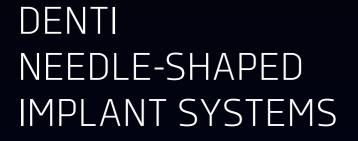






DN NEEDLE Tapered Head Implants

Minicare



With the application of Denti[®] small-diameter implants, patients can benefit from minimally invasive procedures that provide immediate denture stabilization. This enables quick and straightforward solutions for fixed denture retention at an affordable cost.

EASY TO USE, MINIMALLY INVASIVE, IMMEDIATELY LOADABLE, AFFORDABLE

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minimal car

EXPANDS ACCESS TO IMPLANT TREATMENT SIMPLIFIED SURGICAL PROCESS FINANCIAL BENEFITS FOR BOTH CLINICIAN AND PATIENT RELIABLE, DURABLE, AND BIOCOMPATIBLE

WORKS ALONGSIDE **EXISTING SYSTEMS**

Denti Mini is not just another implant system – it's a powerful **supplementary** tool that expands clinical possibilities while offering faster, simpler, and more affordable solutions to patients.

PREMIUM MATERIALS AND SURFACE TREATMENT





LONG-TERM SUCCESS

The first generation of Denti Diakor needle-shaped implants, made from aluminum oxide bioceramics, was introduced in 1983. By early 1987, the second generation of blade, doubleneedle, and needle-shaped implants was made from titanium, featuring the unique characteristic of being bendable at the neck area. Two decades later, the tapered and ball-head Denti Needle Implant System was introduced with diameters of 2.3 mm and 2.8 mm.

MINIMALLY INVASIVE PROCEDURES

The surgical procedure for Denti Needle Implants is quick and minimally traumatic. Implantation requires minimal bone preparation, significantly reducing the likelihood of postoperative complications. Both the surgical and prosthetic processes are easy to learn, simple, and fast to perform.

Denti Needle Implants are immediately loadable after placement in case of adeqate bone quality. They can also be used in cases where the narrow jawbone ridge cannot accommodate two-phase implants due to their larger diameters.



APPLICABLE

TRANSGINGIVALLY, WITHOUT SURGICAL EXPOSURE

FOR DENTURE RETENTION IN BOTH THE MAXILLA AND MANDIBLE

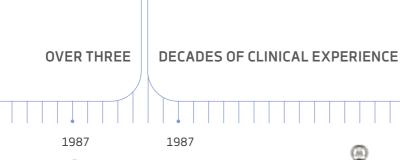
SUITABLE FOR REMOVABLE DENTURES – FOR THEIR STABILIZATION

FOR SIMPLE AND COMPLEX UNITS, INCLUDING BRIDGES AND CROWNS

Can also be used as **temporary or permanent support** during the healing period in traditional implant-supported dental restorations. **Simple and fast** to apply.

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CLINICALLY PROVEN RESULTS





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FAST AND TRAUMA-FREE SURGICAL PROCEDURES

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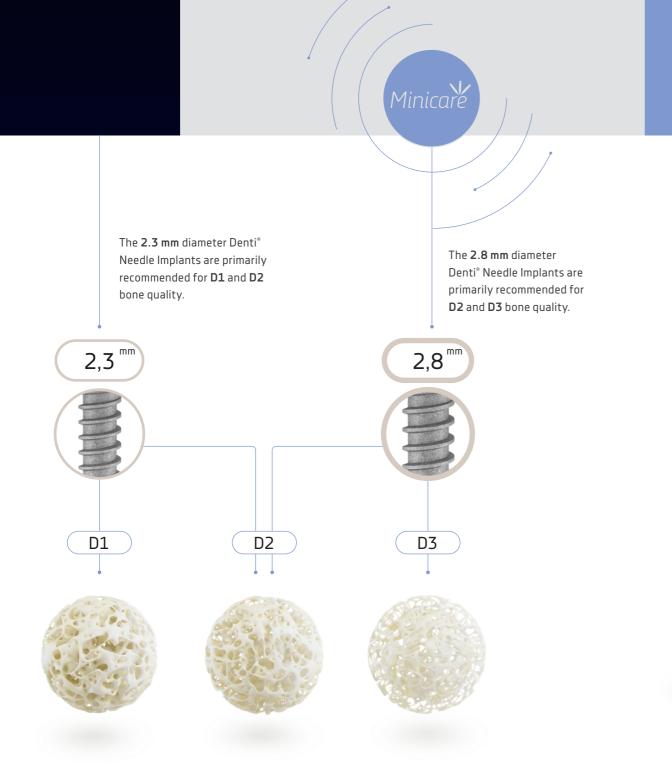
DESIGN CLINICALLY PROVEN RESULTS

The body of the Denti Needle Implants is root-shaped, resembling the natural tooth root. Thanks to their specialized threading, the implants exhibit a high bone-condensing effect, ensuring perfect primary stability, even in **D3 bone quality**. Their insertion is facilitated by self-tapping edges.

