



A SMILE FOR EVERYONE.

NEODENT® NEOARCH®
IMMEDIATE FIXED FULL-ARCH
SOLUTION.



 **NEODENT®**
A Straumann Group Brand



Grand Morse®
Connection



Helix®
Implant



Acqua
Surface

A UNIQUE PURPOSE

Creating new smiles everyday.

Founded by a dentist for dentists, with the purpose of changing lives. Neodent® is the 2nd largest dental implant company in the world which offers outstanding product performance with a proven track record of clinical success. Neodent's solutions focus on progressive treatment concepts, such as immediacy, which enables the advancement of dentistry and affordability to create new smiles every day.



2nd largest dental implant company*

Available over 40 countries.



25 years of history

More than two decades focused on enabling implant dentistry.



Clinical trust: 45K+ dentists

One of the largest network of dental professionals.



Clinical success

1.6M+ implants sold per year.



Clinical proof

250+ studies

*data on file

A SMILE FOR EVERYONE

Neodent® NeoArch®.
Immediate fixed full-arch solution.

Increasing expectations for shortened treatment duration represent a significant challenge for dental professionals especially in patients with anatomical deficiencies. The Neodent® Implant System offers an optimized solution for immediate fixed treatment protocols in edentulous patients. It allows to significantly improve patient satisfaction and quality of life by immediately restoring function and esthetics ⁽¹⁾.



Immediate function resulting in shorter treatment times.

- Tilted posterior implants avoid the use of grafting procedures ⁽²⁾.
- Optimized implant design to achieve high primary stability in all bone types ⁽³⁾.
- The Neodent® hydrophilic surface, Acqua has been designed for immediate access of blood to the implant surface.



Immediate natural esthetics with versatile restorative options.

- A broad range of options of gingival height to cater to your patient's needs.
- 6 options for the straight abutment and 3 options each for the 17° and 30° angulated.



Immediate peace of mind thanks to a stable foundation.

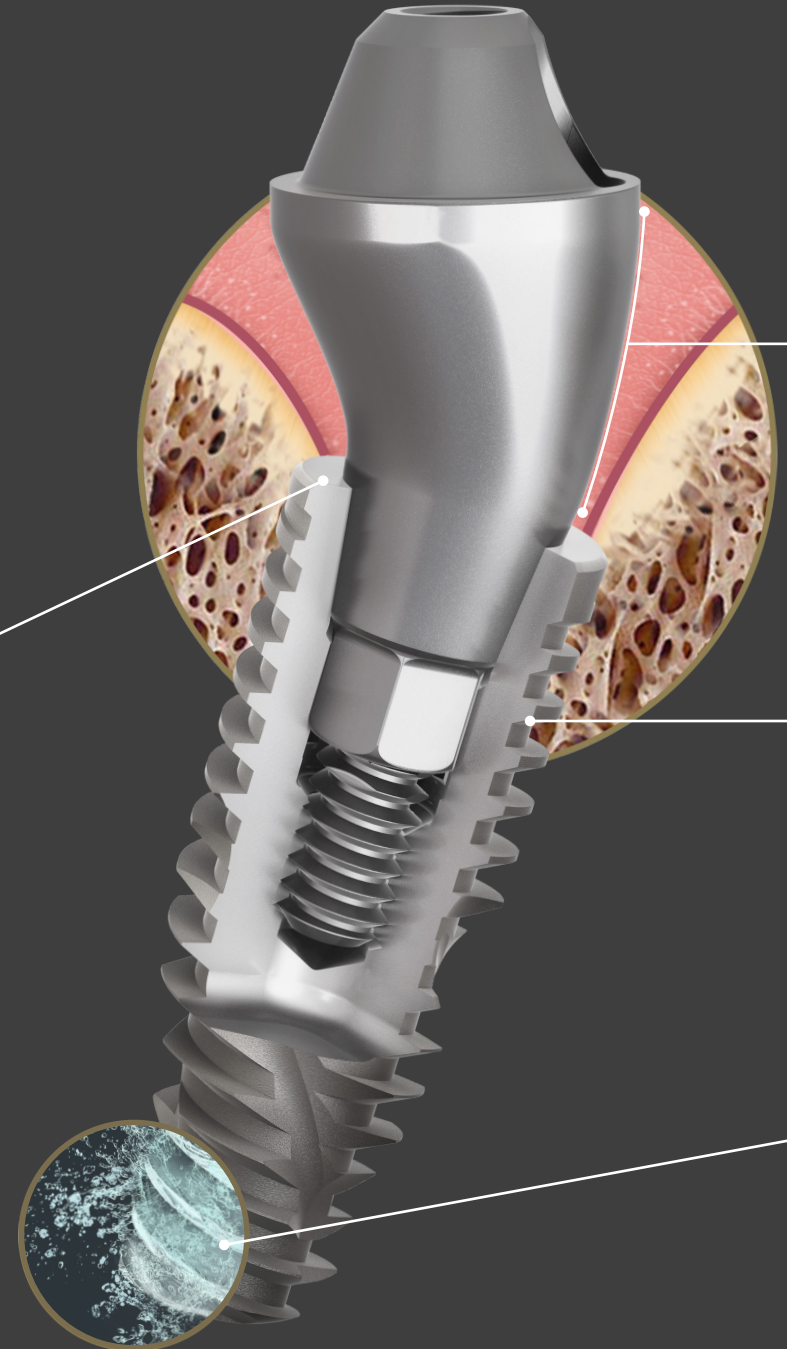
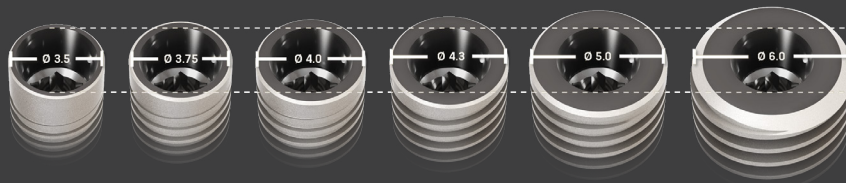
- One connection regardless of the diameters.
- Unique connection combining platform switching associated with a deep 16° Morse taper including an internal indexation.

