

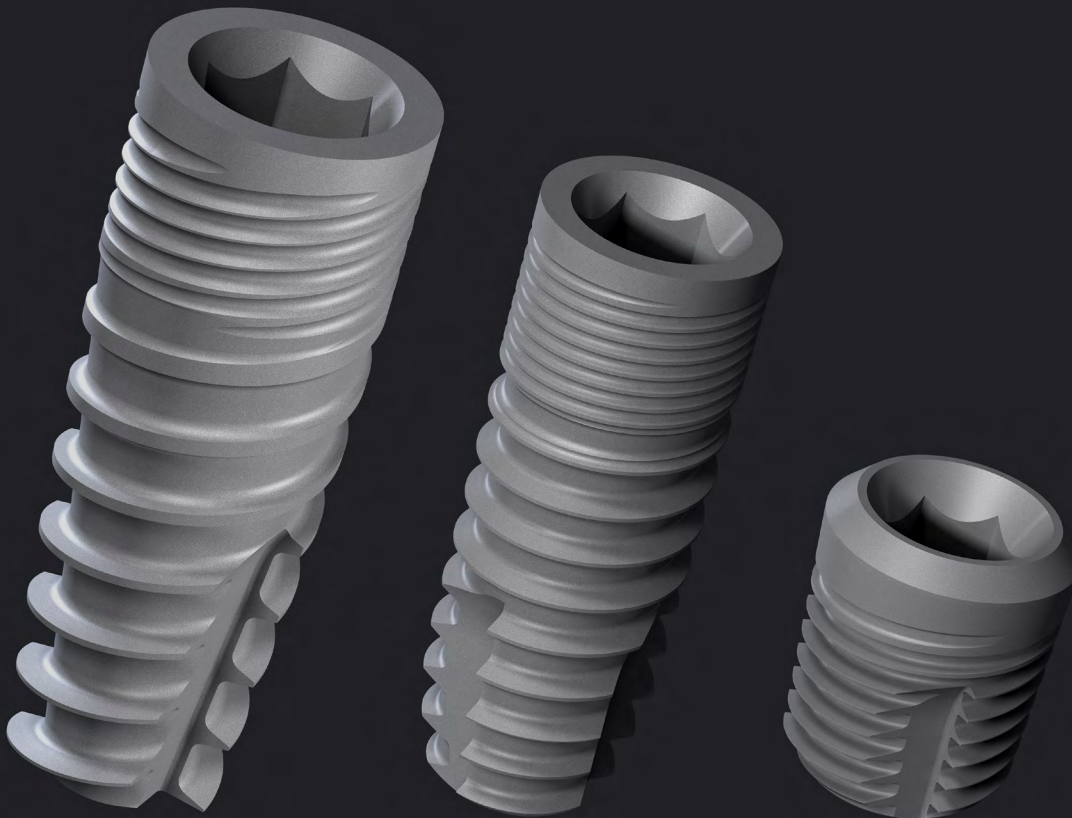
NDI
MEDICAL

NDI Medical

Dental implants system

 Made in Germany

Our experience for your confidence



NDI Medical implantation system is manufactured in Germany. With us you will find solutions for the entire spectrum of clinical cases.

Welcome to cooperation!



Quality and reliability

NDI implantation system is manufactured in Germany on modern machines with numerical program control. Quality control and special surface treatment technologies provide high reliability and absolute clinical survival rate of implants.

The quality of our implants is confirmed by the certificate EN ISO 13485: 2012 + AC: 2012.



Implant-abutment connection

Implant-abutment connection in the NDI implantation system is built on a hexagonal-conical type. Such a combined type of fixation has advantages:

- stability, strength and durability after installation;
 - tightness of connection;
 - resistance to rotation and micromotions of the implant in the bone;
 - optimal load distribution on the implant.
- The stability and strength of the implant-abutment connection is also ensured by two types of platforms:
- small - for implants with a diameter of 3.6 and 4 mm;
 - large - for implants with a diameter of 4.6; 5 and 6 mm.

The difference in the size of the platforms makes it possible to choose the best option in different clinical cases. Implants with a diameter of 4.6 mm, 5 and 6 mm are installed in the region of molars, with increased chewing load. Implants of smaller diameter are designed for installation in the frontal jaw. The diameter of the screw depends on the diameter of the implant and the size of the platform in the implant-abutment connection, which affects the strength of the structure. The tolerance in the implant-abutment interface is $\pm 0,005$ mm

Materials and surface

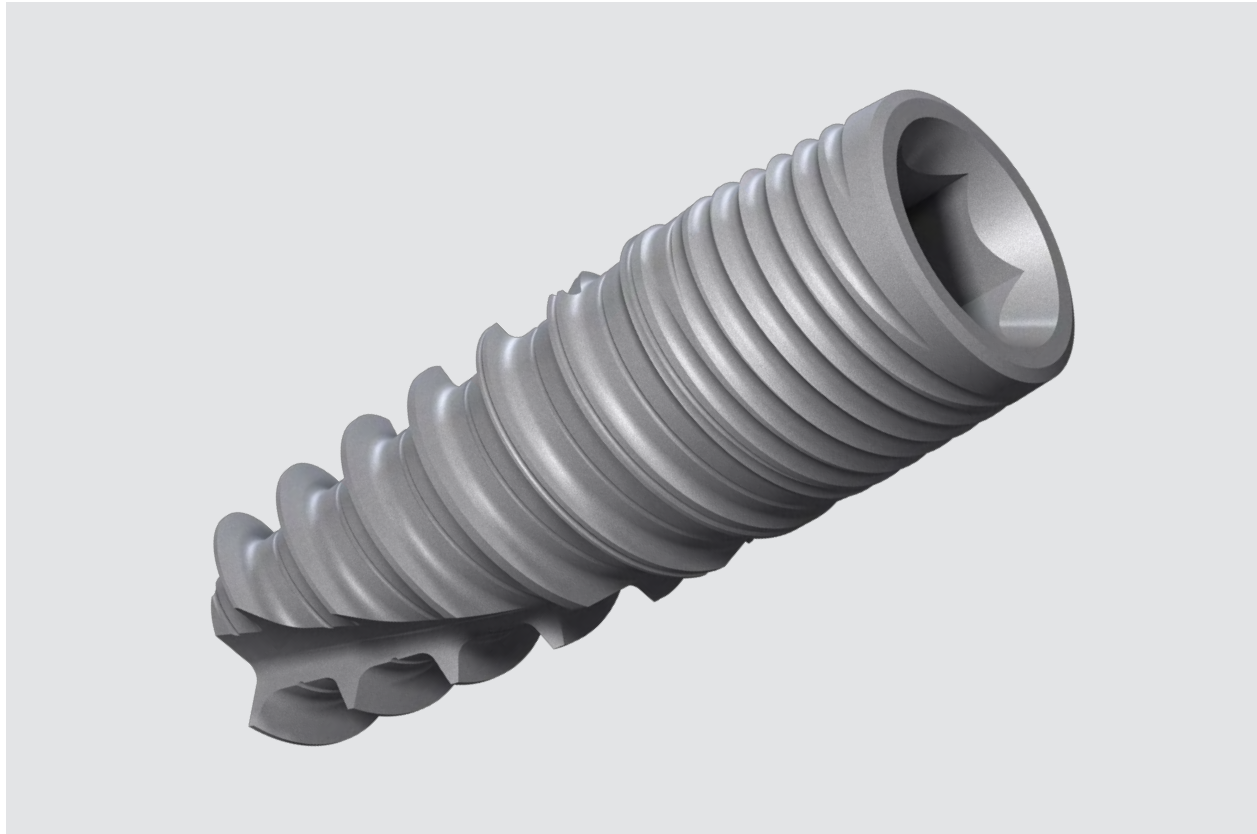
For the production of the intra-osseous part of the implants NDI applies only to the bio-inert titanium alloy of 4th Grade. We do not use the Grade-5 Ti-6Al-4V alloy including impurities that do not have bioinert properties (4% aluminium and 6% toxic vanadium), because this can lead to different complications in the post-implantation period.