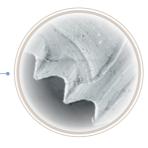
SURFACE

MICROPOROUS, HYDROPHILIC SURFACE

The surface of Denti Needle Implants is identical to the proven Denti implants, which boast a success rate exceeding **98.7%**. The implant body that contacts bone tissue has a microporous, hydrophilic surface achieved through physical and chemical surface modifications. This design provides high surface energy, ensuring the rapid and secure formation of hard tissue and long-lasting stability on the Denti implant surface.



SUCCESS RATE EXCEEDING 98,5%



Raw processed surface



Surface microstructure of Denti implants (MPS, SEM 500x)

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Sand-blasted surface



Passivated surface



Surface microstructure of Denti implants (MPS, SEM 10.000x)



TYPES AND SIZES

NEEDLE-SHAPED IMPLANT WITH TAPERED HEAD The Denti[®] Needle Implant Systems are available in **two** diameters and three different lengths, with two distinct head designs.

Reference Number	Implantation Length	Total Length
N 12311	11 mm	18 mm
N 12313	13 mm	20 mm
N 12315	15 mm	22 mm
N 12811	11 mm	18 mm
N 12813	13 mm	20 mm
N 12815	15 mm	22 mm

TYPES AND SIZES

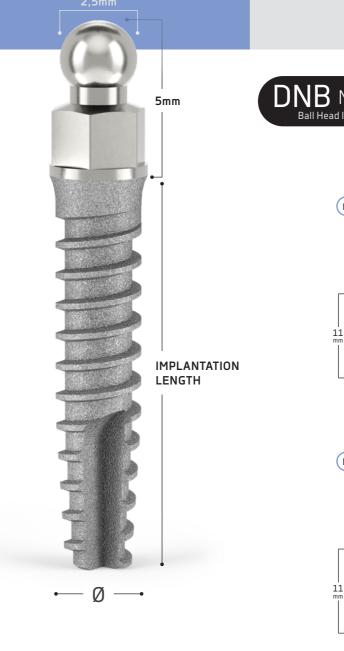
NEEDLE-SHAPED IMPLANT WITH BALL HEAD

compatible		
Reference Number	Implantation Length	Total Length
NB 12311	11 mm	16 mm
NB 12313	13 mm	18 mm
NB 12315	15 mm	20 mm
NB 12811	11 mm	16 mm
NB 12813	13 mm	18 mm
NB 12815	15 mm	20 mm





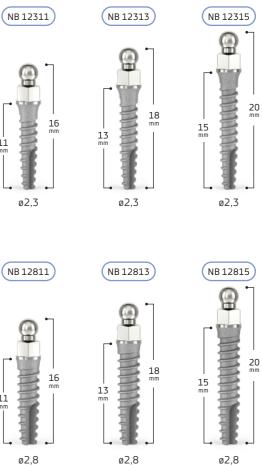
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SURGICAL EQUIPMENT

SURGICAL TRAY FOR DENTI NEEDLE IMPLANTS

The **Denti® Needle Implant System** includes a specialized surgical kit containing all the instruments necessary for surgical and prosthetic procedures. The surgical kit for the Denti® Needle Implant System is easy to navigate, ensuring fast, efficient, and hassle-free implant placement.

The same surgical instruments are used for both head designs (tapered and OT-CAP-compatible ball head).

