearing connection) as well as CCD angle can be utilized to great effect.

The trauma components have been kept very slim to facilitate reconstruction after fracture and offer three eyelets for fixation of the tuberosities. The porous surface is smoothed in certain strategic areas to minimize damage to the suture materials due to micro motion.

Cementless stems are used more frequently than cemented stems in the absence of trauma hence the arthritis metaphyseal components have been designed with cementless fixation in mind. They feature longitudinal fins for increased rotational stability and are generally implanted pre-assembled with their diaphyseal counterparts to enhance press fit. The components are equipped with a collar to ensure better fit and to minimize subsidence. It is recommended that a 40mm long metaphyseal component is used for primary anatomical reconstruction as this can be replaced by a 30mm option very easily should conversion / revision to an inverse be necessary.



Extension pieces

Optional implan® (TiAl₆V₄) extension pieces can be used to adjust length. The improved connection has significantly reduced the stress on the M6 screws that hold the construct together. They are available in five lengths:

- 7,5mm
- 10mm
- 12,5mm
- 15mm
- 17,5mm



*It is highly recommended to use a 10mm extension piece in combination with the trauma metaphyseal component in anatomic cases.

Screws

The modular humeral components are first assembled then combined via a M6 screw of the appropriate length. The tables opposite show which of the six available screw lengths should be used. A safety screw is then applied to counter the M6 screw.



long metaphyseal component

extension piece	screw length
none	32,5mm
7,5mm	40mm

short and trauma metaphyseal component

extension piece	screw length
none	22,5mm
7,5mm	30mm
10mm	32,5mm
12,5mm	35mm
15mm	37,5mm
17,5mm	40mm

Stems

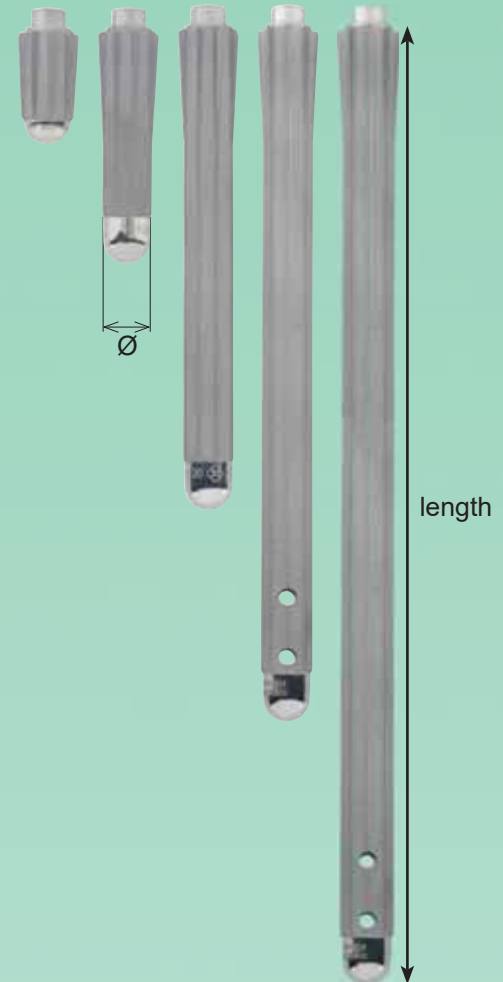
AGILON® is available with cementless as well as cemented stems. Both variants are fully compatible with all metaphyseal components and extension pieces. For patients with a sensitivity to nickel, chromium or cobalt TiN-coated cemented stems are available on special request.

Cementless stems

AGILON® cementless stems are made of implatan® (TiAl₆V₄) forged titanium alloy and feature a conical fin design giving excellent longitudinal and rotational stability. A variety of lengths from 30mm to 240mm are available and interlocking screw holes on the 180mm and 240mm options can be used should extra stability be required.

The 30mm stem should be pre-assembled for implantation and is used in combination with the long omarthrosis metaphyseal component as a short stem option which effectively leaves the medullary cavity untouched, however, this very short variant is not recommended for use in combination with the trauma metaphyseal component.

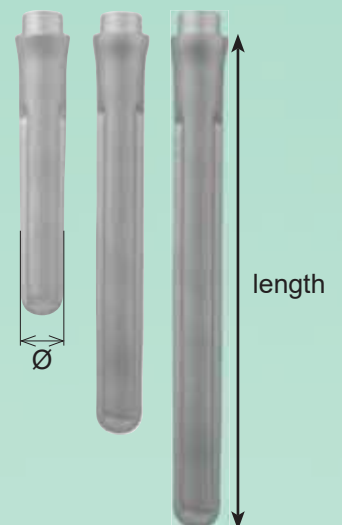
size	30mm	60mm	120mm	180mm	240mm
Ø9mm					
Ø10mm					
Ø11mm					
Ø12mm					
Ø13mm					
Ø14mm					
Ø15mm					
Ø16mm					
Ø17mm					
Ø18mm					



Cemented stems

AGILON® cemented stems are made of implavit® CoCrMo casting alloy. It is recommended to over-ream by 2mm to allow for a 1mm cement mantle all around. TiN-coated (for further information see page 13) cemented stems are available on request for treatment of patients with sensitivity to nickel, cobalt or chromium.

size	60mm	90mm	120mm
Ø6mm			
Ø8mm			
Ø10mm			
Ø12mm			



Anatomic cap options

All of the metallic articulating surfaces of the AGILON® system are made of TiN-coated implatan® (TiAl₆V₄). This ceramic coating is not only very hard wearing and very smooth but it is also highly wettable which reduces PE wear. Additionally the coating provides a barrier to metal ion emission.

Mediolateral offset can be precisely adjusted via the use one of the twelve eccentric caps (which are available in four diameters and three heights as per the table opposite). The eccentricity can be optimized by rotating the trial cap through 360° in a stepwise manner, noting the orientation of markings on the final trial position then carefully recreating the same geometry using similar markings on the underside of the definitive implant.