Surgical and prosthetic tools for implant installation are made of special surgical steel.

The manufacturing technology includes sterilization of the implant surface with disinfecting gamma rays. Term of sterilization is 5 years.

The titanium surface of the implant is treated using SMART technology - sandblasting and subsequent etching with a mixture of acids at a specified temperature. This effect creates the necessary roughness on the titanium surface of the implant, which increases the contact area with surrounding bone tissue, accelerates and improves osteo-integration. In addition, such a surface is free from any residual traces of contamination.

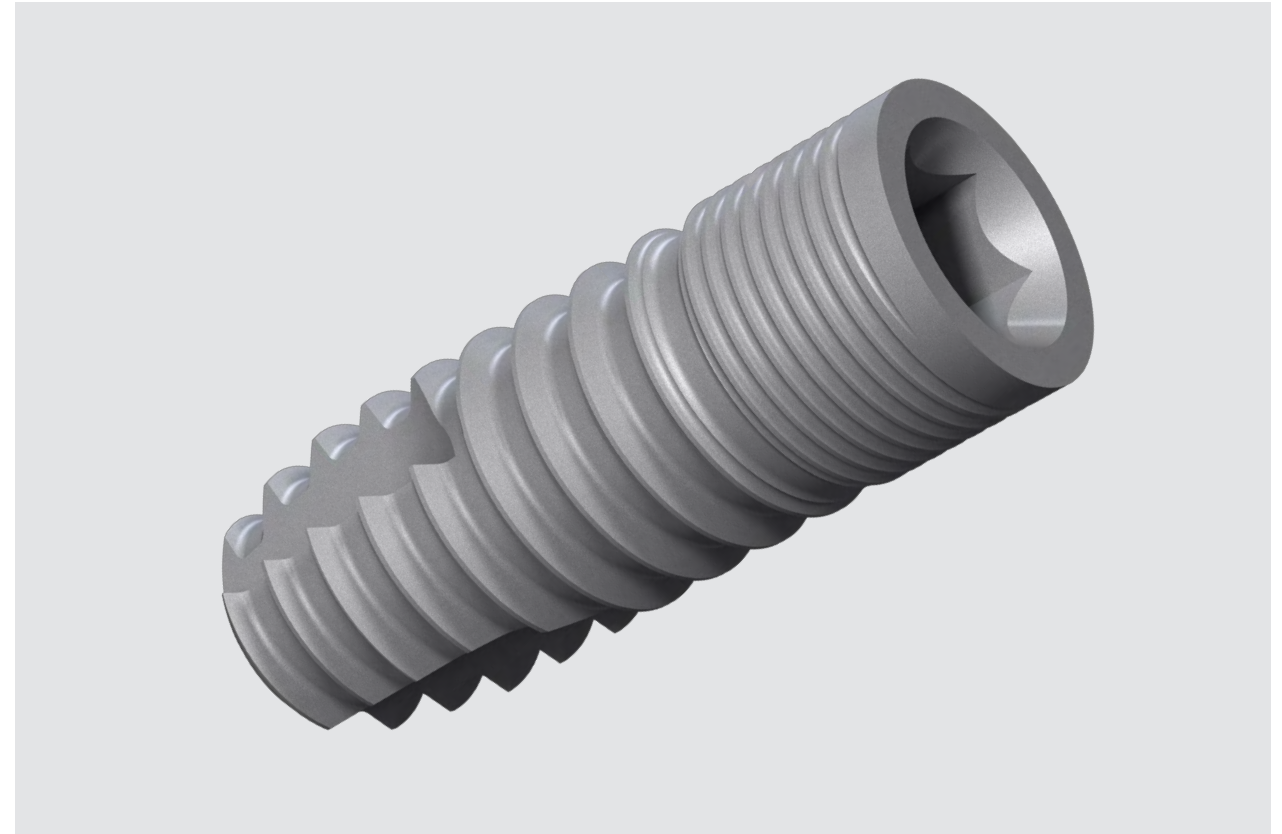
The bonding strength of the SMART surface with bone is confirmed in histological and clinical studies.



Optimum

A self-cutting implant that compacts bone tissue, increases stability, is suitable for most clinical cases.

