


Properly **You Need**



Switzerland 



*special design
one stage implant system*



swiss made implants



*One-piece
special design
dental implants*

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Monoimplant Dental System



MONOIMPLANT

Monoimplant One-Piece Implants are designed by Novodent SA with its main production plant based in Yverdon-les-Bains, Switzerland.

Novodent SA is a Swiss dental implant company with distributors in Europe, Asia and many other countries. It aims to consistently provide high quality products at a reasonable cost manufactured according to Swiss precision while using only the most sophisticated machinery. Qualified and experienced international teams handle production and distribution processes in compliance with international standards of quality.

Customer satisfaction regarding price to performance ratio comes first for Novodent SA. Constant quality improvement and research are important in order to maintain the highest levels of customer trust and satisfaction. Since being founded, Novodent SA has kept up with the latest scientific developments, innovative solutions and technological improvements in academic research and development studies in the field of dental implantology.

Switzerland

A reliable and well-known
world-class authority...

SWISS PRECISION

science,
mechanical
design
and
craftsmanship

Exquisite mechanical design
that serves you
for a lifetime.

Switzerland
has been one of the most
important craftsmanship
centres showing

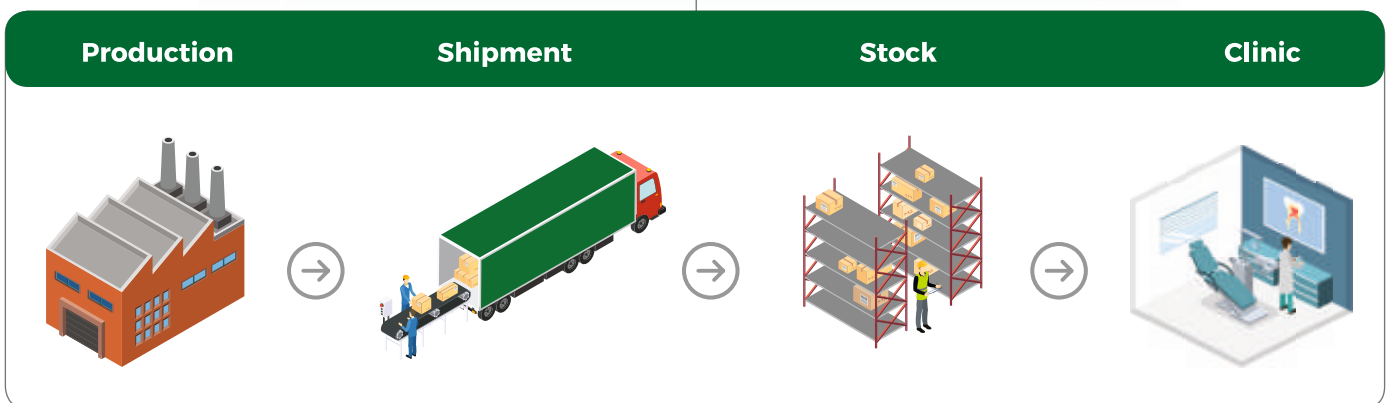
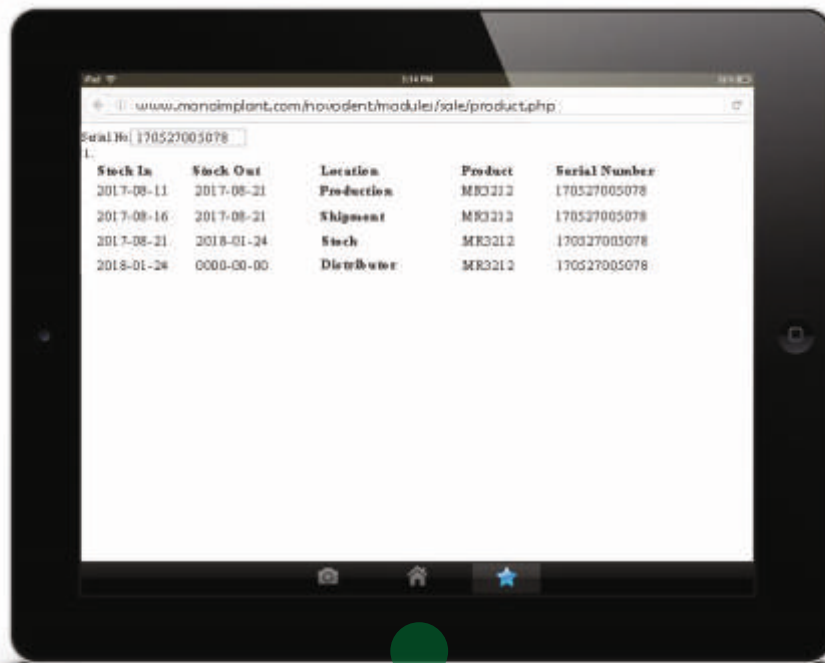
high precision and expertise

throughout history.

Product Traceability

Monoimplant

Monoimplant products can easily tracked from the moment of production until final delivery. Each product package features a barcode label with a lot number created by the ERP software system. Starting with production, every step can be monitored with the barcode system, including stock delivery, customer delivery and after sales follow-up.

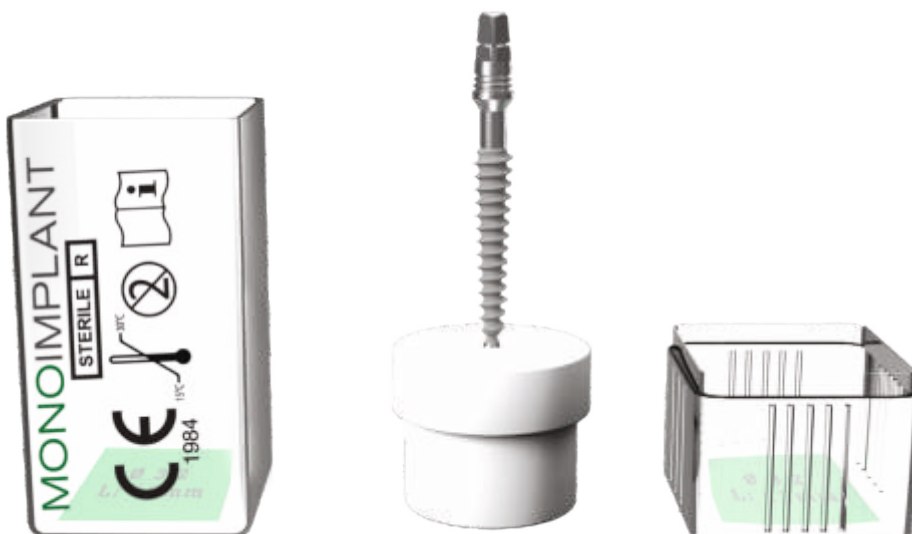


Packaging

Tyvek® Pack

Monoimplant places emphasis on the importance of protecting nature as well as human health. Therefore, all Monoimplant Implants are packaged in 100% eco-friendly, recyclable and sterile Tyvek® containers. Tyvek® is an inert chemical material. Its polymeric composition is highly preferred and advantageous in preserving sterilized medical devices. The containers are highly durable and easily sterilized.

The implant can easily be removed from the container and loaded into the osteotomy by using the fixture driver. Each container features a label containing the important product information such as type, length and colour code. Colour coding and associated diameters of the implant are classified according to the label on the container.



System specifications

The immediate loading of the Monoimplant is due to the following key factors:

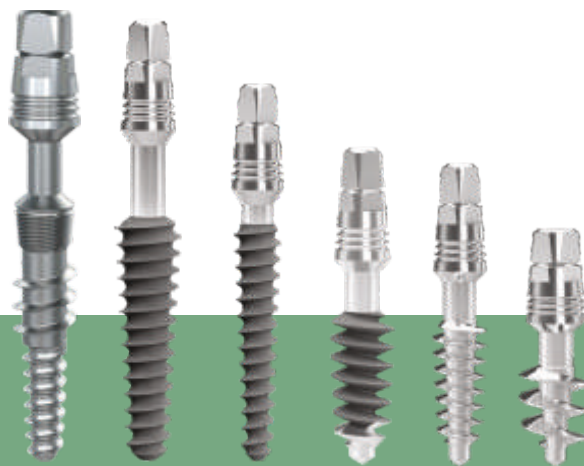
The principle of second cortical penetration and since Monoimplant is a one-piece monolithic system, it already includes an abutment at the top of the implant.

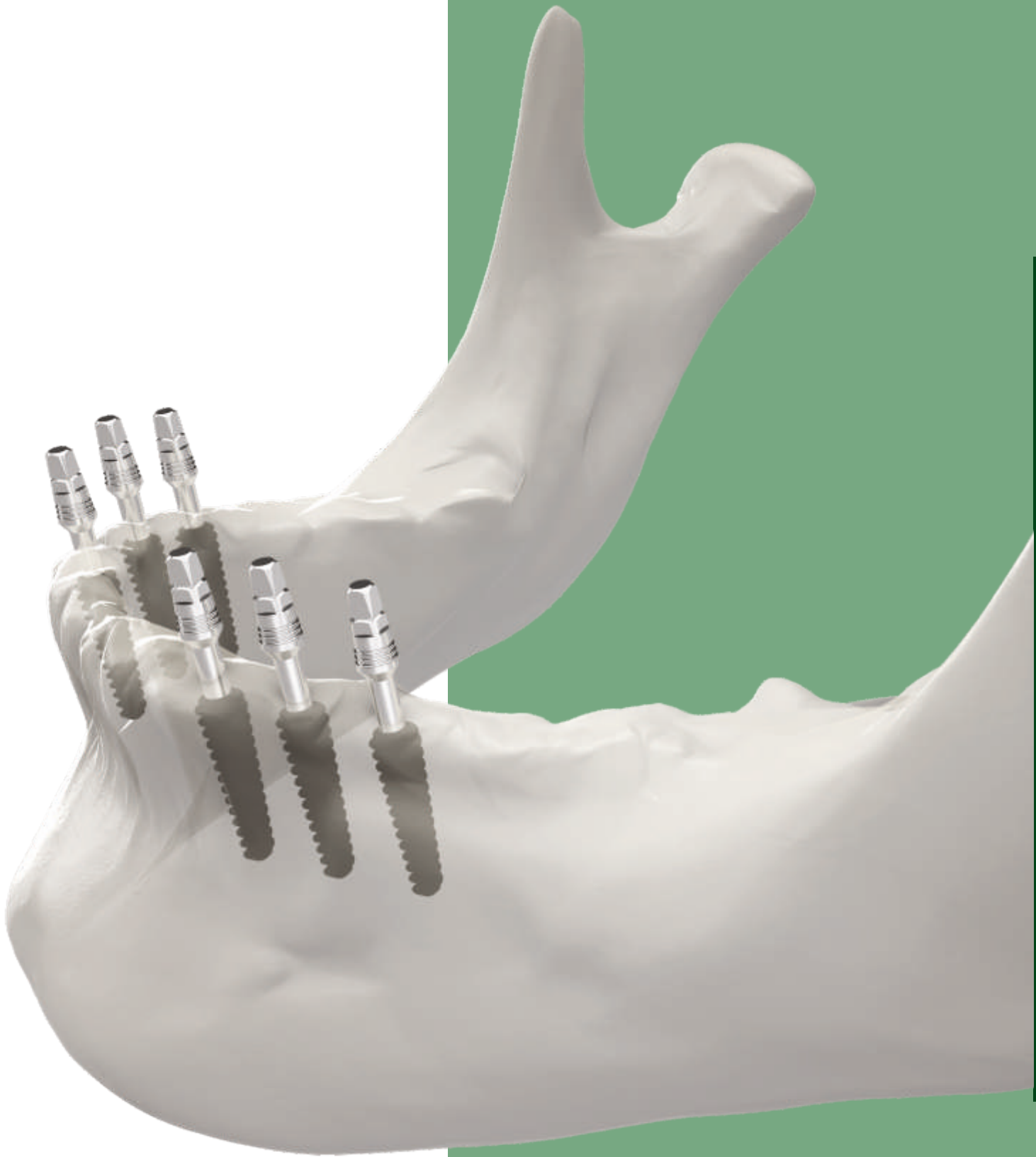
Second cortical:

Unlike most previous systems, Monoimplant implants are meant to be fixated between both cortical bone sites of the jawbone: Entry point and exit point. This connection provides very strong primal stability since the cortical bone can carry an enormous amount of load right away, unlike the much weaker trabecular (cancellous) bone, in terms of stability. Having no need for the bone to heal and the implant to gain initial stability, the patient can easily chew and apply pressure onto the implant installation site without it becoming loose.