THE NEXT LEVEL OF IMMEDIATE FIXED FULL-ARCH

The NeoArch® Grand Morse® combines Neodent's® technologies designed to enhance immediate full-arch rehabilitation. The Grand Morse® stability, the Helix® versatility, the Acqua surface predictability, and optimized Mini Conical abutment shape all combined, maximize NeoArch® efficiency: one implant, one connection, one abutment.

Grand Morse® connection:
a stable and strong foundation designed for long term success.

- One prosthetic connection for all Grand Morse® Implants: ease of use.
- 16° Morse Taper connection: designed to ensure a tight fit for an optimal connection seal.
- Platform switching morse taper connection: fulfils the platform switching concept
- Deep Morse taper connection: designed for optimal load distribution.
- Internal Indexation: precise abutment positioning, protection against rotation and easy handling.



SURGICAL

Angled Mini Conical Abutment: immediate natural-looking esthetics.

- Optimized emergence profile: reducing the need of bone profiling.
- Several gingival height options: adapting to tissues availability.
- Optimal angulation of 17° and 30°: fitting to patient anatomy.
- Short core, wide angle: maximizing passive fit and angulation compensation.

Grand Morse® Helix®: unbeatable versatility.

- Fully tapered body design: allows for under prepping of the osteotomy.
- Hybrid contour: enabling stability with vertical placement flexibility.
- Dynamic progressive thread design: designed to achieve high primary stability in all bone types.
- Active apex: self-tapping.