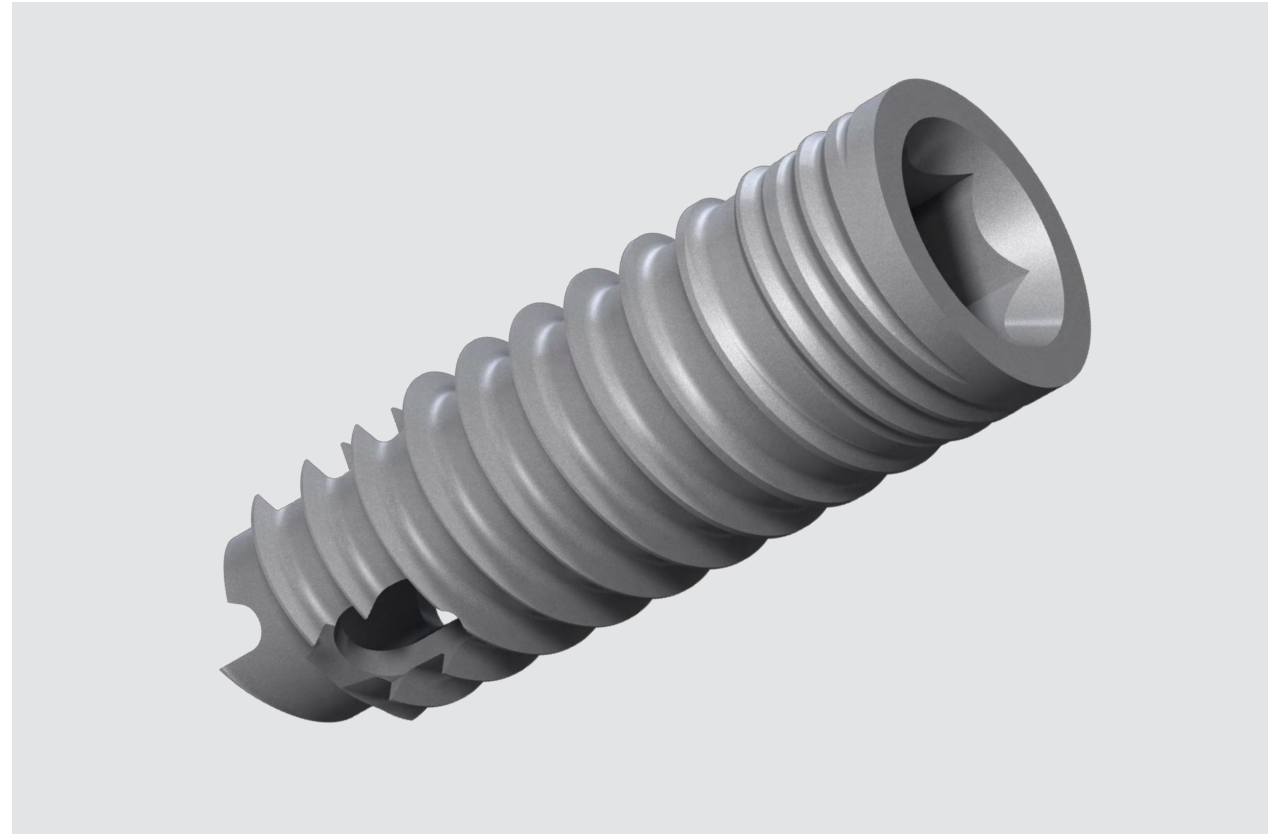
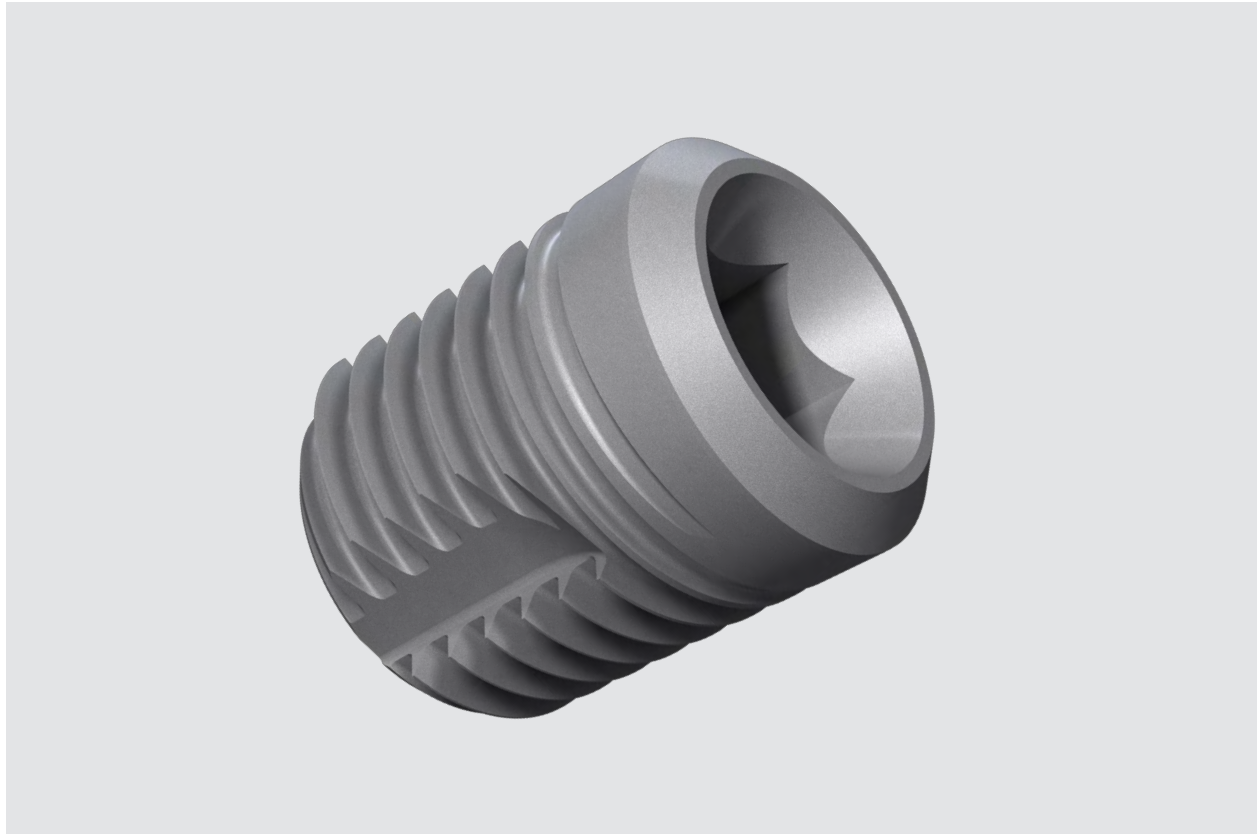
Ø, mm	REF				
	8	10	11.5	13	15
5.0	1.716	1.717	1.718	1.719	—
4.6	1.711	1.712	1.713	1.714	1.715
4.0	1.706	1.707	1.708	1.709	1.710
3.6	1.701	1.702	1.703	1.704	1.705



Prime

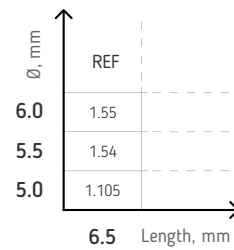
A series of stable and long-term implants recommended for installation in various clinical cases. Has a slightly rounded apex.

Ø, mm	REF			
	8	10	11.5	13
5.0	1.155	1.156	1.157	1.158
4.6	1.150	1.151	1.152	1.153
4.0	1.145	1.146	1.147	1.148
3.6	1.140	1.141	1.142	1.143



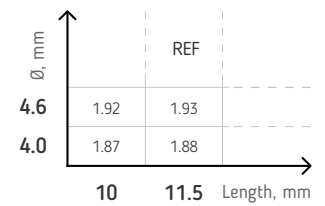
Short

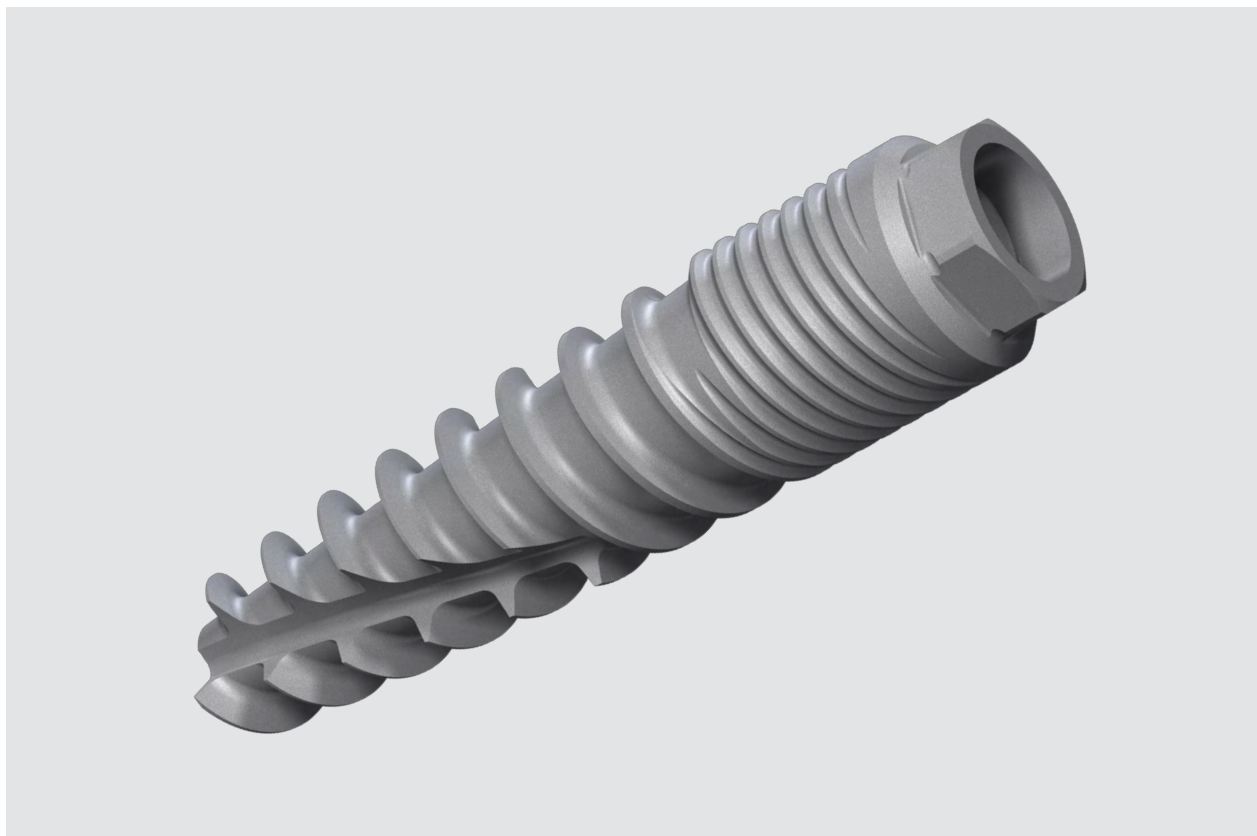
Shortened implants are used with insufficient bone quality and a small height of the alveolar bone.



