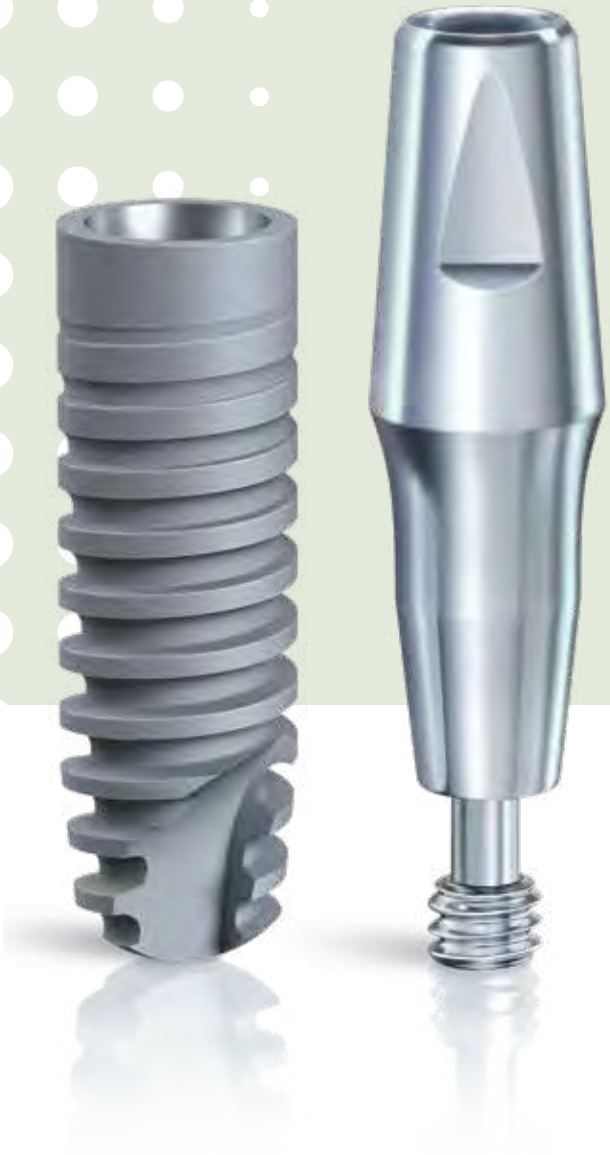

Back to the roots, shaping the future

Product catalogue

myplant

T W O

Made in Germany

The two-part implant system

The concept of a two-phase titanium implant with special expansion thread and self-locking cone as abutment connection was developed by Professor Georg-Hubertus Nentwig and Dr Walter Moser 30 years ago and brought to clinical maturity. High primary stability, minimum construction height, a micro-movement-free and bacteria-proof implant-abutment connection as well as a deep platform switching soon proved to be a superior combination in terms of achievable bone and soft-tissue stability, thereby ensuring exceptional long-term success..

With the **myplant two** implant system, Prof. Nentwig and Dr Moser have further advanced and optimised this concept, which has been documented over decades, and adapted it to the criteria of modern, future-orientated implant therapy

We at **myplant GmbH** have made it our mission to provide the patients and users of **myplant two** with an implant system that ensures the best possible conditions for achieving long-term implant success with lasting hard- and soft-tissue stability.

With more than 30 years of dental implant manufacturing and development expertise as well as many years of experience in the commercialisation of implants, **myplant GmbH** represents an alliance that gives the user the reassuring feeling that **myplant two** is an enduringly functional, mechanically stable, tissue-compatible, sophisticated and aesthetically pleasing solution.

myplant

T W O

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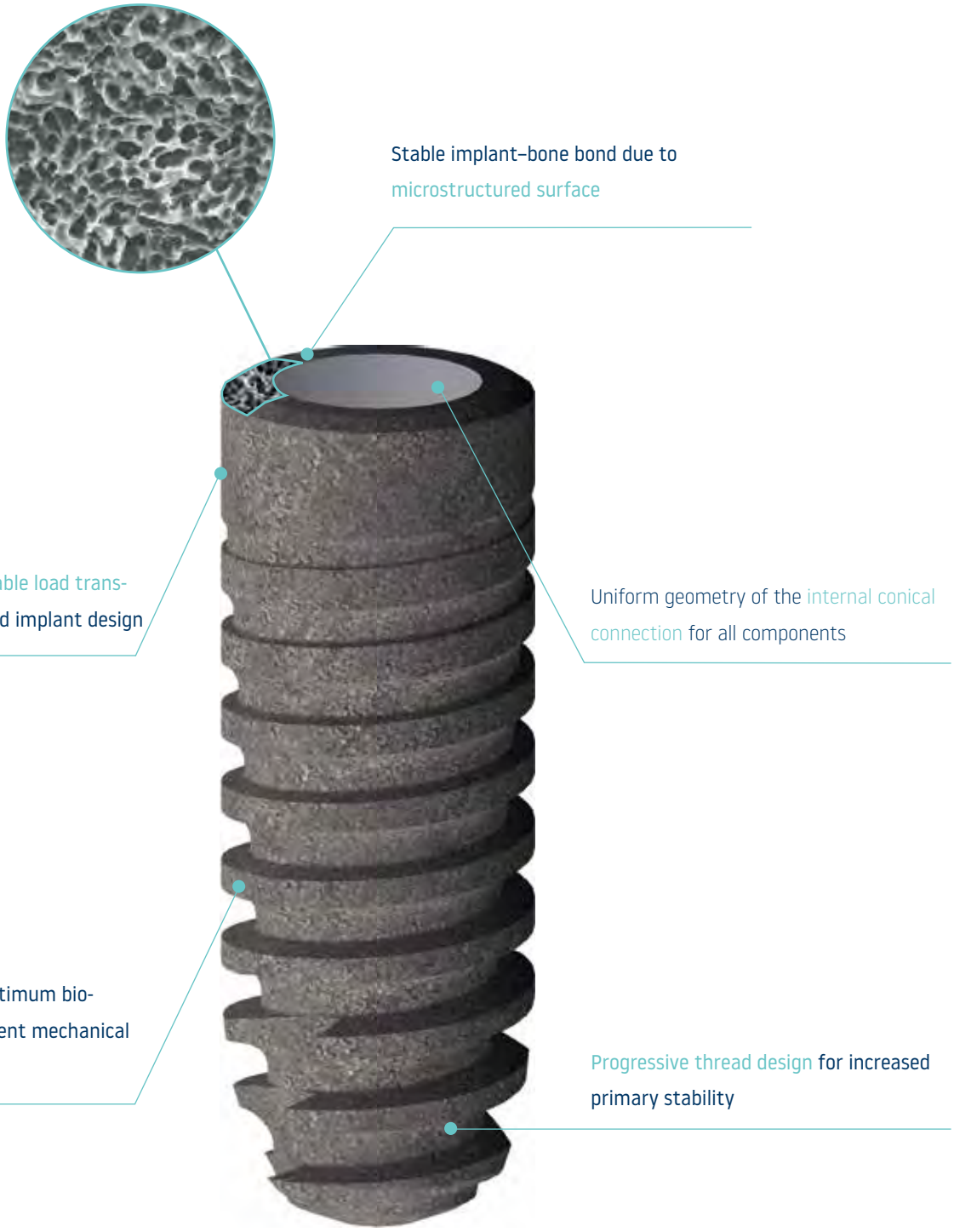
System

The myplant two system

The myplant two system builds on the principles of a progressive thread design and a bacteria-proof, self-locking, rotation-stable conical connection that have proven their worth over three decades.



Deep horizontal offset
provides an increased area
for bone deposition

Can be inserted up to 2 mm subcrestally
if sufficient bone is available

Self-locking, absolutely rotation-stable
internal conical connection provides a
virtually bacteria-proof seal

Apical bevel for simplified insertion of
the implant

Free positioning of angled abutments
through non-indexed conical connection

Rounded implant tip for gentle sinus floor
elevation

The implants

The myplant two implant system is a two-part system based on state-of-the-art technology. The implants are made from grade 4 pure titanium in accordance with ISO 5832-2. This material represents the highest degree of biocompatibility and outstanding mechanical properties and therefore provides the best basis for safe integration. Grade 4 pure titanium features the best possible balance of ductility and strength. It boasts excellent corrosion resistance and does not contain any toxic components. Thanks to its outstanding properties, grade 4 pure titanium has been successfully used as a material in implantology and general medical technology for more than 25 years.

myplant two implants are available in three diameters, each in five different lengths. Due to the practical graduation of implant sizes, the system is suitable for all indications in dental implantology, even in difficult bone situations.