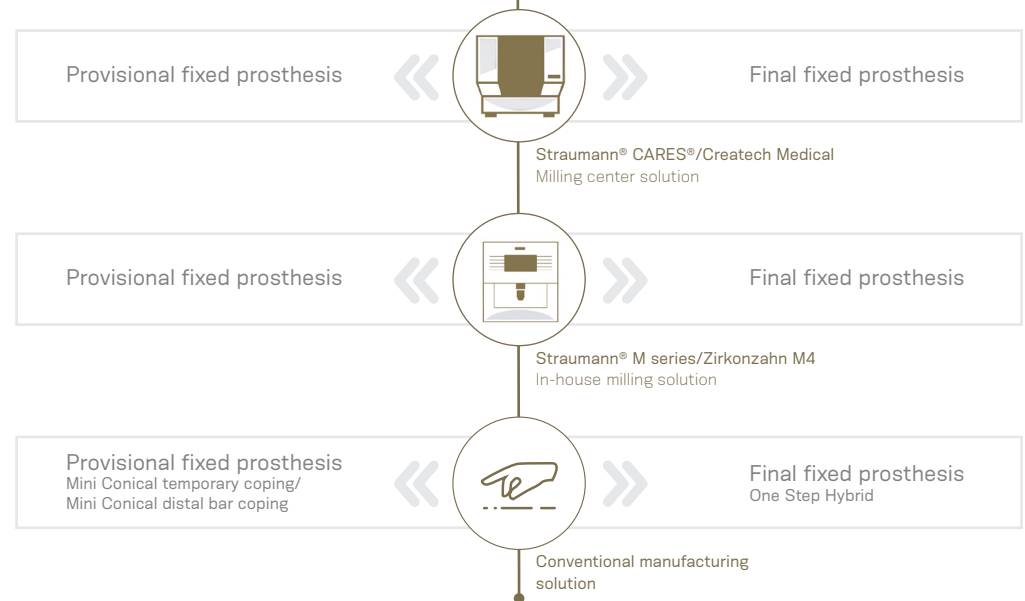
Acqua surface: high treatment predictability.

- Sand-blasted Large grit and Acid etched surface: NeoPoros highly successful surface.
- Hydrophilic surface: immediate greater surface accessibility ⁽⁴⁾.

PROSTHETIC

Comprehensive restorative solutions: meet all patient expectations.

Meet patient stability and comfort expectations thanks to comprehensive custom made milled frameworks for provisional or final restoration at the abutment level using a broad range of material and any workflows.



CLINICALLY PROVEN BY DENTISTS AROUND THE WORLD

High surgical and restorative predictability.

A retrospective cases analysis demonstrated the high predictability of the Neodent® Grand Morse® implant system by achieving high survival rate of 99.2% from 308 GM implants placed with a follow up of 18 months in all indications: from single to edentulous. 61 (28 in upper jaw and 33 in lower jaw) NeoArch® has performed and achieved a success rate of 100%.



ILAPEO university retrospective study, data on file



Dr. Joe Bhat

GBDS FDS RCS MClinDent MRD RCSEd, Hon. Visiting Professor; Specialist in Prosthodontics and Oral Surgery Joe is currently an Hon. Visiting Professor at MM University, India. His clinical time is spent as a private referral practitioner at the Moor Park Specialist Dental Centre. He has also been a Clinical Lecturer for the Master of Clinical Dentistry program at the prestigious Eastman Dental Institute. He is currently a Fellow of the International Team for Implantology (ITI), Fellow of the International College of Dentists (ICD) and Examiner for the Royal College of Surgeons, Edinburgh for the Diploma in Implant Dentistry.

"The company and the team from the industry makes one of the most important criteria's in implant selection. The support and the product knowledge from the industry is critical in good clinical management of a patient. The second most important feature is the ease of use: simple surgical steps and predictable restoration protocols. The new Neodent® GM implant system has revolutionized my full arch rehabilitation case management. This implant system has excellent history, very high primary stability and very simple prosthetic portfolio that is easy to understand and execute. It makes it more affordable for the patient and therefore avoids the need for undertaking more aggressive treatment plans like bridge preparations that makes the long-term prognosis of their dentition far more predictable."



Dr. Luis Eduardo Marques Padovan

Master and Doctor of Surgery and Maxillofacial Universidade Estadual Paulista UNESP – ARAÇATUBA; Prof Associate Fellow of the AMERICAN ACADEMY OF IMPLANT DENTISTRY – AAID; Professor of Postgraduate Course Doctor – Master in Implantology of the Latin American Institute of Research and Dental Education – ILAPEO – Curitiba – PR.