Effective+

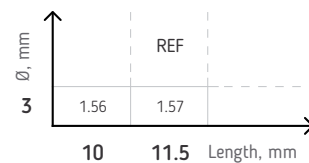
Self-cutting implant with cavity and through holes. Due to the original design, the bone tissue is less injured and lost. Recommended for a bone of poor quality.





Small

Implants for the anterior part of the jaw.
Accelerate osteo-integration, restore central and lateral incisors.



Ridge+

Implant for carrying out the operation of bone widening.

Currently it is produced in one size - 3.6 mm x 10 mm.
The implant number is 1.952.



Standard gingiva former

REF	Height from implant, mm	Implant diameter, mm
1.96	3	3,6; 4 mm
1.96	5	
1.96	7	
1.99	3	4,6; 5; 6 mm
1.100	5	
1.101	7	

Wide gingiva former

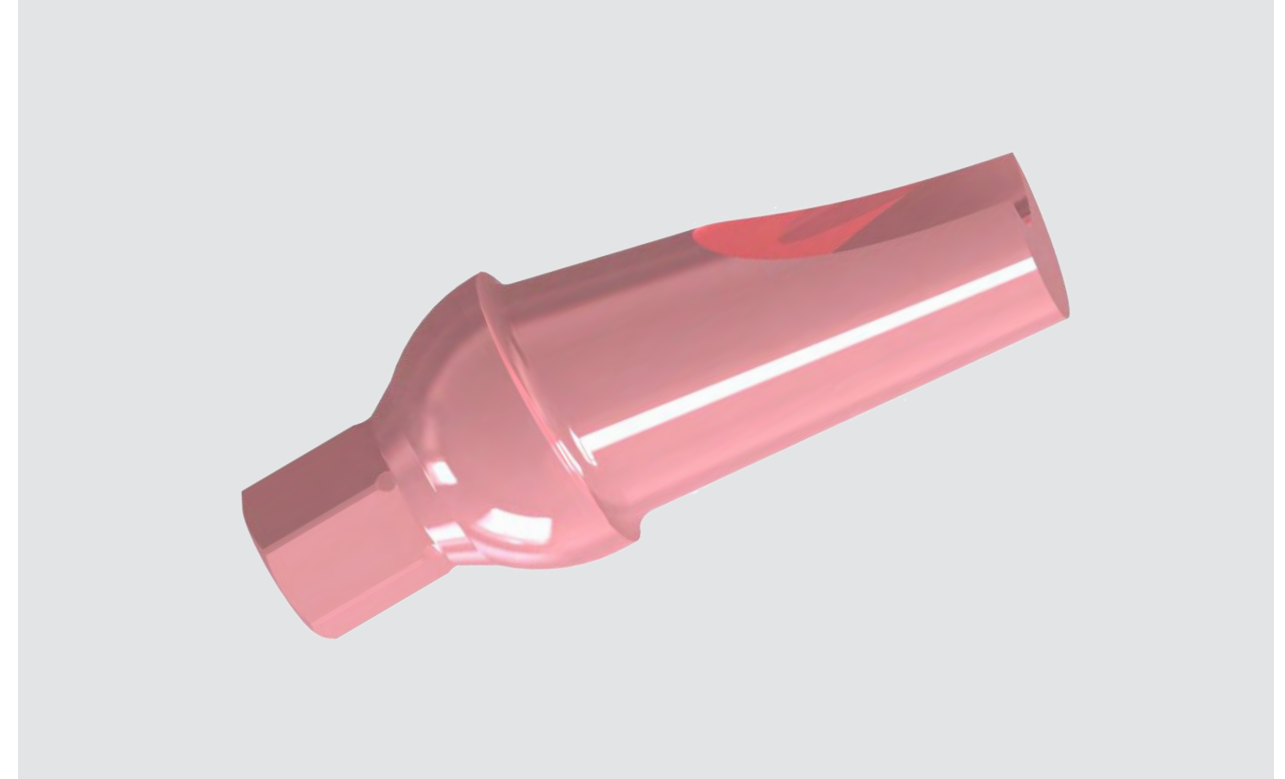
1.102	5	3,6; 4 mm
1.103	5	4,6; 5; 6 mm

Narrow gingiva former

1.104	5	3,6; 4 mm
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Gingiva formers

Are intended for correct creation of a contour of a gum. The formers allow the gums, located around the implant, to take a natural shape and achieve a good aesthetic result.



Standard abutments

A series of straight and angled abutments of different lengths and with a different angle of inclination with respect to the implant. They are used in different clinical situations, depending on the prosthetic structure.

For implants with a diameter of 3.6 mm; 4 mm

For implants with a diameter of 4.6 mm; 5 mm; 6 mm

Straight:

REF	Gingival part, mm	Crown part, mm
2.05	1	7
2.06	2	
2.07	3	
2.08	4	
2.09	5	

REF	Gingival part, mm	Crown part, mm
2.37	1	6
2.38	2	
2.39	3	
2.40	4	

Angle 10°

REF	Gingival part, mm	Crown part, mm
2.13	1	7
2.14	2	
2.15	3	
2.16	4	
2.17	5	

REF	Gingival part, mm	Crown part, mm
2.45	1	6
2.46	2	
2.47	3	
2.48	4	

Angle 15°

REF	Gingival part, mm	Crown part, mm
2.21	1	7
2.22	2	
2.23	3	
2.24	4	

REF	Gingival part, mm	Crown part, mm
2.53	1	6
2.54	2	
2.55	3	
2.56	4	

Angle 20°

REF	Gingival part, mm	Crown part, mm
2.29	1	7
2.30	2	
2.31	3	
2.32	4	

REF	Gingival part, mm	Crown part, mm
2.61	1	6
2.62	2	
2.63	3	
2.64	4	

Supplied together with fixing screw.