The various implant diameters can be quickly and reliably identified, thanks to the letter- and colour-coding system. The corresponding instruments for implant bed preparation are identified using the same colour coding.

Colour coding

	Red	Implant diameter 3.5 mm
	Orange	Implant diameter 4.0 mm
	Yellow	Implant diameter 4.5 mm

The implant name contains a capital letter which, like the colour, stands for the implant diameter. The subsequent numbers define the length of the implant in millimetres.

Dia. [mm] \ L [mm]	6.6	8.0	9.5	11.0	14.0
3.5	A 6.6	A 8	A 9.5	A 11	A 14
4.0	M 6.6	M 8	M 9.5	M 11	M 14
4.5	B 6.6	B 8	B 9.5	B 11	B 14

Brief overview of indications

Implants			Prosthodontics		
myplant two	Length	Anterior tooth | Canine | Bicuspids | Molars	Single tooth	Bridge	Telescopes | Ball anchors | LOCATORS® | OT Equator
Ø 3.5 mm	6.6 mm	✓*	X	✓	✓*
	8.0 mm	✓	✓	✓	✓
	9.5 mm	✓	✓	✓	✓
	11.0 mm	✓	✓	✓	✓
	14.0 mm	✓	✓	✓	✓
Ø 4.0 mm	6.6 mm	✓*	X	✓	✓*
	8.0 mm	✓	✓	✓	✓
	9.5 mm	✓	✓	✓	✓
	11.0 mm	✓	✓	✓	✓
	14.0 mm	✓	✓	✓	✓
Ø 4.5 mm	6.6 mm	✓*	X	✓	✓*
	8.0 mm	✓	✓	✓	✓
	9.5 mm	✓	✓	✓	✓
	11.0 mm	✓	✓	✓	✓
	14.0 mm	✓	✓	✓	✓

✓* Special indications for implants with a length of 6.6 mm:

Until such time as corresponding clinical studies are available, 6.6 mm implants are currently recommended only for the following indications due to their reduced anchoring area in the bone:

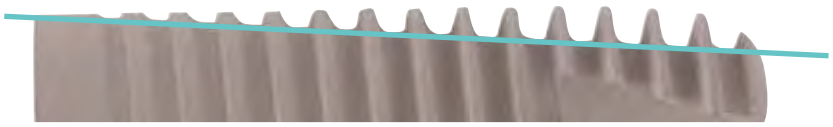
- For edentulous jaws: as an auxiliary/supporting implant for implant-supported bar constructions or splinted bridges.
- Partially edentulous jaws: as an auxiliary/supporting implant in combination with longer implants to form a splinted superstructure.

Important: attention should be paid to the load distribution of the prosthodontics.

Integrated design

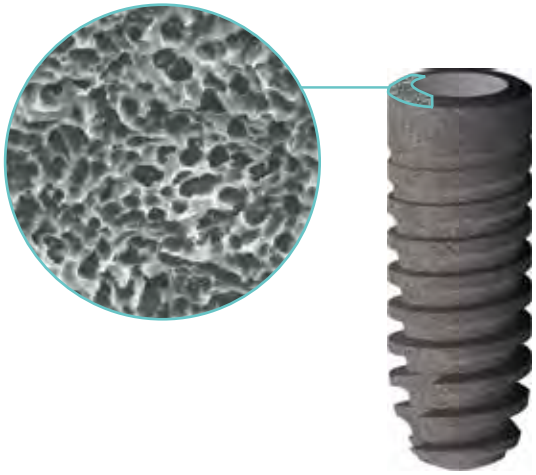
The thread design

Supported by the three-stage preparation technique, the progressive thread design of myplant two implants leads to high primary stability, even with average bone qualities. The depth of the thread increases apically, and the implant body is conical with an arched curvature of the thread flanks, resulting in a biomechanically favourable load distribution into the bones. The apically enlarging thread area allows for good anchoring in various qualities of bone and produces a load distribution that preserves the bone structure during mastication. Vertical and lateral forces that occur are transmitted primarily to the more elastic cancellous bone, taking the burden off the cortical bone, which is essential for the long-term preservation of the marginal bone level and the resultant appearance. A concentration of stress in the emergence region of the implant, as occurs with screw implants with constant threads, is therefore avoided. The preparation technique and the special design are tailored for the natural bone structure and achieve high primary stability with maximum bone-implant contact even where bone strength is compromised.



The implant surface

The enossal surface of the implants is corundum-blasted to achieve macro-roughness on the titanium surface. This is followed by acid etching to achieve micro-roughness on the implant-surface. The resultant maximum increase in surface area promotes the ongrowth of bone tissue, to create a more stable implant–bone bond and support the natural healing process. In contrast to many other systems, the surface treatment is also carried out on the front surface of the implants. This means that the myplant two implants, which are positioned 1 mm subcrestally as a rule, experience more stable integration in the bone and better support for the peri-implant soft tissue in the long term.



Subcrestal placement

Unlike most implant systems, the myplant two implant was developed specifically for subcrestal implantation and, with sufficient bone and attention to the surrounding structures, it allows for insertion up to 2 mm below bone level. As a result, the crestal bone is able to grow over the shoulder of the implant as far as the abutment diameter, thus promoting increased implant stability and biological support of the peri-implant soft tissue. To prevent the implant from being fully overgrown with bone in the case of submerged healing, various closure screws are available. A sterile closure screw that projects 1 mm beyond the implant is enclosed in the original packaging.

© Prof. Georg-Hubertus Nentwig (Dr. med. Dent.)

Note:
the subcrestal placement must be taken into account when the length of the implant is chosen.

If equicrestal healing is desired or indicated, the flush closure screw, which is available separately, can be used.

Stable soft tissue support

The deep platform switching and resulting broad implant shoulder allow for more approximal space at abutment level than non-conical connections. Together with the bony deposition on the implant shoulder, this is critical for establishing a stable and healthy soft-tissue cuff and consequently for aesthetics. This is achievable even with tightly placed implants thanks to the enlarged approximal space.

The prosthodontics concept

The key to successful prosthodontics is a firm and tight tapered connection. The free rotation option of the prosthodontic components ensures optimal positioning of angled abutments without any compromise.

A major advantage of the interface is the fact that all implants have the same internal geometry, which means that every prosthodontic component fits in every implant. Implant selection is based exclusively on the available bone and is not restricted by the prosthodontics. As a result, storage space and costs are kept as low as possible. All indications, ranging from single crowns to bridges and partial dentures to implant-supported complete dentures, are possible with the various superstructures.

Note:
the abutment screw is permanently integrated in all abutments.

Standard abutment | Shoulder abutment | Titanium base | Multi-unit abutment | Ball anchor | OT-Equator | LOCATOR® | PreFace

The various abutment series allow for friction-based, screwed-in, glued or cemented attachment of the prosthodontics.

For cement-free attachment, both straight and angled abutments have occlusal screw channels. This not only allows improved aesthetics thanks to deeper crown margins, but also avoids the risk of cementitis.

A further alternative in conjunction with standard abutments is the friction-based retention of the superstructure via precisely fitting taper caps, which can be easily incorporated in the prosthesis. Whether polymerized into acrylic or bonded into a tertiary structure, conical caps offer full flexibility.

The shoulder abutments offer the option of cementing the prosthodontic restoration or retaining it with a screw. This provides the clinician with the freedom to choose the attachment method according to need and indication.

In the fabrication of individual all-ceramic restorations on the titanium base, the fabricated stump is bonded to the titanium base extraorally and the final restoration is fixed in the patient's mouth.