"The full-arch rehabilitation is a challenge in dental practice, and requires from the professional a properly planning phase. The indication of osseointegrated implants for this type of treatment requires solutions that offer reliability, simplicity and precision in the results, restoring function and esthetic in a predictable way for the patient. With the advances in implant systems, such as Neodent® Grand Morse® connections and the improved surfaces, we are able to indicate the fixed full-arch solution on 4 implants using the immediate loading technique, providing immediacy in the treatment and a major confidence for the patients to smile."



Dra. Arantza Rodríguez

Graduated in Dentistry. European University (Madrid) Oral Surgery and Implanto-Prosthetic specialist. CSI CEU Professor Master in Oral Surgery and Implanto-Prosthetic. URIC 2007 – 2016 Speaker at courses, presentations and workshops regarding restorative dentistry and implantology in several national and international congresses.

"NeoArch® is, as part of a surgical-prosthetic team, the full-arch perfect solution for patients with huge bone lost, improving all the benefits for the surgeon, getting primary stability implant design with the best micro surface and an easy surgical protocol, avoiding surgical invasive procedures as sinus lift surgeries. As clinician and knowing the benefits of this kind of protocols we must be trained to be able to approach them with guarantee and predictability, since protocols from the past have no place from the biological point of view and are less and less accepted by our patients."



Dr. José Vallejo

Graduated in Dentistry. Complutense University (Madrid). Implanto-Prosthetic specialist. Complutense University (Madrid). Master in Oral Surgery, Implantology and Temporomandibular Joint (TMJ). Jiménez Díaz Foundation. Speaker at courses, presentations and workshops regarding restorative dentistry and implantology in several national and international congresses. Author and co-author in several articles in scientific journals.

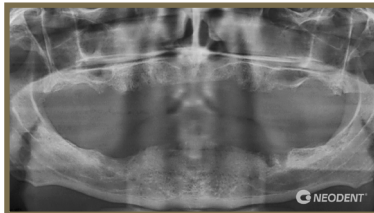
"The most important characteristic we look for implant system is inside this definition: it has to behave as a real system, covering all surgical and prosthetic needs. These advantages are improved on specific patients, who need full-arch rehabilitation, associated with a big bone resorption. Enhanced protocols, as the NeoArch®, prove an easy solution in this kind of patients with a huge success rate during more than 30 years, and increasing the results with the addition with specific implants and specific drilling protocols designed for immediate loading with subcrestal placement, and optimized with cone morse connection, allowing immediate loading esthetic and functional results associated to morse-taper precision fit, with no micromovements and no biological microfiltration."

CLINICAL CASE

Grand Morse® Lower Jaw NeoArch®.



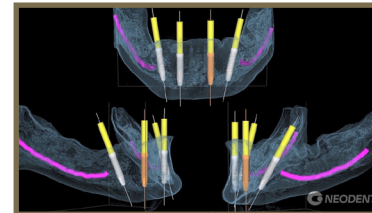
1. Image, before teeth extraction.



2. 3-4 months after teeth extractions and immediate denture.



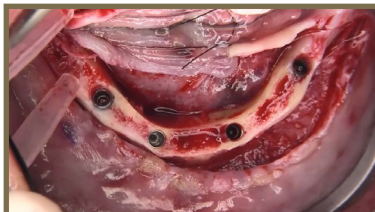
3. Initial view of the lower jaw.



4. Tomography analysis and implant planning.



5. Angle measurer of 17° after drill 2.0 checking the final abutment positioning.



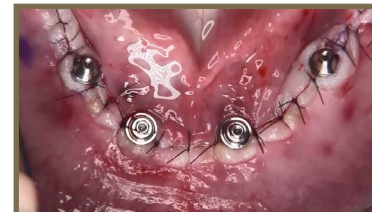
10. Implants placed.



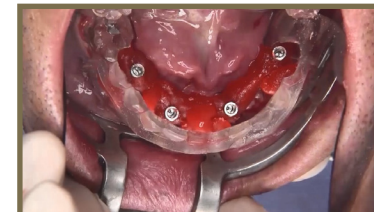
11. Checking final 17° angled implant positioning according to the antagonist arch.