With adjustments between 12 and 6 the relative position varies from -2 to +2mm. Considering different cap heights and diameters this leaves the surgeon a free choice for the medial offset between 2.6 and 12.8mm.



size	Ø44	Ø47	Ø50	Ø53
14mm				
17mm				
20mm				

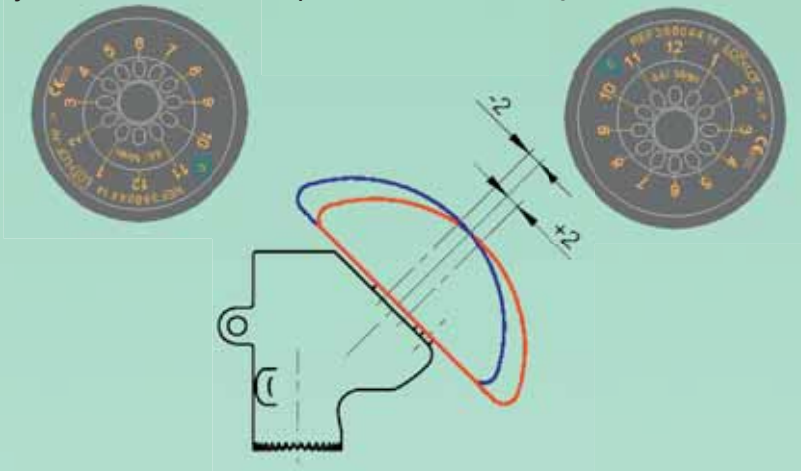


Cap adjustments: Offset and height

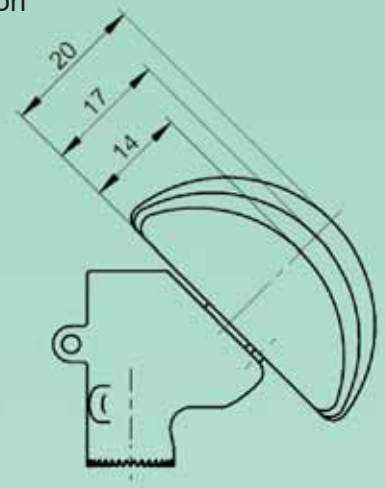
-2mm

+2mm

Rotation adjustment to 6 o'clock position Rotation adjustment to 12 o'clock position



Cap heights



The example above shows offset possibilities for caps with Ø44mm and 17mm height. Offset can vary between 7.9 and 10.7mm. With different diameter choices, offsets from 4.7 to 10.7mm can be adjusted. An additional change in cap heights by ±3mm (to 14 or 20mm) results in changes of the medial offset by ±2.1mm.



CTA caps

A range of twelve CTA / Cuff Tear Arthropathy caps (which are available in four diameters and three heights as per the table below) have been designed to treat patients with a deficient rotator cuff. Usually the CTA options are used in hemiarthroplasty reconstruction but they are fully compatible with all glenoid options.

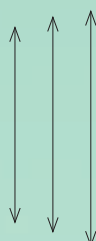
size	Ø44	Ø47	Ø50	Ø53
14mm				
17mm				
20mm				



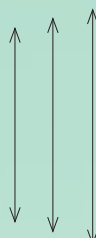
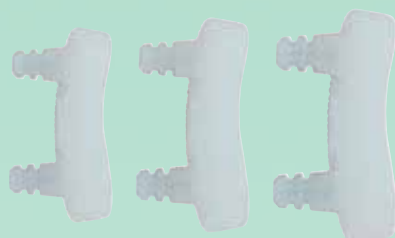
Cemented glenoids

The cemented components feature a two peg design to preserve bone stock. They each have a grid-like pattern on their convex surface to enhance the implant-cement bond. The reamed rings on the pegs cause jamming between the hardened bone cement and the implant. The glenoids are 5mm thick so while they are as slim as possible they still provide sufficient resistance to PE-wear as well as stability even if wear should occur.

There are three sizes of cemented anatomic PE glenoids available for primary treatment. Each is compatible with all AGILON® cap and CTA cap sizes to ensure best fit to the available patient anatomy.