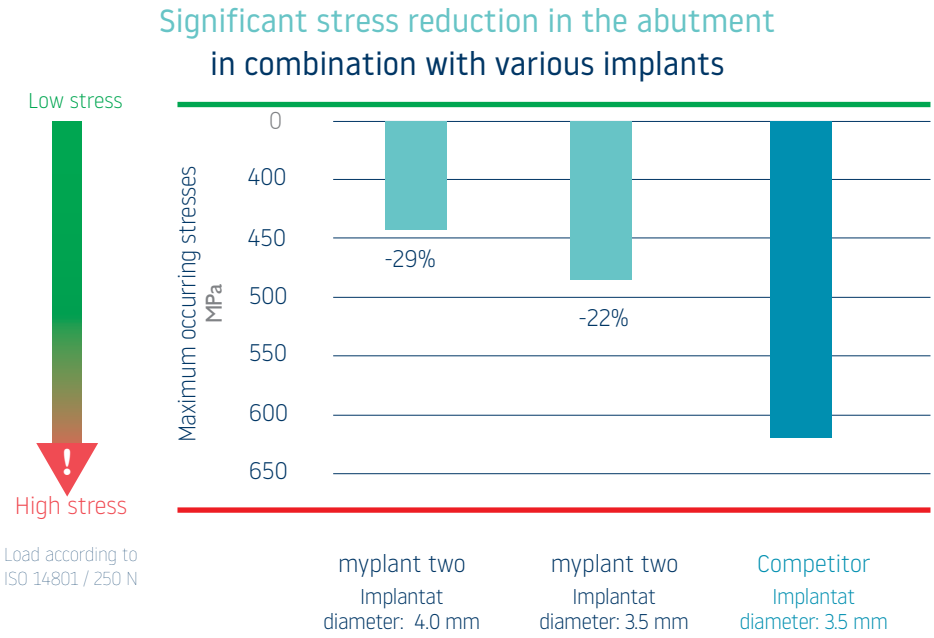
Abutment removal

The screwdriver (ZSD0L) is inserted into the lateral screw channel and the screw is completely loosened. The removal sleeve (ZRH01) is applied over the abutment. The abutment remover is inserted turning clockwise into the drill hole of the removal sleeve until the abutment detaches from the implant cone.

The removal sleeve is suitable for removal of all standard, titanium base, shoulder superstructures, with the exception of posterior shoulder abutments. The removal sleeve can also be used as an alternative to the parallelisation posts for aligning the abutments.

Highly resilient abutment–implant connection

The special construction of the myplant two system results in an exceptional mechanical load capacity with high fatigue strength. The design of the inner cone results in a highly resilient and virtually bacteria-proof connection between the abutment and the implant.



Uniform conical connection

The non-indexed conical connection allows free positioning as well as simple parallel alignment of angled abutments. Despite differences in diameter, all implants have a uniform interface with the prosthesis. This means that the implants can be selected exclusively according to the bone available and makes it possible to focus entirely on the prosthodontic requirements when the abutments are selected. In addition, this results in a smaller, clear range of prosthodontics and reduces the requirement for storage.

Options for prosthodontic restoration

All restorations, ranging from single crowns to bridges and partial dentures to implant-supported complete dentures, are possible with the various superstructures in the myplant two range. A major advantage of the interface is the fact that all implants have the same internal geometry, which means that every prosthodontic component fits in every implant. At the same time, the various abutment series allow for friction-based, screwed-in, glued or cemented attachment of the prosthodontics.

Abutment type	Single tooth	Bridge	Partial denture	Complete denture
Standard abutment	✓	✓	✓	✓
Shoulder abutment	✓	✓	-	-
PreFace abutment	✓	✓	-	-
Titanium base	✓	✓	-	-
Multi-unit abutment	-	✓	✓	✓
OT Equator	-	-	✓	✓
LOCATOR®	-	-	✓	✓
Ball anchor	-	-	✓	✓

PRODUCTS

For the rotational speeds and torques of the instruments and system components, please refer to the overview on page 45.

Implants

	A6.6	A8	A9.5	A11	A14
Diameter (mm)	3.5	3.5	3.5	3.5	3.5
Length (mm)	6.6	8.0	9.5	11.0	14.0
Order no	A3566	A3580	A3595	A3511	A3514

	M6.6	M8	M9.5	M11	M14
Diameter (mm)	4.0	4.0	4.0	4,0	4.0
Length (mm)	6.6	8.0	9.5	11.0	14.0
Order no	M4066	M4080	M4095	M4011	M4014

	B6.6	B8	B95	B11	B14
Diameter (mm)	4.5	4.5	4.5	4.5	4.5
Length (mm)	6.6	8.0	9.5	11.0	14.0
Order no	B4566	B4580	B4595	B4511	B4514

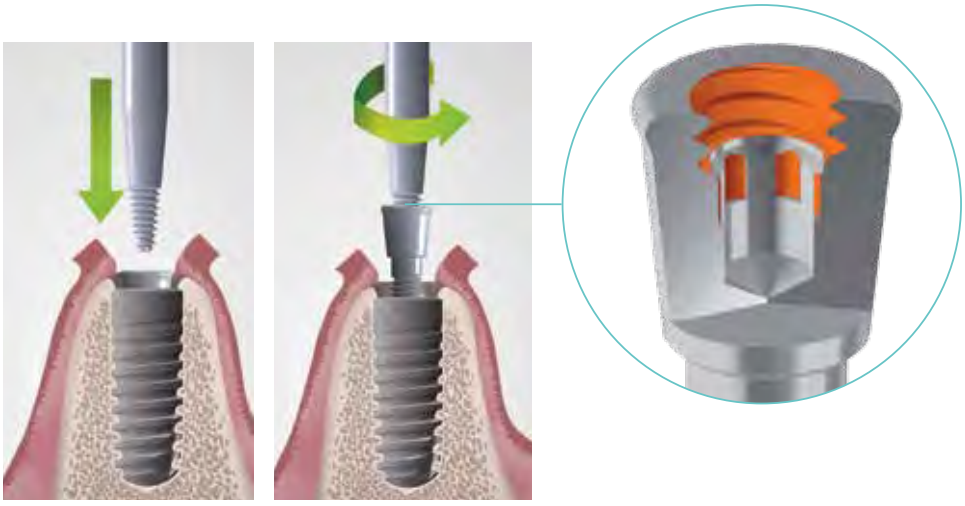
A sterile closure screw with a height of 1.0 mm (art. no. PVS01) is enclosed with all implants.

H = height; GH = gingival height

Prosthodontic components

Closure screws

Description	closure screw	closure screw	closure screw
	0 mm	1 mm	2 mm
Order no	PVS00	PVS01	PVS02



Note: unlike the old variant, the new closure screw and gingiva former can be easily removed from the implant with the aid of the screw remover (ZAD01/ZAD02). To this end, the screw remover is screwed into the thread of the closure screw/gingiva former – after subgingival healing and exposure have taken place – by means of being turned anticlockwise until the latter becomes unfastened from the implant.

Gingiva former

Description	Gingiva former diameter 4.2 mm	Gingiva former diameter 4.2 mm	Gingiva former diameter 4.2 mm
	GH 1.5 mm	GH 3.0 mm	GH 4.5 mm
Order no	PGF15	PGF30	PGF45

Note: the internal interface of the implants is identical in all myplant two implants. As a result, the closure screws and gingiva formers listed can be used for all implants.

H = height; GH = gingival height

Transfer posts

Description	Transfer post, S Open tray	Transfer post, L Open tray
Order no	PUP01	PUP02

The transfer posts are screwed in by hand.

Repositioning posts

Description	Repositioning post Closed tray	Repositioning post, narrow Closed tray
Order no	PRP01	PRP02

The repositioning posts are screwed in by hand or with the aid of a screwdriver.

Laboratory implant

Description	Laboratory implant
Order no	PLI01

H = height; GH = gingival height

Standard abutments

Abutments – straight

Description	Abutment 0° GH 1.5 mm H 4.0 mm	Abutment 0° GH 1.5 mm H 6.0 mm	Abutment 0° GH 3.0 mm H 4.0 mm	Abutment 0° GH 3.0 mm H 6.0 mm	Abutment 0° GH 4.5 mm H 4.0 mm	Abutment 0° GH 4.5 mm H 6.0 mm
Order no	PAB01	PAB02	PAB03	PAB04	PAB05	PAB06

Note:
For cement-free attachment, both straight and angled abutments have occlusal screw channels.