One-piece system:

As a one-piece system, Monoimplant has the advantage of occupying less space than a conventional two-piece. That is due to the absence of the relatively wide well for the abutment to be screwed in. Since the implant occupies less space, less bone is lost and therefore, the bone requires less healing time.



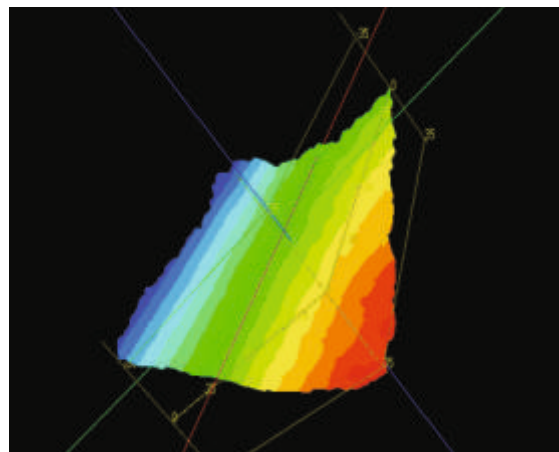
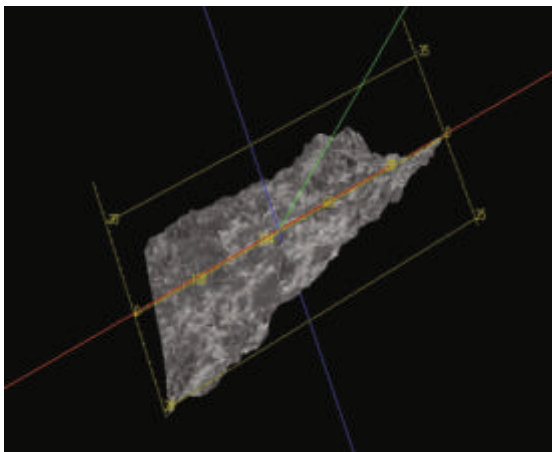


Surface

The surface of the Monoimplant Rough, Rough-Smooth, and Rough B Dental Implants is modified through a Resorbable Blast Media (RBM) process.

The material used for the RBM process is calcium phosphate, which is known as a highly resorbable and biocompatible material. Research has shown a higher percentage of bone to implant contact around implants treated with RBM.

Monoimplant Dental Implants (excluding Smooth Implants) undergo a series of cleaning stages before and after the RBM surface treatment.



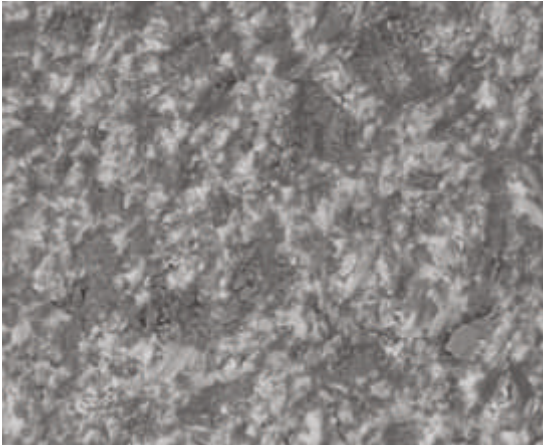
Dimensional surface topography



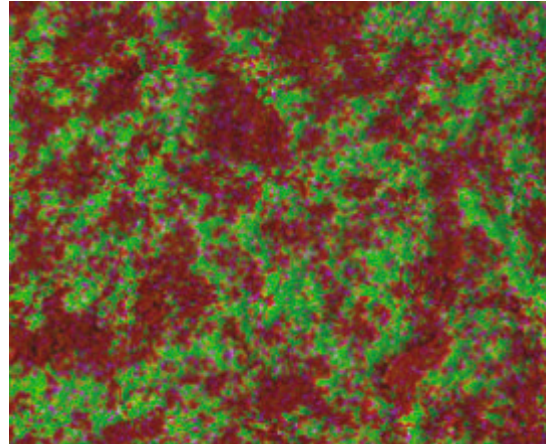
Magnification X 1000



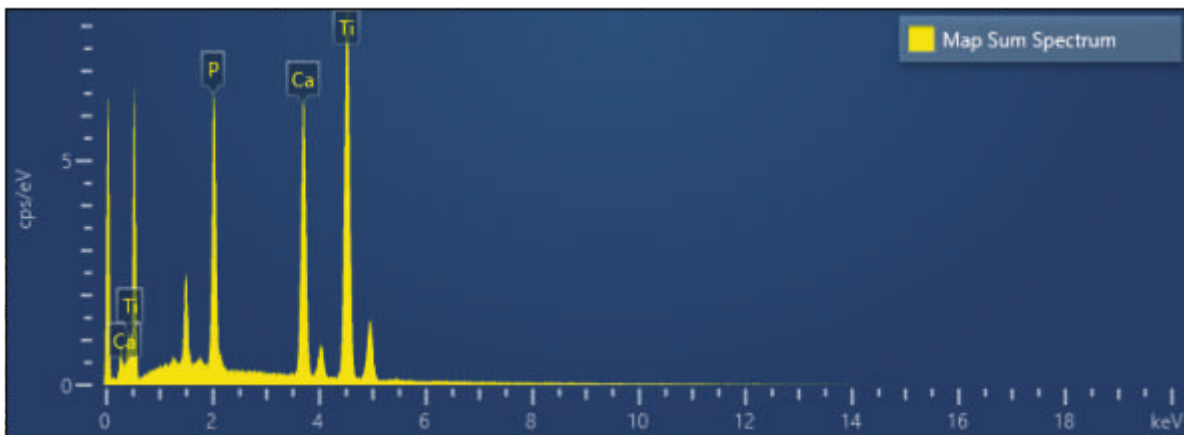
Magnification X 10000



Electron Image



EDS Layered Image



Thread and Neck design

Cutting thread shape:

The thread of the Monoimplant (Rough Monoimplant on the right) is designed to slice the bone with very thin cuts so that less bone is damaged, and hence more bone area corresponds to the stability of the implant.



Monoimplant System



The Monoimplant system is a one-piece, specially designed implant that connects to the bone from its apical and has excellent primary stability due to support from its connection to the cortical bone (basal bone).

Monoimplants can withstand greater force because of the integrated superstructure. The system is free from neck fractures, screw loosening and screw breakages with its one-piece structure.

- **Immediate loading**
- **Improved platform**
- **Special design**
- **RBM surface**
- **Extraordinary stability with all bone types**
- **Optimized dimensions**

Monoimplants have increased osseointegration performance even under the most critical clinical situations, shortening the treatment process to three days. Both the patients and dentists benefit greatly from this shortened treatment stage and healing time.

Monoimplant System, Types of implants.

Monoimplants are manufactured from biocompatible Grade 5 Titanium with high quality and great strength. The system has a wide variety of implants with different diameters and lengths.

Smooth

MONOIMPLANT



MOT

MONOIMPLANT



Rough

MONOIMPLANT

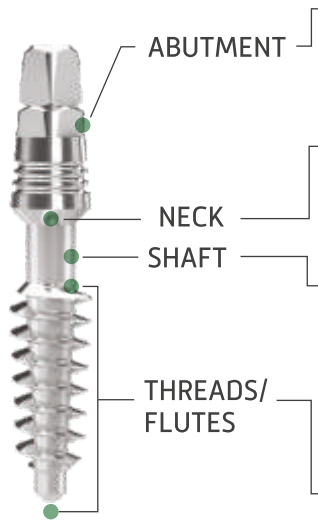


Rough B

MONOIMPLANT



Smooth
MONOIMPLANT



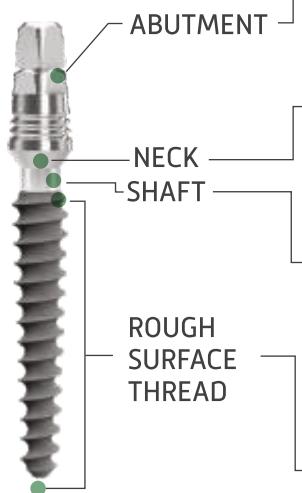
- Two different abutment types: normal and large
- Trimming can be done for prosthetic ease
- Compatible for welding (syncrystallization)

- Bendable neck: allows for establishing parallelism
- Smooth surface: to prevent peri-implantitis and bacterial contamination
- No place for bacterial colonization

- Strong and fracture resistant
- Long neck fit for bending

- Slices the bone instead of compressing it
- excellent cortical engagement due to a greater number of threads
- Sharp and self-tapping threads: to facilitate the engagement to crestal and apical cortical bones
- Bicortical fixation: to wedge the implant in two cortical bones for better stability
- Smooth surface: to penetrate the nasal floor of maxillary sinus region

Rough
MONOIMPLANT



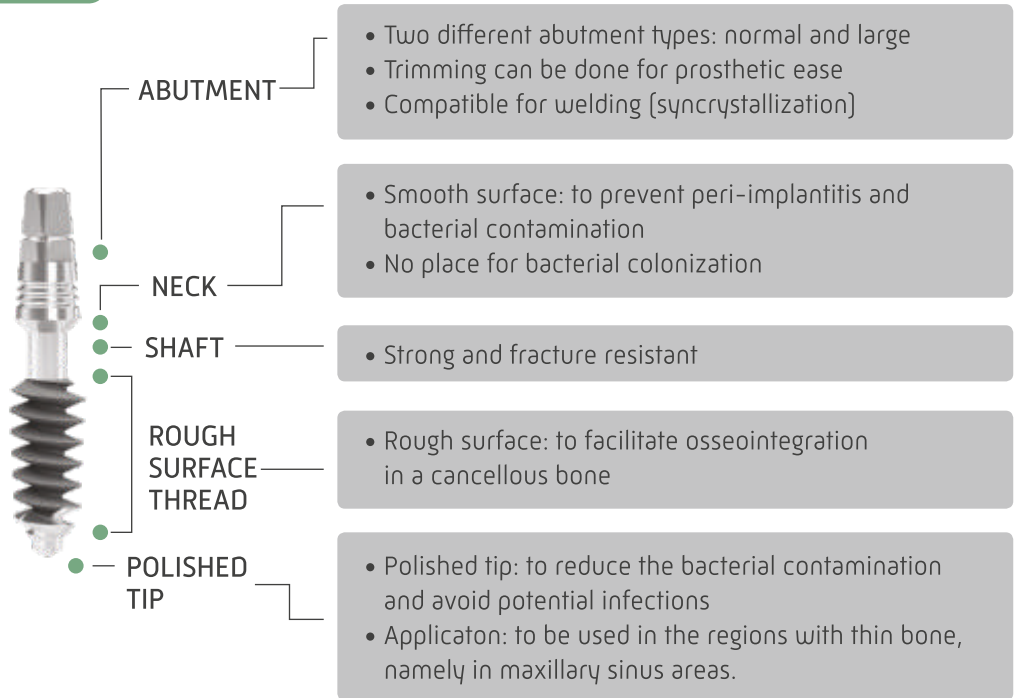
- Two different abutment types: normal and large
- Trimming can be done for prosthetic ease
- Compatible for welding (syncrystallization)

- Various neck heights provide better esthetics in case of varying gingiva height
- Smooth surface: to prevent peri-implantitis and bacterial contamination
- No place for bacterial colonization

