

GRAND MORSE CATALOGUE 2018



 **NEODENT®**
A Straumann Group Brand



NEW SMILES EVERY DAY

Neodent® provides you with a complete range of products and services that are designed and produced by a team of professionals who truly love what they do. Just like you, we live to give people new reasons to smile. New ways to enjoy everything life has to offer. Every day.



TECHNICAL GUIDELINES

Innovative and ease to use

Neodent® Packaging

Neodent® implant packaging has been updated to a concept that provides convenience and safety through all steps of the procedure, from storage to the placement of the implant.

The new packaging aids in identification of both the implant model as well as its diameter and length, regardless of its storage position.



Package instruction of use



After breaking the sterility seal on the blister, hold the primary package (vial) and twist the lid to open it.



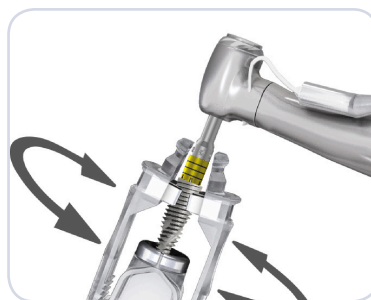
To remove the implant from the vial lift the cap up, which has the stand and implant attached to it.



To secure the implant, grip both sides of the implant carrier.



While gripping the implant carrier, remove the lid.



To capture the implant with the contra-angle handpiece attachment, grip the implant carrier while placing the attachment into the implant chamber.



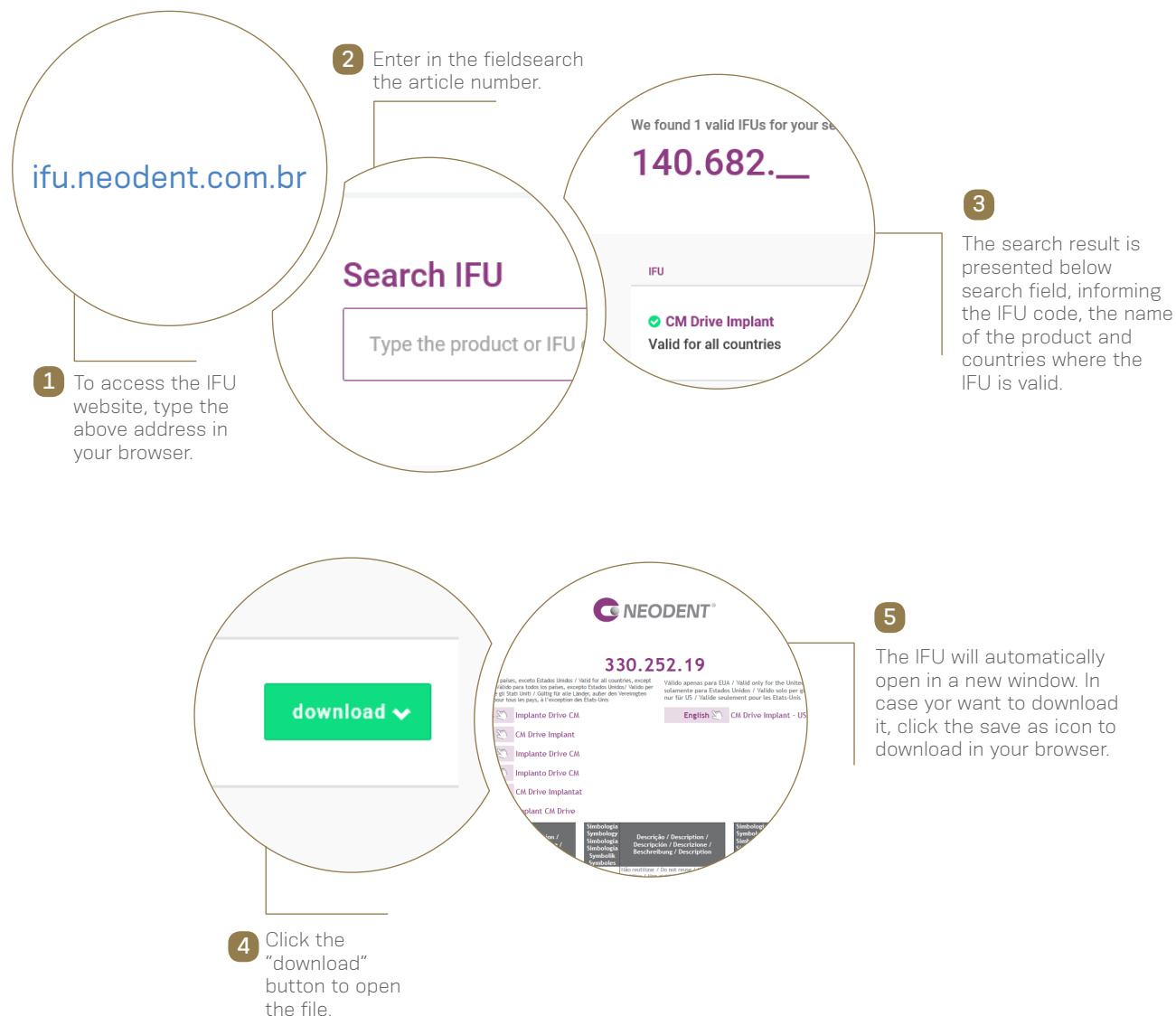
The implant can now be transported to the surgical site.

