

PERFORMANCE, FREEDOM, SIMPLICITY

axiom[®] CONCEPT



Implants range

REG PX 2.8

axiom[®]

**1 GLOBAL CONCEPT,
1 TRULY COMPREHENSIVE RANGE,
3 COMPLEMENTARY OPTIONS**

An ergonomic and exhaustive range
for EVERY clinical indication.



AXIOM[®] REG

→ Designed for most clinical indications and for most practitioners.

AXIOM[®] PX

→ For experienced practitioners, in cases of immediate post-extraction implant placement and low-density bone.

AXIOM[®] 2.8

→ Designed specifically for single restorations of the incisor region in cases presenting a restricted mesiodistal space.

Axiom® concept advantages

CONICAL, STRONG AND HERMETIC CONNECTION

- Morse tapered connection.
- Homogeneous distribution of mechanical stresses.
- No micro-movements: no bacterial infiltration.
- Preservation of alveolar bone.
- Subcrestal positioning and aesthetic management.

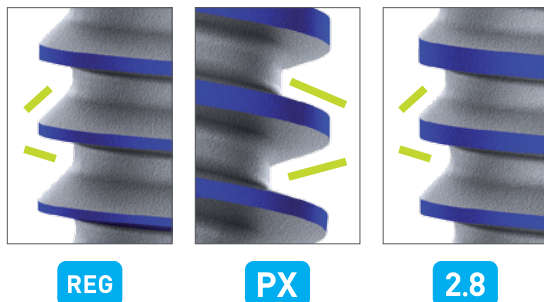


SAND-BLASTED NECK

- Optimized bone anchorage.
- Preservation of cortical bone.
- Optimized biomechanical behaviour.
- Osseo-conductive neck entirely sand-blasted, including the platform neck.

EFFICIENT BONE STIMULATION

- Optimal utilization of actual surface threading.
- Stress concentration reduced at tip thread.
- Optimal conversion of occlusal loads onto compressive forces which stimulate bone.



« PLATFORM-SWITCHING »

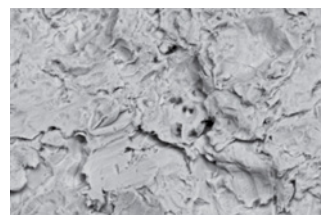
- Preservation of the biological space.
- Gingival management, mucous « O'ring ».
- Stabilization of epithelium.
- Stabilization of bone.



BCP® OSTEOCONDUCTIVE SURFACE (BIPHASIC CALCIUM PHOSPHATE)

BCP® grit-blasted surfaces

- Biocompatibility guarantees fast and effective osseointegration with no contamination of the adjacent tissue.
- Optimal surface roughness: enhancement of cell attachment promotes implant stability and ensures rapid osseointegration.
- Successful osseointegration is achieved in 97,6% of the cases after one year clinical follow-up study*.



Anthogyr BCP® implants surface SEM microscopic observation

x 1000

GRADE V MEDICAL TITANIUM

(CE 0459, ISO 5832-3, FDA APPROVED, ASTM B34808)

- Higher mechanical strength than Grade IV titanium, and reduced risk of breakage (860 MPa vs 550 MPa)**.
- Less invasive: smaller diameter implant used in the same site***.
- Proven biocompatibility.

* Source: Internal data - Axiom® Concept - Axiom® REG/PX/2.8 Radiographic evaluation at 1-year follow-up. Table 4, page 10.

** ISO 5832-2 standard « Implants for surgery - Metallic materials » - part 2, ISO 5832-3 standard « Implants for surgery - Metallic materials » - part 3.

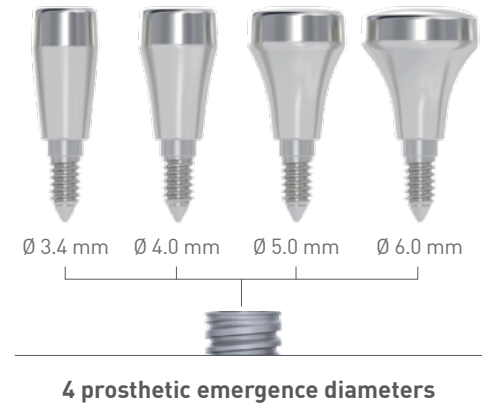
*** Data and useful recommendations.

axiom[®] REG PX, 1 concept for even

1

COMMON RANGE OF DENTAL RESTORATIONS FOR BOTH AXIOM[®] REG AND PX IMPLANTS

1. Wide choice of emergence profiles



2. Constant emergence profile



Constant emergence profile from healing screw to final abutment:

→ No undue tension on soft tissue.

3. Wide selection of prosthetic solutions

→ Cement-retained, screw-retained, single-unit and multiple-unit restorations, and full-arch restorations.

→ Stabilization of complete denture.



STERILE components for immediate, definitive placement:

→ Preservation of periodontal attachment.