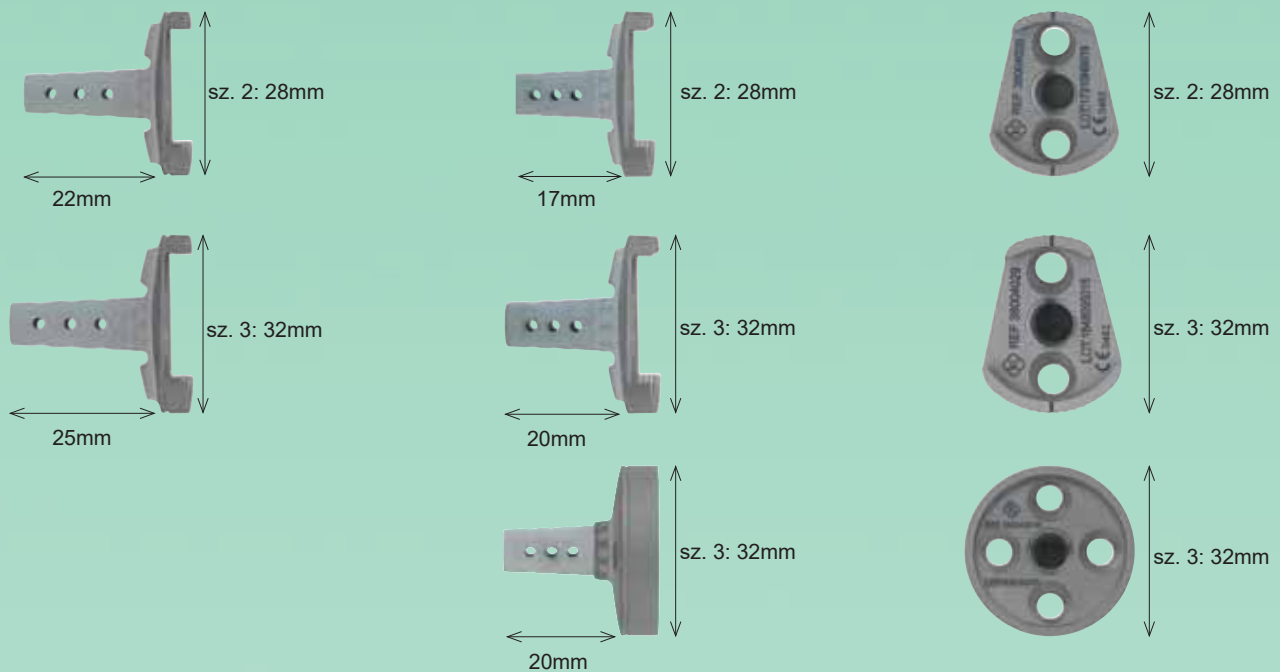
sz. 2: 32mm, sz. 3: 36mm, sz. 4: 40mm



sz. 2-4

Cementless glenoids

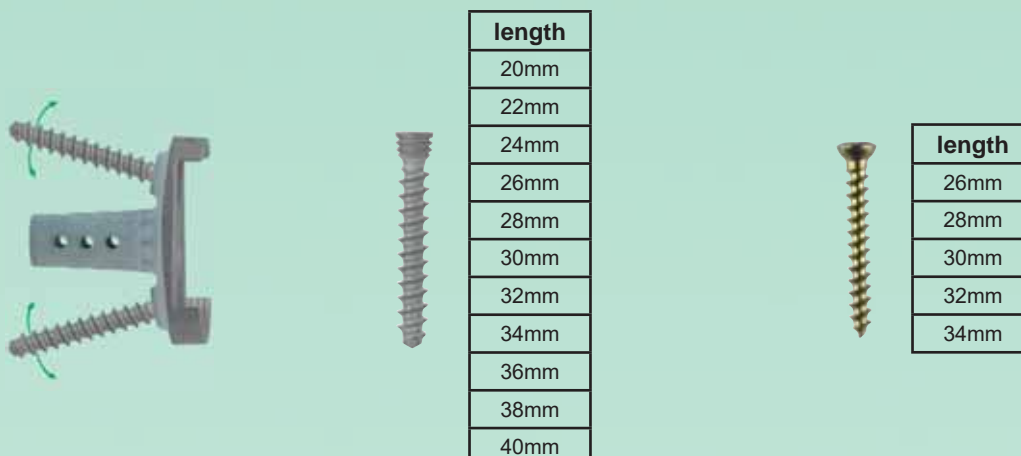
Cementless modular glenoids are made from commercially pure titanium. They are Hydroxylapatite (HA) coated to further enhance long-term fixation with all the patient-facing surfaces. These implants have been designed so that they are suitable for anatomic or inverse reconstruction hence anatomic inserts can easily be exchanged for glenospheres. This gives intra-operative flexibility in the primary setting and greatly simplifies revision / conversion should this be required. There are four teardrop shaped glenoid plates (size 2 or size 3 with either short or long central pegs) as well as a circular plate. The teardrop shaped options have two screw holes and the circular version has four screw holes for additional fixation with either locking or non locking cancellous screws. The components are very slim to reduce the occurring torque.



Cancellous screws

To increase primary stability the cementless glenoids are fixed with screws made of implatan® (TiAl₆V₄). Both "angle stable" (i.e. locking) and / or "regular" (i.e. non-locking) cancellous screws can be used.

The heads of the "angle stable" (i.e. locking) screws cut their own thread within the metal of the screw-hole of the glenoid plate. An angled drill guide helps to define screw path by pre-drilling in the chosen (i.e. between +15° and -15° from the neutral position) direction. This allows the surgeon to place the screws in the best bone that is available.



PE-Inserts

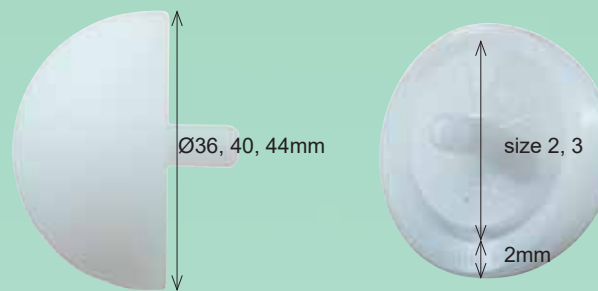
There are three sizes of PE Insert. The size 2 insert is only compatible with both of the size 2 glenoid plates. However the size 3 and size 4 inserts are both compatible with all three of the size 3 glenoid plates. All AGILON® caps are compatible with all inserts sizes.



Glenospheres

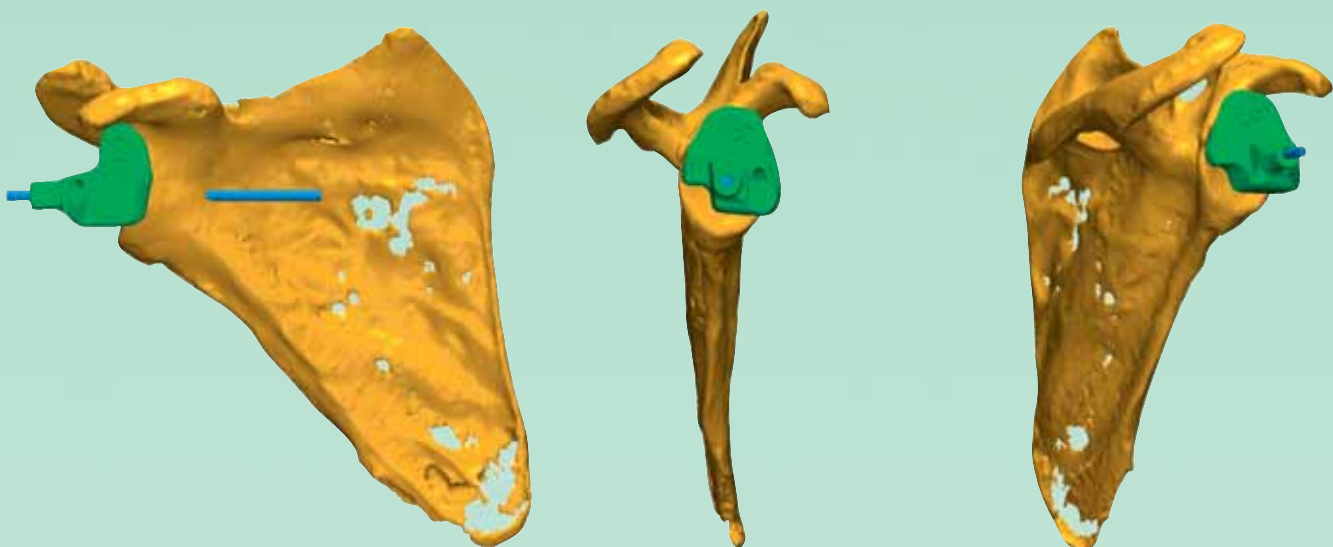
AGILON® was one of the first shoulder systems featuring eccentric PE glenospheres to offer an increased range of motion with very low impingement risk. Lateral offset as well as great diameter options help to reduce the risk of scapular impingement. Due to the slim metal back glenoids torque is relatively low even when great glenosphere diameters are used. Both eccentric and neutral options are compatible with the cementless glenoid (as per the table below).