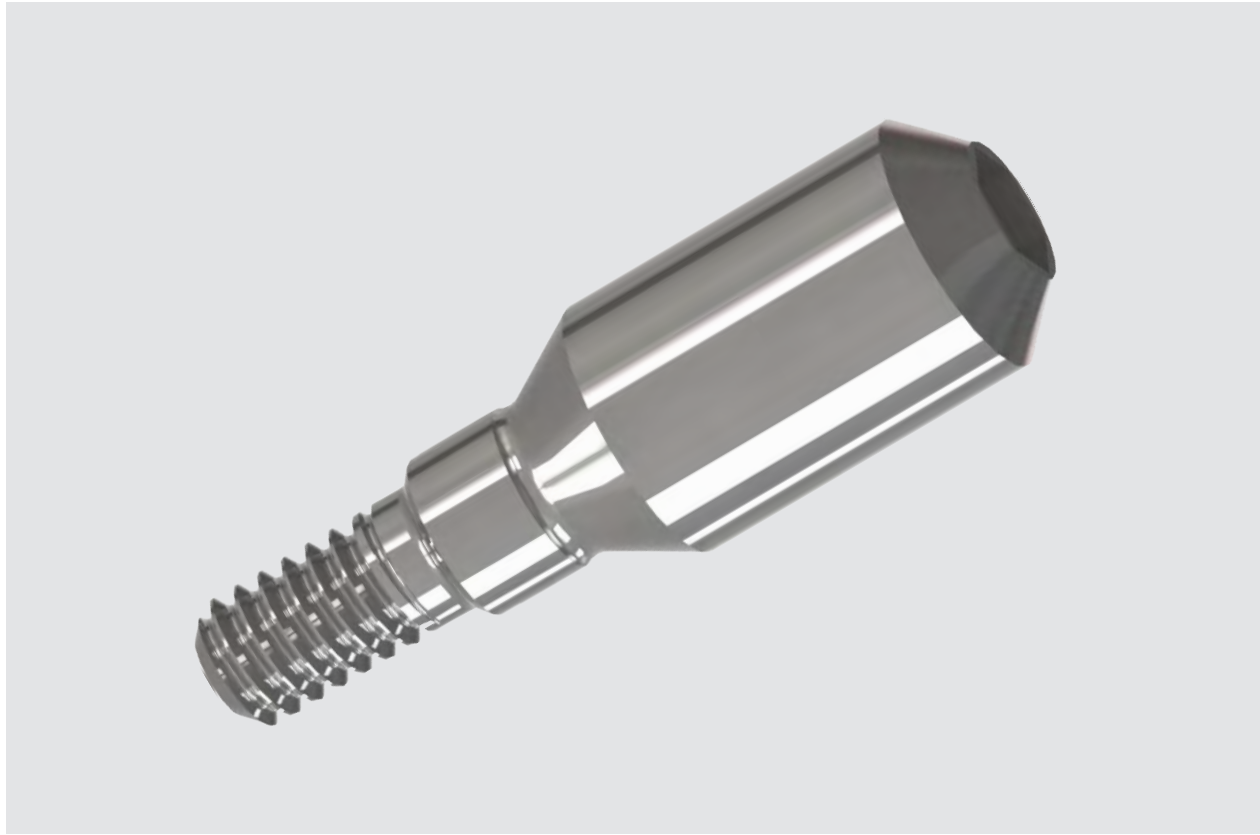
Aesthetic abutments

Aesthetic abutments are intended for the solution of clinical problems in the restoration of important areas of the front department.

Supplied together with fixing screw.

For implants with a diameter of 3,6; 4 mm

REF	Angle, °	Gingival part, mm	Crown part, mm
2.65	0	1 to 2	7
2.66	10		
2.67	15		
2.68	20		



Universal abutments

Designed for beam construction and screw fixation, but not less than on two implants.

For implants with a diameter of 3,6 mm; 4 mm

REF	Length, mm	Abutment diameter, mm
2.82	0,5	4
2.83	1,5	
2.84	3	
2.85	4,5	

For implants with a diameter of 4,6 mm; 5 mm; 6 mm

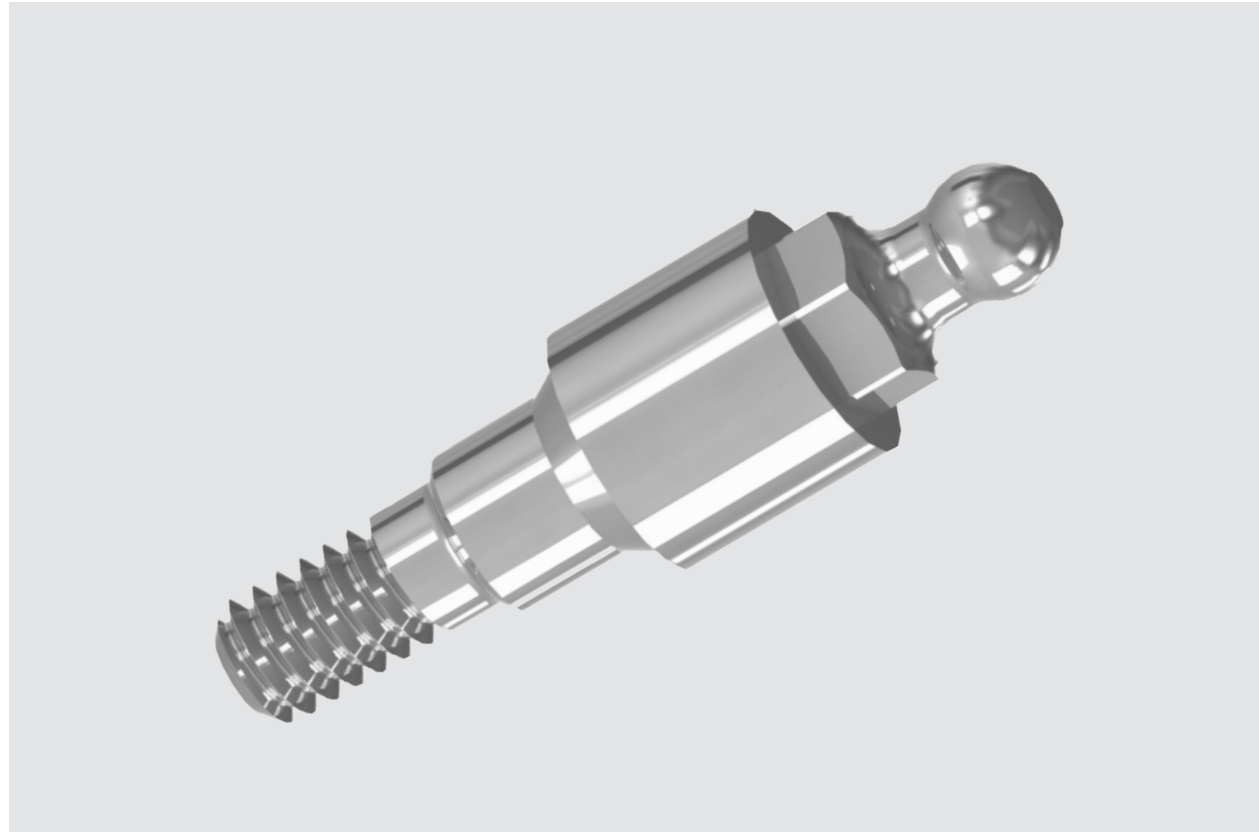
REF	Length, mm	Abutment diameter, mm
2.90	0,5	5
2.91	1,5	
2.92	3	
2.93	4,5	

Modelling caps

REF	For abutment diameters
4.28	4
4.30	5



3.07 - Fixing screw for universal abutments



Spherical abutments

To fix the removable denture. Providing a strong connection, looks good in terms of aesthetics and is optimal in matters of care and hygiene.

