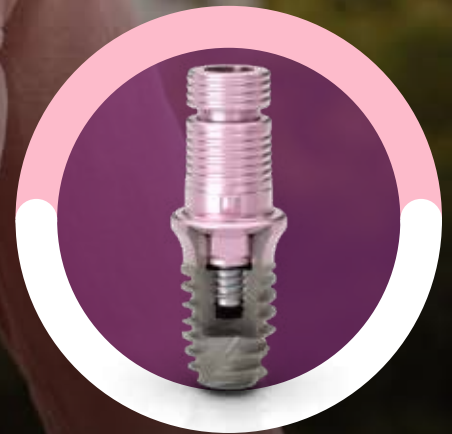


EXPLORE NEW LEVELS
NEODENT® **HELIX™ SHORT**



HS
Connection



ACQUA
Surface

Neodent® Helix™ Short

The Neodent® implant to treat vertical maxilla and mandible atrophy, leading to shorter treatment times and greater case acceptance.^{1,2}

Modern implant dentistry drives us to develop solutions that provide less morbidity and faster treatment times for patients. At the same time, challenging indications such as vertical bone atrophy require advanced implant technology and design, efficient surgical techniques, and comprehensive prosthetic options.

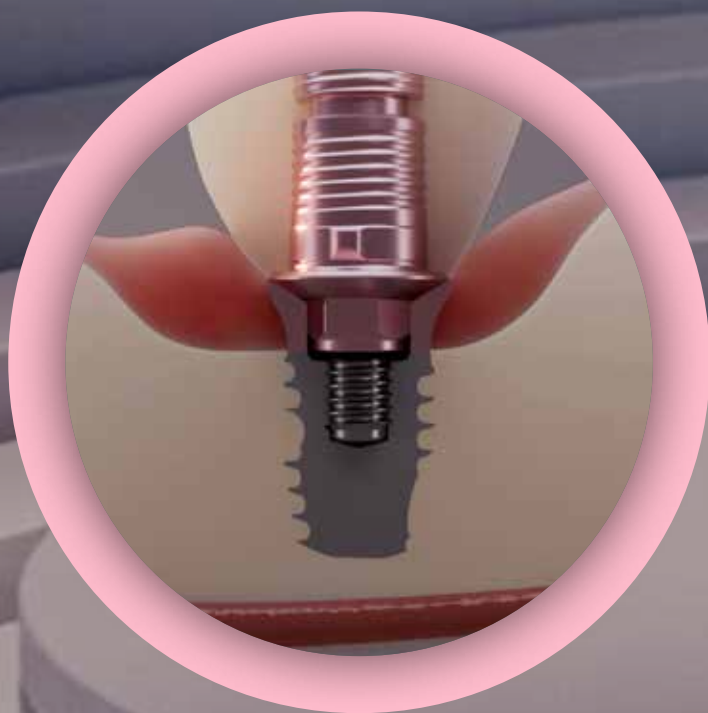
The emerging concern of peri-implant management, as an important factor for long-term success, supports the demand for reliable features related to the surrounding implant soft tissues. In addition, the search for reliable surgical drilling protocols, especially in conditions of poor vertical bone availability, is a key point for more predictable results in patients' rehabilitations.

The Neodent Helix Short system was designed to deliver efficiency in challenging clinical situations of vertical bone atrophies, as an alternative for bone regenerative procedures.^{1,2} Meet your patients' expectations and increase the acceptance rate of your treatments with straightforward protocols and versatile prosthetic options of Neodent Helix Short.



**EXPLORE NEW LEVELS WITH
HELIX SHORT**

Scan the QR and watch the concept!





Helix™ Short is the result of concepts already established in the Neodent® philosophy and taken to the next level. A remarkable solution for cases of low vertical bone availability.