Note:
where there is sufficient primary stability, immediate provisional restoration can take place on the standard abutments with the aid of the healing caps. Primary stability of > 30 Ncm is required for this.

Note:
the abutment screw is permanently integrated in all abutments.

Abutments – angled

Description	Abutment 7,5° GH 1.5 mm H 4.0 mm	Abutment 7,5° GH 1.5 mm H 6.0 mm	Abutment 7,5° GH 3.0 mm H 4.0 mm	Abutment 7,5° GH 3.0 mm H 6.0 mm	Abutment 7,5° GH 4.5 mm H 4.0 mm	Abutment 7,5° GH 4.5 mm H 6.0 mm
Order no	PAB21	PAB22	PAB23	PAB24	PAB25	PAB26

Description	Abutment 15° GH 1.5 mm H 4.0 mm	Abutment 15° GH 1.5 mm H 6.0 mm	Abutment 15° GH 3.0 mm H 4.0 mm	Abutment 15° GH 3.0 mm H 6.0 mm	Abutment 15° GH 4.5 mm H 4.0 mm	Abutment 15° GH 4.5 mm H 6.0 mm
Order no	PAB51	PAB52	PAB53	PAB54	PAB55	PAB56

Description	Abutment 22,5° GH 1.5 mm H 4.0 mm	Abutment 22,5° GH 1.5 mm H 6.0 mm	Abutment 22,5° GH 3.0 mm H 4.0 mm	Abutment 22,5° GH 3.0 mm H 6.0 mm	Abutment 22,5° GH 4.5 mm H 4.0 mm	Abutment 22,5° GH 4.5 mm H 6.0 mm
Order no	PAB71	PAB72	PAB73	PAB74	PAB75	PAB76

H = height; GH = gingival height

Transfer caps

Description	Transfer Cap H 4.0 mm	Transfer Cap H 6.0 mm
Order no	PAK01	PAK02

Healing caps

Note:
The healing caps aid the manufacture of immediate temporary restorations. In the process, ensure that they are not subjected to occlusal loading.

Description	Healing cap H 4.0 mm	Healing cap H 6.0 mm
Order no	PHK01	PHK02

Description	Healing cap, protected against rotation H 4.0 mm	Healing cap, protected against rotation H 6.0 mm
Order no	PHK03	PHK04

Laboratory analogue

Description	Laboratory analogue, one-piece 0° H 4.0 mm	Laboratory analogue, one-piece 0° H 6.0 mm	Laboratory analogue, one-piece 7,5° H 4.0 mm	Laboratory analogue, one-piece 7,5° H 6.0 mm
Order no	PLA04	PLA06	PLA24	PLA26

Description	Laboratory analogue, one-piece 15° H 4.0 mm	Laboratory analogue, one-piece 15° H 6.0 mm	Laboratory analogue, one-piece 22,5° H 4.0 mm	Laboratory analogue, one-piece 22,5° H 6.0 mm
Order no	PLA54	PLA56	PLA74	PLA76

H = height; GH = gingival height

Auxiliary modelling caps for straight and angled abutments

Description	Auxiliary modelling cap	Auxiliary modelling cap	Auxiliary modelling cap, protected against rotation	Auxiliary modelling cap, protected against rotation
	H 4.0 mm	H 6.0 mm	H 4.0 mm	H 6.0 mm
Order no	PMK01	PMK02	PMK03	PMK04

Conical caps for straight and angled abutments

Description	Conical cap without retention	Conical cap without retention	Conical cap with retention	Conical cap with retention
	H 4.0 mm	H 6.0 mm	H 4.0 mm	H 6.0 mm
Order no	PKK04	PKK06	PKK14	PKK16

Occlusal screws

Description	Occlusal screw
Order no	POS01

Description	Occlusal screw – ceramic
Order no	POSK1

Note:
the geometry of the occlusal screw – ceramic is designed such that shear stress on the ceramic structure is avoided.

Conometric Concept - Digital

Conometric Caps

Description	Conometric Cap H 4.0 mm	Conometric Cap H 6.0 mm
Quantity in the kit	2	2
Order no	PKOK1	PKOK2

Welding Caps

Description	Welding Cap H 4.0 mm	Welding Cap H 6.0 mm
Quantity in the kit	2	2
Order no	PWK01	PWK02

Scanmarker Abutments

Description	Scanmarker Abutment H 4.0 mm	Scanmarker Abutment H 6.0 mm	Screw for Scanmarker H4/6
Quantity in the kit	2	2	1
Order no	PSM01	PSM02	PSSM1

Welding Coping MUA

Description	Welding Coping for MUA without screw
Quantity in the kit	2
Order no	PWK03

H = height; GH = gingival height

Selection posts

Selection post kit (order no PAP00) contains the following items:

Selection posts – straight

Description	0° selection posts GH 1.5 mm, H 4.0 mm	0° selection posts GH 1.5 mm, H 6.0 mm	0° selection posts GH 3.0 mm, H 4.0 mm	0° selection posts GH 3.0 mm, H 6.0 mm
Quantity in the kit	4	4	4	4
Order no	PAP01	PAP02	PAP03	PAP04

Description	0° selection posts GH 4.5 mm, H 4.0 mm	0° selection posts GH 4.5 mm, H 6.0 mm
Quantity in the kit	4	4
Order no	PAP05	PAP06

Selection posts - angled

Description	15° selection posts GH 1.5 mm, H 4.0 mm	15° selection posts GH 1.5 mm, H 6.0 mm	15° selection posts GH 3.0 mm, H 4.0 mm	15° selection posts GH 3.0 mm, H 6.0 mm
Quantity in the kit	4	4	4	4
Order no	PAP51	PAP52	PAP53	PAP54

H = height; GH = gingival height

Shoulder abutments

Abutments – straight

Description	Shoulder Abutment 0° Ø 5.7 mm GH 1.5 mm, H 6.0 mm	Shoulder Abutment 0° Ø 5.7 mm GH 3.0 mm, H 6.0 mm	Shoulder Abutment 0° Ø 5.7 mm GH 1.5 mm, H 4.0 mm	Shoulder Abutment 0° Ø 5.7 mm GH 3.0 mm, H 4.0 mm
Order no	PSA01	PSA02	PSA05	PSA06

Description	Shoulder Abutment 0° Ø 4.3 mm GH 1.5 mm, H 6.0 mm	Shoulder Abutment 0° Ø 4.3 mm GH 3.0 mm, H 6.0 mm	Shoulder Abutment 0° Ø 4.3 mm GH 1.5 mm, H 4.0 mm	Shoulder Abutment 0° Ø 4.3 mm GH 3.0 mm, H 4.0 mm
Order no	PSA11	PSA12	PSA15	PSA16

Abutments – angled

Description	Shoulder Abutment 15° Ø 5.7 mm GH 1.5 mm, H 6.0 mm	Shoulder Abutment 15° Ø 5.7 mm GH 3.0 mm, H 6.0 mm	Shoulder Abutment 15° Ø 5.7 mm GH 1.5 mm, H 4.0 mm	Shoulder Abutment 15° Ø 5.7 mm GH 3.0 mm, H 4.0 mm
Order no	PSA51	PSA52	PSA55	PSA56

Description	Shoulder Abutment 15° Ø 4.3 mm GH 1.5 mm, H 6.0 mm	Shoulder Abutment 15° Ø 4.3 mm GH 3.0 mm, H 6.0 mm	Shoulder Abutment 15° Ø 4.3 mm GH 1.5 mm, H 4.0 mm	Shoulder Abutment 15° Ø 4.3mm GH 3.0 mm, H 4.0 mm
Order no	PSA61	PSA62	PSA65	PSA66

H = height; GH = gingival height

Healing Abutments

Description	Healing Abutment Ø 5.7mm, GH 1.5mm	Healing Abutment Ø 5.7mm, GH 3.0mm	Healing Abutment Ø 4.3mm, GH 1.5mm	Healing Abutment Ø 4.3mm, GH 3.0mm
Order no	PGF21	PGF22	PGF71	PGF72

Abutment removers

Description	Abutment remover Manual	Abutment remover Mechanical S	Abutment remover Mechanical L
Order no	ZAI01	ZAI51	ZAI52

Removal sleeve

Description	Removal sleeve
Order no	ZRH01

Abutment positioning key

Description	Abutment positioning key
Order no	ZAPS1

Note:
The removal sleeve is applied over the standard structure and simplifies the process of screwing the abutment remover into the occlusal thread as a result. Furthermore, it serves to improve the parallel alignment of angled abutments.

