



A SMILE FOR EVERYONE.

NEODENT® NEOARCH®
IMMEDIATE FIXED FULL-ARCH
SOLUTION.



NEODENT®
A Straumann Group Brand

GM Grand Morse™
Connection

Helix™
Implant

acqua
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 in over 40 countries.



25 years of history

More than two decades focused on enabling implant dentistry.



Clinical trust: 45K+ dentists

One of the largest networks 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 represents 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. This type of system allows for improved patient satisfaction and quality of life by immediately restoring function and esthetics according to survey results ⁽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-looking 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.

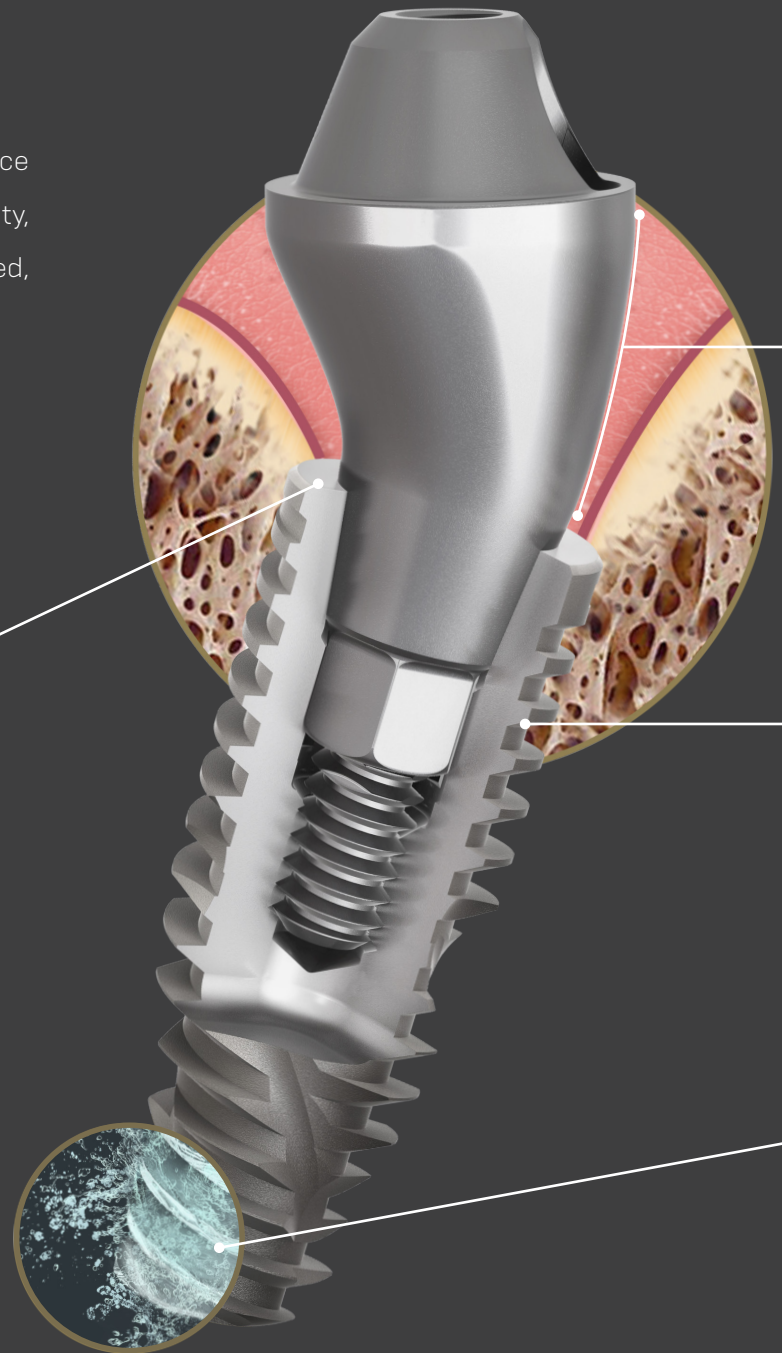
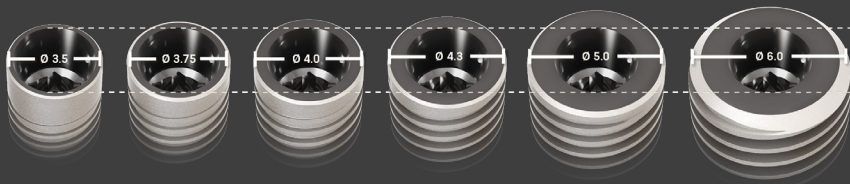
- One connection regardless of the diameters.
- Unique connection combining platform switching associated with a deep 16° Morse taper including an internal indexation.