e-IFU – Electronic Instructions For Use

Neodent® innovates once more, providing an on-line platform designed to provide quick and practical use of its own products instructions: the e-IFU (Instructions For Use) website.

To facilitate access, have the article number, which can be found on the external packaging of the product, in this catalogue or with your local distributor. Once the article number is entered in the website, the professional will have access to relevant information to this product, such as description, indication for use, contraindications, handling, traceability and other features.

Access: ifu.neodent.com.br



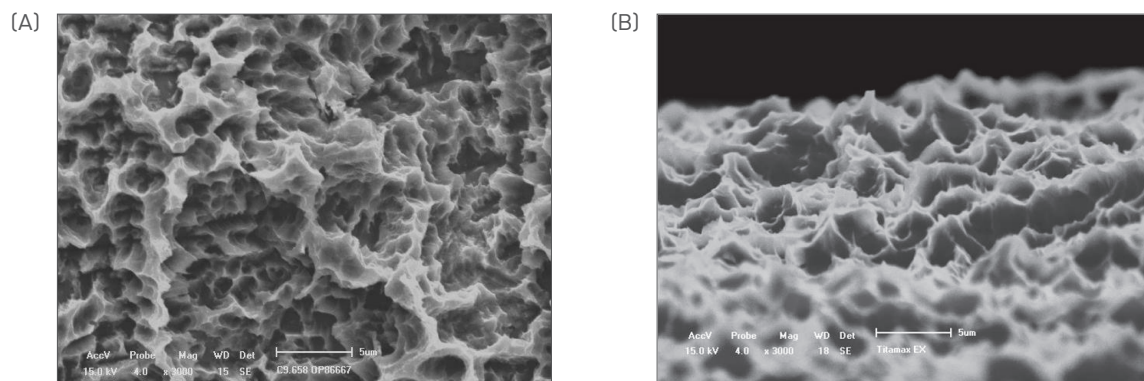
NeoPoros

Constant evolution and safety guarantee.

Based on the abrasive sandblasting concept followed by acid etching, the **NeoPoros** surface promotes, by using controlled grain oxides, cavities on the implant surface that then are uniformed with the acid etching technique.

The whole process of obtaining this surface is guaranteed due to automated time, speed, pressure and particle size control.

Several scientific studies continue to be performed so that the **NeoPoros** surface may be always evolving and promoting much more reliability for you.



Controlled roughness on all implant surface.
Scanning electron microscopy (A) shows macro (15-30µm) and
(B) microtopography (0,3 - 1,3µm).