→ Preservation of biological width.

→ Minimal disturbance of soft tissue.

more freedom!

1 SINGLE SURGICAL KIT FOR AXIOM® REG AND PX IMPLANTS

- **Common instrumentation:** simple and user-friendly.
- Simple drilling protocol: specific to each Axiom® REG and Axiom® PX implant.
- High intraoperative flexibility: the implant is chosen according to the clinical situation.
- Kit also available for guided surgery with **Anthogyr Guiding System**.
- Compact, ergonomic kit.

NEW !*



1 COMMON CONNECTION FOR AXIOM® REG AND PX IMPLANTS

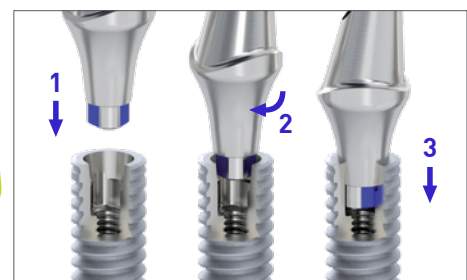
Intuitive conical connection thanks to a tri-lobe indexation:

- Accurate, controlled abutment placement.
- Strong, stable connection even at high torque values.

Common connection for all implant diameters:

- Whatever the prosthetic component chosen.
- The prosthetic diameter is chosen independently from the implant diameter.
- Less restrictions, more flexibility!

UNIQUE !
CONNEXION
axiom® REG PX



SIMEDA®, YOUR CAD-CAM SOLUTION FOR CUSTOMIZED DENTAL RESTORATIONS

- Implant and tooth-supported restorations.
- A large selection of materials: titanium, cobalt chromium, Sina Z and Sina T zirconia proprietary technologies, IPS e.max® CAD*, PMMA and PEEK.

*IPS e.max® CAD est une marque déposée d'Ivoclar Vivadent.



simeda®
customized
& digital
solutions

axiom[®] REG

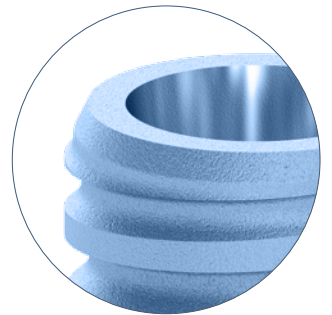
Simply performing!

Designed for most clinical indications and most practitioners, whether beginners or experts.



CONICAL CONNECTION

→ Sealed morse connection with a 6° half angle.



STRAIGHT THREADED NECK

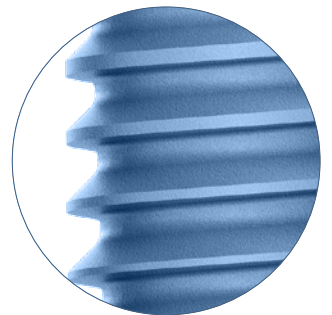
→ Optimized anchorage.

→ Retentive neck with bone compaction effect.

CYLINDRICAL-CONICAL SHAPE

→ Implant with controlled and guided insertion.

→ Simple and intuitive drilling protocol.

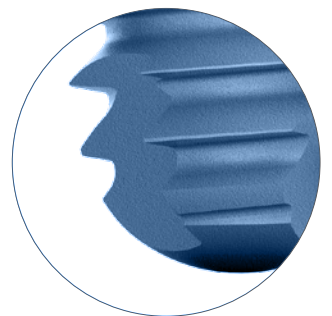


PROGRESSIVE ASYMMETRICAL THREADING

→ Self-tapping.

→ Gradual bone compaction is achieved during threading.

→ Excellent initial stability.



ATRAUMATIC APEX

→ Well suited for sinus lift procedures.

→ Apical thread design fits any type of bone.









A. IMPLANTS AVAILABLE FOR EVERY SITUATION

SHORT IMPLANTS (6.5 MM OR 8.0 MM):

→ For placement in anterior and posterior regions with limited bone height.

LONG IMPLANTS (16 MM OR 18 MM) FOR 3.4 AND 4.0 MM DIAMETERS:

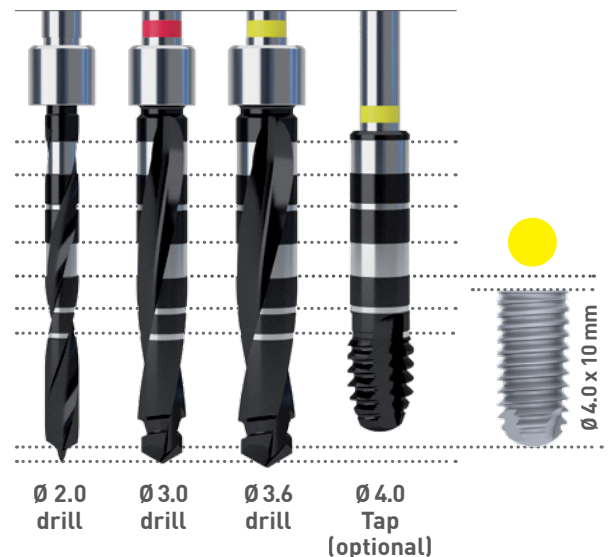
→ Prostheses are fixed onto a small number and angled implants placed in the posterior region to obtain optimal anchorage.