THE NEXT LEVEL OF IMMEDIATE FIXED FULL-ARCH

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

Mini Conical Abutment: immediate natural-looking esthetics.

- Optimized emergence profile: reducing the need of bone profiling.
- Several gingival height options: adapting to tissue 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.

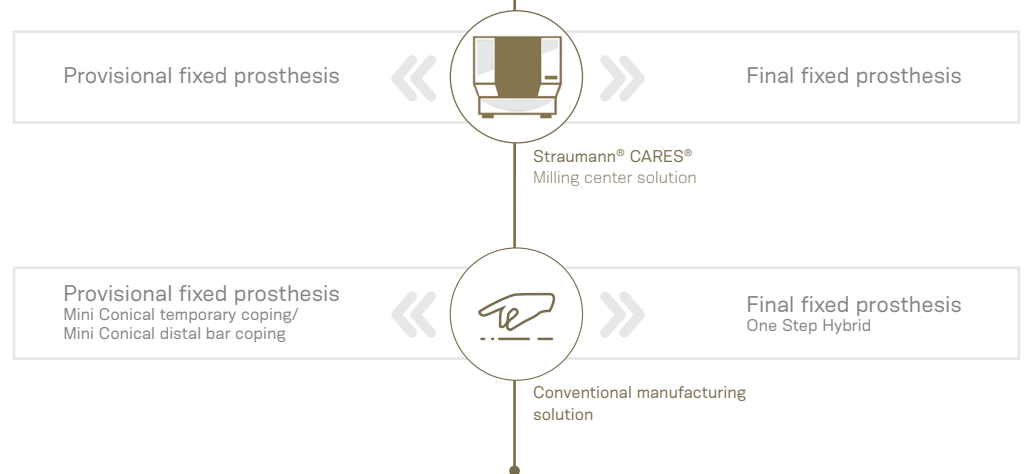
Acqua surface: high treatment predictability.

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

PROSTHETIC

Comprehensive restorative solutions: designed to meet patient's expectations.

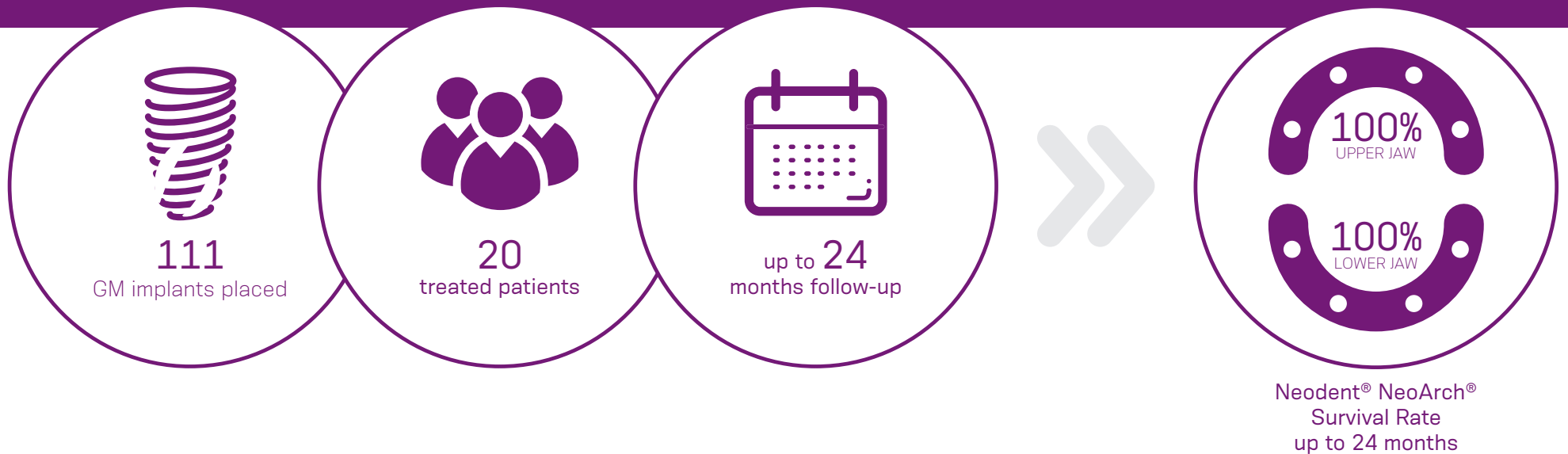
Meet patient stability and comfort expectations thanks to comprehensive customized milled frameworks for provisional or final restoration at the abutment level using a broad range of material and workflows.