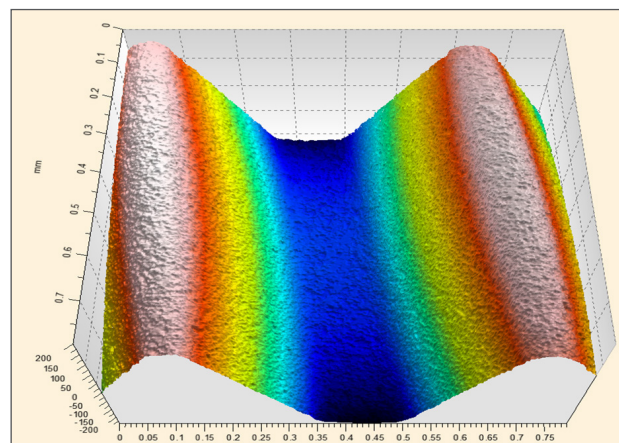


Image taken by confocal microscopy.
Roughness and Microtopography.
(Sa= 1,4 – 1,8 µm; Sz= 15 µm).



Surface
concept evolution

Acqua Hydrophilic Surface designed for high treatment predictability

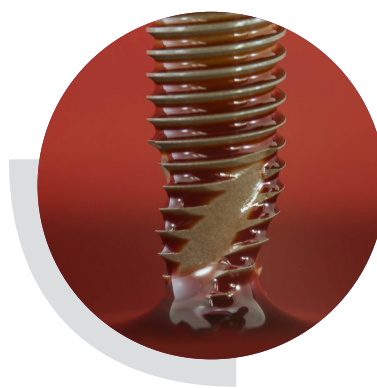
The Neodent® Acqua hydrophilic surface is the next level of the highly successful S.L.A. type of surface developed to achieve successful outcomes even in challenging situations, such as soft bone or immediate protocols⁽¹⁻⁴⁾

Surface comparison*

*Lab generated images.



NeoPoros surface



Acqua Hydrophilic Surface

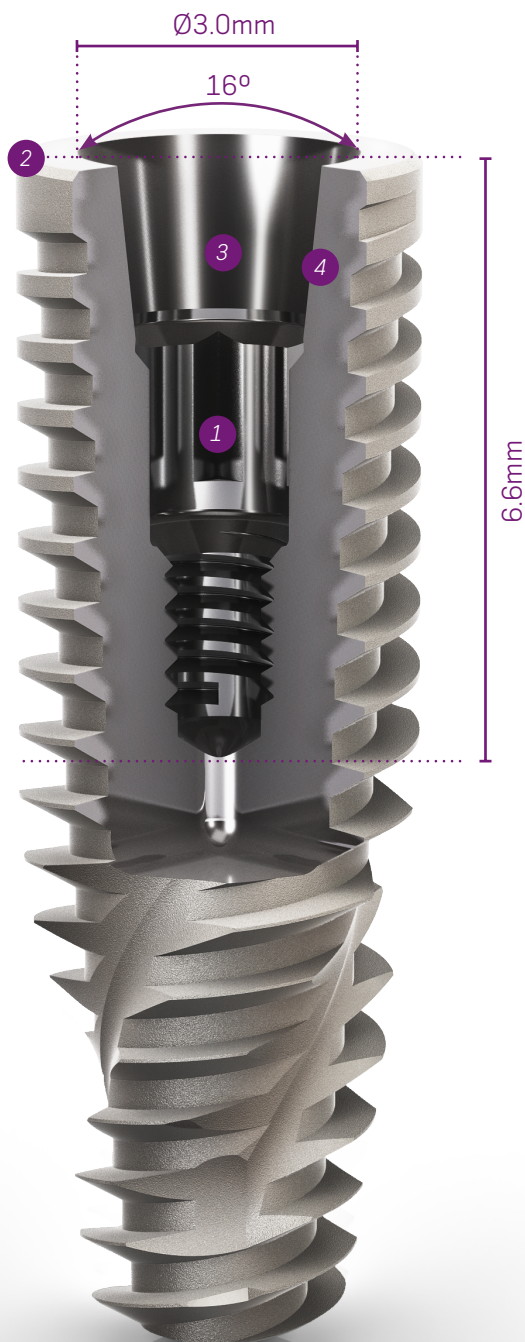
Hydrophilicity

The hydrophilic surface presents a smaller contact angle when in contact with hydrophilic liquids. This provides greater accessibility of organic fluids to Acqua implant surface.⁽²⁾