size	glenoidsize 2	glenoidsize 3
Ø36	eccentric	neutral
Ø40	eccentric	eccentric
Ø44	eccentric	eccentric



Patient specific instruments (PSI)

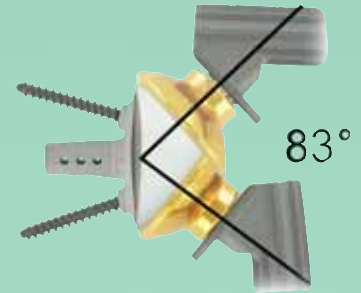
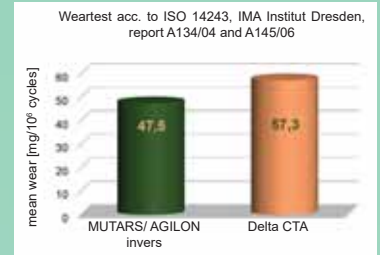
The field of orthopedic surgery requires high quality instruments and implants, that are produced as precise as possible. For complicated procedures implantcast provides surgeons with patient specific instruments (PSI). Based on 3D-CAD-Data these individual instruments are additively 3D printed for single use. Shoulder arthroplasty is highly dependent on the correct orientation of the cementless glenoid component. For complicated procedures implantcast can provide surgeons with 3D-printed PSI k-wire guides based on 3D-CAD data.



Inverse caps

As previously mentioned AGILON® was one of the first shoulder systems to swap the materials in the reverse geometry articulation. The inverse caps are made of TiN-coated implatan® (TiAl₆V₄) to enable a considerably slimmer design versus PE inverse caps which significantly reduces risk of inferior scapula notching and increases range of motion. Wear tests show a lower PE wear than competitors with the more usual tribological pairing.

There are eighteen inverse caps (i.e. 9 standard and 9 retentive) that are diameter-matched according to the chosen glenosphere (36mm, 40mm, 44mm). Soft tissue tension is then optimized by selecting neck length (S, M, L).



Retentive inverse caps

The retentive options are designed for patients with high risk of subluxation and feature a greater overlap with the glenosphere which in turn reduces the range of motion to 50°. The retentive inverse caps are diameter-matched according to the chosen glenosphere (36mm, 40mm, 44mm) as well. Soft tissue tension is then optimized by selecting neck length in 3mm steps (S, M, L).



AGILON® MI

Metaphyseal Implant

The stemless implant is made from EPORE® which has a unique structure which provides high primary stability as well as excellent bony ingrowth potential. Rotational stability is provided via four fins and initial primary fixation is enhanced by a low profile proximal collar which rests on the humeral resection.



There are five sizes of the metaphyseal component (see table below) to help maximize the surface area available for anchorage. The correct size is the one that allows the slim collar to rest on the humeral resection while the tip of the implant is just medial to the lateral endosteum.

size	length
1	22,5mm
2	27,5mm
3	32,5mm
4	37,5mm
5	42,5mm



Should revision be necessary the cap is carefully removed to expose the slots in the collar which facilitate the use of small osteotomes so that the metaphyseal component can be explanted with as little bone damage as possible.



AGILON® MI is used with the same caps as the rest of the AGILON® system. This offers a wide array of cap heights and cap diameters to optimize offset and humeral coverage via the same stepwise eccentricity adjustments. With the appropriate bony preparation the CTA caps may also be used with AGILON® MI.

The implant can be used with either the cemented or cementless glenoid options. Alternatively the AGILON® MI can be used as a hemiarthroplasty.



Materials

implavit®

The AGILON® cemented stems and screws are manufactured from a CoCrMo-casting alloy according to ISO 5832-4. Casting molds are fabricated from repeatable wax models which are covered with several ceramic layers. After melting the wax molten CoCrMo-casting alloy is poured into the hollow ceramic form and allowed to cool. The ceramic layers are then removed and the components are checked for defects prior to further machining (i.e. milling and turning) and finishing (i.e. grinding, polishing and coating).

implatan®

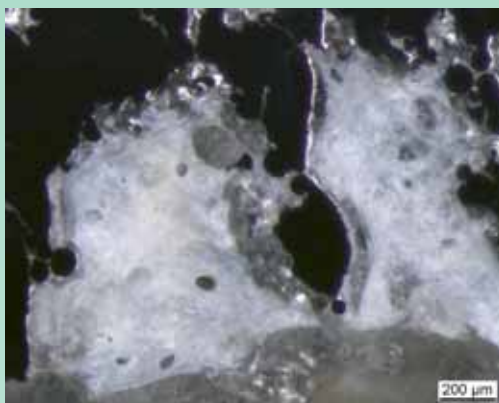
The AGILON® caps, inverse caps, metaphyseal components, extension pieces, cementless stems and cancellous screws are manufactured. $TiAl_6V_4$ according to ISO 5832-3. The raw material is machined (i.e. milled and turned) and finished (i.e. polished, ground and coated)

UHMWPE

The AGILON® PE-inserts, PE-glenospheres and cemented PE-glenoids are manufactured from ultra high molecular weight Polyethylene (UHMWPE) GUR1020 according to ISO 5834-2. GUR1020 powder is sintered to plates (compression moulding), which are tempered and afterwards machined. The PE-components are stored in air in a gas permeable packaging and sterilized with ethylene oxide (EtO).