Ø 3.4 mm	Ø 4.0 mm	Ø 4.6 mm	Ø 5.2 mm
 (1)	 (1)	 (1)	 (1)
			
8 mm 10 mm 12 mm 14 mm 16 mm 18 mm	6.5 mm 8 mm 10 mm 12 mm 14 mm 16 mm 18 mm	6.5 mm 8 mm 10 mm 12 mm 14 mm	6.5 mm 8 mm 10 mm 12 mm 14 mm

(1) ID color codes repeated on instruments and labels.

B. A SIMPLE DRILLING PROTOCOL

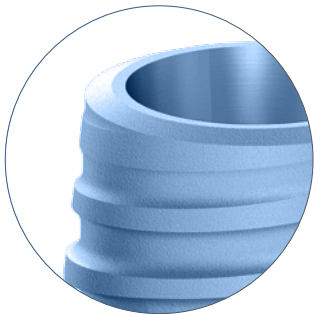
- **Any type of bone.**
- Simple, logical drilling sequence, **same color code for implant and drill.**
- Step drills for centered drilling.
- Tapping is recommended in D1 bone type.
- Depth gauges available: 1 per drill diameter.
- Easy to grip, no need for an implant holder: less handling!
- Reference markings: for proper orientation of the tri-lobe feature and vertical positioning of the implant.
- **Subcrestal positioning of the implant** for an aesthetic result.



axiom[®] PX

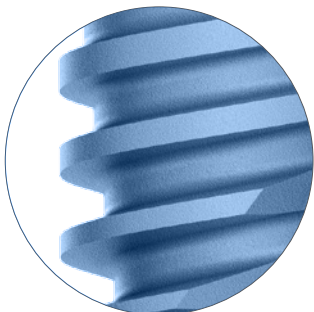
Promise of eXpertise

In cases of immediate postextraction implant placement, and insertion in low-density bone. Intended for experienced practitioners. Optimal primary anchorage.



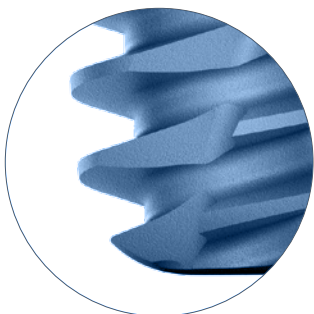
CONICAL CONNECTION

→ Sealed morse connection with a 6° half angle.



REVERSE CONICAL NECK

→ Preservation of cortical bone.
→ Promotes alveolar bone remodeling.



CONICAL SHAPE

→ Gradual bone condensing effect.
→ Enhanced initial stability in low-density bone.
→ Protocol designed for sub-drilling procedure.

DEEP, SHARP THREADS

→ Self-drilling, self-tapping.

SYMMETRICAL DOUBLE-THREADS

→ Threads with controlled and guided insertion in low-density bone.
→ Easy insertion.

FAST PENETRATION APEX

→ Quick insertion into the bone.
→ Optimal anchorage on the apical portion.


























A. IMPLANTS AVAILABLE FOR EVERY SITUATION

SHORT IMPLANTS (6.5 MM) FOR 4.6 AND 5.2 MM DIAMETERS:

→ For placement in posterior regions with limited bone height and wide alveolars.

IMPLANT LENGTHS UP TO 18 MM FOR 3.4 AND 4.0 MM DIAMETERS:

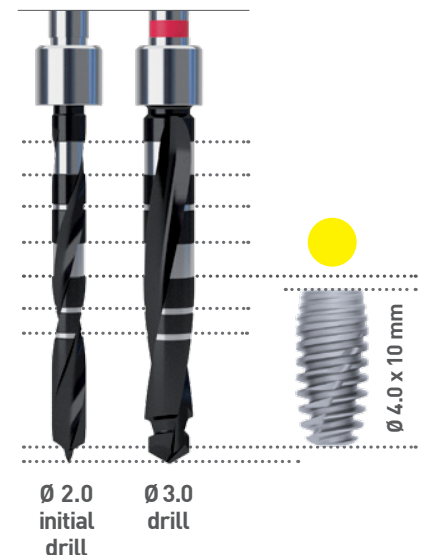
→ Prostheses are fixed onto a small number and angled implants placed in the posterior region to obtain optimal anchorage.