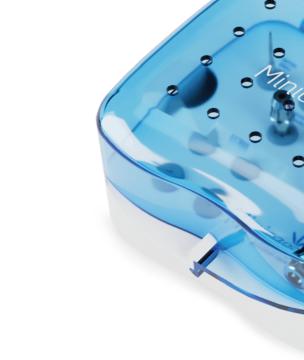
SURGICAL EQUIPMENT

SURGICAL INSTRUMENT SET FOR DENTI NEEDLE IMPLANTS

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Tools for accu I**nitial Drill**: U **Pilot Drill**: Th Select the ap Recommende





	REF. NUMBERS		
	8000-067	Initial Drill	
	40018	Pilot Drill for Ø 2.3 mm Denti $^{\odot}$ Needle Implants	
	N 80028	Pilot Drill for Ø 2.8 mm Denti $^{\odot}$ Needle Implants	
	N 8000-079	Driver with power drive	
	8000-143	Torque-Limiting Ratchet Wrench	
	8000-002	Driver Manual	



- Tools for accurate and efficient insertion:
- Initial Drill: Used to precisely mark the implant site.
- **Pilot Drill:** The pilot drill prepares the core hole for the implant.
- Select the appropriate drill diameter based on bone quality.
- Recommended speed: 800–1200 rpm





PACKAGING

The implants are supplied sterilized with gamma radiation. Prosthetic components and instruments must be sterilized in an autoclave prior to use.

PROSTHETIC COMPONENTS

For ball-head Denti® Needle Implants, direct impressiontaking is recommended. The tapered-head Denti® Needle Implant can tolerate minor angulation corrections (up to **7**°) without preparation.



	Manufacturer	STERILE R	Sterilized using irradiation
×	Use-by date	2	Do not resterilize
~	Date of manufacture (year, month)		Do not use if package is damaged
Ø	Size: Diameter (mm)	悉	Keep away from sunlight
L	Size: length (mm)	Ť	Keep dry
LOT	Batch code (lot number)	l	Consult instructions for use
REF	Catalogue number (reference number)		Caution
(€ 2409	CE mark	Rxonly	United States Federal law restricts medical devices to sale by or on the order of a licensed healthcare practitioner
2	Do not reuse		



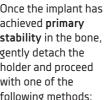
REFERENCE NUMBERS	COMPONENTS AND ACCESSORIES
N 3232884	Impression Cap for Ø 2.3 mm and Ø 2.8 mm De
N 3232887	Laboratory Analog Implant for Ø 2.3 mm and
NB 3232887	Laboratory Analog Implant for Ø 2.3 mm and
3000-881	OT-CAP metal housing
3000-880	OT-CAP retaining cap standard
3000-882	OT-CAP retaining cap soft
3000-883	OT-CAP retaining cap hard
3000-884	OT-CAP retaining cap extra hard

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IMPLANT SURGICAL PROTOCOLS







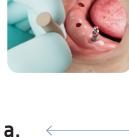
DNB NEEDLE

Ball Head Implants

DN NEEDLE

Tapered Head Implants





Attach the Driver with Power Drive (N 8000-079) and continue insertion using a contra-angle handpiece at low speed, applying a **maximum** torque of 45 Ncm,

(N 8000-079)

For immediate loading, a minimum insertion torque of **35 Ncm** is required.

If **45 Ncm** torque is insufficient for full insertion, the implant must be **removed** and the osteotomy deepened to preserve bone tissue integrity.

INDIRECT RESTORATIVE PROTOCOL



1. Placement of Impression Caps

Snap the **impression caps** directly onto each **Denti Needle** implant.

Note: The impression cap included in the system is **compatible** with all types and sizes of Denti Needle implants.

(3232884 Impression cap)



For Ball Head Implants and Tapered Head Implants



2. Taking the Impression

Use standard impression techniques to ensure that the impression caps are accurately captured and retained within the impression material.

Recommended material: Polyether impression material - ideal for high-precision implant impressions.