DR. GENINHO THOMÉ



A REMARKABLE SOLUTION FOR VERTICAL BONE ATROPHY

Treat more cases with less morbidity and shorter treatment times.^{1,2}



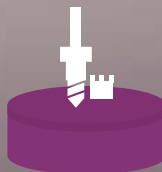
A DESIGN FOR OPTIMIZED SOFT TISSUE MANAGEMENT SEEKING LONG-TERM SUCCESS^{3,7}

The Tissue Level concept enabling better biological outcomes.³



VERSATILE PROSTHETIC RESOLUTION AND ANATOMICAL COMPATIBILITY

Meet the expectations for challenging cases: from single-unit to full arch restorations.*



MORE PREDICTABILITY FOR CHALLENGING SURGICAL PROCEDURES

Build confidence with intuitive control of drilling depth.

*Implants with a length of 4 and 5.5 mm are contraindicated for single and overdenture rehabilitations, and they are contraindicated for total and multiple restorations when not associated with implants with lengths greater than or equal to 7 mm.



A remarkable solution for vertical bone atrophy

Helix™ Short was designed to meet patient expectations, delivering the Neodent® established concepts of immediacy* and straightforward protocols, even for more demanding indications, such as low vertical bone availability: An alternative to bone graft procedures such as guided bone regeneration and sinus lift augmentation.^{1,2}



EVERY MILLIMETER MATTERS: AN IMPLANT DESIGN FOR A WIDE VARIETY OF CLINICAL SITUATIONS.

The proven versatility of the Helix implant design as a short implant, the Helix Short offers solutions for different bone types. Features built into its design include:

- Body design for progressive stability;
- Single trapezoidal threads;
- Apically tapered: apex for increased mechanical stability;
- Because every millimeter matters, a wide range of lengths:



4.0 mm



5.5 mm



7.0 mm



8.5 mm

*For 4 mm and 5.5 mm implants cannot expect immediacy concept.

THE HELIX™ SHORT CONNECTION: A STABLE FOUNDATION FOR CHALLENGING REHABILITATIONS

Built upon a new prosthetic platform, the Helix Short connection was designed in conjunction with a transmucosal collar to allow a deep internal connection as a stable foundation for the system - even when using a short implant. Its connection, regardless of the implant diameter, provides:

- 1 Wide cone on top for optimized occlusal forces distribution.
- 2 Internal indexation for easy handling and precise abutment positioning.

ACQUA HYDROFILIC SURFACES AND TREATMENT PREDICTABILITY⁸⁻¹¹

The Neodent® ACQUA hydrophilic surface is the next level of the highly successful S.L.A. surface. It was developed to reach expected result outcomes even in the most challenging patient cases, such as soft bone or immediate protocols.⁸⁻¹¹





A design for optimized soft tissue management seeking long-term success^{3,7}

Helix Short implant combines reduced lengths with a transmucosal collar. The smooth surface of this tissue level portion addresses the emerging concerns of modern implant dentistry related to peri-implant diseases, is designed to enable favorable long-term outcomes for treatments.³

THE HELIX SHORT TRANSMUCOSAL COLLAR: A CONCEPT DESIGNED FOR TISSUE LEVEL AND PERI-IMPLANT MANAGEMENT



Transmucosal collar: Smooth surface optimized for lower bacterial adhesion.⁷



Implant-abutment interface: Position far from the crestal bone and optimized space for biological distance.³

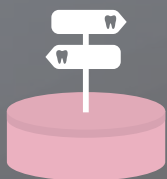


**A STANDARD TRANSMUCOSAL
COLLAR, OPTIMIZED FOR
LOWER BACTERIAL ADHESION**
Scan the QR code and check out!

**FEATURING SOFT TISSUE MANAGEMENT
FOR ESTHETIC OUTCOMES**

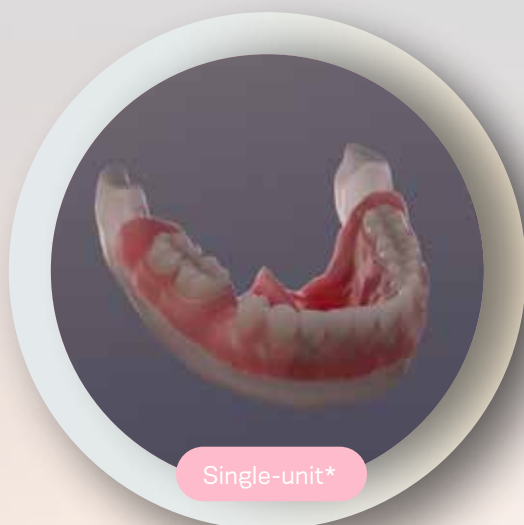


Anodized transmucosal collar: Mimics the natural color of soft tissues for positive outcomes even in aesthetic demanding cases.⁶