Ø 3.4 mm	Ø 4.0 mm	Ø 4.6 mm	Ø 5.2 mm
 (1)	 (1)	 (1)	 (1)
 8 mm	 8 mm	 8 mm	 8 mm
 10 mm	 10 mm	 10 mm	 10 mm
 12 mm	 12 mm	 12 mm	 12 mm
 14 mm	 14 mm	 14 mm	
 16 mm	 16 mm		
 18 mm	 18 mm		

(1) ID color codes repeated on instruments and labels.

B. SPECIFIC DRILLING PROTOCOL

- Low and medium-density bone.
- **Sub-drilling is recommended.**
- Logical drilling sequence.
- Step drills for centered drilling.
- No tapping.
- Depth gauges available: 1 per drill diameter.
- Easy to grip, no need for an implant holder: less handling!
- Reference markings: for proper orientation of the tri-lobe feature end vertical positioning of the implant.
- **Subcrestal positioning of the implant** for an aesthetic result.

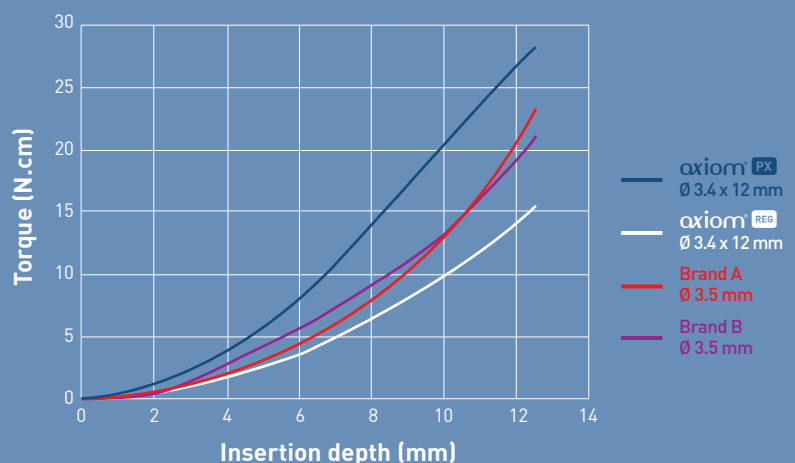


INSERTION TORQUE TESTS

Comparative insertion torque tests were performed. Different implants with proven performance were inserted into a synthetic material with similar properties to low-density bone.

Results showed the superiority of the Axiom® PX implant: the effective insertion torque value was more rapidly reached, and a higher torque was in the low-density material.

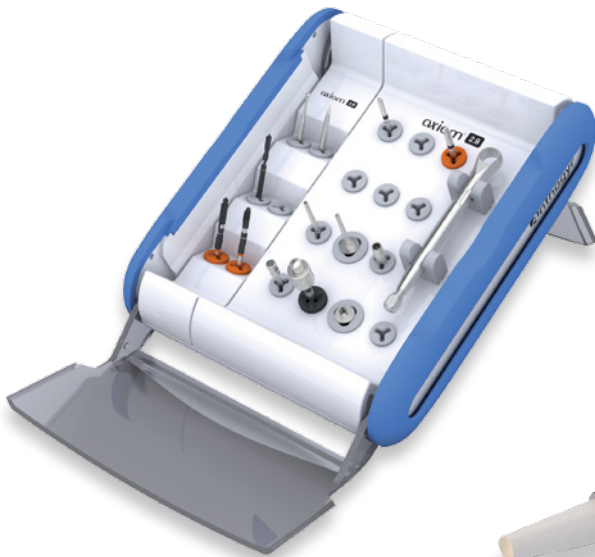
Insertion torque comparison Material with similar properties to low-density bone



axiom[®] 2.8, 1 INNOVATIVE

1 DEDICATED SURGICAL KIT

- Easy, practical and logical layout.
- **Orange color code** for the Axiom[®] 2.8 implant.
- Ergonomic design.



1 FULLY CONTROLLED SOLUTION

- Fully controlled and reproducible impaction using the SafeLock[®] calibrated instrument.
- **No adverse effects for the patient!**
- Can be used at chair side: connects directly to a micromotor.



- Innovative and reliable technique.
- Several tips are available for straight/angled abutments and crowns.

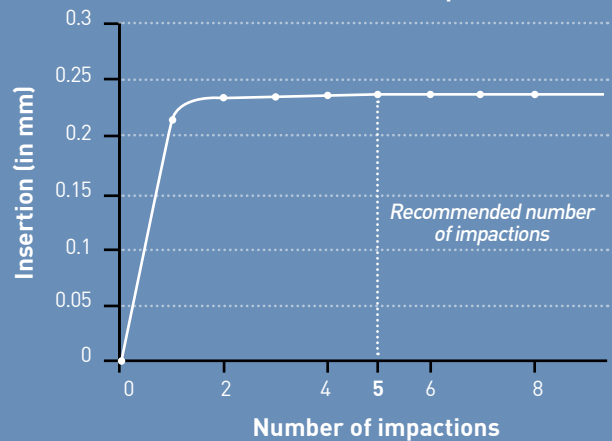


A. A RELIABLE PROCEDURE

5 impactions are necessary and sufficient to guarantee full seating of the abutment.