H = height; GH = gingival height

Titanium Base

Abutments

Description	Titanium Base 0° GH 0.75mm, H 6.0 mm	Titanium Base 0° GH 1.5 mm, H 6.0 mm	Titanium Base 0° GH 3.0 mm, H 6.0 mm
Order no	PTB01	PTB02	PTB03

Description	Titanium Base 0° GH 0.75 mm, H 4.0 mm	Titanium Base 0° GH 1.5 mm, H 4.0 mm	Titanium Base 0° GH 3.0 mm, H 4.0 mm
Order no	PTB04	PTB05	PTB06

Scan Base

Description	Scan Base
Order no	PSB11

DIM Analog

Description	DIM Analog
Order no	XDIM1

PreFace Abutments

Description	Pre-Face Abutment 11,5 mm	Pre-Face Abutment 16 mm
Order no	PPMB3	PPMB4

H = height; GH = gingival height

Multi Unit Abutment

Abutments

Description	Multi Unit Abutment 0˚ GH 1.5 mm	Multi Unit Abutment 0˚ GH 3.0 mm
Order no	PMU01	PMU02

Accessories

Description	Retention cap, short	Retention cap, long
Order no	PRK01	PRK02

Description	Multi-unit occlusal screw short	Multi-unit occlusal screw medium	Multi-unit occlusal screw long
Order no	POSM1	POSM2	POSM3

Description	Bar coping	Bar coping	Laboratory analogue
Order no	PSK01	PSKM1	PLAM1

Description	Multi-unit screwdriver
Order no	ZSDMU

H = height; GH = gingival height

OT Equator Abutments

Abutments

Description	OT Equator GH 1.5 mm	OT Equator GH 3.0 mm	OT Equator GH 4.5 mm	OT Equator GH 6.0 mm
Order no	POT01	POT02	POT03	POT04

Accessories

Description	Caps Assortment Kit for divergency corrections up to 30°
Order no	POTC1

Description	Smart box Equator Kit for divergency corrections up to 50°
Order no	POTK1

Retention Forces

Description	OT Equator Yellow cap extra soft retention - 600g	OT Equator Pink cap soft retention - 1200g	OT Equator Clear cap standard retention - 1800g	OT Equator Violet cap strong retention - 2700g
Quantity in the kit	1	1	1	1

Other Accessories

Description	OT Equator analog for Lab	OT Equator transfer for impression with interchangeable cap	Wrench for threading OT Equator abutment	Insertion and extractor tool for caps	Square driver for contra angle
Order no	POTA1	POTT1	ZOT01	ZOT02	ZOT03

H = height; GH = gingival height

Locator®

Abutments

Description	LOCATOR® GH 2.0 mm	LOCATOR® GH 3.0 mm	LOCATOR® GH 4.0 mm
Order no	PLOC2	PLOC3	PLOC4

Accessories

Description	LOC impression cap
Qty in pack	4
Order no	PAKL1

Description	LOC laboratory analogue diameter: 4.0 mm	LOC laboratory kit	LOC laboratory kit, expanded	LOC processing insert, black
Qty in pack	4	2	2	4
Order no	PLAL1	PLLS1	PLLS2	PLPE1

Description	LOC block-out ring	LOC spacer sleeve	LOC abutment holder	LOC parallel post
Qty in pack	20	4	4	4
Order no	PLAR1	PLDH1	PLAH1	ZPP01

Description	LOC insertion instrument	LOC insertion instrument	LOC core tool
Length	15 mm	21 mm	
Order no	ZEIL1	ZEIL2	ZCT01

H = height; GH = gingival height

Ball anchor

Abutments

Description	Ball anchor GH 1.5 mm	Ball anchor GH 3.0 mm	Ball anchor GH 4.5 mm
Order no	PKA01	PKA02	PKA03

Accessories

Description	Laboratory analogue for ball anchor	Matrix for ball anchor 0.5 kg	Matrix for ball anchor 1.0 kg	Matrix for ball anchor 1.5 kg
Qty in pack	1	1	1	1
Order no	PLAK1	PMAK1	PMAK2	PMAK3

Description	Red O-ring 0.5 kg	Blue O-ring 1.0 kg	Black O-ring 1.5 kg	Insertion instrument for ball anchor
Qty in pack	2	2	2	1
Order no	PKOR1	PKOR2	PKOR3	ZEIK1

H = height; GH = gingival height

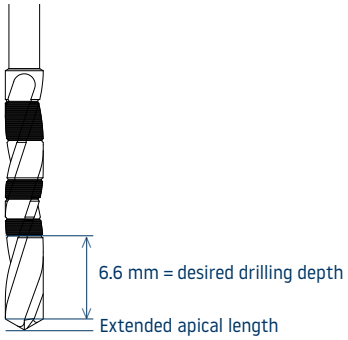
Surgical instruments

Excess apical lengths

During preparation of the implant bed, it should be remembered that the effective drilling depth varies apically by 0.4 - 0.7mm and, depending on the diameter of the implant drill, is deeper than the desired implant length. This additional length must be taken into account as early as during the planning phase.

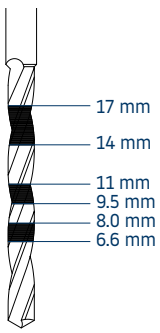
	Tri-spade drill A		Tri-spade drill M		Tri-spade drill B	
Diameter	Ø2.4mm	Ø2.9mm	Ø2.9mm	Ø3.3mm	Ø3.3mm	Ø3.8mm
Apical length	0.4mm	0.5mm	0.5mm	0.6mm	0.6mm	0.7mm

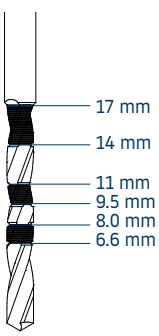
An example of extended apical length



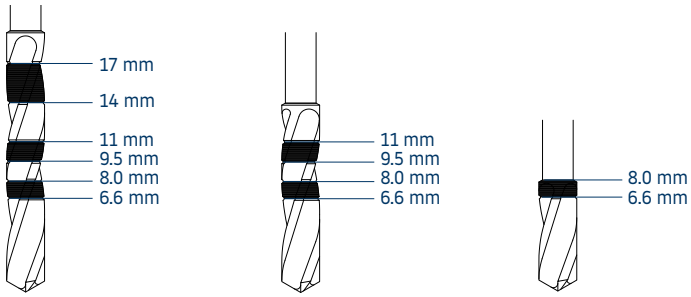
Explanation of laser marking

Twist drill

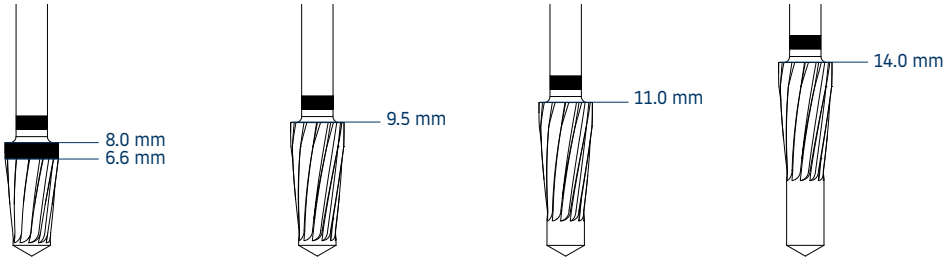




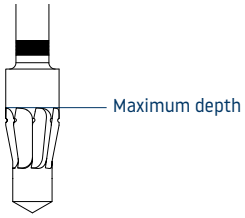
Tri-spade drill



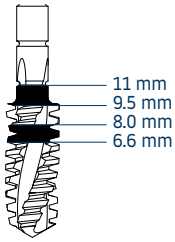
Conical reamer



Cortical countersink



Tap



General instruments

Description	Round bur	Initial bur, short	Initial bur, long	Parallel gauge
Order no	0RB01	0IB01	0IB02	0rl01