EPORE®

EPORE® is a highly porous, osseointegrative structure. It is additively 3D printed with a new manufacturing technique called Electron beam melting. It is made from $TiAl_6V_4$ titanium alloy hence it is biocompatible, ductile, corrosion resistant and shows high fatigue strength. The rod-like structure is characterized by a rod thickness between 330 and 390µm and exhibits a high similarity to trabecular bone. These properties favor bony ingrowth.



Bony ingrowth into EPORE®

mechanical properties of EPORE®	
porosity	60%
rod thickness	330-390µm
Young's modulus	3GPa

implaFix® cpTi with TCP- Coating

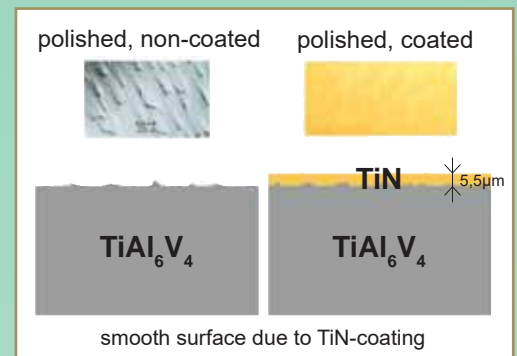
The modular cementless glenoids are made from commercially pure titanium (cpTi). Titanium-Plasma-Spray (TPS) is used to create a rough and porous surface on the bone facing contact area. Afterwards Tricalcium phosphate (TCP), which is classified bioactive, is applied. Thus bone formation around the implant surface is accelerated. While the rough implant surface is responsible for the mechanical anchorage of the bone, the TCP coating creates a fast contact osteogenesis.

Ceramic TiN-coating

Each cap, CTA, inverse or retentive inverse cap has a titanium nitride (TiN) ceramic coating applied to its surface. That ceramic coating is applied in high vacuum conditions using a physical vapour deposition (PVD) process. Thus the surface properties of the components are improved, but the material properties and the biomechanical functionality of the component itself remain largely the same. The ceramic surface coating is both biocompatible and reduces metal ion release as well as wear-reducing.

Wear reduction by TiN-coating

A limiting factor for the life time of a shoulder joint replacement is its motion and load dependent wear, which comes along with the release of wear debris. TiN-coating the surface makes the articulating surface much smoother and much harder to greatly reduce wear. Due to the higher smoothness the wettability is increased. A high wettability with synovial fluids favours a low-friction articulation. The adhesive strength of the coating is big enough that even particles of bone cement are temporarily tolerated without problems in the tribological pairing. Extremely hard foreign particles merely scratch the surface, which however does not result in delamination of the coating.



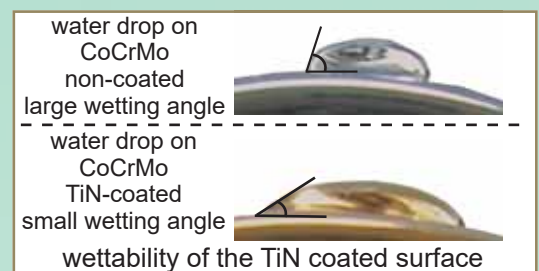
TiN-coating with metal allergy

The cemented stems of the AGILON® shoulder system, manufactured from cobalt chromium alloy, show a low content of nickel. For patients with metal allergy nickel is one of the most frequently allergy provoking metals besides chromium. The potential release of allergy provoking ions from the components is highly minimized by the TiN-coating. The ion release through that coating is below the limit of detectability. Therefore implantcast offers a TiN-coated cemented stem variant especially suitable for patients with sensitization to nickel, chromium or cobalt.



Characteristics of the TiN-coating

- excellent biocompatibility
- reduction of ion emission → prevention for allergy patients
- 4-times harder than cobalt-chromium alloy (hardness >2400HV)
- high wettability with synovial fluid
- low-friction articulation
- long-term chemical stability
- extremely high adhesion strength
- golden yellow coating colour
- thickness of coating: 5,5µm



Implants

AGILON® metaphyseal component incl. safety screw

Mat.: implatan®; TiAl₆V₄ acc. ISO 5832-3

REF	type	angle	length
3821-0002	Omarthrosis	135°	40mm
3821-0003	Omarthrosis	135°	30mm
3821-0001	Trauma	135°	30mm
3821-0012	Omarthrosis	155°	40mm
3821-0013	Omarthrosis	155°	30mm
3821-0011	Trauma	155°	30mm



AGILON® extension piece M6

Mat.: implatan®; TiAl₆V₄ acc. to ISO 5832-3

REF	length
3821-0075	7,5mm
3821-0100	10mm
3821-0125	12,5mm
3821-0150	15mm
3821-0175	17,5mm



AGILON® screw M6

Mat.: implavit®; CoCrMo acc. to ISO 5832-12 with TiN coating

REF	length
3821-0022	22,5mm
3821-0030	30mm
3821-0032	32,5mm
3821-0035	35mm
3821-0037	37,5mm
3821-0040	40mm



AGILON® stem cementless M6

Mat.: implatan®; TiAl₆V₄ acc. to ISO 5832-3

REF	size
3850-3010	10/ 30mm*
3850-3011	11/ 30mm*
3850-3012	12/ 30mm*
3850-3013	13/ 30mm*
3850-3014	14/ 30mm*
3850-3015	15/ 30mm*
3850-3016	16/ 30mm*
3850-3017	17/ 30mm*
3850-3018	18/ 30mm*
3850-6009	9/ 60mm
3850-6010	10/ 60mm
3850-6011	11/ 60mm
3850-6012	12/ 60mm
3850-6013	13/ 60mm
3850-6014	14/ 60mm
3850-6015	15/ 60mm
3850-6016	16/ 60mm
3850-6017	17/ 60mm
3850-6018	18/ 60mm
3851-2009	9/120mm
3851-2010	10/120mm
3851-2011	11/120mm
3851-2012	12/120mm
3851-2013	13/120mm
3851-2014	14/120mm
3851-2015	15/120mm
3851-2016	16/120mm



*30mm stems cannot be used with the trauma metaphyseal components with REF 3821-0001 and REF 3821-0011!