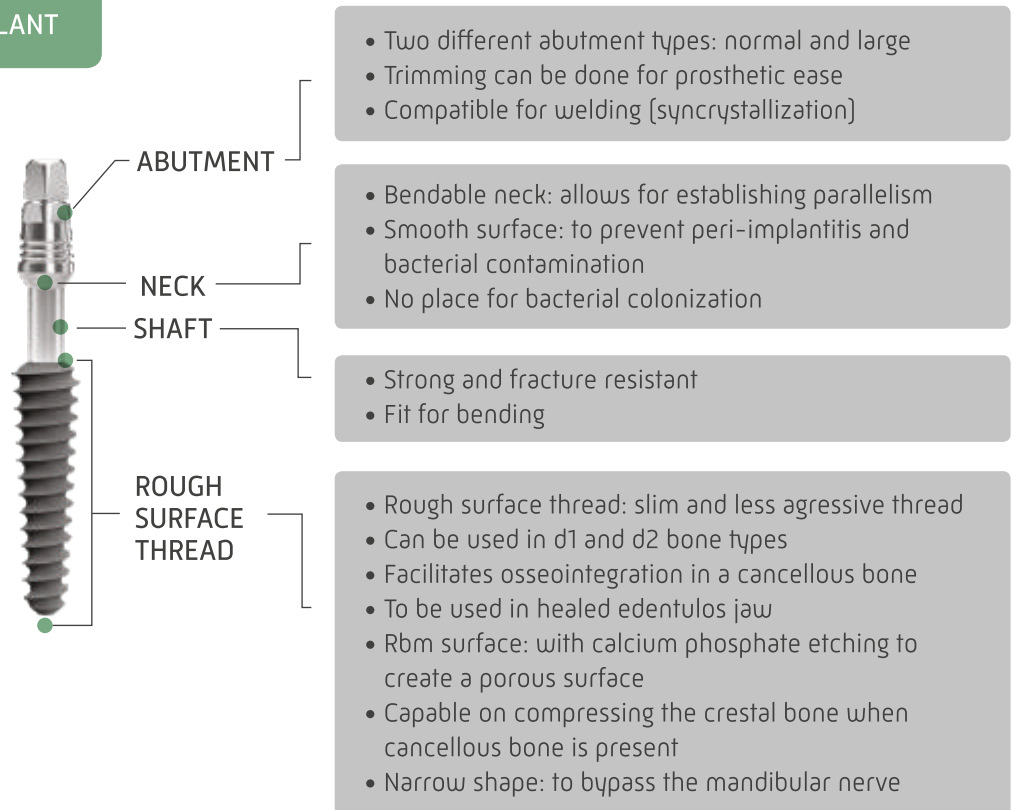
- Strong and fracture resistant

- Rough surface thread: slim and less aggressive thread
- Can be used in d1 and d2 bone types
- Facilitates osseointegration in a cancellous bone
- To be used in healed edentulous jaw
- Rbm surface: with calcium phosphate etching to create a porous surface
- Capable on compressing the crestal bone when cancellous bone is present
- Narrow shape: to bypass the mandibular nerve

Mot
MONOIMPLANT



Rough B
MONOIMPLANT





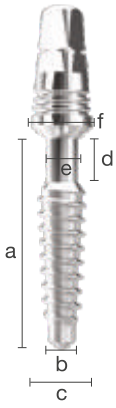
Smooth MONOIMPLANT

Smooth surface with an aggressive form is ideal for immediate fixation in the extraction socket for D3 and D4 bone types.

Indication for use:

Monoimplant Dental Fixtures with a smooth surface are used best for fixation onto hard bone types, namely D1 and D2. Its sharp thread serves to establish good primary stability, thus allowing for immediate loading. Such surface is also less susceptible to bacterial infections.

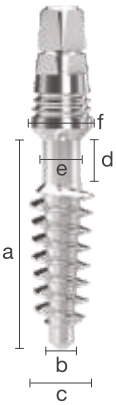
Smooth $\varnothing 2.7$



Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MS2710	10	2,1	2,7	0,5	1,75	3,35
MS2712	12	2,1	2,7	2,5	1,75	3,35
MS2714	14	2,1	2,7	4,5	1,75	3,35
MS2717	17	2,1	2,7	7,5	1,75	3,35
MS2720	20	2,1	2,7	10,5	1,75	3,35
MS2723	23	2,1	2,7	13,5	1,75	3,35

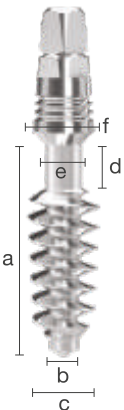
Attention! Smooth $\varnothing 2.7$ is prohibited from being used as an individual dental implant. If Smooth $\varnothing 2.7$ is to be used for the very thin jaw bone, then at least 12 implants per jaw must be inserted for good cortical anchorage.

Smooth $\varnothing 3.5$



Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MS3510	10	2,9	3,5	0,5	2,05	3,35
MS3512	12	2,9	3,5	2,5	2,05	3,35
MS3514	14	2,9	3,5	4,5	2,05	3,35
MS3517	17	2,9	3,5	7,5	2,05	3,35
MS3520	20	2,9	3,5	10,5	2,05	3,35
MS3523	23	2,9	3,5	13,5	2,05	3,35
MS3526	26	2,9	3,5	16,5	2,05	3,35
MS3529	29	2,9	3,5	19,5	2,05	3,35
MS3532	32	2,9	3,5	22,5	2,05	3,35
MS3535	35	2,9	3,5	25,5	2,05	3,35

Smooth $\varnothing 4.0$



Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MS4010	10	3,4	4	0,5	2,05	3,35
MS4012	12	3,4	4	2,5	2,05	3,35
MS4014	14	3,4	4	4,5	2,05	3,35
MS4017	17	3,4	4	7,5	2,05	3,35
MS4020	20	3,4	4	10,5	2,05	3,35
MS4023	23	3,4	4	13,5	2,05	3,35
MS4026	26	3,4	4	16,5	2,05	3,35
MS4029	29	3,4	4	19,5	2,05	3,35
MS4032	32	3,4	4	22,5	2,05	3,35
MS4035	35	3,4	4	25,5	2,05	3,35

Smooth $\varnothing 4.5$



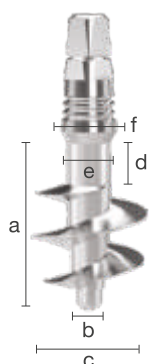
Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MS4508	08	3,9	4,5	0,5	2,05	3,35
MS4510	10	3,9	4,5	0,5	2,05	3,35
MS4512	12	3,9	4,5	2,5	2,05	3,35
MS4514	14	3,9	4,5	4,5	2,05	3,35
MS4517	17	3,9	4,5	7,5	2,05	3,35
MS4520	20	3,9	4,5	10,5	2,05	3,35
MS4523	23	3,9	4,5	13,5	2,05	3,35
MS4526	26	3,9	4,5	16,5	2,05	3,35
MS4529	29	3,9	4,5	19,5	2,05	3,35

Smooth ϕ 5.5



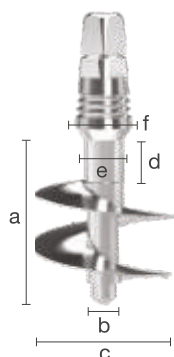
Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MS5508	8	4,9	5,5	0,5	2,25	3,35
MS5510	10	4,9	5,5	2,5	2,25	3,35
MS5512	12	4,9	5,5	4,5	2,25	3,35
MS5514	14	4,9	5,5	6,5	2,25	3,35
MS5517	17	4,9	5,5	10,5	2,25	3,35
MS5520	20	4,9	5,5	13,5	2,25	3,35

Smooth ϕ 7.0



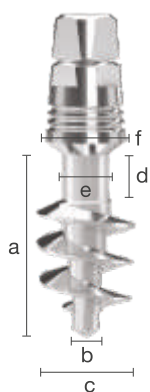
Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MS7008	8	6,4	7	0,5	2,25	3,35
MS7010	10	6,4	7	2,5	2,25	3,35
MS7012	12	6,4	7	4,5	2,25	3,35
MS7014	14	6,4	7	6,5	2,25	3,35

Smooth ϕ 9.0



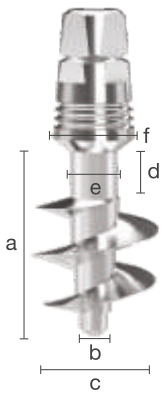
Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MS9008	8	8,4	9	0,5	2,25	3,35
MS9010	10	8,4	9	2,5	2,25	3,35
MS9012	12	8,4	9	4,5	2,25	3,35
MS9014	14	8,4	9	6,5	2,25	3,35

Smooth (Large Abutment) ϕ 5.5



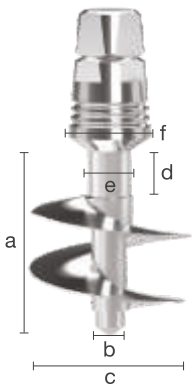
Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MS5508-LAB	8	4,9	5,5	1,5	2,25	4,35
MS5510-LAB	10	4,9	5,5	2,5	2,25	4,35
MS5512-LAB	12	4,9	5,5	4,5	2,25	4,35
MS5514-LAB	14	4,9	5,5	7,5	2,25	4,35
MS5517-LAB	17	4,9	5,5	10,5	2,25	4,35
MS5520-LAB	20	4,9	5,5	12,5	2,25	4,35

Smooth (Large Abutment) $\varnothing 7.0$

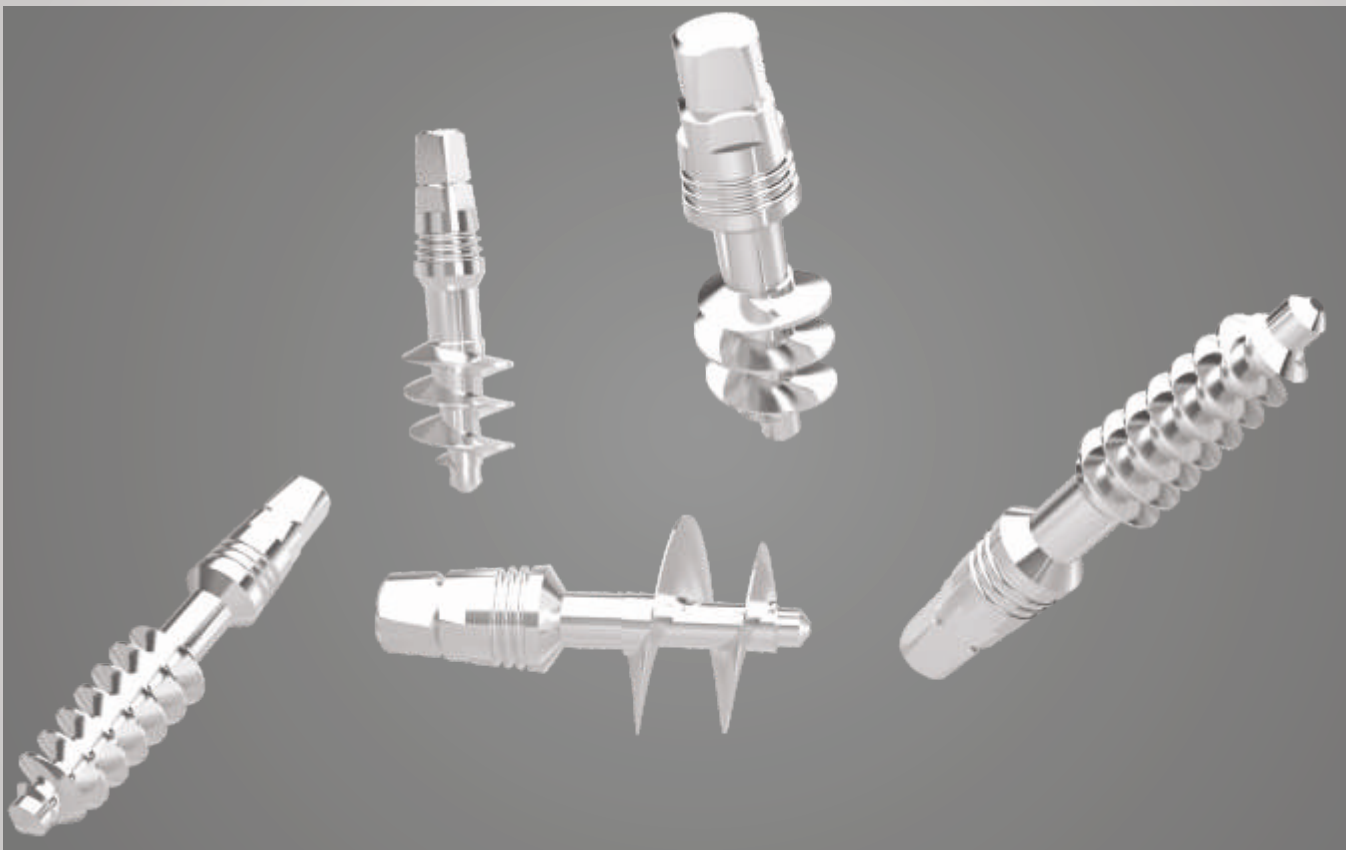


Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MS7008-LAB	8	6,4	7	1,5	2,25	4,35
MS7010-LAB	10	6,4	7	2,5	2,25	4,35
MS7012-LAB	12	6,4	7	4,5	2,25	4,35
MS7014-LAB	14	6,4	7	6,5	2,25	4,35