REF	Implant diameter, mm	Gingival part, mm	Diameter of sphere, mm	Mobility	Kit
2.94	3,6; 4	2	1,8	No	Complete*
2.95	3,6; 4	4	1,8	No	Complete*
2.96	3,6; 4	2	2,5	Yes	Complete*
2.97	3,6; 4	4	2,5	Yes	Complete*
2.98	4,6; 5; 6	2	2,5	Yes	Complete*
2.99	4,6; 5; 6	4	2,5	Yes	Complete*
2.103	4,6; 5; 6	2	2,5	No	Complete*
2.104	4,6; 5; 6	4	2,5	No	Complete*
2.74	3,6; 4	1,5	1,8	No	Only abutment
2.75	3,6; 4	3	1,8	No	Only abutment

* The kit includes an abutment, retention cap, metal cap, membrane, spacer rings with three angles of inclination – 0°, 7°, 14°

Retention caps

Small platform, Ø sphere 1,8 mm

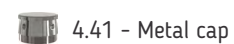
Number	Elasticity
4.34	Soft (yellow)
4.35	Standard (pink)
4.36	Strong (white)

Large platform, Ø sphere 2.5 mm

Number	Elasticity
4.38	Soft (yellow)
4.39	Standard (pink)
4.40	Strong (white)



5.26 – universal key, suitable for all kinds of spherical abutments



4.41 – Metal cap



4.42 – Metal cap

Technical abutments



Ashless abutments

- 4.21 Ashless abutment for implants 3,6; 4 mm
- 4.22 Ashless abutment for implants 4.6-6 mm



Grindable abutments

- 4.23 Grindable titanium abutment for implants 3,6; 4 mm
- 4.24 Grindable titanium abutment for implants 4.6-6 mm



Affluent abutment

- 4.25 Affluent abutment with titanium base for implants 3,6; 4 mm



Temporary abutments

- 2.100 Temporary abutment for implants 3,6; 4 mm
- 2.101 Temporary abutment for implants 4.6-6 mm
- 2.102 Temporary abutment (without hexagon) for implants 3,6; 4 mm



OT Equator

OT Equator - a new line of low profile abutments. Produced by the Italian company Rhein83, individually for the NDI Medical implants system.

OT Equator abutments for today - the system of fastening of the smallest sizes that allows to use it successfully in clinical conditions with a limited interocclusal space.

The diameter of the abutment hemisphere for all sizes is 2.5 mm.

REF	Height, mm	Implant diameter, mm	Kit
4.50	1,5	3,6; 4	Complete
4.51	3	3,6; 4	
4.52	1,5	4,6; 5; 6	
4.53	3	4,6; 5; 6	



Retention caps

REF	Elasticity
1.531	Soft (pink)
1.532	Standard (white)
1.533	Strong (purple)



1.540 - Metal cap







5.02, 5.03
Hex key for OT-Equator fixation



Multi-Unit

Multi-component abutment "Multi-Unit" is used for restoration of the dentition using the technology Trust-on-4.

Following keys are used for Multi-Unit fixation: 5.02, 5.03, 5.29

	REF	Angle, °	Height, mm	Implant diameter, mm	Kit
	7.000	0	1	3,6; 4	Complete
	7.010	0	2	3,6; 4	
	7.020	0	3	3,6; 4	
	7.030	0	4	3,6; 4	
	7.040	17	1	3,6; 4	
	7.050	17	2	3,6; 4	
	7.060	30	1	3,6; 4	
	7.070	30	2	3,6; 4	
	7.120	0	1	4,6; 5; 6	
	7.130	0	2	4,6; 5; 6	
	7.140	0	3	4,6; 5; 6	
	7.150	0	4	4,6; 5; 6	
	7.160	17	1	4,6; 5; 6	
	7.170	17	2	4,6; 5; 6	
	7.180	30	1	4,6; 5; 6	
	7.190	30	2	4,6; 5; 6	

The kit includes: abutment, holder, healing cap, modelling cap, fixing screw.



4.10 - Transfer



7.08 - Temporary abutment (titanium)



7.09 - Healing cap



7.10 - The modelling cap (plastic)



4.29 - Laboratory implant analog



3.08 - Fixing screw 1.8 mm for implants with a diameter of 3.6; 4 mm



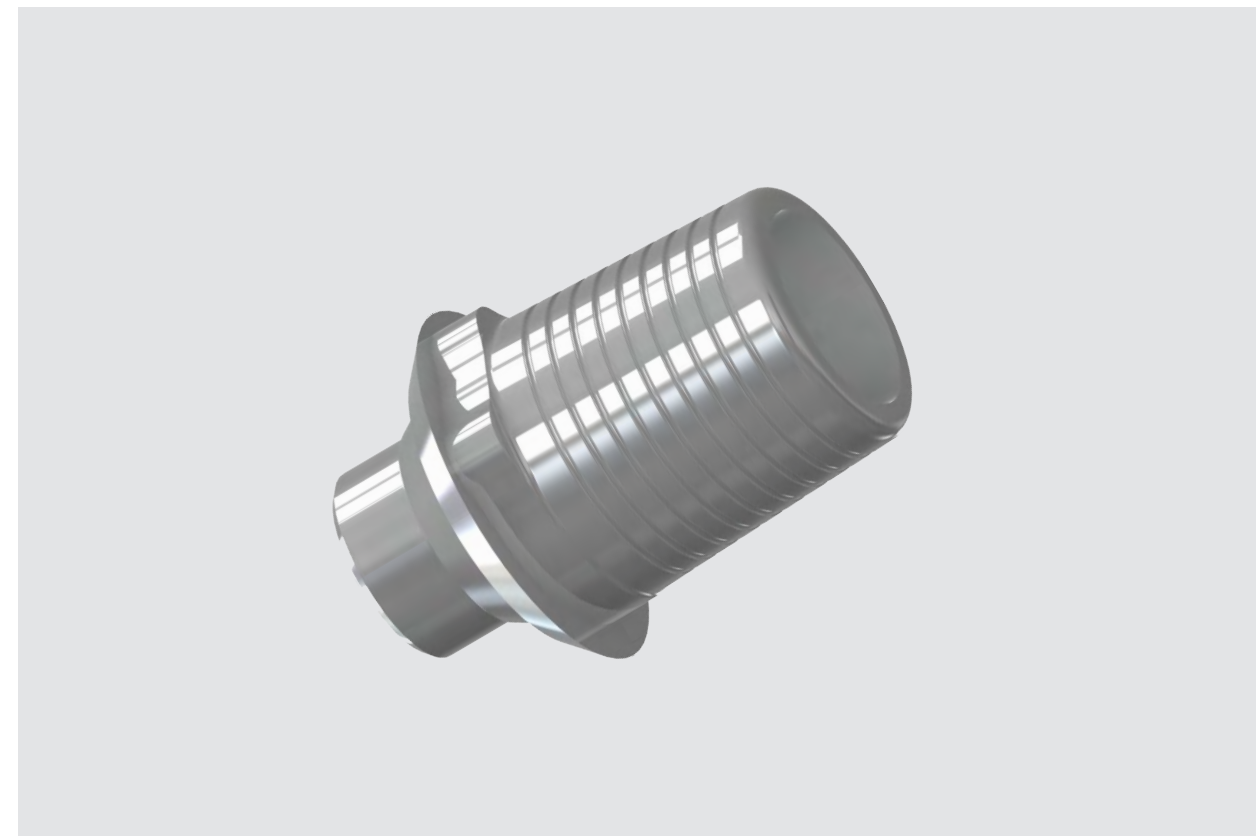
3.11 - Fixing screw 2 mm for implants with a diameter of 4.6; 5; 6 mm