Vertical positioning of the definitive abutment according to the number of impaction

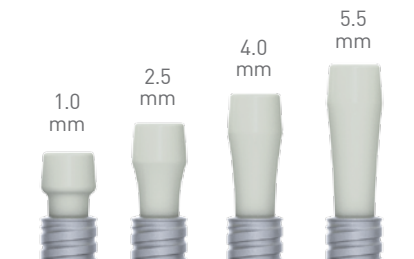


concept!

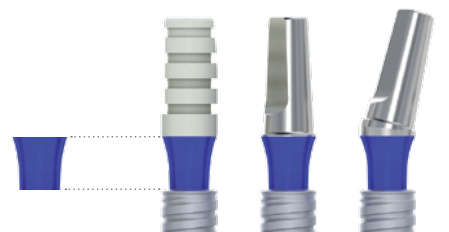
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COMPREHENSIVE PROSTHETIC RANGE

- 4 angulations: 0°, 7°, 15° et 23°.
- The crown can be cemented extra-orally.
- PEEK temporary abutment.
- One-stage or two-stage surgery (using the PEEK cover healing plug).



4 gingival heights



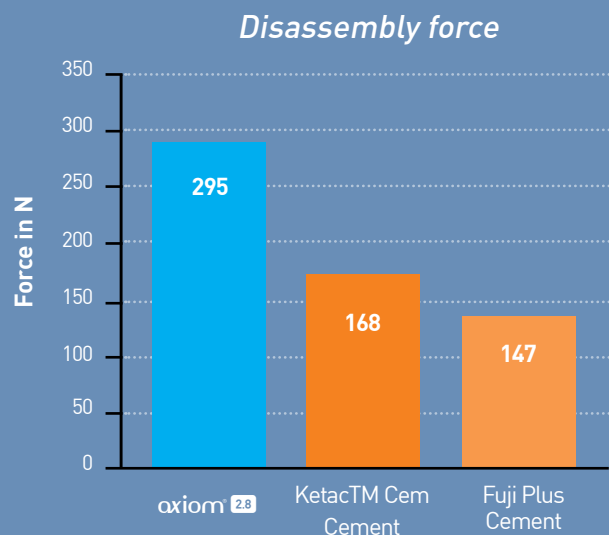
Constant emergence profile from healing plug to final abutment:

- No undue tension on soft tissue.

B. SAFE CALIBRATED IMPACTION

Tests showed that a force of 295 Newton was necessary to disengage the abutment, which guarantees a strong reliable connection for the lifetime of the prosthesis*.

**Cement Selection for Cement-Retained Crown Technique with Dental Implants. James L. Sheets, Charles Wilcox & Terry Wilwerding - Journal of Prosthodontics - Feb. 2008.*



axiom® 2.8

The incisive choice!

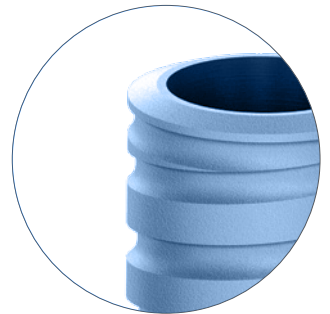
UNIQUE!

Specially designed for use in the incisor region, in cases of restricted mesiodistal space.



CONICAL CONNECTION

→ Tight seal morse tapered connection with a 1.5° half angle.



A TRUE NARROW « TWO-PART » IMPLANT

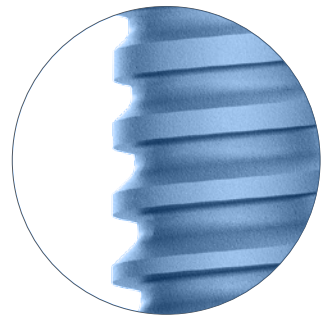
→ Optimal management of the treatment plan and the soft tissue.

→ Preservation of 2,8 diameter even for prosthetic profile.

STRAIGHT THREADED NECK

→ Optimized anchorage.

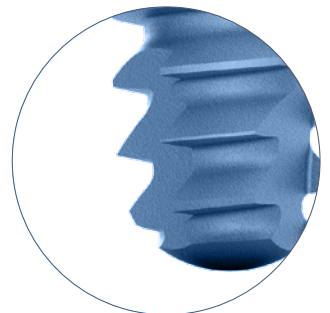
→ Retentive neck with bone compaction effect.



CYLINDRICAL-CONICAL SHAPE

→ Implant with controlled and guided insertion.

→ Atraumatic apex.



PROGRESSIVE ASYMMETRICAL THREADING

→ Self-tapping.

→ Gradual bone compaction is achieved during threading.

→ Excellent initial stability.