CLINICALLY PROVEN BY DENTISTS AROUND THE WORLD

High surgical and restorative predictability.

A prospective case analysis demonstrated the high predictability of the Neodent® Grand Morse® implant system; from 111 GM implants (37 in upper jaw and 74 in lower jaw) placed with a follow up of up to 24 months, NeoArch® has performed and achieved a success rate of 100%.





CLINICAL CASE

Grand Morse™ Lower Jaw Neodent® NeoArch®.



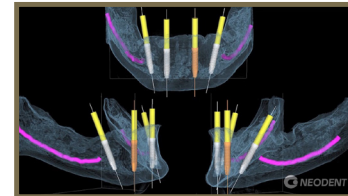
1. Image, before teeth extraction.



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



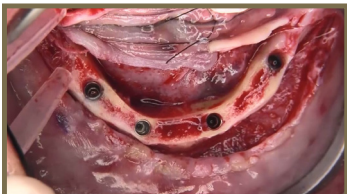
3. Initial view of the lower jaw.



4. Tomography analysis and implant planning.



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



10. Implants placed.



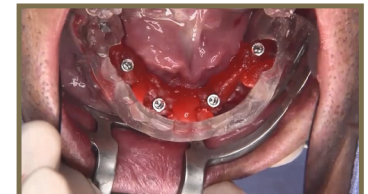
11. Checking final 17° angled implant positioning according to the antagonist arch.



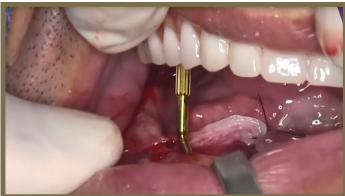
12. Checking final 30° angled implant positioning according to the antagonist arch.



13. Abutments in position and flap sutured.



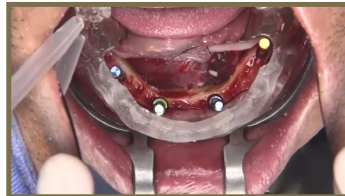
14. Splinting open tray impression copings over mini conical abutment with multifunctional guide.



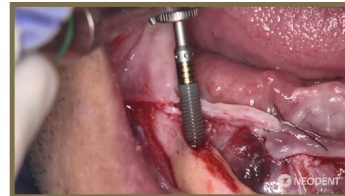
6. Angle measurer of 30° after drill 2.0 checking the final abutment positioning.



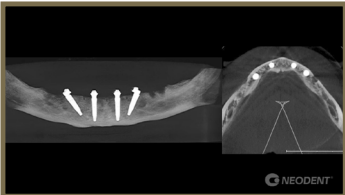
7. Checking the implant positioning for posterior prosthesis with direction indicators and angle measurers.



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



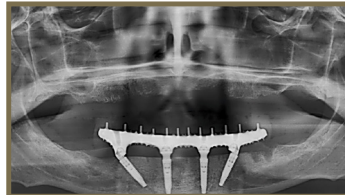
9. Posterior tilted implant placement.



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.