3.07 - 1.6 mm screw for fixing the modelling caps, height 4 mm



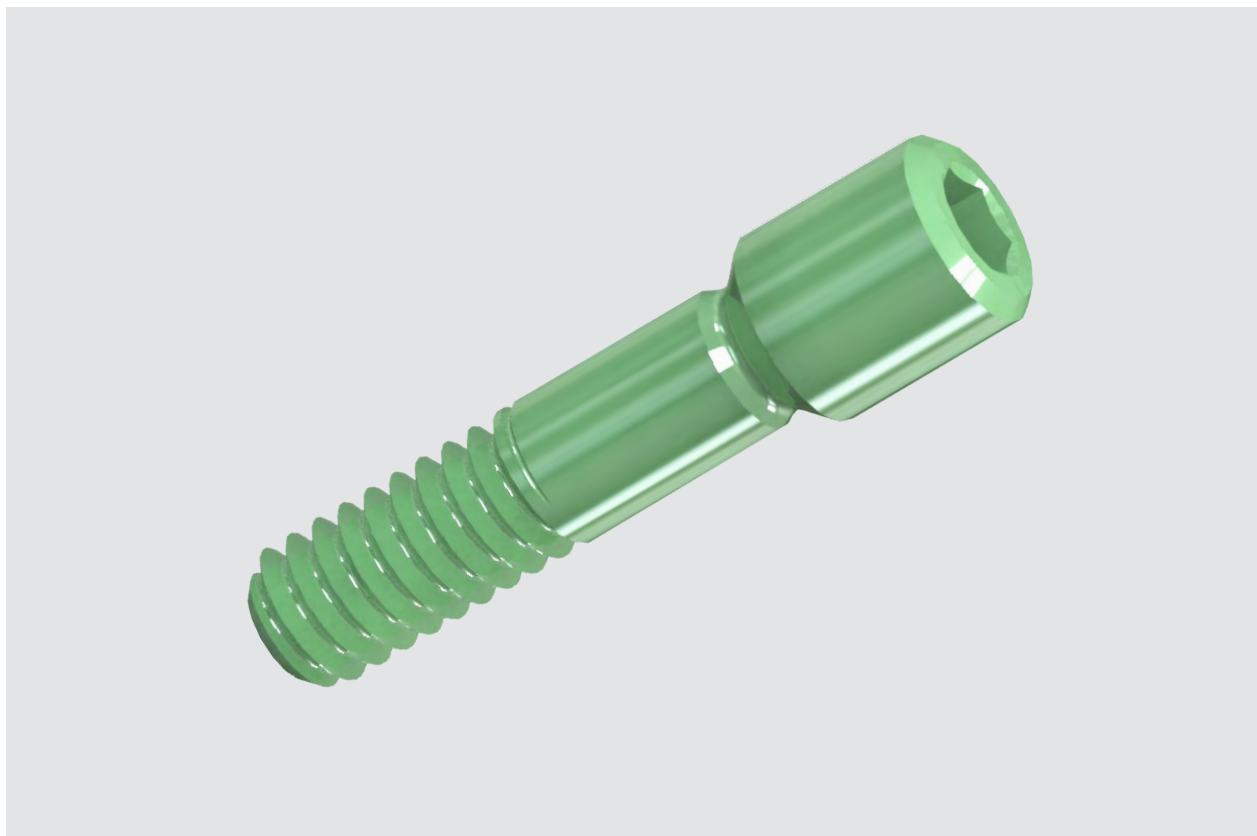
Straight abutment may compensate the difference up to 40°
 Angular abutment 17° may compensate the difference up to 75°
 Angular abutment 30° may compensate the difference up to 100°



Bases for CAD/CAM

Special titanium bases on which individual abutments are manufactured.

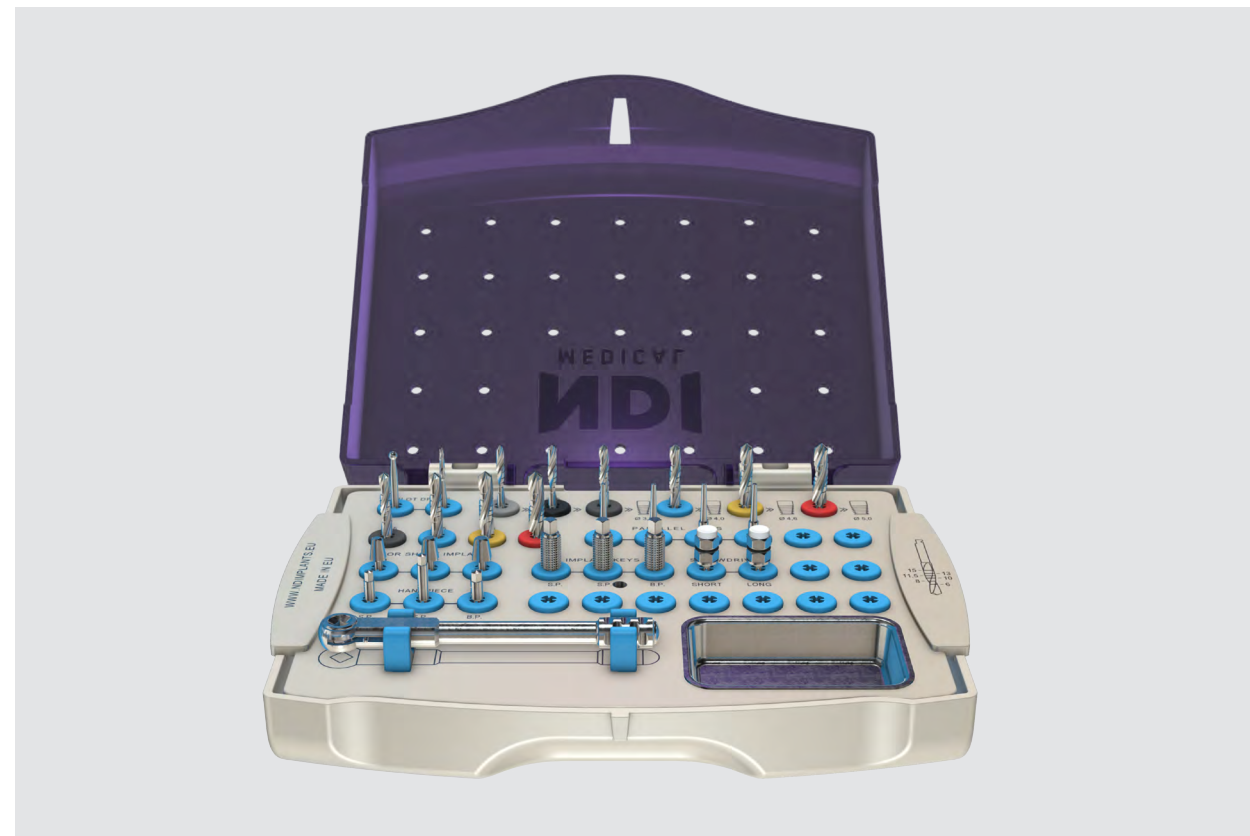
REF	Hexagon	Implant diameter, mm
5.400	With hexagon	3,6; 4
5.401	Without hexagon	3,6; 4
5.402	With hexagon	4,6; 5; 6
5.403	Without hexagon	4,6; 5; 6



Fixing screws

Screws are used at the prosthetic stage of implantation, for fixing the abutments to the implant.

- 3.01 - Fixing screw (diameter 1.8 mm)
for implants with a diameter of 3.6 mm; 4 mm
- 3.05 - Fixing screw (diameter 2.0 mm)
for implants with a diameter of 4.6; 5; 6 mm
- 3.09 - Fixing screw for aesthetic abutments (diameter 1.8 mm)
- 3.10 - Fixing screw for Small Implants (diameter 1.8 mm)



Surgical kits

Instruments used in the surgical stage of implantation. The kits are ergonomic and versatile. Tools are located for easy and convenient installation of implants.



6.100 Option 1 (Plastic box)

Optimal composition of the kit in a plastic box for the installation of two-stage implants.

- 1. Titanium tweezers (option).
- 2. Keys:
 - a. reversible key;
 - b. three implant keys;
 - c. two manual hexagonal keys, long and short.
- 3. Cutters:
 - a. spherical;
 - b. osseal.
- 4. Four depth gauges.
- 5. Four screwing taps for the reversible key.
- 6. Ten drills.
- 7. Extension for the drill bit.
- 8. Steel bath.



6.101 Option 2 (Stainless steel box)

Steel box with a standard kit of tools for working with all types of implants with a two-stage installation.