Implants



AGILON® stem cementless M6

Mat.: *implatan®*; $TiAl_6V_4$ acc. to ISO 5832-3

REF	size
3851-8009	9/180mm**
3851-8010	10/180mm**
3851-8011	11/180mm**
3851-8012	12/180mm**
3851-8013	13/180mm**
3851-8014	14/180mm**
3851-8015	15/180mm**
3851-8016	16/180mm**
3852-4009	9/240mm**
3852-4010	10/240mm**
3852-4011	11/240mm**
3852-4012	12/240mm**
3852-4013	13/240mm**
3852-4014	14/240mm**
3852-4015	15/240mm**
3852-4016	16/240mm**

**stems with 2 interlocking holes $\varnothing 4$ mm.

These stems are not usually shipped with loan sets and need to be specifically requested



AGILON® stem cemented M6 *N

Mat.: *implavit®*; CoCrMo acc. to ISO 5832-4

REF	size
3840-6006	6/60mm
3840-6008	8/60mm
3840-6010	10/60mm
3840-6012	12/60mm
3840-9006	6/90mm
3840-9008	8/90mm
3840-9010	10/90mm
3840-9012	12/90mm
3841-2006	6/120mm
3841-2008	8/120mm
3841-2010	10/120mm
3841-2012	12/120mm

*TiN-coated implants are available for treating patients with metal sensitivity. Simply add the letter N to the 8-digit REF above



AGILON® cap

Mat.: *implatan®*; $TiAl_6V_4$ acc. to ISO 5832-3 with TiN coating

REF	size
3800-4414	44/14mm
3800-4417	44/17mm
3800-4420	44/20mm
3800-4714	47/14mm
3800-4717	47/17mm
3800-4720	47/20mm
3800-5014	50/14mm
3800-5017	50/17mm
3800-5020	50/20mm
3800-5314	53/14mm
3800-5317	53/17mm
3800-5320	53/20mm

Implants

AGILON® CTA cap

Mat.: implatan®; TiAl₆V₄ acc. to ISO 5832-3 with TiN coating

REF	size
3822-4414	44/14mm
3822-4417	44/17mm
3822-4420	44/20mm
3822-4714	47/14mm
3822-4717	47/17mm
3822-4720	47/20mm
3822-5014	50/14mm
3822-5017	50/17mm
3822-5020	50/20mm
3822-5314	53/14mm
3822-5317	53/17mm
3822-5320	53/20mm



AGILON® cap inverse

Mat.: implatan®; TiAl₆V₄ acc. to ISO 5832-3 with TiN coating

REF	diameter	necksize
3801-3600	36mm	S
3801-3605	36mm	M
3801-3610	36mm	L
3801-4000	40mm	S
3801-4005	40mm	M
3801-4010	40mm	L
3801-4400	44mm	S
3801-4405	44mm	M
3801-4410	44mm	L



AGILON® retentive cap inverse

Mat.: implatan®; TiAl₆V₄ acc. to ISO 5832-3 with TiN coating

REF	diameter	necksize
3801-5600	36mm	S
3801-5605	36mm	M
3801-5610	36mm	L
3801-6000	40mm	S
3801-6005	40mm	M
3801-6010	40mm	L
3801-6400	44mm	S
3801-6405	44mm	M
3801-6410	44mm	L



Cancellous screw ø4mm

Mat.: implatan®; TiAl₆V₄ acc. to ISO 5832-3

REF	length
5793-4026	26mm
5793-4028	28mm
5793-4030	30mm
5793-4032	32mm
5793-4034	34mm



AGILON® MI Metaphyseal Implant

Mat.: EPORE®, TiAl₆V₄

REF	size
3820-6001	1
3820-6002	2
3820-6003	3
3820-6004	4
3820-6005	5



Implants



AGILON® glenoid cementless anatomical

Mat.: Pure titanium (cpTi) acc. to ISO 5832-2 with implaFix®; HA-coating acc. to ISO 13779-2

REF	size
3800-4028	2 short
3800-4029	2 long
3800-4009	3 short
3800-4010	3 long



AGILON® glenoid PE-insert

Mat.: UHMW-PE acc. to ISO 5834-2

REF	size	combined with
3803-1028	2	glenoid cementless size 2
3803-1032	3	glenoid cementless size 3
3803-1036	4	glenoid cementless size 3



AGILON® PE-glenosphere

Mat.: UHMW-PE acc. to ISO 5834-2

REF	for glenoid size	diameter
3803-2836	2	36mm eccentrical
3803-2840	2	40mm eccentrical
3803-2844	2	44mm eccentrical
3803-3236	3	36mm neutral
3803-3240	3	40mm eccentrical
3803-3244	3	44mm eccentrical

Cancellous screw angle stable lock Ø 4,2mm

Mat.: implatan®; TiAl₆V₄ acc. to ISO 5832-3

REF	length
5794-4220	20mm
5794-4222	22mm
5794-4224	24mm
5794-4226	26mm
5794-4228	28mm
5794-4230	30mm
5794-4232	32mm
5794-4234	34mm
5794-4236	36mm
5794-4238	38mm
5794-4240	40mm