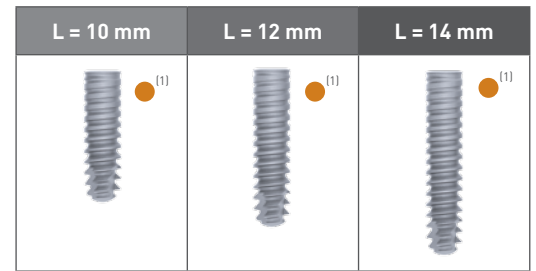
IMPACTED PROSTHESIS

→ Controlled and calibrated impaction using the SafeLock® instrument.

A. THE IDEAL IMPLANT FOR THE AESTHETIC SECTOR

The Axiom® 2.8 implant has a very high strength despite its narrowness. It has been specially designed for replacement of narrow incisor teeth, particularly in patients with dental agenesis. Its design and its diameter allow placement in thin ridges.

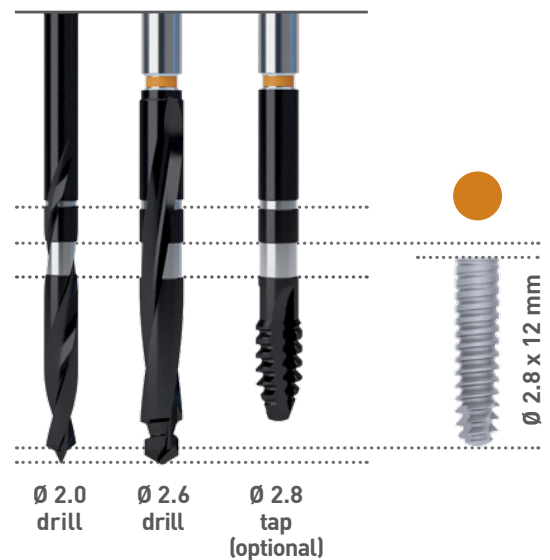
3 lengths are available: 10, 12 and 14 mm.



(1) ID color codes repeated on instruments and labels.

B. UN PROTOCOLE DE FORAGE SIMPLE

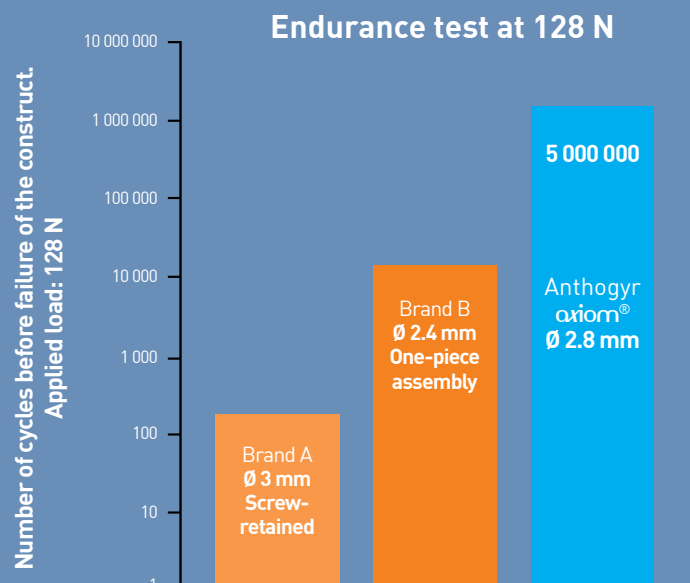
- Any type of bone.
- Only 2 drills!
- Step drills for centered drilling.
- Tapping is recommended in D1 bone type.
- Depth gauges available: 1 per drill diameter.
- Easy to grip, no need for an implant holder: less handling!
- **Subcrestal positioning of the implant** for an aesthetic result.



C. PROVEN STRENGTH

The mechanical strength of several implant-abutment assemblies has been tested in accordance with ISO 14801 and FDA recommendations.

The Axiom® 2.8 system showed a capacity to withstand the chewing efforts in the incisor region.



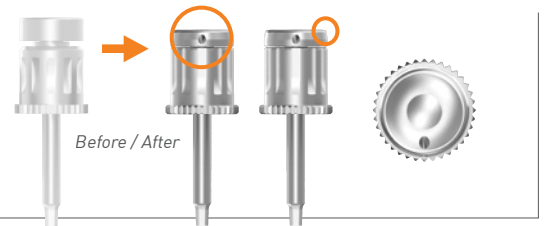
axiom[®] concept for a straight

- Compact, ergonomic surgical kits.
- Tilt tray.