Suitable for all implant diameters

Description	Twist drill, long	Twist drill	Drill extension	HT drill extension
Order no	0SB01	0SB02	ZBV01	ZBV02

Suitable for all implant diameters

Tri-spade Drill

A diameter 3.5 mm

Description	Tri-Spade Drill A Ø2.4 XS	Tri-Spade Drill A Ø2.4 S	Tri-Spade Drill A Ø2.4 M	Tri-Spade Drill A Ø2.9 S	Tri-Spade Drill A Ø2.9 M
Order no	ATS01	ATS02	ATS03	ATS12	ATS13

M diameter 4.0 mm

Description	Tri-Spade Drill M Ø2.9 XS	Tri-Spade Drill M Ø2.9 S	Tri-Spade Drill M Ø2.9 M	Tri-Spade Drill M Ø3.3 S	Tri-Spade Drill M Ø3.3 M
Order no	MTS01	MTS02	MTS03	MTS12	MTS13

B diameter 4.5 mm

Description	Tri-Spade Drill B Ø3.3 XS	Tri-Spade Drill B Ø3.3 S	Tri-Spade Drill B Ø3.3 M	Tri-Spade Drill B Ø3.8 S	Tri-Spade Drill B Ø3.8 M
Order no	BTS01	BTS02	BTS03	BTS12	BTS13

Conical Reamer

Description	Conical Reamer A 6.6 mm / 8.0 mm	Conical Reamer A 9.5 mm	Conical Reamer A 11.0 mm	Conical Reamer A 14.0 mm
Order no	AKA01	AKA02	AKA03	AKA04

A diameter 3.5 mm

Description	Conical Reamer M 6.6 mm / 8.0 mm	Conical Reamer M 9.5 mm	Conical Reamer M 11.0 mm	Conical Reamer M 14.0 mm
Order no	MKA01	MKA02	MKA03	MKA04

M diameter 4.0 mm

Description	Conical Reamer B 6.6 mm / 8.0 mm	Conical Reamer B 9.5 mm	Conical Reamer B 11.0 mm	Conical Reamer B 14.0 mm
Order no	BKA01	BKA02	BKA03	BKA04

B diameter 4.5 mm

Cortical Countersink

Note:
This is an optional instrument for use where the cortical bone is particularly thick in order to reduce mechanical pressure.

Description	Cortical Countersink A	Cortical Countersink M	Cortical Countersink B
Order no	AKS01	MKS01	BKS01

Tap

Description	Tap A (diameter 3.5 mm)	Tap M (diameter 4.0 mm)	Tap B (diameter 4.5 mm)
Order no	AGS01	MGS04	BGS02

Accessories

Description	Ratchet	Torque control device	Torque ratchet	Torque ratchet with bending arm
Order no	ZRA01	ZDMA1	ZRA02	ZRA03

Description	Open-ended spanner	Sleeve Key	High-torque adapter S	High-torque adapter M	Insertion handle XL
Order no	ZGS01	ZHS01	ZHT0S	ZHT0M	ZEHXL

Further accessories

Description	Screwdriver S	Screwdriver L	One-piece Screwdriver XS	One-piece Screwdriver short
Order no	ZSD0S	ZSD0L	ZSDXS	ZSD1S

Description	Drill extension	HT-Drill extension
Order no	ZBV01	ZBV02

Description	Mechanical insertion instrument S	Mechanical insertion instrument L
Order no	ZEI01	ZEI02

Note:
check the O-ring each time before the insertion instruments are used. If there are signs of damage or wear, it must be replaced. There is a risk of insufficient grip between the insertion instrument and the implant.

Description	Replacement O-rings
Qty in pack	10
Order no	ZEIOR

Description	Cover screw
Order no	PMS01

Description	Manual abutment remover	Mechanical abutment remover S	Mechanical abutment remover L	Removal sleeve
Order no	ZAI01	ZAI51	ZAI52	ZRH01

Note:
the self-locking cone enables an absolutely rotation-stable connection to the implant that provides a virtually bacteria-proof seal. This connection can be disengaged again with the aid of the abutment remover.

Description	Reverse torque instrument
Order no	ZRDI1

Description	Screw remover, short	Screw remover, long
Order no	ZAD01	ZAD02

Description	Abutment positioning key
Order no	ZAPS1

Description	Handwheel for ratchet insert	Handwheel with plate	Laboratory handle	Positioning key
Order no	ZHR01	ZHR02	ZHG01	ZPS01

Surgical instrument kit (order no 0CK02)

All instruments intended for use in surgery are available in the myplant two surgical instrument kit. This enables particularly structured and user-friendly storage and simplifies use during implantation by means of colour-coding for the instruments.

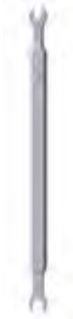
Description	Surgical instrument kit
Order no	0CK02

The instrument kit contains the following items:

Description	Mechanical insertion instrument S	Mechanical insertion instrument L	Sleeve Key
Quantity in the kit	1	1	1
Order no	ZEI01	ZEI02	ZHS01

Description	Screwdriver S	Screwdriver L	One-piece screwdriver, short	One-piece screwdriver XS
Quantity in the kit	1	1	1	1
Order no	ZSD0S	ZSD0L	ZSD1S	ZSDXS

Description	High-torque adapter M	High-torque adapter S	Drill extension	HT drill extension
Quantity in the kit	1	1	1	1
Order no	ZHT0M	ZHT0S	ZBV01	ZBV02



Description	Reverse torque instrument	Handwheel	Torque ratchet with bending arm	Open-ended spanner
Quantity in the kit	1	1	1	1
Order no	ZRDI1	ZHR01	ZRA03	ZGS01

Description	Round bur	Initial bur, short	Twist drill, long	Twist drill	Parallel gauge
Quantity in the kit	1	1	1	1	2
Order no	0RB01	0IB01	0SB01	0SB02	0rl01

Further contents on the next page

Contents of the surgical instrument kit (order no OCK02), continued

Description	Tri-Spade Drill A Ø2.4 M	Tri-Spade Drill A Ø2.9 M	Conical Reamer A 6.6 mm / 8.0 mm	Conical Reamer A 9.5 mm	Conical Reamer A 11.0 mm	Conical Reamer A 14.0 mm
Quantity in the kit	1	1	1	1	1	1
Order no	ATS03	ATS13	AKA01	AKA02	AKA03	AKA04

Description	Cortical Countersink A	Tap A
Quantity in the kit	1	1
Order no	AKS01	AGS01

Description	Tri-Spade Drill M Ø2.9 M	Tri-Spade Drill M Ø3.3 M	Conical Reamer M 6.6 mm / 8.0 mm	Conical Reamer M 9.5 mm	Conical Reamer M 11.0 mm	Conical Reamer M 14.0 mm
Quantity in the kit	1	1	1	1	1	1
Order no	MTS03	MTS13	MKA01	MKA02	MKA03	MKA04

Description	Cortical Countersink M	Tap M
Quantity in the kit	1	1
Order no	MKS01	MGS04

Description	Tri-Spade Drill B Ø3.3 M	Tri-Spade Drill B Ø3.8 M	Conical Reamer B 6.6 mm / 8.0 mm	Conical Reamer B 9.5 mm	Conical Reamer B 11.0 mm	Conical Reamer B 14.0 mm
Quantity in the kit	1	1	1	1	1	1
Order no	BTS03	BTS13	BKA01	BKA02	BKA03	BKA04

Description	Cortical Countersink B	Tap B
Quantity in the kit	1	1
Order no	BKS01	BGS02

Surgical instrument kit, diameter 4.0 (order no CKB40)

contains the following items:

Description	Manual insertion instrument M	Mechanical insertion instrument S	Screwdriver S	Reverse torque instrument
Quantity in the kit	1	1	1	1
Order no	ZEI0M	ZEI01	ZSD0S	ZRDI1

Description	High-torque adapter M	Drill extension	Initial bur, short	Twist drill	Open-ended spanner
Quantity in the kit	1	1	1	1	1
Order no	ZHT0M	ZBV01	0IB01	0SB01	ZGS01

Description	Tri-Spade Drill A XS	Tri-Spade Drill A M	Tri-Spade Drill M XS	Tri-Spade Drill M M
Quantity in the kit	1	1	1	1
Order no	ATS01	ATS03	MTS01	MTS03

Description	Conical Reamer M 6.6 mm / 8.0 mm	Conical Reamer M 9.5 mm	Conical Reamer M 11.0 mm	Conical Reamer M 14.0 mm	Tap M
Quantity in the kit	1	1	1	1	1
Order no	MKA01	MKA02	MKA03	MKA04	MGS04

Prosthodontic collections

Prosthodontics box (order no PPB03)

contains the following items:

Description	Torque ratchet	Screwdriver S	Screwdriver L	Screw remover, short	Screw remover, long
Quantity in the kit	1	1	1	1	1
Order no	ZRA02	ZSD0S	ZSD0L	ZAD01	ZAD02

Description	High-torque adapter S	Handwheel with plate	Abutment ejection instrument	Abutment ejection instrument	Removal sleeve
Quantity in the kit	1	1	1	1	2
Order no	ZHT0S	ZHR02	ZAI51	ZAI52	ZRH01

Laboratory box (order no PLB01)

contains the following items:

Description	High-torque adapter M	Screwdriver S	Screwdriver L	Handwheel
Quantity in the kit	1	1	1	1
Order no	ZHT0M	ZSD0S	ZSD0L	ZHR01

Further information

The myplant two instrument set

Taking the anatomical conditions and available space into account, the correct position and number of implants, together with a suitable implant diameter and length, should be selected individually for every patient.

A systematic surgical technique for preparing the implant bed has been developed to provide enhanced primary stability (EPS). The implant bed can be prepared in three steps adapted to the bone quality available. This results in the optimisation of primary stability and enhances the options for immediate restoration.
In cases where regular primary stability (RPS) is preferred or in cases of very hard bone, the RPS Tri-Spade drill can be used.

Note:
the instruments are not delivered sterile. The instruments must be checked for operational suitability before every use. Please also observe the 'General application and safety instructions for MEISINGER products in the medical field' and the 'Notes on reprocessing (cleaning, disinfecting and sterilising) medical devices from Hager & Meisinger GmbH'. Ensure that the instruments suitable for each specific implant variant are used.

Quick overview of the surgical procedure

	Ø 3.5mm	Ø 4.0mm	Ø 4.5mm	Opt. rot. speed	Torque
Smoothing of the alveolar ridge	Round bur ORB01			2.000 min^{-1}	-
Initial drilling	Initial bur OIB01 OIB02			1.000 min^{-1}	-
Marking of the implant axis – diameter 2.0 mm	Twist Drill OSB01 OSB02			800 min^{-1}	-
EPS (Enhanced Primary Stability) 1. Expansion of the implant bed – diameter 2.4mm for A, M & B Implants	Tri-Spade Drill A Ø2.4 ATS01 ATS02 ATS03			800 min^{-1}	-
RPS (Regular Primary Stability) 1. Expansion of the implant bed – diameter 2,9mm for A, M & B Implants	Tri-Spade Drill A Ø2.9 ATS12 ATS13			800 min^{-1}	-
EPS (Enhanced Primary Stability) 2. Expansion of the implant bed – diameter 2.9mm for M & B Implants		Tri-Spade Drill M Ø2.9 MTS01 MTS02 MTS03		800 min^{-1}	-
RPS (Regular Primary Stability) 2. Expansion of the implant bed – diameter 3,3mm for M & B Implants		Tri-Spade Drill M Ø3.3 MTS12 MTS13		800 min^{-1}	-
EPS (Enhanced Primary Stability) 3. Expansion of the implant bed – diameter 3,3mm for B implants			Tri-Spade Drill B Ø3.3 BTS01 BTS02 BTS03	800 min^{-1}	-
RPS (Regular Primary Stability) 3. Expansion of the implant bed – diameter 3,8mm for B implants			Tri-Spade Drill B Ø3.8 BTS12 BTS13	800 min^{-1}	-
Conical expansion of the implant bed	Conical Reamer A AKA01 / AKA02 / AKA03 / AKA04	Conical Reamer M MKA01 / MKA02 / MKA03 / MKA04	Conical Reamer B BKA01 / BKA02 / BKA03 / BKA04	50 min^{-1}	max. 50 Ncm
Optional: conical expansion of the implant bed where there is a lack of cancellous bone	Cortical Countersink A AKS01	Cortical Countersink B MKS01	Cortical Countersink C BKS01	50 min^{-1}	max. 50 Ncm
Pre-tapping of the implant thread	Tap A AGS01	Tap M MGS04	Tap B BGS02	15 min^{-1}	max. 50 Ncm
Implant insertion	Implant A A3566 / A3580 / A3595 / A3511 / A3514	Implant M M4066 / M4080 / M4095 / M4011 / M4014	Implant B B4566 / B4580 / B4595 / B4511 / B4514	15 min^{-1}	max. 50 Ncm

Recommended torques for myplant two prosthodontics

	Product	Torque
	Closure screws	5 - 7 Ncm
	Gingiva former	
	Transfer posts	
	Repositioning posts	
	Scan bases	
	Protective caps	
	Occlusal screw	10 Ncm
	Occlusal screw for ceramic	
	Occlusal screws for multi-unit	
	Standard abutment	15 Ncm
	Shoulder abutment	
	Titanium base	
	PreFace abutment	
	Multi-unit abutment	25 Ncm
	LOCATOR®	
	OT Equator	
	Ball anchor	

Note: the images are examples. The torque specifications are valid for all variants of the products mentioned.

OVERVIEW OF MATERIALS

Unalloyed grade 4 titanium

Grade 4 titanium is used for implants and abutments.

Chemical composition

O	Fe	C	N	H	Ti
0.4% max.	0.5% max.	0.08% max.	0.05% max.	0.015% max.	Remainder

Technical notes

As a material, grade 4 titanium complies with the ISO 5832-2 and ASTM F67 standards.

Grade 5-ELI/grade 23 titanium alloy

Grade 5-ELI/grade 23 titanium alloy is used for abutments.

Chemical composition

Al	V	O	Fe	H	C	N	Ti
5.5-6.5% max.	3.5-4.5% max	0.13% max	0.25% max.	0.012% max	0.08% max.	0.05% max	Rest

Technical notes

As a material, grade 5-ELI titanium alloy complies with the ISO 5832-3 and ASTM F136 standards.

Stainless steel 1.4197

Stainless steel 1.4197 is used for instruments that are used to prepare the implant bed.

Chemical composition

Cr	Mn	Mo	Si	Ni	C	S	P
12.5-14.0% max.	2.00% max.	1.00-1.50% max.	1.00% max.	0.75-1.50% max.	0.20-0.26% max.	0.15-0.27% max.	0.04% max.

Technical notes

As a material, stainless steel 1.4197 complies with the ISO 13504 and ASTM F899 standards.

Important information about our ordering services

Order line & consultation hotline

Our order and consultation hotline is at your service at the following times:

Monday–Thursday	8:00 – 18:00
Friday	8:00 – 17:00

When orders are received by the following times, we guarantee that your goods will be despatched that same day:

Monday–Thursday	By 14:00
Friday	By 14:00

Delivery times & shipping charges (Germany)

Standard delivery service

€ 7,10	Delivery in 1–3 working days

Express delivery service

Delivery on the next working day

€ 13,50*	Next working day
€ 16,30*	By noon**
€ 21,50*	By 10:30**
Holidays	No delivery service

*The shipping costs stated are net plus the applicable statutory VAT.

** All delivery times stated are guidelines provided by our shipping partner.

The stated delivery times are approximate times provided by our shipping partners and may vary depending on the situation.