SURGICAL

Helix™ Implants	 <p>Ø 3.5</p>	 <p>Ø 3.75</p>	 <p>Ø 4.0</p>	 <p>Ø 4.3</p>	 <p>Ø 5.0</p>
Surface	<p>Acqua</p> <p>8.0 140.943</p> <p>10.0 140.944</p> <p>11.5 140.945</p> <p>13.0 140.946</p> <p>16.0 140.947</p> <p>18.0 140.988</p>	<p>Acqua</p> <p>8.0 140.976</p> <p>10.0 140.977</p> <p>11.5 140.978</p> <p>13.0 140.979</p> <p>16.0 140.980</p> <p>18.0 140.981</p>	<p>Acqua</p> <p>8.0 140.982</p> <p>10.0 140.983</p> <p>11.5 140.984</p> <p>13.0 140.985</p> <p>16.0 140.986</p> <p>18.0 140.987</p>	<p>Acqua</p> <p>8.0 140.948</p> <p>10.0 140.949</p> <p>11.5 140.950</p> <p>13.0 140.951</p> <p>16.0 140.952</p> <p>18.0 140.989</p>	<p>Acqua</p> <p>8.0 140.953</p> <p>10.0 140.954</p> <p>11.5 140.955</p> <p>13.0 140.956</p> <p>16.0 140.957</p> <p>18.0 140.990</p>
Direction Indicator	 <p>Ø 2.8/3.5 128.019</p>	 <p>Ø 3/3.75 128.020</p>	 <p>Ø 3.3/4.0 128.021</p>	 <p>Ø 3.6/4.3 128.022</p>	 <p>Ø 4.3/5.0 128.023</p>
Angle Measurer for Drill 2.0	 <p>17° 128.030</p> <p>30° 128.031</p>				
Drivers and Torque Wrench	 <p>GM Implant Driver Contra-angle 105.131</p>		 <p>GM Implant Driver Torque Wrench</p> <p>105.129 Short 105.130 Long</p>		 <p>Torque Wrench 104.050</p>
Bone Profile	 <p>103.424</p>				

Ø 6.0



Acqua

- 8.0 140.1009
- 10.0 140.1010
- 11.5 140.1011
- 13.0 140.1012



Ø 4.3/5.0
128.023

PROSTHETIC

Angle Measurer

17°
128.032



30°
128.033

Abutment Selection



GM Mini Conical Abutment

- GH 0.8 mm 115.243
- 1.5 mm 115.244
- 2.5 mm 115.245
- 3.5 mm 115.246
- 4.5 mm 115.247
- 5.5 mm 115.248

Hexagonal Prosthetic Driver | 32 N.cm



GM Exact Mini Conical Abutment 17°/30°

- GH 1.5mm 17° 115.249
- 2.5mm 115.250
- 3.5mm 115.251
- 30° 115.252
- 115.253
- 115.254

Neo Screwdriver Torque Connection | 20 N.cm

Impression



Slim Mini Conical Abutment
Open Tray Impression Coping

108.176

Model Production



Mini Conical Abutment Analog

- 101.020 Conventional
- 101.092 Hybrid Repositionable (conventional/digital)

Provisional



Neo Mini Conical Abutment
Titanium Coping

118.302

Neo Screwdriver Torque Connection | 10 N.cm



Neo Mini Conical Abutment
Protection Cylinder

106.220



Neo Distal Bar
GM Mini Conical Abutment

125.116

Neo Mini Conical Abutment
for Distal Bar Coping

GM Mini Conical Abutment

118.308

Neo Screwdriver Torque Connection | 10 N.cm

Final Coping

Conventional

Neo Mini Conical Abutment Copings



Burn-Out
118.301



CoCr
118.303

Neo Mini Conical Abutments
One Step Hybrid Copings



Burn-out
118.340



Brass
118.331

Digital

Digital One Step
Hybrid Coping



Titanium
118.330

Neo Screwdriver Torque Connection | 10 N.cm

Screws

Neo Micro Abutment
Coping Screw



Titanium
116.269

Micro Abutment
Polishing Protector



For Bridge
123.015

Neo Working Screw
One Step Hybrid



116.271

Drivers

Neo Screwdriver Torque Connection

Contra-angle



- 105.146** Extra Short
- 105.135 Short
- 105.136* Medium

Torque Wrench



- 105.133 Short
- 105.132 Medium
- 105.134* Long

Hexagonal Prosthetic Driver



- 105.138 Contra-angle
- 105.137 Torque Wrench



REFERENCES AND PUBLICATIONS

- [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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