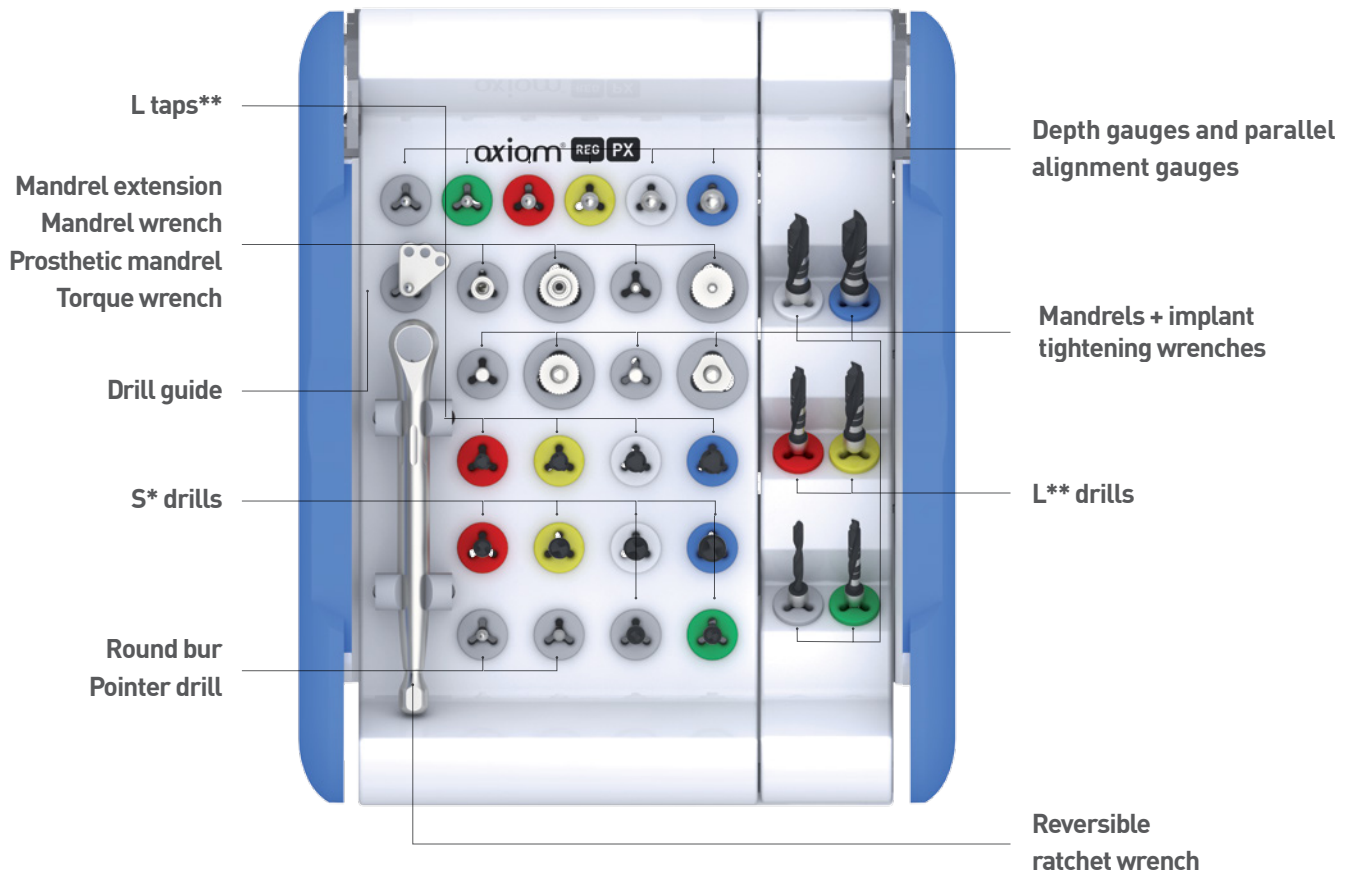


A. AXIOM[®] REG AND AXIOM[®] PX IMPLANTS: COMMON SURGICAL KIT

- Common instrumentation for Axiom[®] REG and Axiom[®] PX implants.
- Drilling protocol: specific to each implant.
- Set of drill stops.
- Kit also available for guided surgery with **Anthogyr Guiding System**.



ANTHOGYR MANUAL SURGICAL WRENCHES



forward procedure

- Intuitive reading of protocols.
- ID color code for each implant diameter.