Additional surcharges/special tariffs

Saturday delivery service by noon	€ 30,00
Fee for cash on delivery	€ 10,00
Island surcharge	€ 15,00

(Only standard shipping possible/no express delivery)

Right of return

- Only immaculate, unopened goods in the original packaging
- Right of return within 30 days with a copy of the invoice (valid from the invoice date)

myplant two implant warranty

The myplant two warranty provided by myplant GmbH includes a lifetime warranty on all implants in its product range. This is effective in the event of manufacturing and material defects as well as non-osseointegrated implants. Hager & Meisinger GmbH will provide a free replacement implant at no additional charge.

Exclusion criteria

Hager & Meisinger GmbH will reject any type of warranty and liability claims for damage caused by inappropriate handling and failure to comply with the manufacturer's instructions.
Responsibility rests exclusively with the user and clinician.

Further exclusion criteria

Implant loss due to external factors (accidents, traumas, mistreatment etc.). Implant loss caused by failure to heed contraindications (use of medication, drug and alcohol abuse, tobacco consumption, illnesses). For more detailed information, refer to the instructions for use.
Further claims and consequential damage such as laboratory costs and clinical follow-up treatment are excluded from the warranty.

Guidelines

All myplant two items are to be used according to the instructions for use provided by the manufacturer. The use of components from outside the system as well as any type of modification may impair the function of the myplant two implant system and precludes any warranty or replacement by Hager & Meisinger GmbH. This applies in particular to other application procedures that are not recommended. System faults due to confusion between tools and implants are to be minimized. Colour coding and/or labelling should therefore be observed. The processing and application of myplant two products take place outside our control and are solely the responsibility of the user. No liability will be accepted for damage caused during such activities. Technical advice on the application of our products is provided verbally, in writing, via electronic media or through demonstrations. This is based on state-of-the-art science and technology as known to us at the time of going to market. It does not absolve the user of the responsibility of personally checking the product, its suitability in relation to the indication and training in the field of dentoalveolar surgery/implantology.

Availability

Some of the myplant two products listed in this document may not be available in all countries. Detailed information is available from myplant GmbH upon request.

Caution

In addition to the warnings included in this document, our products are to be protected against aspiration when used intraorally. Please observe the appropriate instructions for use as well as the manual for surgical and prosthodontic procedures.

Validity

The publication of this document voids all previous versions.

Documentation

You can obtain further information on myplant two products from the relevant instructions for use or your designated member of the myplant two team.

Regulatory requirements

Meisinger has been a byword for high-quality medical devices since 1888. The quality management system of a company that manufactures medical devices needs to meet special requirements. These particularly exacting requirements are defined by ISO 13485 and our company works meticulously to meet them. An MDSAP certificate according to ISO 13485:2016 confirms compliance with the requirements of international authorities in the USA (FDA), Canada (Health Canada), Australia (TGA), Japan (MHLW) and Brazil (ANVISA). All medical devices that you purchase from us as a customer comply with all applicable requirements of the Medical Device Directive (93/42/EEC). Our company is certified by an independent notified body according to standard specifications. Current certificates can be found on our homepage at www.meisinger.de.

myplant

WARRANTY FORM
Implantology

1. Customer information

Name of doctor: _____ Customer numbe _____

Address: _____ Telephone: _____

_____ E-mail: _____

_____ Documented by: _____

2. Product information

Ref. no:	Batch no:	Inserted on:	Removed on:	Region:
		D D M M Y Y	D D M M Y Y	
		D D M M Y Y	D D M M Y Y	
		D D M M Y Y	D D M M Y Y	

3. Patient information

Patient ID: _____ Age: _____ ☐ F ☐ M

Bone density ☐ D1 ☐ D2 ☐ D3 ☐ D4 Smoker? ☐ No ☐ Yes

Medical history:

☐ Alcohol or drug abuse
☐ Blood coagulation disorder
☐ Chemotherapy during implantatic
☐ Diabetes mellitus
☐ Compromised immune resistance
☐ Treatment with corticosteroids
☐ Lymphatic disorder
☐ Untreated endocrine disorders
☐ Psychological disorders
☐ Radiotherapy in head/neck region
☐ Xerostomia
☐ No relevant findings
☐ Immunological disorders
☐ Known allergies: _____
☐ Other relevant disorders: _____

4. Surgical information

If the implant was inserted and removed on the same day, was another implant successfully inserted in the same place? ☐ No ☐ Ye Batch: _____

What kind of implement was used? ☐ Handwheel ☐ Ratchet ☐ Contra-angle Torque: _____ Ncm

Did any problems occur with the pre-installed transfer part? ☐ No ☐ Yes _____

Were any of the following evident at the time of the surgery? ☐ Complication during preparation of the implant bed

☐ Periodontal disease ☐ Mucosal disease ☐ Local infection/subacute chronic osteitis

What was the maximum speed used during preparation? _____ min^{-1}

Which drill was used last? _____

Was the thread pre-tapped? ☐ Yes ☐ No

Was the implant completely covered by bone? ☐ Yes ☐ No

Was primary stability achieved? ☐ Yes ☐ No _____ Ncm

Was osseointegration achieved? ☐ Yes ☐ No

Was augmentation performed during surgery? ☐ Yes ☐ No If yes, please explain in more deta

_____ Material used: _____

Was a membrane used? ☐ Yes ☐ No

☐ Absorbable ☐ Non-absorbable Material used: _____

5. Information about the incident

How was the hygiene around the implant? ☐ Very good ☐ Good ☐ Average ☐ Poor

Did one or more of these factors play a part in the incident?

☐ Biomechanical overload ☐ Bruxism ☐ Bone resorption
☐ Implant fracture ☐ Peri-implantitis ☐ Infection
☐ Nerve compression ☐ Sinus perforation ☐ Immediate implantation
☐ Trauma or accident ☐ Overheating of the bone ☐ Insufficient bone quality
☐ Prior bone graft ☐ Adjacent endodontically treated tooth
☐ Other: _____

The following was observed upon implant loss

☐ Abscess ☐ Asymptomatic ☐ Bleeding
☐ Inflammation ☐ Increased sensitivity ☐ Fistula
☐ Instability ☐ Pain ☐ Swelling
☐ Numbness ☐ Hypersensitivity

Had the implant already been prosthodontically rest ☐ No ☐ Yes (please complete section 6)

What was the reason for implant loss in your opinion? _____

_____

6. Information about the prosthodontics

Type of restoration ☐ Crown ☐ Bridge ☐ Partial denture (maxillary) ☐ Partial denture (mandibular)
☐ Complete denture (maxillary) ☐ Complete denture (mandibula ☐ Other _____

Date of temporary restoration D D M M Y Y
Date of final restoration D D M M Y Y
Date of removal D D M M Y Y

Was a torque control device used? ☐ Yes _____ Ncm ☐ No ☐ Not known
Were check-ups performed? ☐ Yes ☐ No

Case description: _____

_____

7. Instruments

Approximate number of applications ☐ First time ☐ 2-5 ☐ 6-10 ☐ >10
Method of cleaning ☐ Manual ☐ Ultrasonic ☐ Thermal disinfector
Method of sterilisatic ☐ Autoclaving ☐ Dry heat ☐ Chemical autoclaving

Which cleaning agents were used? _____

_____

8. Confirmation

All products returned are to be autoclaved and labelled as 'sterile'.

Please add all the necessary information concerning the products subject to complaint in this warranty form, taking into account the Hager & Meisinger GmbH warranty terms and conditions, and send this form back to Hager & Meisinger GmbH together with the autoclaved products and any X-rays.
Please use a padded envelope for return shipment – the loss of individual parts during shipment will void the warranty.

Date: _____

Signature of doctor: _____

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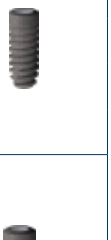
	M4011	Implant diameter 4.0 mm L 11.0 mm	12	
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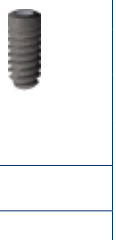
	B4511	Implant diameter 4.5 mm L 11.0 mm	12	
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Notes

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