Smooth (Large Abutment) $\varnothing 9.0$



Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MS9008-LAB	8	8,4	9	0,5	2,25	4,35
MS9010-LAB	10	8,4	9	2,5	2,25	4,35
MS9012-LAB	12	8,4	9	4,5	2,25	4,35
MS9014-LAB	14	8,4	9	6,5	2,25	4,35



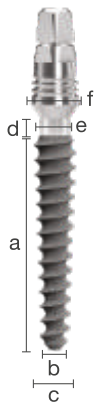


Rough MONOIMPLANT

RBM surface with calcium phosphate treatment. Their slim and less aggressive bodies are suitable for D1 and D2 bone types.

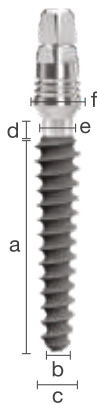
Indication for use:

Monoimplant dental fixtures with a rough surface have a less aggressive thread, which is better when operating with soft bone types like D3 and D4. Its porous thread structure also provides much faster and stronger osseointegration. Since the bone tends to grow in and around the implant at a faster rate and greater depth, they are strongly connected.



Rough ϕ 3.0

Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MR3010	10	2	3	1,25	2,05	3,35
MR3012	12	2	3	1,25	2,05	3,35
MR3015	15	2	3	1,25	2,05	3,35



Rough ϕ 3.2

Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MR3208	8	2,2	3,2	1,25	2,05	3,35
MR3210	10	2,2	3,2	1,25	2,05	3,35
MR3212	12	2,2	3,2	1,25	2,05	3,35
MR3215	15	2,2	3,2	1,25	2,05	3,35
MR3217	17	2,2	3,2	1,25	2,05	3,35



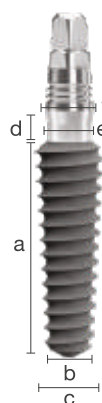
Rough ϕ 3.7

Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MR3706	6	2,4	3,7	1,25	2,4	3,35
MR3708	8	2,4	3,7	1,25	2,4	3,35
MR3710	10	2,4	3,7	1,25	2,4	3,35
MR3712	12	2,4	3,7	1,25	2,4	3,35
MR3715	15	2,4	3,7	1,25	2,4	3,35
MR3717	17	2,4	3,7	1,25	2,4	3,35



Rough ø4.1

Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MR4108	8	2,6	4,1	1,25	2,8	3,35
MR4110	10	2,6	4,1	1,25	2,8	3,35
MR4112	12	2,6	4,1	1,25	2,8	3,35
MR4115	15	2,6	4,1	1,25	2,8	3,35
MR4117	17	2,6	4,1	1,25	2,8	3,35



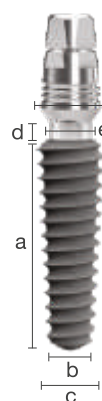
Rough ø4.9

Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MR4908	8	3,4	4,9	1,25	3	3,35
MR4910	10	3,4	4,9	1,25	3	3,35
MR4912	12	3,4	4,9	1,25	3	3,35
MR4915	15	3,4	4,9	1,25	3	3,35



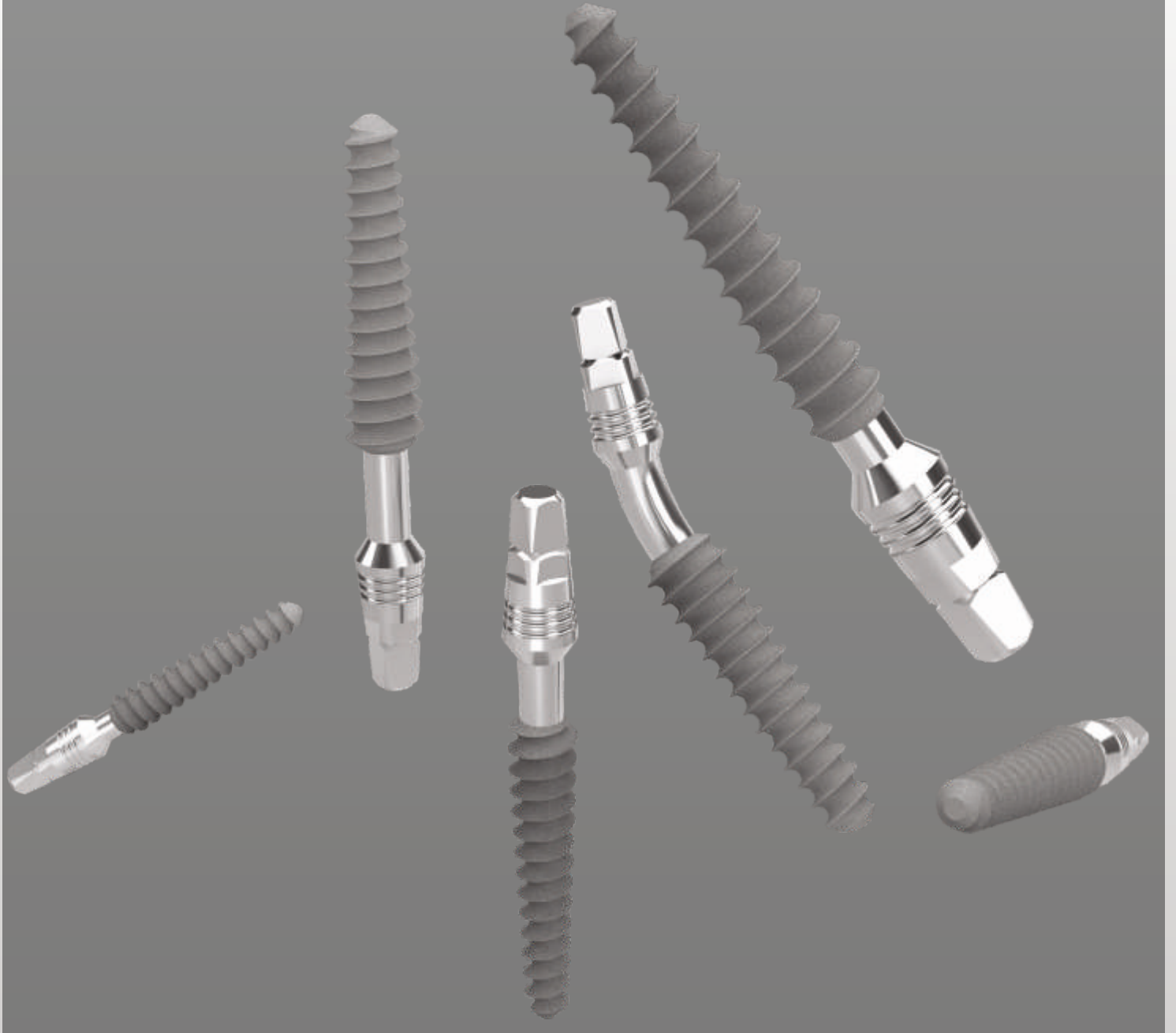
Rough (Large Abutment) ø4.1

Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MR4108-LAB	8	2,6	4,1	1,25	2,8	4,35
MR4110-LAB	10	2,6	4,1	1,25	2,8	4,35
MR4112-LAB	12	2,6	4,1	1,25	2,8	4,35
MR4115-LAB	15	2,6	4,1	1,25	2,8	4,35



Rough (Large Abutment) ø4.9

Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MR4908-LAB	8	3,4	4,9	1,25	3	4,35
MR4910-LAB	10	3,4	4,9	1,25	3	4,35
MR4912-LAB	12	3,4	4,9	1,25	3	4,35
MR4915-LAB	15	3,4	4,9	1,25	3	4,35





MOT *(Rough+Smooth)*

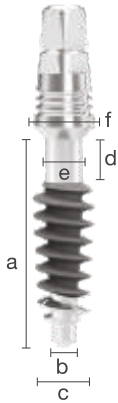
MONOIMPLANT

Hybrid implant combines the features and benefits of both [Rough] implant and [Smooth] implant, such that the upper part of this implant is treated like [Rough] type to stimulate Osseo integration. The bottom tip, however, remains highly polished to reduce contamination, thereby preventing potential infections, especially in that of a maxillary sinus areas.

Indication for use:

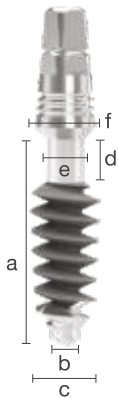
Monoimplant dental fixtures of the Rough-Smooth type combine properties of both Rough implants in terms of having less aggressive thread and better osseointegration which makes them more suitable for D3 and D4 bone types, and Smooth surfaced implants, which are more resistant to bacterial infection. Since only the tip of the fixture has a smooth surface, this fixture is best be used when working on the maxillary sinus area.

MOT ϕ 3.5



Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MOT3512	12	2,9	3,5	2,5	2,05	3,35
MOT3514	14	2,9	3,5	4,5	2,05	3,35
MOT3517	17	2,9	3,5	7,5	2,05	3,35
MOT3520	20	2,9	3,5	10,5	2,05	3,35
MOT3523	23	2,9	3,5	13,5	2,05	3,35

MOT ϕ 4.0



Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MOT4010	10	3,4	4	0,5	2,05	3,35
MOT4012	12	3,4	4	2,5	2,05	3,35
MOT4014	14	3,4	4	4,5	2,05	3,35
MOT4017	17	3,4	4	7,5	2,05	3,35
MOT4020	20	3,4	4	10,5	2,05	3,35

MOT ϕ 4.5



Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MOT4510	10	3,4	4,5	0,5	2,05	3,35
MOT4512	12	3,4	4,5	2,5	2,05	3,35
MOT4514	14	3,4	4,5	4,5	2,05	3,35
MOT4517	17	3,4	4,5	7,5	2,05	3,35
MOT4520	20	3,4	4,5	10,5	2,05	3,35



Rough B

MONOIMPLANT

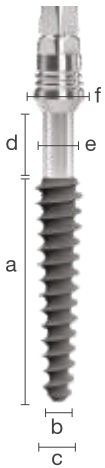
Indication for use:

Bendable neck (to be used after pre-drilling and preparation with bone-expanding screw). Suitable for bridges in the reduced-load range (no individual tooth restorations).

Offers dual safety in terms of:

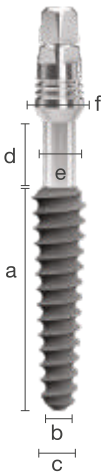
1. Torque reduction by pre-compression with the congruent bone-expanding screw.
2. Safety head with a predetermined breaking point and dual square (Pat. Pend.)

The predetermined fracture site integrated in the abutment prevents the abutment head from twisting off from the endossal implant site. The implant socket, however, must always be pre-compressed using the bone-expanding screw. Maximum insertion torque is 45 Ncm.