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GRAND MORSE

Grand Morse Connection

The Neodent® Grand Morse connection offers a unique combination based on proven concepts: a platform switch associated with a deep 16° Morse taper including an internal indexation for a strong and stable connection designed to achieve long-lasting results.



①

Internal Indexation

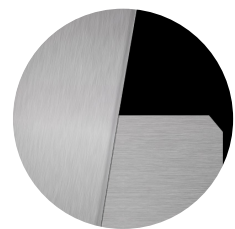
Precise abutment positioning, protection against rotation and easy handling.



②

Platform Switching

Abutment design with a narrower diameter than the implant coronal area, enabling the platform switching concept.^[5-9]



③

Deep Connection

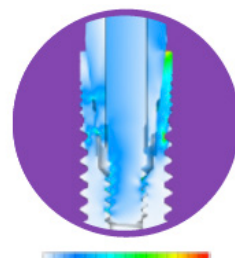
Allowing a large contact area between the abutment and the implant for an optimal load distribution.



④

16° Morse Taper connection

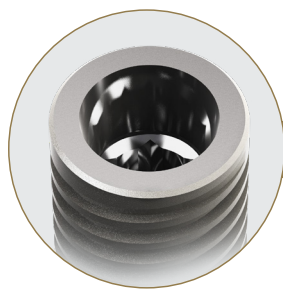
Designed to ensure tight fit for an optimal connection sealing.



Grand Morse Implants

The Neodent® Grand Morse implants provide a complete range of treatment options to create the optimal tooth replacement outcomes for all indications, from single tooth to fully edentulous:

- Helix Grand Morse is an innovative hybrid implant design maximizing treatment options and efficiency in all bone types.
- Drive Grand Morse is a tapered implant developed to achieve high primary stability in challenging bone situations such as soft bones and extraction sockets.
- Titamax Grand Morse is a cylindrical implant indicated for bone types I and II and allowing vertical placement flexibility.



One Grand Morse connection for all Grand Morse implants



		Helix GM	Drive GM	Titamax GM
Bone type	I	✓		✓
	II	✓		✓
	III	✓	✓	
	IV	✓	✓	

Indication table according to Lekholm and Zarb bone classification (1985).

Grand Morse Abutments

Pro-Peek Abutment	Titanium Base	Titanium Base C	Titanium Block	CoCr Abutment	Anatomic Abutment	Universal Abutment	Abutment	Angled Mini Conical Abutment	Novaloc
Temporary Single-unit	Single-unit		Single/ Multiple-unit	Single-unit			Multiple-unit		
Screw/Cement-retained prosthesis				Cement-retained prosthesis		Screw-retained prosthesis		Overdenture	

Neo Screwdriver 20 N.cm

Mini Conical Abutment	Micro Abutment
Multiple-unit	Single/Multiple-unit
Screw-retained prosthesis	

Hexagonal Prosthetic Driver - 32 N.cm

Helix GM

PRODUCT FEATURES:

Implants Description:

- Full dual tapered implant;
- Hybrid contour with a cylindrical coronal part and conical on the apical area;
- Active apex including a soft rounded small tip and helicoidal flutes;
- Dynamic progressive thread design: from compressing trapezoidal threads on the coronal area to self-tapping V-shape threads on the apical part;
- Double threaded implant;
- Grand Morse connection.

Indications:

- Indicated for all types of bone density and implant immediate placement post extraction.