B. AXIOM® 2.8, DEDICATED SURGICAL KIT

THREADED GRIPPER WRENCH

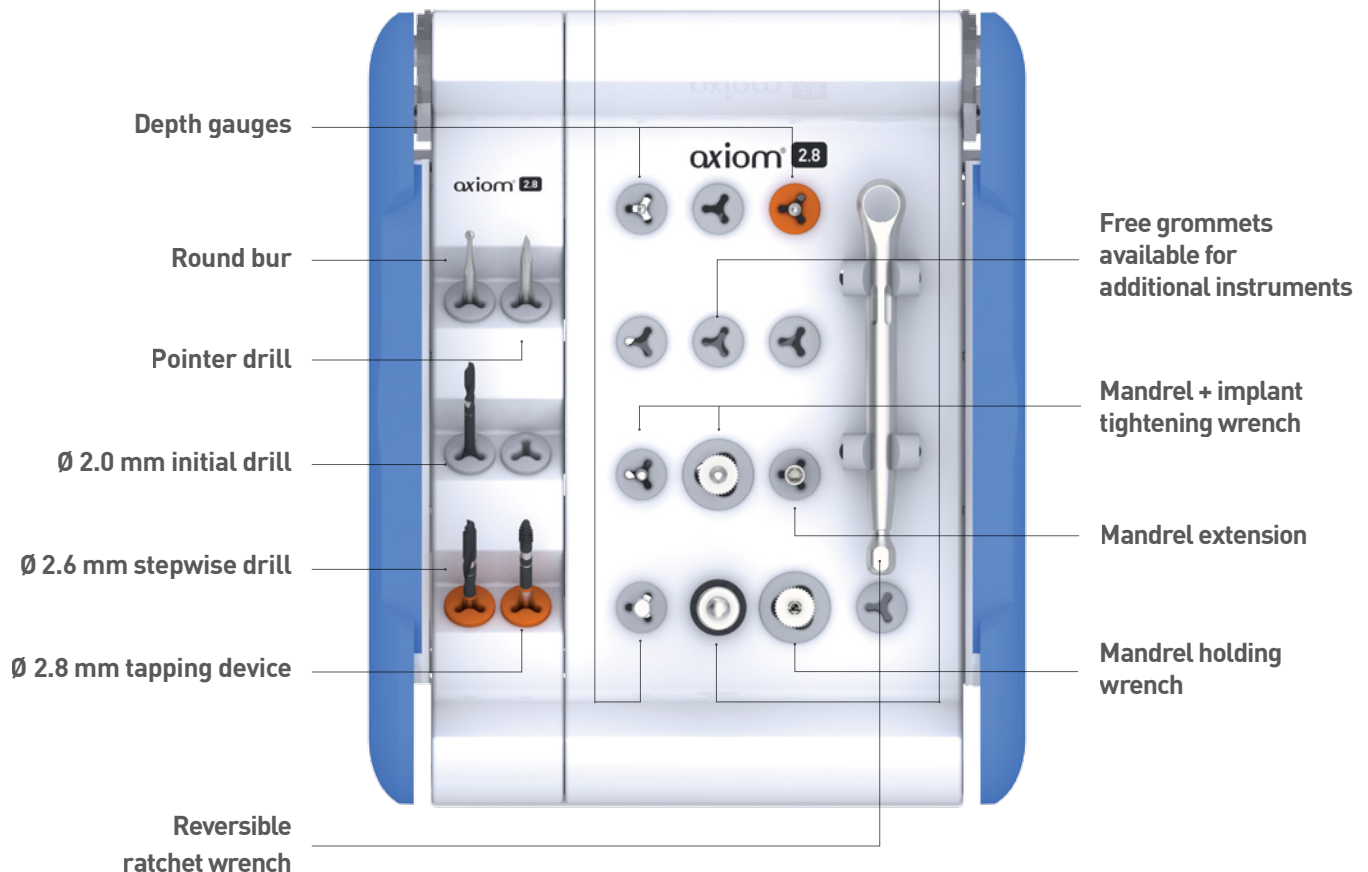


→ A new threaded gripper wrench (**OPCF100**) is available for easy insertion of cover plugs, healing plugs, and PEEK temporary abutments.

PREHENSILE WRENCH



→ Abutments can be inserted using the prehensile wrench (**OPOP028**) in one single pressure.



Axiom[®] implants packaging

A. INNOVATIVE, SIMPLE AND RELIABLE PACKAGING!

IMPLANT « PROTECTED »
Titanium clamp

« NO TOUCH » SOLUTION
Direct contact with the implant at the contra-angle

ABILITY TO REPOSITION
the implant during surgery

CLOSURE SCREW
Protective cap containing a screw or cover plug for the Axiom[®] 2.8



INTUITIVE OPENING WITH ONE HAND



IMPLANT HANDLING USING « CLAMP »
Visible « PRESS » marking



Access the full demonstration



5 COLOR CODES TO CLEARLY IDENTIFY THE DIAMETER OF THE IMPLANT

B. INGENIOUS PACKAGING

IMPLANTS PACKAGING BOX:

- 4 sticky traceability labels.
- Simple classification:
 - 1 color per diameter
 - 1 pictogram per impl
- Pre-cut box and tamp proof seal.
- Sterile barrier.



SHIPPING AND STORAGE BOX*:

- Ecological: bleached packaging, without chlorine
- Dual-use: storage/shipping.
- Intuitive identification of the products.
- Contains up to 6 implants /16 prosthetic parts.



A series of horizontal dotted lines for writing, spanning the width of the page.



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 **Anthogyr**
PRIME MOVER IN IMPLANTOLOGY