3. Removing the Impression

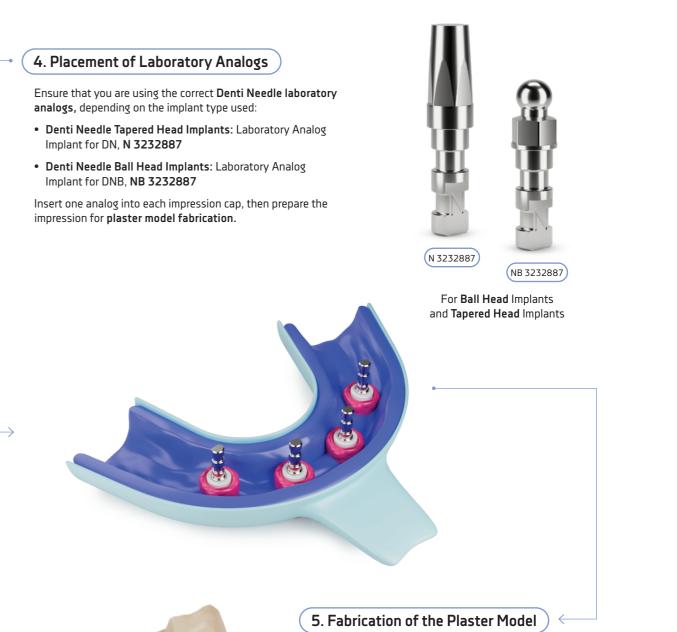
Once the impression material has fully set, carefully remove the impression tray from the patient's mouth.

Check to ensure that **all impression caps** are securely embedded in the impression.



- Implant for DN, N 3232887

impression for plaster model fabrication.



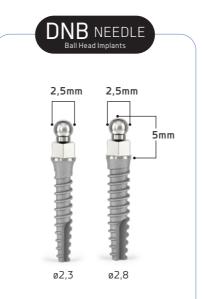


Use standard dental laboratory techniques to pour the plaster model. Once the plaster has fully set, carefully remove the impression from the model.





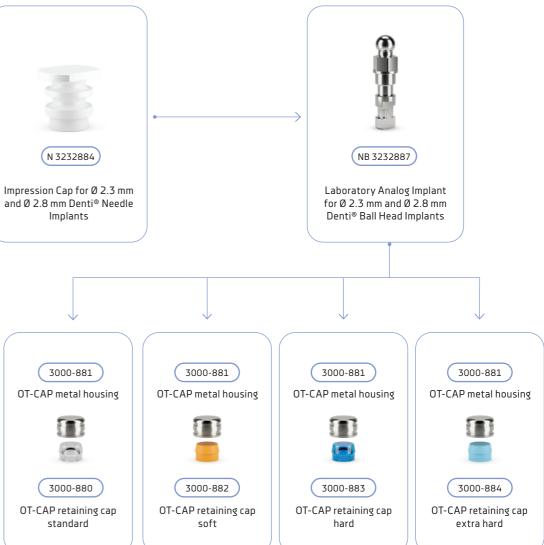
Reference Number	Implantation Length	Total Length	Diameter
N 12311	11 mm	18 mm	ø2,3mm
N 12313	13 mm	20 mm	ø2,3mm
N 12315	15 mm	22 mm	ø2,3mm
N 12811	11 mm	18 mm	ø2,8mm
N 12813	13 mm	20 mm	ø2,8mm
N 12815	15 mm	22 mm	ø2,8mm

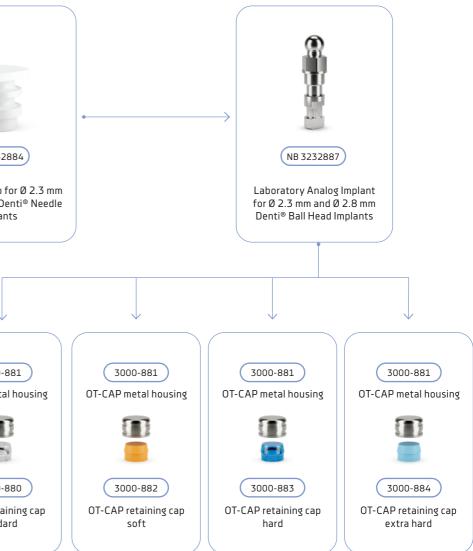


	Reference Numb
	NB 12311
	NB 12313
	NB 12315
	NB 12811
	NB 12813
	NB 12815
-	











Laboratory Analog Implant for Ø 2.3 mm and Ø 2.8 mm Denti® Needle Tapered Head Implants

iber	Implantation Length	Total Length	Diameter
	11 mm	16 mm	ø2,3mm
;	13 mm	18 mm	ø2,3mm
	15 mm	20 mm	ø2,3mm
	11 mm	16 mm	ø2,8mm
5	13 mm	18 mm	ø2,8mm
5	15 mm	20 mm	ø2,8mm







dentisystem.com



minicareimplant.com



callusimplants.com