Versatile prosthetic resolutions and anatomical compatibility

The Helix™ Short provides a versatile, prosthetic solution for cases of low vertical bone availability. From single units to full arch restorations*, the system provides clinicians tools and a comprehensive prosthetic portfolio designed to treat prevalent and challenging clinical situations.



Single-unit*



Multi-unit*



Full-arch*



*Implants with a length of 4 and 5.5 mm are contraindicated for single and overdenture rehabilitations, and they are contraindicated for total and multiple restorations when not associated with implants with lengths greater than or equal to 7 mm.

MEET YOUR PATIENT EXPECTATION FOR PREVALENT AND CHALLENGING CASES

The Helix™ Short provides predictability for different types of prosthetic resolutions, from single-unit to full arch restorations. Implants with a length of 4 and 5.5 mm are contraindicated for single and overdenture rehabilitations, and they are contraindicated for total and multiple restorations when not associated with implants with lengths greater than or equal to 7 mm.



Temporary Abutments



Titanium Base for Crown



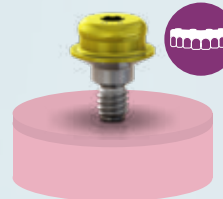
Titanium Base for Bridge



Straight Mini Conical Abutment



Angled Mini Conical Abutment



Attachment TiN



Single-unit screw-retained prosthesis



Single-unit cement-retained prosthesis



Temporary



Multiple-unit screw-retained prosthesis



Overdenture

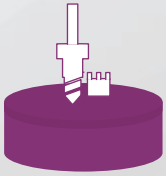
Implants with a length of 4 and 5.5 mm are contraindicated for single and overdenture rehabilitations, and they are contraindicated for total and multiple restorations when not associated with implants with lengths greater than or equal to 7 mm.

FROM CONVENTIONAL TO DIGITAL: A WIDE RANGE OF MATERIALS AND WORKFLOWS

Meet and exceed patient expectations with access to a variety of restorative material options for a wide range of abutments:

- Milling, printing, or conventional manufacturing that features simplicity in all workflows;
- Prosthetic libraries available for the main CAD/CAM systems.