AGILON® PE-glenoid cemented

Mat.: UHMW-PE acc. to ISO 5834-2

REF	size
3803-0032	2
3803-0036	3
3803-0040	4



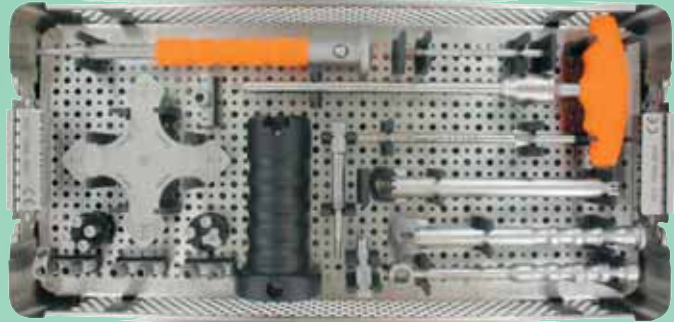
Glenoid cementless (optional for inverse)

Mat.: Pure titanium (cpTi) acc. to ISO 5832-2 with implaFix® HA-coating acc. to ISO 13779-2

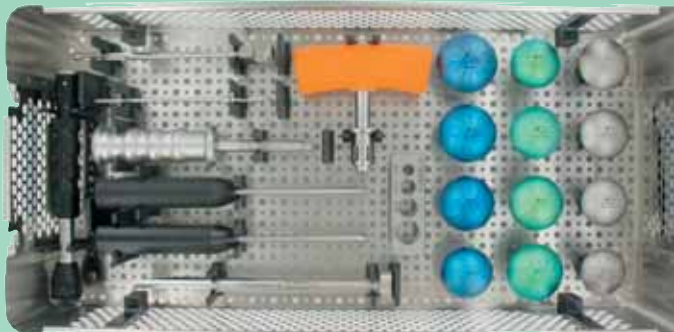
REF	size
3800-4001	3 round

Instruments

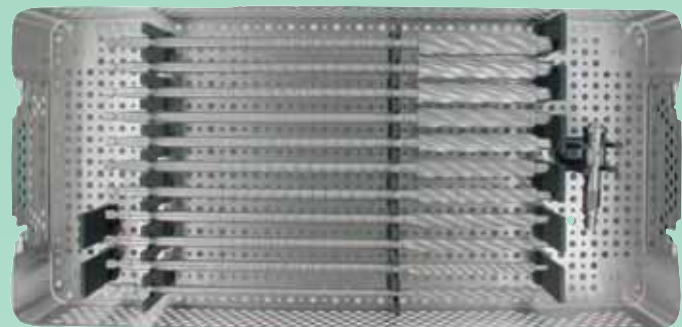
AGILON® basic container
upper tray
7999-3831



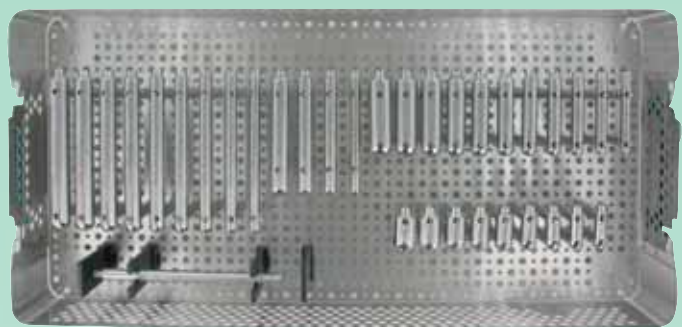
AGILON® basic container
lower tray
7999-3831



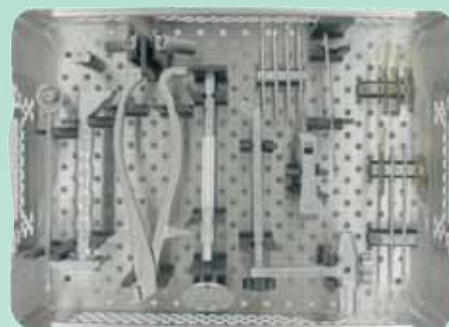
AGILON® drill container
7999-3832



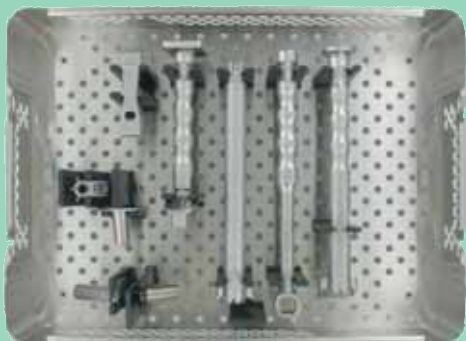
AGILON® trial stem container
7999-3833



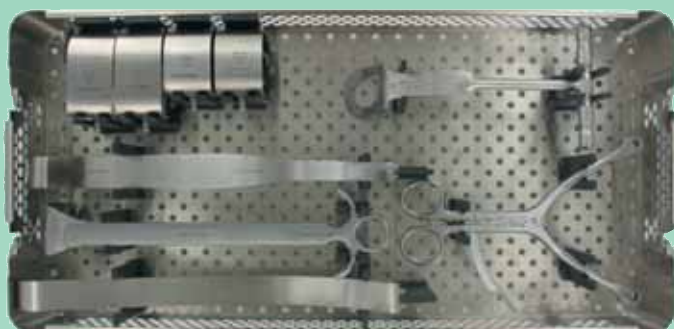
AGILON® omarthrosis container
7999-3834



Instruments



AGILON® omarthrosis container 155°
7999-3835



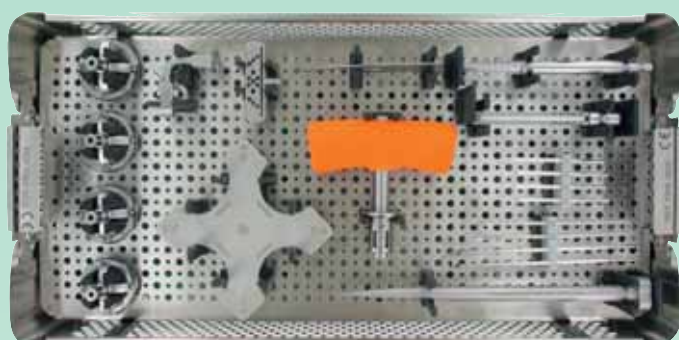
AGILON® retractor container
7999-3816 (OPTIONAL)