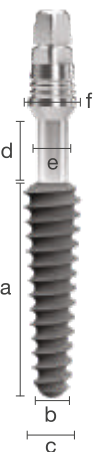
Rough B ø3.2

Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MR3212-B	12	2,20	3,2	3,25	2,05	3,35
MR3215-B	15	2,20	3,2	3,25	2,05	3,35
MR3217-B	17	2,20	3,2	3,25	2,05	3,35



Rough B ø3.7

Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MR3712-B	12	2,4	3,7	3,25	2,05	3,35
MR3715-B	15	2,4	3,7	3,25	2,05	3,35
MR3717-B	17	2,4	3,7	3,25	2,05	3,35



Rough B ø4.1

Product code	Length (mm) a	Min. shaft diameter (mm) b	Max shaft diameter (mm) c	Neck height (mm) d	Neck width (mm) e	Abutment Width (mm) f
MR4112-B	12	2,6	4,1	3,25	2,35	3,35
MR4115-B	15	2,6	4,1	3,25	2,35	3,35
MR4117-B	17	2,6	4,1	3,25	2,35	3,35



MICRO THREADS MONOIMPLANT

Monoimplant Micro thread implants are smooth surface implants and prevents the bacterial colonization and there by avoids the development of periimplant disease.

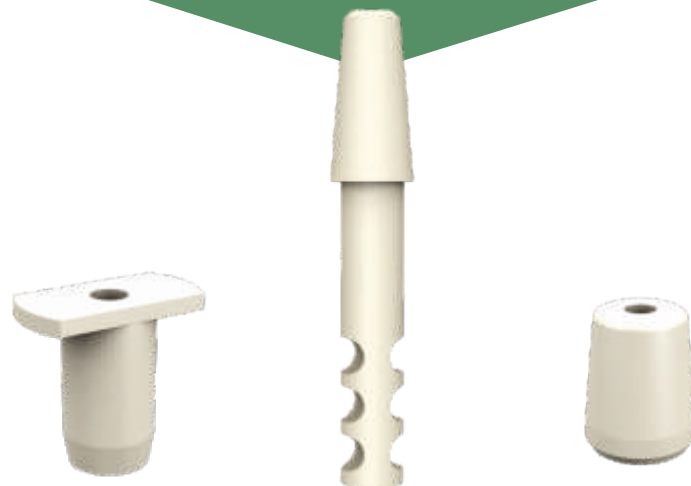
The design of Micro thread sharp tip penetrates the corticals and especially in thin & dense corticals easily & provides primary stability for the immediate loading protocol.

The design of the threads at the cervical parts provides stability for the extracted socket walls thus prevent collapse. Micro thread Mono Implants are suitable for healed areas and extracted sites and should be used with minimum number of three implants for the successful immediate loading.

<i>Micro Threads</i> $\varnothing 3.5$ (Length in mm)	<i>Micro Threads</i> $\varnothing 4.0$ (Length in mm)
12	12
14	14
17	17
20	20
23	23

Monoimplant Impression Components

*Transfer copings and
lab analogs made of
POM/PEEK provide
a wide variety of
prosthesis options.*



IMPRESSION COMPONENTS MIC



TRANSFER



LAB ANALOG



BURNOUT CAP

IMPRESSION COMPONENTS LARGE ABUTMENTS MIC LAB



TRANSFER



LAB ANALOG



BURNOUT CAP

Prosthetic Protocol

Monoimplant transfer components are placed on top of the fixture put in place of the missing tooth. The impression of the individual scoop is taken and sent to the laboratory.

In the laboratory, the impression post with the embedded transfer components is placed on top of the laboratory analogues. The impression is then pulled from the model and the impression post and analogue are separated again.

Finally, the modelling is performed on the Burnout Cap resulting in a proper metal crown indent that can be safely covered and placed on top of the head (monolit abutment) of the initial fixture.

Surgical Kit

Monoimplant surgical kit provides extra ease of use for dentists during implant surgeries.



Short and long lance drills that provide ease of use.

Bone tapping drills for Rough implants compatible with all diameters.

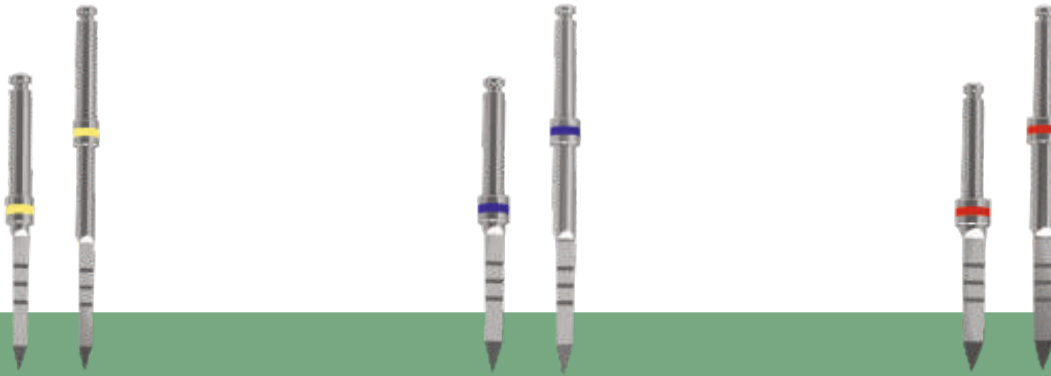
Ratchet compatible short and long drivers.

Ratchet [Torque range]

Handpiece compatible drivers.

Handle for tools compatible with handpiece.

LANCE DRILLS



S-PD2017 > 2.0 mm short
S-PD2027 > 2.0 mm long

S-PD2517 > 2.5 mm short
S-PD2527 > 2.5 mm long

S-PD3017 > 3.0 mm short
S-PD3027 > 3.0 mm long

BONE TAPPING DRILLS



S-BT3010 >3.0 mm

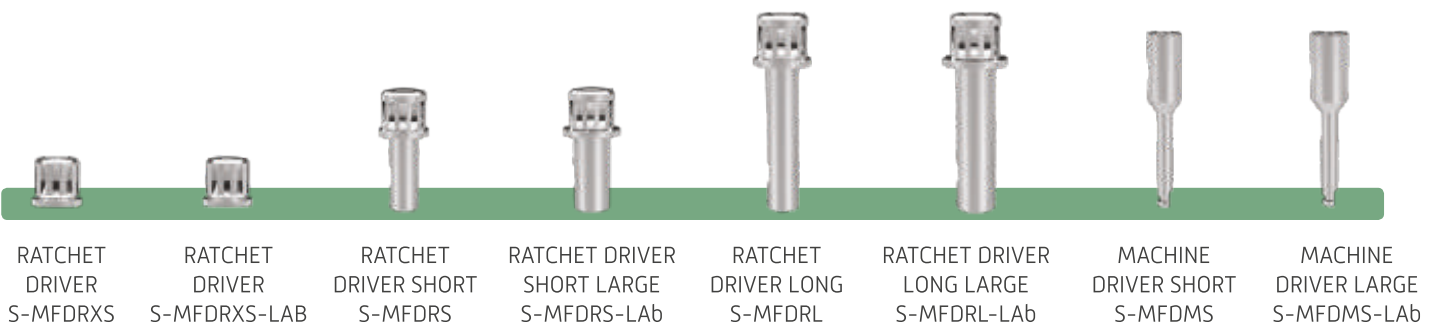
S-BT3210 >3.2 mm

S-BT3710 >3.7 mm

S-BT4110 >4.1 mm

S-BT4910 >4.9 mm

TOOLS



RATCHET DRIVER
S-MFDRXS

RATCHET DRIVER
S-MFDRXS-LAB

RATCHET DRIVER SHORT
S-MFDRS

RATCHET DRIVER SHORT LARGE
S-MFDRS-LAB

RATCHET DRIVER LONG
S-MFDRL

RATCHET DRIVER LONG LARGE
S-MFDRL-LAB

MACHINE DRIVER SHORT
S-MFDMS

MACHINE DRIVER LARGE
S-MFDMS-LAB

HANDLE (NORMAL ABUTMENT)
S-HLD45



HANDLE (LARGE ABUTMENT)
S-HLD55



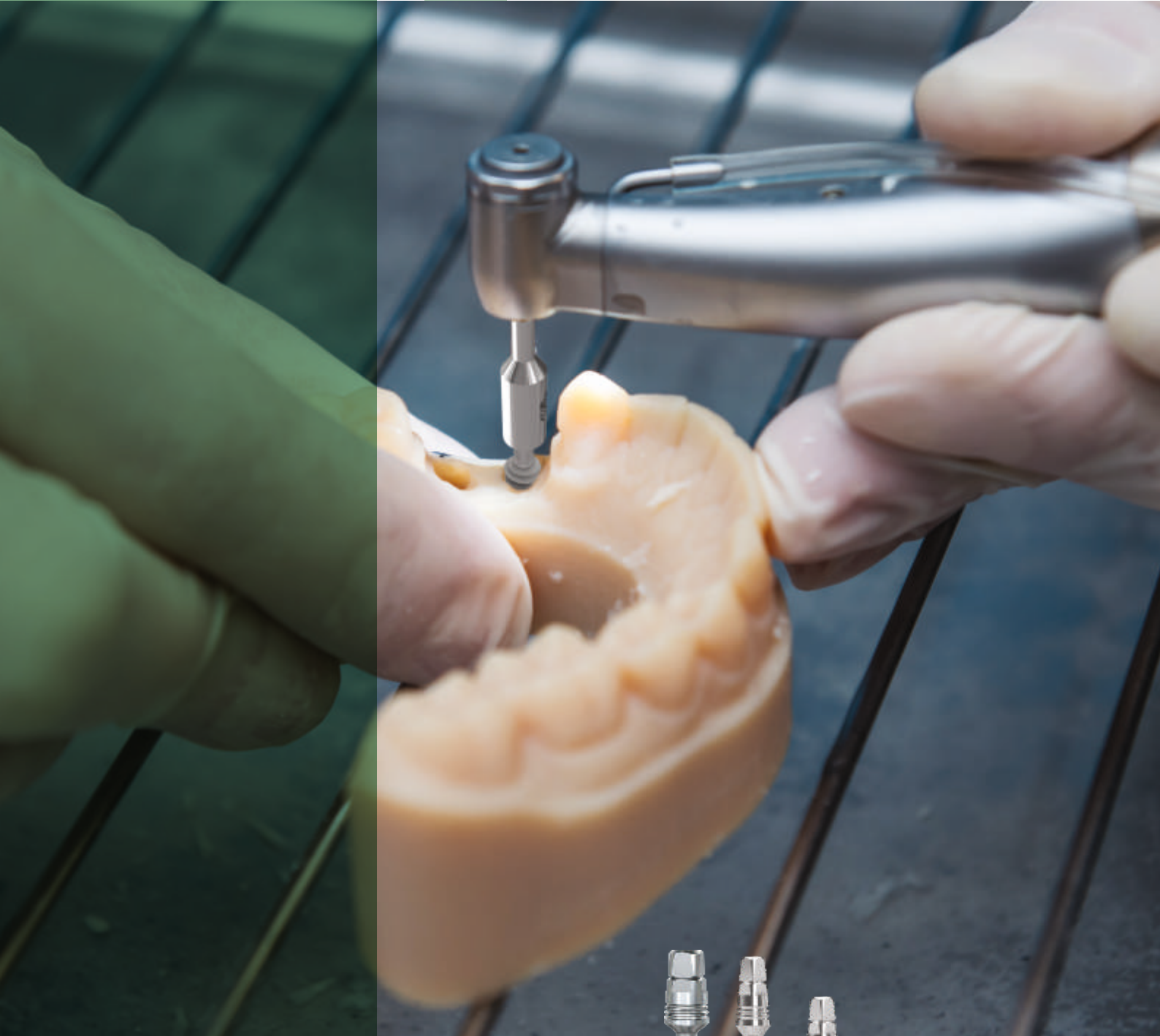
RATCHET S-T-RATCHET



HANDLE (DRILL)
S-HLDM



Surgical Technique



Prior to operation the doctor may decide whether he/she would prefer to open the mucoperiosteal flap or to proceed transgingivally.