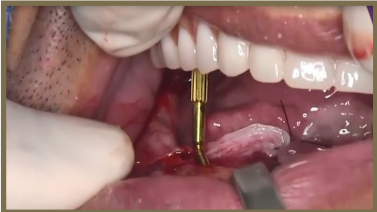
12. Checking final 30° angled implant positioning according to the antagonist arch.



13. Abutments in position and flap sutured.



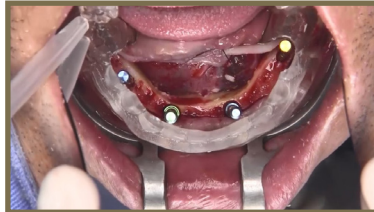
14. Splinting open tray impression copings over mini conical abutment with multifunctional guide.



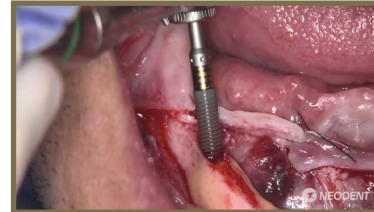
6. Angle measurer of 30° after drill 2.0 checking the final abutment positioning.



7. Checking the implant positioning for posterior prosthesis with direction indicators and angle measurers.



8. Preview of the final implants positioning with multifunctional guide.



9. Posterior tilted implant placement.



15. Final tomography right after the surgery.

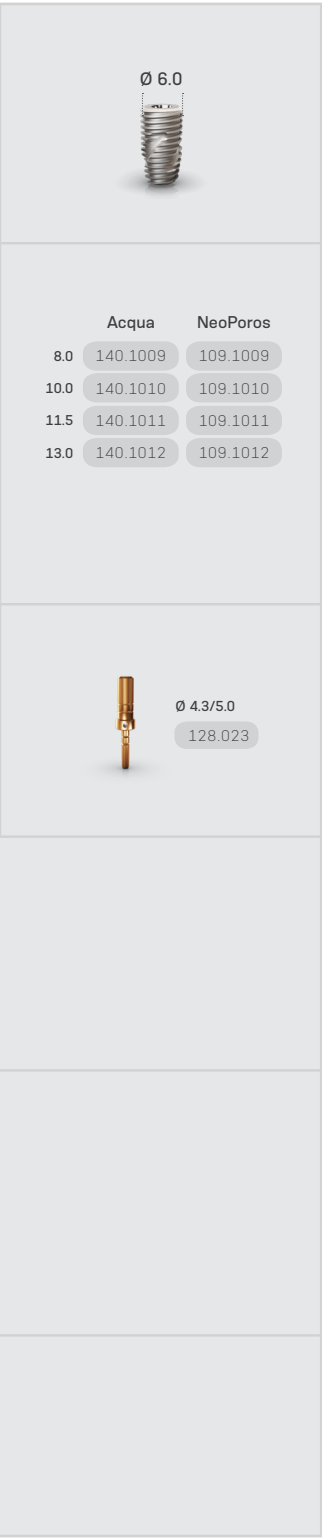


16. Clinical view of the prosthesis rehabilitation.



17. Final panoramic image with the bar positioned on Neodent® abutments.

Clinical Case
by Dr. Geninho Thomé.