AGILON® CTA trial cap container
7999-3819



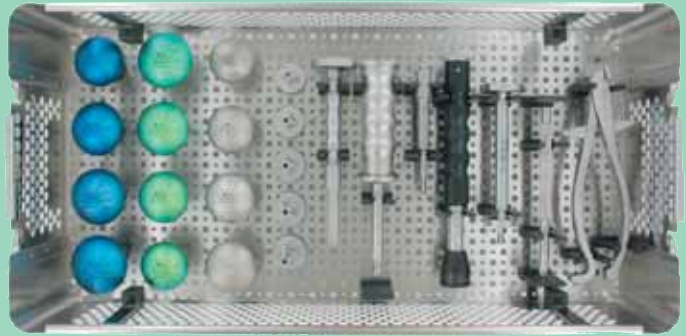
AGILON® retentive inverse trial cap container
7999-3822



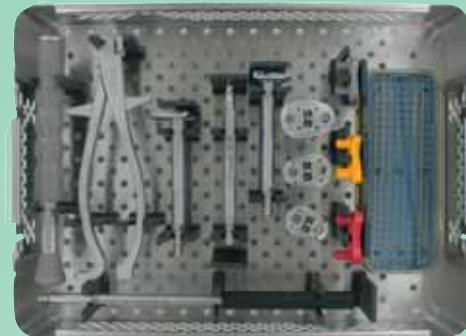
**AGILON® MI container
upper tray**
7999-3820

Instruments
AGILON® MI container

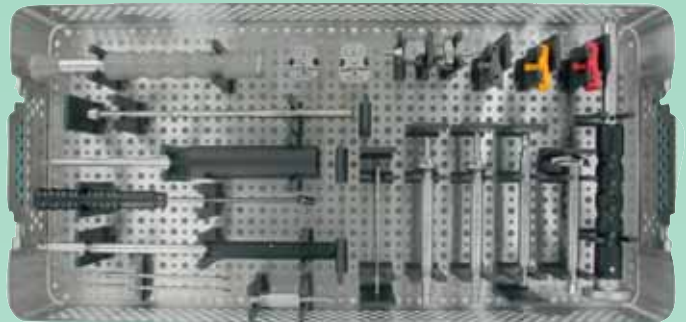
lower tray
7999-3820


AGILON® glenoid cemented sz. 2-4 container

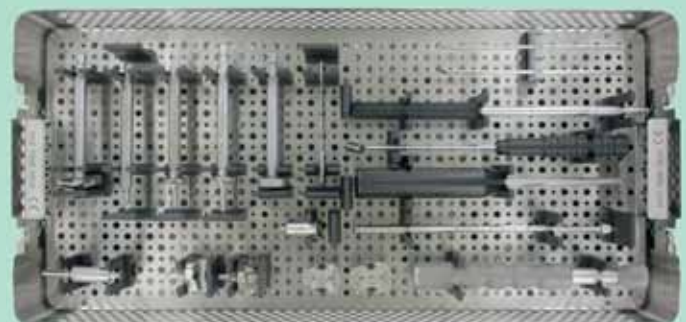
7999-3836


AGILON® glenoid cementless sz. 2-4 container

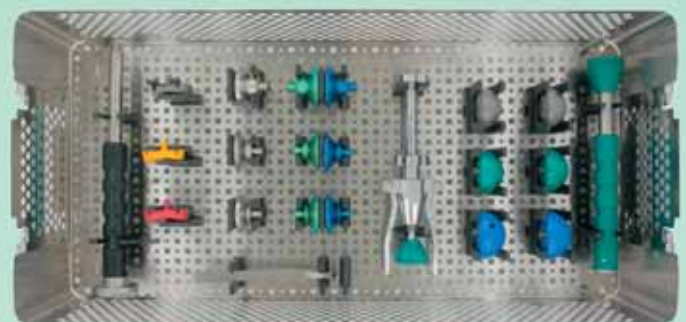
7999-3837








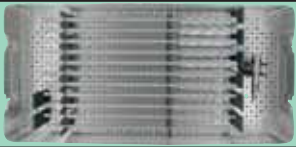
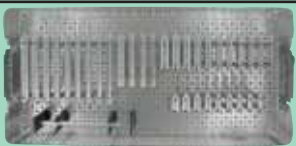
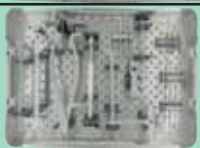


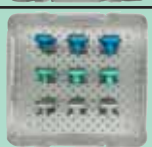


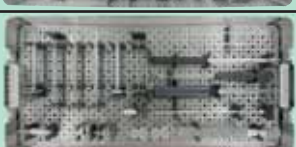

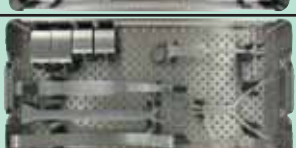

AGILON® glenoid cementless inverse sz. 2-4 container

upper tray
7999-3838


AGILON® glenoid cementless inverse sz. 2-4 container

lower tray
7999-3838



<p>X: Basis X: additional X: optional</p>	<p>Container</p>	<p>Trauma </p>	<p>Omarthrosis </p>	<p>MI </p>	<p>Glenoid cemented </p>	<p>Glenoid cementless </p>	<p>Inverse </p>
	Basic 7999-3831	X	X				
	Drill 7999-3832	X	X				
	Trial stem 7999-3833	X	X				
	Omarthrosis 7999-3834		X				
	155° 7999-3835	X	X				
	CTA trial cap 7999-3819	X	X	X			
	Retentive trial cap 7999-3822	X	X				
	PE-Glenoid 7999-3836				X		
	Glenoid cementless 7999-3837					X	
	Glenoid cementless inverse 7999-3838					X	X
	MI 7999-3820			X			
	Retractor 7999-3816	X	X	X			

*7999-3837 not needed



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