Drilling features:

- Contour drill is required in bone types I and II;
- Final pilot drills are highly recommended in bone types I and II;
- Implant should be positioned 1-2 mm below bone level;
- Drilling speed: 800-1200 rpm for bone type I and II;
- Drilling speed: 500-800 rpm for bone type III and IV;
- Implant insertion speed: 30 rpm;
- Maximum torque for implant placement: 60 N.cm.



Available with:

NeoPoros or 

Drill Sequence

	Initial	Ø 2.0	Ø 3.5	Ø 3.5+	Ø 2.8/3.5	Ø 3.75	Ø 3.75+	Ø 3.0/3.75	Ø 4.0	Ø 4.0+	Ø 3.3/4.0	Ø 4.3	Ø 4.3+	Ø 3.6/4.3	Ø 5.0	Ø 5.0+	Ø 4.3/5.0	Ø 6.0
	103.170	103.425	103.399	103.419	103.414	103.402	103.420	103.415	103.405	103.421	103.416	103.408	103.422	103.417	103.411	103.423	103.418	103.427
Ø 3.5	Optional	✓		✓	✓													
Ø 3.75	Optional	✓	✓				✓	✓										
Ø 4.0	Optional	✓	✓			✓				✓	✓							
Ø 4.3	Optional	✓	✓			✓			✓				✓	✓				
Ø 5.0	Optional	✓	✓			✓			Optional			✓				✓	✓	

Bone types I and II



Ø 3.5	Optional	✓	✓															
Ø 3.75	Optional	✓	✓			Optional												
Ø 4.0	Optional	✓	✓					Optional										
Ø 4.3	Optional	✓	✓			✓						Optional						
Ø 5.0	Optional	✓	✓									✓			Optional			
Ø 6.0	Optional	✓	✓									✓			✓			Optional

Helix GM Implants

Bone types III and IV



		8.0 mm	10.0 mm	11.5 mm	13.0 mm	16.0 mm	18.0 mm
Ø 3.5							
	Acqua	140.943	140.944	140.945	140.946	140.947	140.988
	NeoPoros	109.943	109.944	109.945	109.946	109.947	109.988
Ø 3.75							
	Acqua	140.976	140.977	140.978	140.979	140.980	140.981
	NeoPoros	109.976	109.977	109.978	109.979	109.980	109.981
Ø 4.0							
	Acqua	140.982	140.983	140.984	140.985	140.986	140.987
	NeoPoros	109.982	109.983	109.984	109.985	109.986	109.987
Ø 4.3							
	Acqua	140.948	140.949	140.950	140.951	140.952	140.989
	NeoPoros	109.948	109.949	109.950	109.951	109.952	109.989
Ø 5.0							
	Acqua	140.953	140.954	140.955	140.956	140.957	140.990
	NeoPoros	109.953	109.954	109.955	109.956	109.957	109.990
Ø 6.0							
	Acqua	140.1009	140.1010	140.1011	140.1012		
	NeoPoros	109.1009	109.1010	109.1011	109.1012		

GM Healing Abutment



Profile	0.8 mm	1.5 mm	2.5 mm	3.5 mm	4.5 mm	5.5 mm
Ø 3.3	106.207	106.208	106.209	106.210	106.211	106.212
Ø 4.5	106.213	106.214	106.215	106.216	106.217	106.218

:: Use the manual Neo Screwdriver (104.060);
:: Do not exceed the insertion torque of 10 N.cm.

GM Customizable Healing Abutments



Profile	1.5 mm	2.5 mm	3.5 mm	4.5 mm	5.5 mm	6.5 mm
Ø 5.5	106.223	106.224	106.225	106.226	106.227	
Ø 7.0		106.228	106.229	106.230	106.231	106.232

GM Cover Screw



0 mm	2 mm
117.021	117.022

:: Use the manual Neo Screwdriver (104.060);
:: Do not exceed the insertion torque of 10 N.cm.