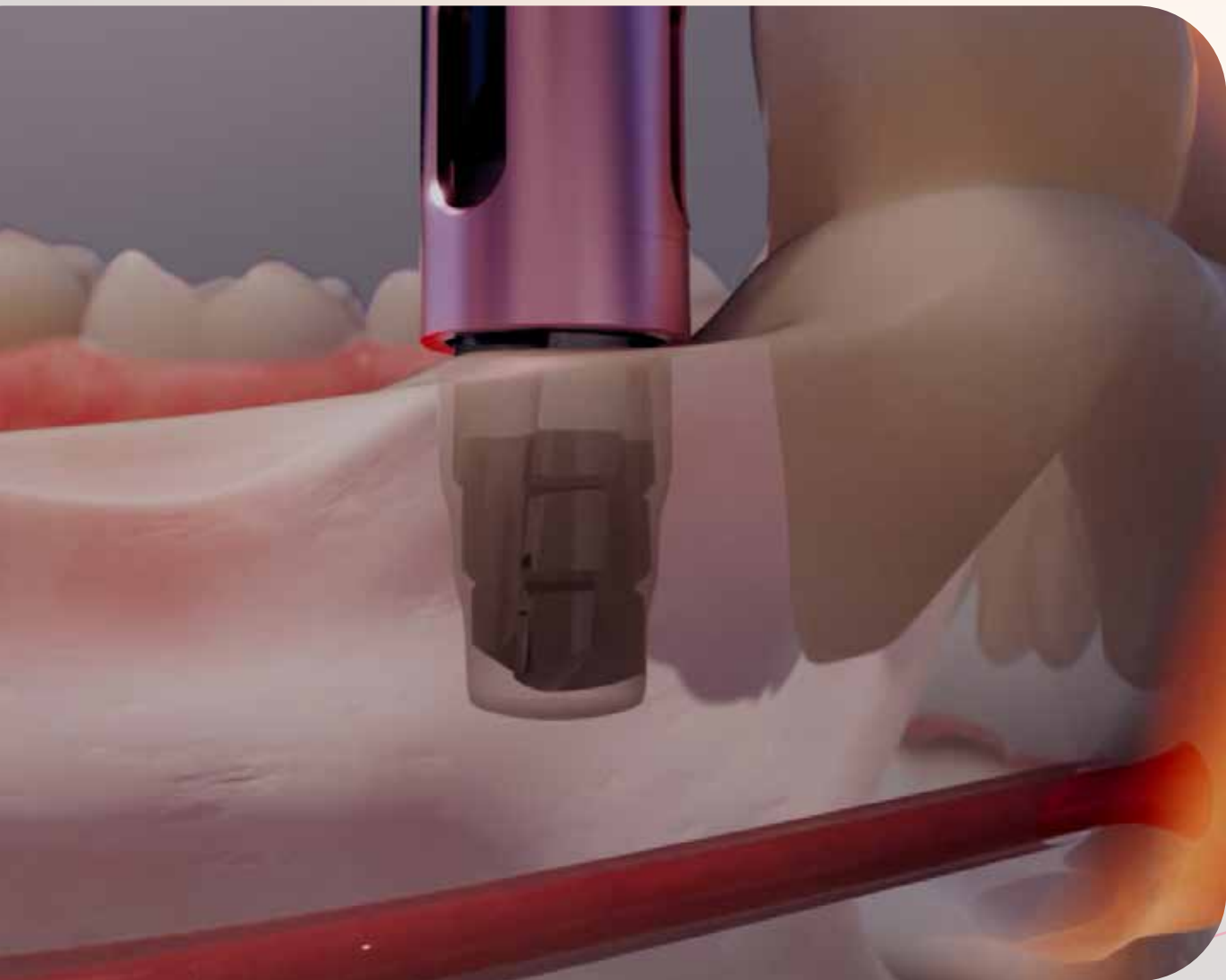


More predictability for challenging surgical procedures

The Neodent® Helix™ Short system's deep drilling control helps clinicians build confidence to overcome the challenges of performing procedures in patients with low vertical bone availability.



SEE THE DRILLING SYSTEM IN PRACTICE
Scan the QR code!