PROSTHETIC

Angle Measurer	<div>17°</div> <div>128.032</div>		<div></div>	<div>30°</div> <div>128.033</div>	
Abutment Selection	<div>GM Mini Conical Abutment</div> <div><div>GH 0.8 mm</div><div>115.243</div></div> <div><div>1.5 mm</div><div>115.244</div></div> <div><div>2.5 mm</div><div>115.245</div></div> <div><div>3.5 mm</div><div>115.246</div></div> <div><div>4.5 mm</div><div>115.247</div></div> <div><div>5.5 mm</div><div>115.248</div></div> <div>Hexagonal Prosthetic Driver 32 N.cm</div>		<div>GM Exact Mini Conical Abutment 17°/30°</div> <div><div>GH 1.5mm</div><div>17°</div><div>115.249</div></div> <div><div>2.5mm</div><div>115.250</div></div> <div><div>3.5mm</div><div>115.251</div></div> <div><div>30°</div><div>115.252</div><div>115.253</div><div>115.254</div></div> <div>Neo Screwdriver Torque Connection 20 N.cm</div>		
Impression	<div></div> <div>Slim Mini Conical Abutment Open Tray Impression Coping</div> <div>108.176</div>				
Model Production	<div></div> <div>Mini Conical Abutment Analog</div> <div>101.020</div> <div>Conventional</div> <div>101.092</div> <div>Hybrid Repositionable (conventional/digital)</div>				
Provisional	<div></div> <div>Neo Mini Conical Abutment Titanium Coping</div> <div>118.302</div> <div>Neo Screwdriver Torque Connection 10 N.cm</div>	<div></div> <div>Neo Mini Conical Abutment Protection Cylinder</div> <div>106.220</div>	<div></div> <div>Neo Distal Bar</div> <div>GM Mini Conical Abutment</div> <div>125.116</div>	<div></div> <div>Neo Mini Conical Abutment for Distal Bar Coping</div> <div>GM Mini Conical Abutment</div> <div>118.308</div> <div>Neo Screwdriver Torque Connection 10 N.cm</div>	
Final Coping	<div>Conventional</div> <div>Neo Mini Conical Abutment Copings</div> <div><div>Burn-Out</div><div>118.301</div></div> <div><div>CoCr</div><div>118.303</div></div> <div>Neo Screwdriver Torque Connection 10 N.cm</div>		<div>Neo Mini Conical Abutments One Step Hybrid Copings</div> <div><div>Burn-out</div><div>118.340</div></div> <div><div>Brass</div><div>118.331</div></div>		<div>Digital</div> <div>Digital One Step Hybrid Coping</div> <div><div>Titanium</div><div>118.330</div></div>
Screws	<div>Neo Micro Abutment Coping Screw</div> <div><div>Neotorque</div><div>116.270</div></div> <div><div>Titane</div><div>116.269</div></div>		<div>Micro Abutment Polishing Protector</div> <div><div>For Bridge</div><div>123.015</div></div>	<div>Neo Working Screw One Step Hybrid</div> <div><div>116.271</div></div>	
Drivers	<div>Neo Screwdriver Torque Connection</div> <div>Contra-angle</div> <div><div>105.146**</div></div> <div>Extra Short</div> <div><div>105.135</div></div> <div>Short</div> <div><div>105.136*</div></div> <div>Medium</div>		<div>Torque Wrench</div> <div><div>105.133</div></div> <div>Short</div> <div><div>105.132</div></div> <div>Medium</div> <div><div>105.134*</div></div> <div>Long</div>	<div>Hexagonal Prosthetic Driver</div> <div><div>105.138</div></div> <div>Contra-angle</div> <div><div>105.137</div></div> <div>Torque Wrench</div>	

*Recommended for Impression Copings and Abutment Copings for Closed-Tray and Open-Tray Impression Copings for implants or abutments; Cover Screws and Healing Abutments.

[1] Babbush CA. Post treatment quantification of patient experiences with full-arch implant treatment using a modification of the OHIP-14 questionnaire. J Oral Implantol. 2012 Jun;38(3):251-60.

[2] Block MS, Haggerty CJ, Fisher GR. Nongrafting implant options for restoration of the edentulous maxilla. J Oral Maxillofac Surg 2009;67:872-881.

[3] Steigenga J, Al-Shammari K, Misch C, Nociti FH Jr, Wang HL. Effects of implant thread geometry on percentage of osseointegration and resistance to reverse torque in the tibia of rabbits. J Periodontol. 2004;75(9):1233-41.

[4] Sartoretto SC, Alves ATNN, Zarranz L, Jorge MZ, Granjeiro JM, Calasans-Maia MD. Hydrophilic surface of Ti6Al4V-ELI alloy improves the early bone apposition of sheep tibia. Clin Oral Implants Res. 2017;28(8):893901.

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