In case the doctor would choose to open the flap, an the incision along the alveolar region must be made where the mucoperiosteal flap will be peeled off.

After local anaesthetic has been injected, the initial drill (2mm-yellow or 2.5 mm-black, one drill concept) is advanced through the soft tissue at the desired location until contact with the crestal bone is achieved (alveolar crest cortical bone). Penetration of the cortical bone must be performed at 20,000 to 40,000 rpm with a 1:1 surgical handpiece.

The drill must be advanced until the desired depth is reached, while piercing the basal/cortical bone. The initial step of the drill protocol is to create a purchase point for the subsequent implant tip to take a grip and avoid sliding into the ridge. This also results in a hole of a smaller diameter in comparison to threads of the implant. When the first stage of the operation is completed, the implant is mounted onto the hand drive, inserted into the fresh osteotomy site and repeatedly turned clockwise until high resistance is felt. The handle driver should be replaced by the ratchet driver (short or long drivers with either small or large heads) and ratchet since it is no longer enough to develop the necessary driving force.

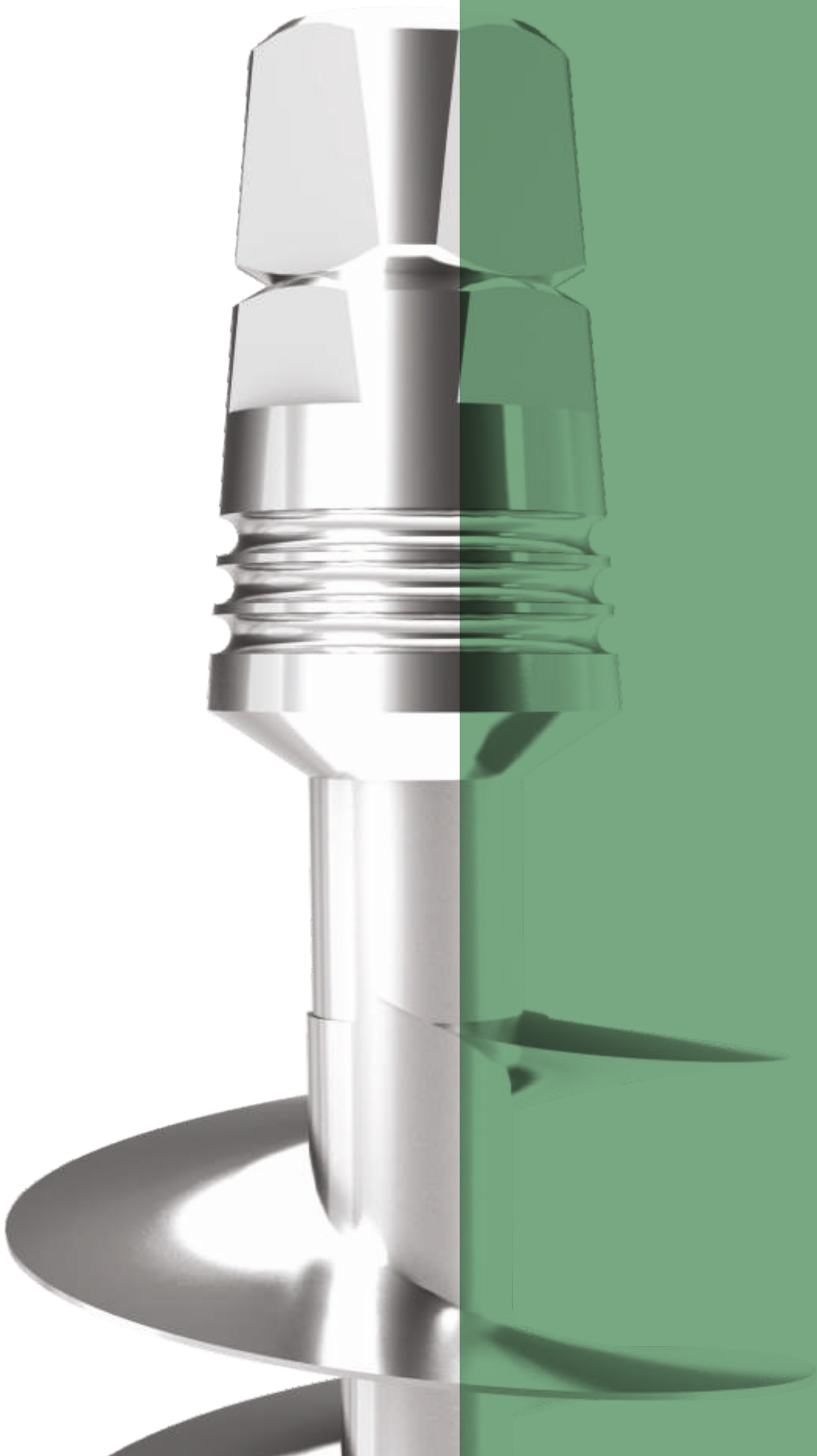
In case the bone is very hard, it is necessary to use the tapping drill with either a hand driver or handpiece to the complete length of the prepared osteotomy site and where the implants will later be loaded. Once the bone socket has been fully threaded, the tapping drill is withdrawn by rotating it in a counter-clockwise direction. The implant can now be inserted until it is seated completely. We must keep in mind that the implant axis and the drilling direction must correspond to the axis of the greater bone length. It should be noted above all that the implants must be installed with as much accuracy and precision as possible, even though the implant heads may not appear parallel to the neighbouring teeth.

When all the implants have been placed, their heads can be bent using the handle or ratchet and driver provided exclusively by Monoimplant. Complete parallelism in respect to the surrounding teeth can also be reached by using a carbide bur with the high-speed handpiece, trimmed by a diamond bur and smoothed by a stone.

IMPORTANT CAUTION:

The surgical techniques required for the insertion of the following implants are very complex and require very high levels of precision. These notes are only a brief summary of the method and should under no circumstances be considered in place of operating instructions. Undertaking in special training is essential for anyone wishing to approach this discipline. Incorrect use can lead to the loss of inserted implants and even the patient's bony matter. This product is intended for use by trained medical professionals. Its use by any other person is prohibited.

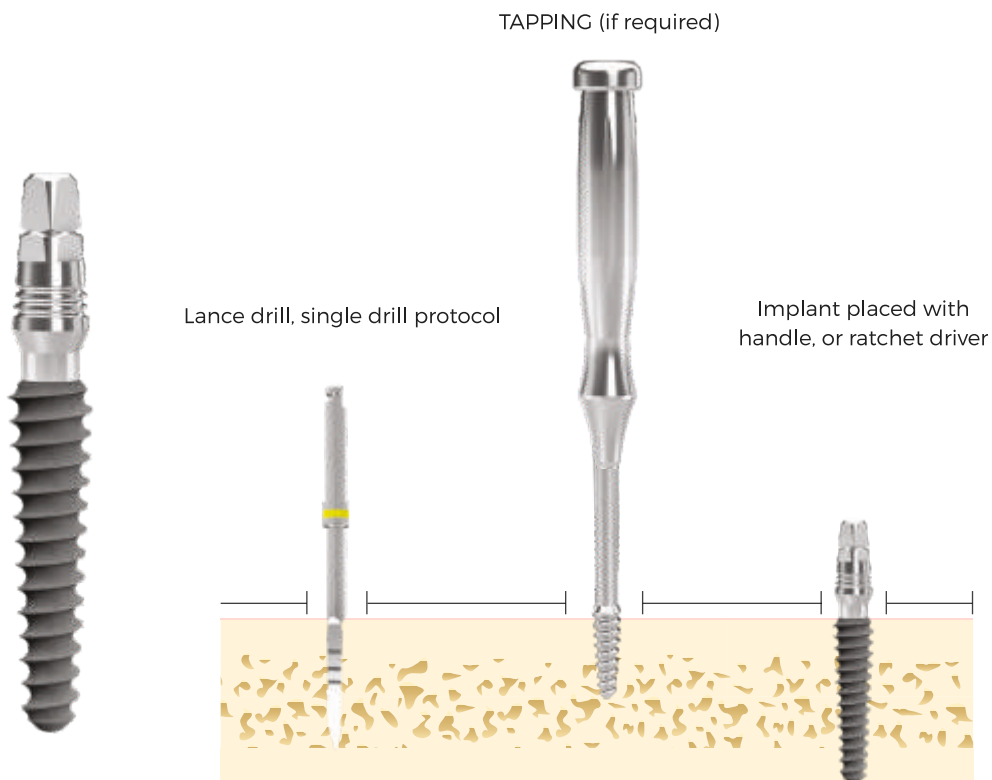




surgical protocol

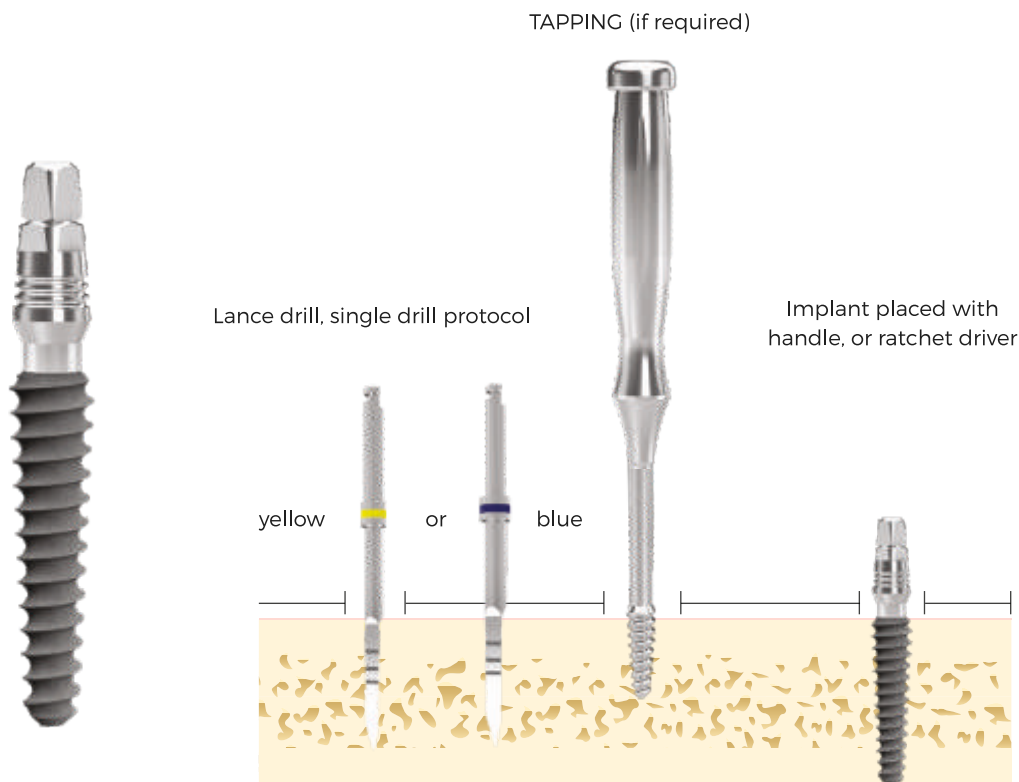
Preparation

1. Use a 2mm (yellow) or 2.5 mm (black) drills to prepare the implantation bed, followed by shaping drill to adjust the bed to its full length. Use an intermittent drilling technique and copious saline irrigation.
2. In hard bone (mandible), if the full drilling depth is difficult to attain with a single drill, use the bone tapping (2 mm) to achieve the correct depth.
3. It is possible to use the laboratory to produce a drilling template with the appropriate drill holes for the marker bore.