- 1. Keys:
 - a. reversible key;
 - b. three implant keys;
 - c. two manual hexagonal keys, long and short.
- 2. Cutters:
 - a. spherical;
 - b. osseal.
- 3. Four depth gauges.
- 4. Four screwing taps for the reversible key.
- 5. Ten drills.
- 6. Steel bath.

The size of the box: 180x100x45 mm.



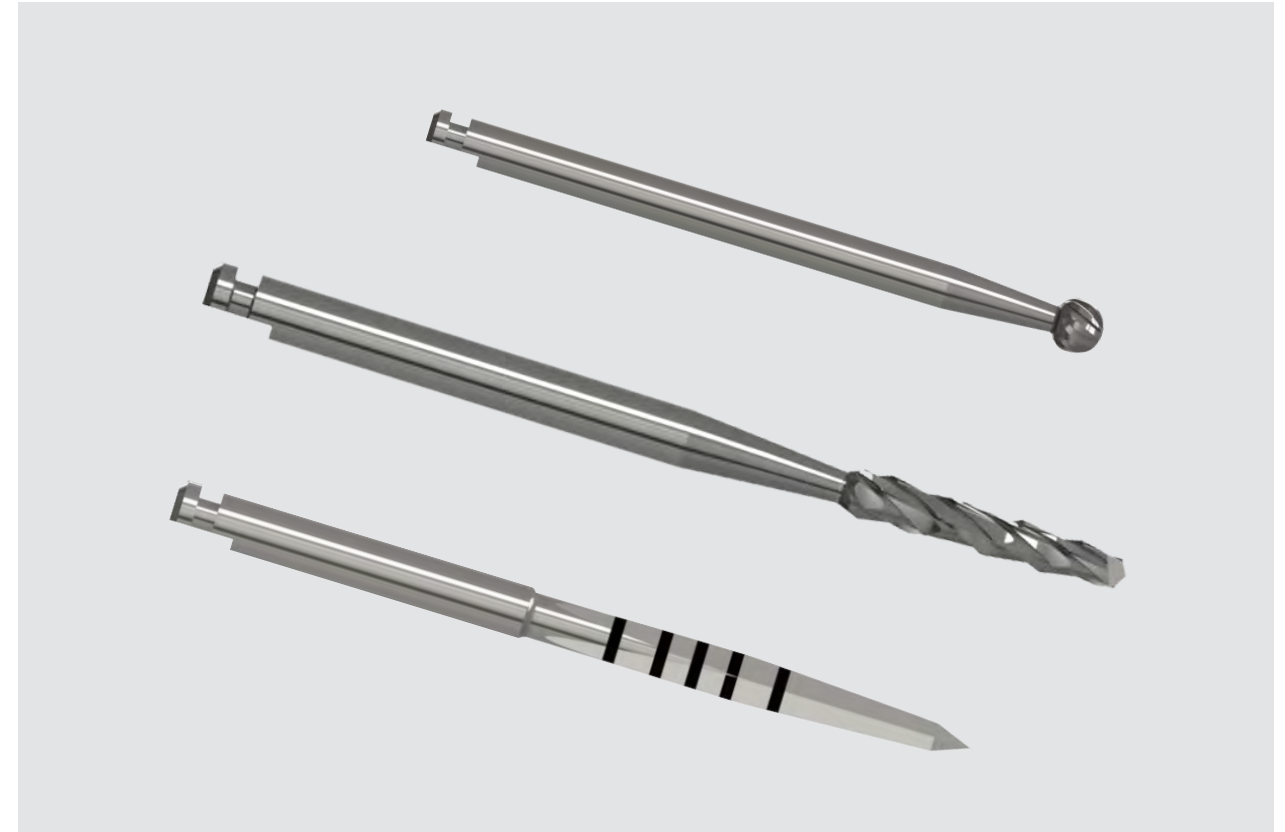
6.102 Option 3 (Stainless Steel Box)

A mini-kit in a steel box, sufficient to install two-stage implants.

- 1. Keys:
 - a. reversible key;
 - b. three implant keys;
 - c. manual hexagonal key.
- 2. The pike-shaped milling cutter.
- 3. Two depth gauges.
- 4. Six drills.
- 5. Steel bath

The size of the box: 155x95x45 mm.

All kits can be completed at the doctor's discretion.



Cutters

Tool for forming the bone bed, further simplifying the work with the drills and their precise positioning.

- 6.51 - Spherical cutter
- 6.52 - Bone milling cutter
- 6.53 - Peak-shaped milling cutter



Drills

Tools for forming a bone bed for the implant.

REF	Diameter, mm	Length, mm
6.01	2	36 (standard)
6.02	2,5	
6.03	2,75	
6.04	3	
6.05	3,5	
6.06	4	
6.07	4,5	
6.08	3,35	
6.09	3,75	
6.10	4,35	
6.11	4,75	
6.12	2,5	28 (short)
6.13	2,75	
6.14	3	
6.15	3,5	
6.16	4	
6.17	4,5	39 (long)
6.18	2,5	
6.19	2,75	
6.20	3	
6.21	3,5	
6.22	4	
6.23	4,5	



Stoppers

Suitable for long drills 6.18-6.23

REF	Length, mm
5.18	8
5.19	10
5.20	11,5
5.21	13
5.22	15






Finishing drills for Short implants

REF	Implant diameter, mm
6.24	5
6.25	5,5
6.26	6

Instruments

Implant keys

Implant key - a tool for the correct insertion of the implant and its stable fixation in the bone bed.

	REF	Implant diameter, mm	Length, mm	Intention
	5.08	3,6; 4	25	For reversible wrench 5.23
	5.09	3,6; 4	30	
	5.10	4,6; 5; 6	25	
	5.11	3,6; 4	25	For torque wrench 5.24
	5.12	3,6; 4	30	
	5.13	4,6; 5; 6	25	
	5.14	3,6; 4	25	For angular tip
	5.15	3,6; 4	30	
	5.16	4,6; 5; 6	25	



5.23 - Reversible wrench



5.24 - Torque wrench (* The keys 5.01-5.06 are adapted for the torque wrench 5.24)



5.01 - Key for transfer fixation

5.02 - Height 20 mm
5.03 - Height 25 mm } For fixing the gingiva formers, plugs and abutments to implants with a diameter of 3.6-4 mm

5.04 - Height 20 mm
5.05 - Height 25 mm } For fixing abutments to implants with a diameter of 4.6-6.0 mm and universal abutments

5.06 - Height 20 mm
5.07 - Height 25 mm } For fixing the screws 3.07 to the universal abutments



Prosthetic kits

To install abutments, kits of special tools are used. Prosthetic kits are issued in two versions of bundling: starter and complete.

- 5.100 - Starter kit: torque wrench and 2 screwdrivers
- 5.101 - Complete kit: torque wrench and 7 screwdrivers

Transfers

Transfer - a component of the prosthetic protocol of implantation, is used in the "indirect" method of obtaining models for creation of prostheses.



- 4.01 - Transfer for a closed spoon, for implants with a diameter of 3.6 mm; 4 mm
- 4.31 - Transfer for a closed spoon, for implants with a diameter of 4.6; 5; 6 mm
- 4.03 - Transfer for an open spoon, for implants with a diameter of 3.6 mm; 4 mm
- 4.04 - Transfer for an open spoon, for implants with a diameter of 4.6; 5; 6 mm

Laboratory analogues

Laboratory analogues for the prosthetic implantation stage, to imitate the endosseous part of the implant. Used in the manufacture of the basis of the prosthesis, for copying implants.



- 4.11 - Analogue of the implant with a diameter of 3.6 and 4 mm
- 4.12 - Analogue of the implant with a diameter of 4.6; 5 and 6 mm



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