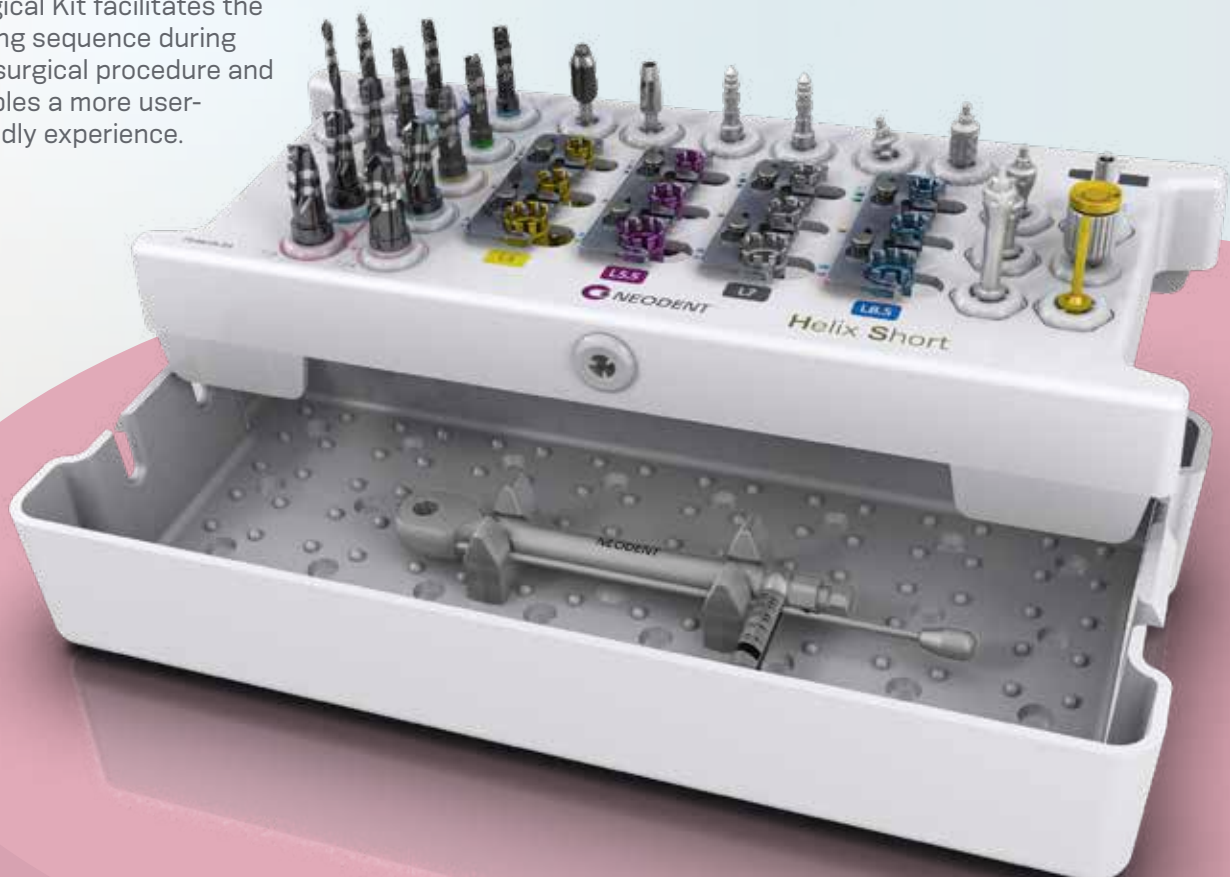
BUILD CONFIDENCE DURING DRILLING BY GAINING MORE PREDICTABLE DEPTH CONTROL

Helps to avoid anatomical structures, such as the inferior alveolar neurovascular bundle, maxillar sinus, or adjacent roots with better physical control of drilling depths and predictable stops.

Improve accuracy even in challenging clinical situations, such as limited visibility caused by adjacent teeth, tongue, blood, or saliva.

AN INTUITIVE COLOR-CODED PROTOCOL: THE NEXT STEP IN EFFICIENT SURGICAL PROCEDURES

By offering a color-coded system, the Helix Short Surgical Kit facilitates the drilling sequence during the surgical procedure and enables a more user-friendly experience.



Clinical Case

Posterior rehabilitation in mandible with Helix™ Short

DR GENINHO THOMÉ, BRAZIL

CEO of Faculdade ILAPEO

Scientific President of Neodent®

Masters and PhD in Implantology

Chairman of the Board of Directors of Neodent

COLLABORATING TEAM

Dr. Carolina Accorsi Cartelli, Dr. Jean Uhlendof and Dr. Sérgio Rocha Bernardes



Initial clinical aspect, vestibular view.



Initial clinical aspect of region 36 and 37, occlusal view.



2 Helix Short 5 x 7mm implants installed. Region 36 with 45 Ncm and 37 with 60 Ncm.



HS Mini Conical Abutment 1.5mm installed in the region 36 and 37.



Provisionals installed, vestibular view.



Provisionals installed, occlusal view.



Soft Tissue healing, one month follow-up, occlusal view.



Soft Tissue healing, one month follow-up, vestibular view.



Definitive crowns installed, 12 months after implant placement, vestibular view.



Definitive crowns installed, 12 months after implant placement, occlusal view.



One month follow-up.



One year follow-up.



One year and 9 months follow-up.

[illegible]

[illegible]

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