Drilling and preparation/ condensing of the implant bed for the Rough Monoimplant

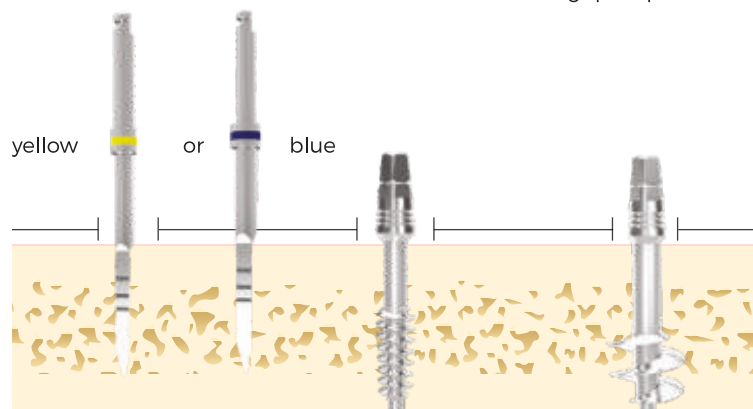
All rough monoimplants are used as compression screws. In order to achieve a good bone condensation and implant stability, drilling should be carried out with a drill thinner than the core diameter of the implant. The minimal diameter of the drill depends on the bone density. It is therefore not possible to suggest drill-sequences that will fit all bone types. Typically for the soft maxillary bone only, small diameter drills are used (e.g. the usage of the color yellow 2 mm drill only for implants with a 3.0-4.9 mm diameter), whereas in the highly mineralized lower jaw, a specific drill sequence is necessary.



Drilling and preparation/insertion of the Smooth Monoimplant to the implant bed

SMOOTH MONOIMPLANT: These implants have a smooth surface. Their aggressive forms are ideal for D3 and D4 bone types and for immediate fixation in the extraction sockets.

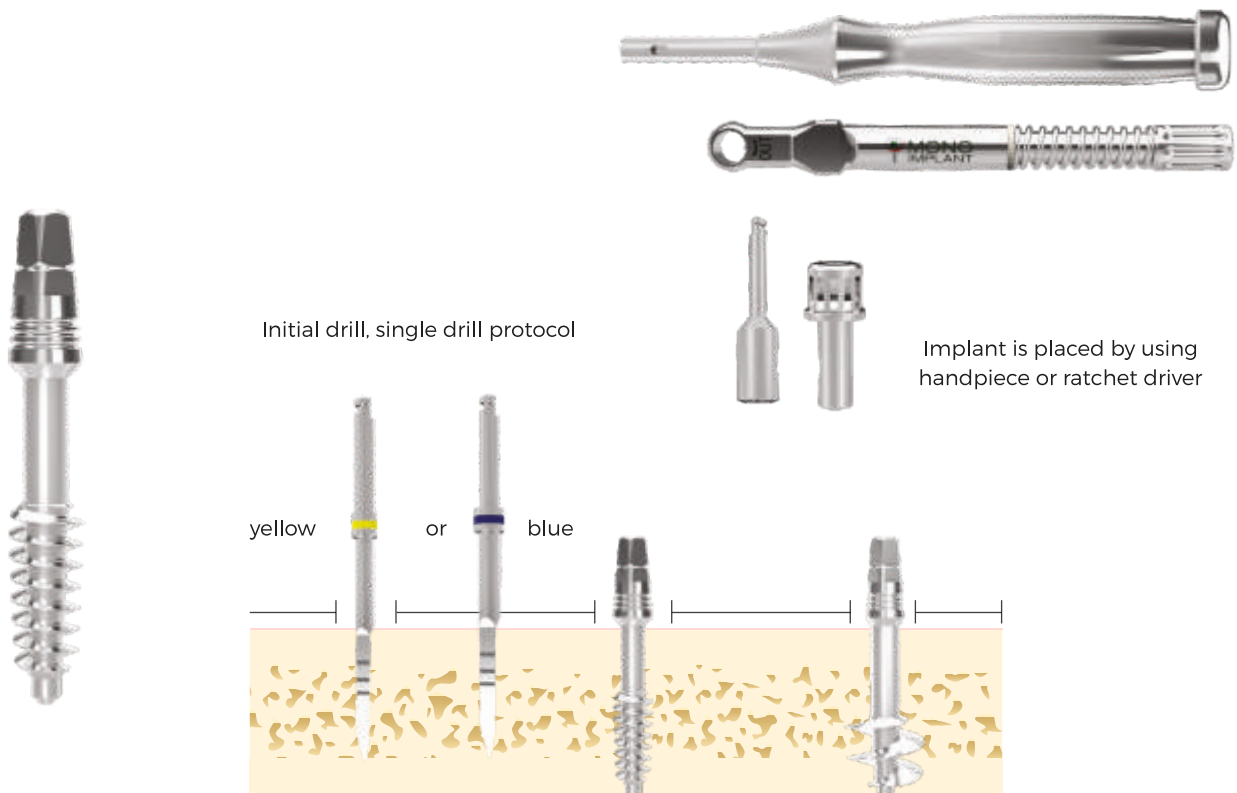
Initial drill, single drill protocol



Drilling and preparation/insertion of the Smooth Monoimplant to the implant bed

After the extraction, the implant installation site has to be thoroughly cleaned with Betadine or similar anti-microbial solution. Flaps have to be sutured to prevent debris from getting inside.

SMOOTH MONOIMPLANT: These implants have a smooth surface. Their aggressive forms are ideal for D3 and D4 bone types, and for immediate fixation in the extraction sockets.



IMPLANT PACKAGING





Removal of implant from packaging



Open the lid.



The implant is fixed to the lid via a breakable joint.



Remove the implant without touching the inner wall of the tube.

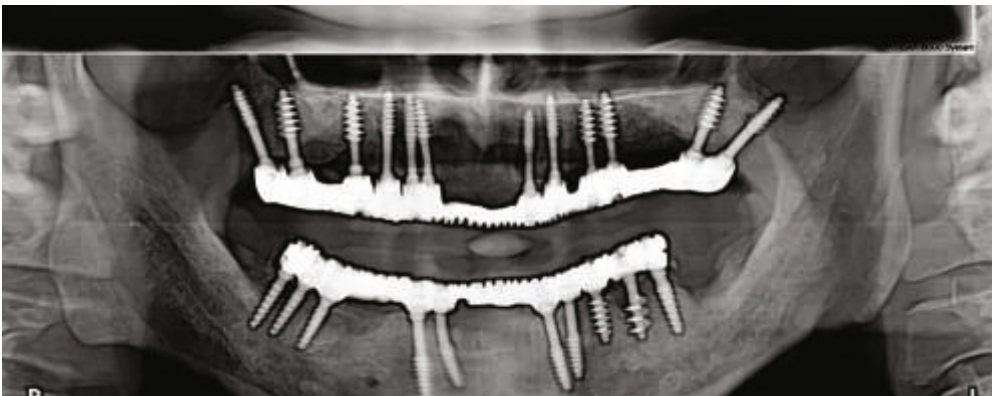


Clinical Cases

Implant placement

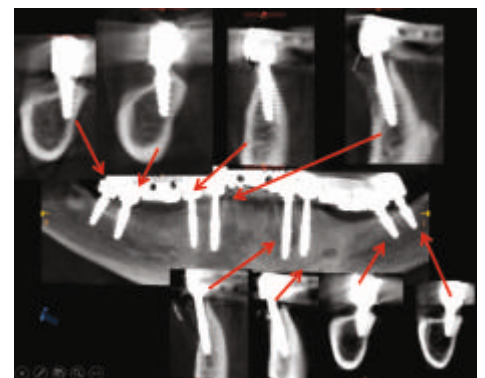
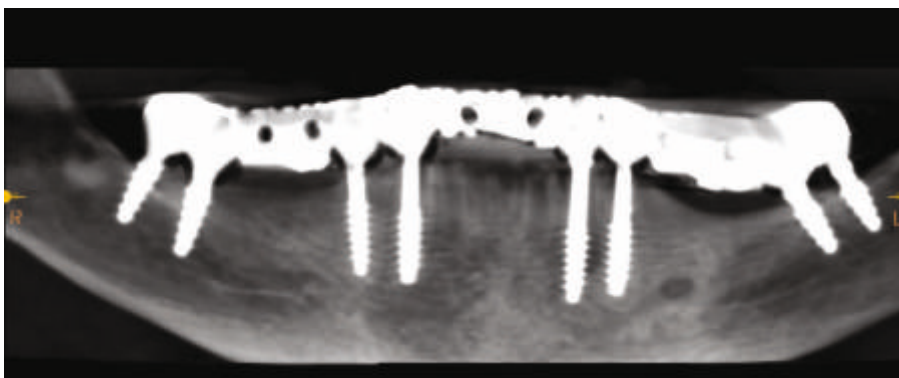
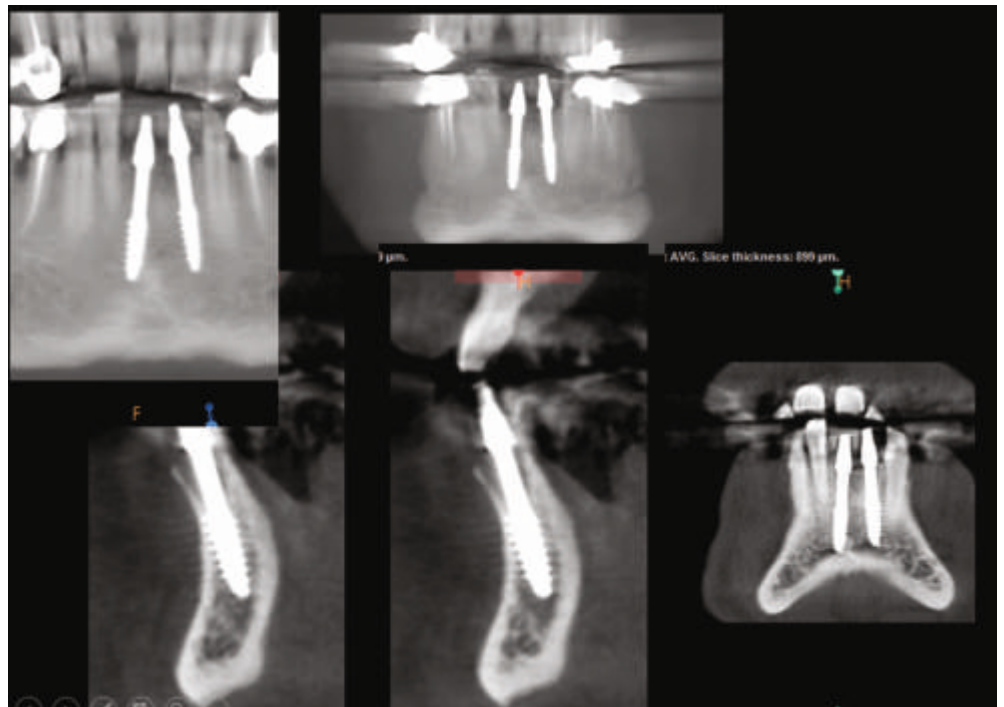


Case on the left represents a full mouth reconstruction made with Monoimplant Smooth and Rough types. The extraction and placement of the implants are performed during a single appointment and operation procedure. By the third day, the case was completed after inserting the hybrid denture.





Lower jaw case: In this case the anterior Monoimplant Smooth surface type was chosen to take the advantage of design-specific self cutting threads of the implants since anterior mandible carries more dense cortical bone with minimized or practically no cancellous bone. Monoimplant Smooth are placed deep enough to reach the resorption bone regions of anterior mandible. Posteriorly, implants are placed close to the lingual cortical bone since it provides maximum stability in cases of reduced vertical height of posterior mandible.



Lower anterior jaw case done with Monoimplant Smooth surface implants, threads of the implants are placed deep enough [in comparison with the root tips of the adjacent natural teeth] to reach the dense cortical bone. Such design placement also design provides insertion even in thin ridges.



INDEX / CODE

PRODUCT	DIAMETER	LENGTH	CODE	PAGE
Monoimplant Rough				23
Monoimplant Rough	Ø3.0	10 mm	MR3010	
Monoimplant Rough	Ø3.0	12 mm	MR3012	
Monoimplant Rough	Ø3.0	15 mm	MR3015	
Monoimplant Rough	Ø3.2	8 mm	MR3208	
Monoimplant Rough	Ø3.2	10 mm	MR3210	
Monoimplant Rough	Ø3.2	12 mm	MR3212	
Monoimplant Rough	Ø3.2	15 mm	MR3215	
Monoimplant Rough	Ø3.2	17 mm	MR3217	
Monoimplant Rough	Ø3.7	6 mm	MR3706	
Monoimplant Rough	Ø3.7	8 mm	MR3708	
Monoimplant Rough	Ø3.7	10 mm	MR3710	
Monoimplant Rough	Ø3.7	12 mm	MR3712	
Monoimplant Rough	Ø3.7	15 mm	MR3715	
Monoimplant Rough	Ø3.7	17 mm	MR3717	
Monoimplant Rough				24
Monoimplant Rough	Ø4.1	8 mm	MR4108	
Monoimplant Rough	Ø4.1	10 mm	MR4110	
Monoimplant Rough	Ø4.1	12 mm	MR4112	
Monoimplant Rough	Ø4.1	15 mm	MR4115	
Monoimplant Rough	Ø4.1	17 mm	MR4117	
Monoimplant Rough	Ø4.9	8 mm	MR4908	
Monoimplant Rough	Ø4.9	10 mm	MR4910	
Monoimplant Rough	Ø4.9	12 mm	MR4912	
Monoimplant Rough	Ø4.9	15 mm	MR4915	
Monoimplant Rough - Large Abutment				24
Monoimplant Rough-Large Abutment	Ø4.1	8 mm	MR4108-LAb	
Monoimplant Rough-Large Abutment	Ø4.1	10 mm	MR4110-LAb	
Monoimplant Rough-Large Abutment	Ø4.1	12 mm	MR4112-LAb	
Monoimplant Rough-Large Abutment	Ø4.1	15 mm	MR4115-LAb	
Monoimplant Rough-Large Abutment	Ø4.9	8 mm	MR4908-LAb	
Monoimplant Rough-Large Abutment	Ø4.9	10 mm	MR4910-LAb	
Monoimplant Rough-Large Abutment	Ø4.9	12 mm	MR4912-LAb	
Monoimplant Rough-Large Abutment	Ø4.9	15 mm	MR4915-LAB	
Monoimplant Rough B				29
Monoimplant Rough B	Ø3.2	12 mm	MR3212-B	
Monoimplant Rough B	Ø3.2	15 mm	MR3215-B	
Monoimplant Rough B	Ø3.2	17 mm	MR3217-B	
Monoimplant Rough B	Ø3.7	12 mm	MR3712-B	
Monoimplant Rough B	Ø3.7	15 mm	MR3715-B	
Monoimplant Rough B	Ø3.7	17 mm	MR3717-B	

PRODUCT	DIAMETER	LENGTH	CODE	PAGE
Monoimplant Rough B				29
Monoimplant Rough B	Ø4.1	12 mm	MR4112-B	
Monoimplant Rough B	Ø4.1	15 mm	MR4115-B	
Monoimplant Rough B	Ø4.1	17 mm	MR4117-B	
Monoimplant Rough+Smooth				27
Monoimplant Rough+Smooth	Ø3.5	12 mm	MOT3512	
Monoimplant Rough+Smooth	Ø3.5	14 mm	MOT3514	
Monoimplant Rough+Smooth	Ø3.5	17 mm	MOT3517	
Monoimplant Rough+Smooth	Ø3.5	20 mm	MOT3520	
Monoimplant Rough+Smooth	Ø3.5	23 mm	MOT3523	
Monoimplant Rough+Smooth	Ø4.0	10 mm	MOT4010	
Monoimplant Rough+Smooth	Ø4.0	12 mm	MOT4012	
Monoimplant Rough+Smooth	Ø4.0	14 mm	MOT4014	
Monoimplant Rough+Smooth	Ø4.0	17 mm	MOT4017	
Monoimplant Rough+Smooth	Ø4.0	20 mm	MOT4020	
Monoimplant Rough+Smooth	Ø4.5	10 mm	MOT4510	
Monoimplant Rough+Smooth	Ø4.5	12 mm	MOT4512	
Monoimplant Rough+Smooth	Ø4.5	14 mm	MOT4514	
Monoimplant Rough+Smooth	Ø4.5	17 mm	MOT4517	
Monoimplant Rough+Smooth	Ø4.5	20 mm	MOT4520	
Monoimplant Smooth				19
Monoimplant Smooth	Ø2.7	10 mm	MS2710	
Monoimplant Smooth	Ø2.7	12 mm	MS2712	
Monoimplant Smooth	Ø2.7	14 mm	MS2714	
Monoimplant Smooth	Ø2.7	17 mm	MS2717	
Monoimplant Smooth	Ø2.7	20 mm	MS2720	
Monoimplant Smooth	Ø2.7	23 mm	MS2723	
Monoimplant Smooth				19
Monoimplant Smooth	Ø3.5	10 mm	MS3510	
Monoimplant Smooth	Ø3.5	12 mm	MS3512	
Monoimplant Smooth	Ø3.5	14 mm	MS3514	
Monoimplant Smooth	Ø3.5	17 mm	MS3517	
Monoimplant Smooth	Ø3.5	20 mm	MS3520	
Monoimplant Smooth	Ø3.5	23 mm	MS3523	
Monoimplant Smooth	Ø3.5	26 mm	MS3526	
Monoimplant Smooth	Ø3.5	29 mm	MS3529	
Monoimplant Smooth	Ø3.5	32 mm	MS3532	
Monoimplant Smooth	Ø3.5	35 mm	MS3535	
Monoimplant Smooth				19
Monoimplant Smooth	Ø4.0	10 mm	MS4010	
Monoimplant Smooth	Ø4.0	12 mm	MS4012	
Monoimplant Smooth	Ø4.0	14mm	MS4014	
Monoimplant Smooth	Ø4.0	17 mm	MS4017	
Monoimplant Smooth	Ø4.0	20 mm	MS4020	
Monoimplant Smooth	Ø4.0	23 mm	MS4023	
Monoimplant Smooth	Ø4.0	26 mm	MS4026	
Monoimplant Smooth	Ø4.0	29 mm	MS4029	
Monoimplant Smooth	Ø4.0	32 mm	MS4032	
Monoimplant Smooth	Ø4.0	35 mm	MS4035	

PRODUCT	DIAMETER	LENGTH	CODE	PAGE
Monoimplant Smooth				19
Monoimplant Smooth	Ø4.5	8 mm	MS4508	
Monoimplant Smooth	Ø4.5	10 mm	MS4510	
Monoimplant Smooth	Ø4.5	12 mm	MS4512	
Monoimplant Smooth	Ø4.5	14 mm	MS4514	
Monoimplant Smooth	Ø4.5	17 mm	MS4517	
Monoimplant Smooth	Ø4.5	20 mm	MS4520	
Monoimplant Smooth	Ø4.5	23 mm	MS4523	
Monoimplant Smooth	Ø4.5	26 mm	MS4526	
Monoimplant Smooth	Ø4.5	29 mm	MS4529	
Monoimplant Smooth				20
Monoimplant Smooth	Ø5.5	8 mm	MS5508	
Monoimplant Smooth	Ø5.5	10 mm	MS5510	
Monoimplant Smooth	Ø5.5	12 mm	MS5512	
Monoimplant Smooth	Ø5.5	14 mm	MS5514	
Monoimplant Smooth	Ø5.5	17 mm	MS5517	
Monoimplant Smooth	Ø5.5	20 mm	MS5520	
Monoimplant Smooth	Ø7.0	8 mm	MS7008	
Monoimplant Smooth	Ø7.0	10 mm	MS7010	
Monoimplant Smooth	Ø7.0	12 mm	MS7012	
Monoimplant Smooth	Ø7.0	14 mm	MS7014	
Monoimplant Smooth	Ø9.0	8 mm	MS9008	
Monoimplant Smooth	Ø9.0	10 mm	MS9010	
Monoimplant Smooth	Ø9.0	12 mm	MS9012	
Monoimplant Smooth	Ø9.0	14 mm	MS9014	
Monoimplant Smooth - Large Abutment				20
Monoimplant Smooth - Large Abutment	Ø5.5	8 mm	MS5508-LAb	
Monoimplant Smooth - Large Abutment	Ø5.5	10 mm	MS5510-LAb	
Monoimplant Smooth - Large Abutment	Ø5.5	12 mm	MS5512-LAb	
Monoimplant Smooth - Large Abutment	Ø5.5	14 mm	MS5514-LAb	
Monoimplant Smooth - Large Abutment	Ø5.5	17 mm	MS5517-LAb	
Monoimplant Smooth - Large Abutment	Ø5.5	20 mm	MS5520-LAb	
Monoimplant Smooth - Large Abutment	Ø7.0	8 mm	MS7008-LAb	21
Monoimplant Smooth - Large Abutment	Ø7.0	10 mm	MS7010-LAb	
Monoimplant Smooth - Large Abutment	Ø7.0	12 mm	MS7012-LAb	
Monoimplant Smooth - Large Abutment	Ø7.0	14 mm	MS7014-LAb	
Monoimplant Smooth - Large Abutment	Ø9.0	8 mm	MS9008-LAb	
Monoimplant Smooth - Large Abutment	Ø9.0	10 mm	MS9010-LAb	
Monoimplant Smooth - Large Abutment	Ø9.0	12 mm	MS9012-LAb	
Monoimplant Smooth - Large Abutment	Ø9.0	14 mm	MS9014-LAb	
Monoimplant Impression Components				31
Monoimplant Impression Components			MIC	
Monoimplant Impression Components Large			MIC-LAB	

PRODUCT	DIAMETER	LENGTH	CODE	PAGE
Monoimplant Surgical Kit			S-MISK	32
Lance Drill				33
Lance Drill Short	Ø2.0	17 mm	S-PD2017	
Lance Drill Long	Ø2.0	27 mm	S-PD2027	
Lance Drill Short	Ø2.5	17 mm	S-PD2517	
Lance Drill Long	Ø2.5	27 mm	S-PD2527	
Lance Drill Short	Ø3.0	17 mm	S-PD3017	
Lance Drill Long	Ø3.0	27 mm	S-PD3027	
Bone Tapping Drill				33
Bone Tapping Drill	Ø3.0	10 mm	S-BT3010	
Bone Tapping Drill	Ø3.2	10 mm	S-BT3210	
Bone Tapping Drill	Ø3.7	10 mm	S-BT3710	
Bone Tapping Drill	Ø4.1	10 mm	S-BT4110	
Bone Tapping Drill	Ø4.9	10 mm	S-BT4910	
Drivers				33
Monoimplant Ratchet Driver Extra Short			S-MFDRXS	
Monoimplant Ratchet Driver Extra Short Large			S-MFDRXS-LAb	
Monoimplant Ratchet Driver Short			S-MFDRS	
Monoimplant Ratchet Driver Long			S-MFDRL	
Monoimplant Ratchet Driver Short Large			S-MFDRS-LAb	
Monoimplant Ratchet Driver Long Large			S-MFDRL-LAb	
Monoimplant Ratchet Machine Driver Short			S-MFDMS	
Monoimplant Ratchet Machine Driver Short Large			S-MFDMS-LAb	
Other components				33
Ratchet			S-T-RATCHET	
Handle (Normal Abutment)			S-HLD45	
Handle (Large Abutment)			S-HLD55	
Handle (Drill)			S-HLM	



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Smooth[P] MONOIMPLANT



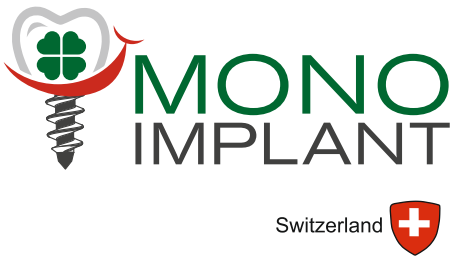
O-T[Rough+Smooth] MONOIMPLANT

Regular Rough B MONOIMPLANT

Micro Thread MONOIMPLANT



Rough[T] MONOIMPLANT



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