PERFORMANCE, FREEDOM, SIMPLICITY

axiom® CONCEPT

axiom® REG - axiom® PX - axiom® 2.8

The new dimension
An ergonomically designed and exhaustive range that offers the best solution for...
A CONCEPT, THE NEW DIMENSION

EVERY clinical indication

CONICAL, STRONG AND TIGHT SEAL CONNECTION
- Morse tapered connection.
- Even distribution of mechanical stresses.
- No micromotions: no bacterial infiltration.
- Preservation of alveolar bone.
- Subcrestal positioning for an aesthetic result.

« PLATFORM-SWITCHING »
- Preservation of the biological space.
- Gingival management, mucous «O-Ring».
- Epithelial preservation.
- Preservation of alveolar crest bone height.

SANDBlasted THReaded NECK
- Optimized bone anchorage.
- Preservation of cortical bone.
- Optimized biomechanical behavior.
- BCP®-treated neck and platform for enhanced osteoconduction.

EFFECTIVE STIMULATION OF BONE
- Optimized use of the threaded surface area.
- Minimal stress concentration at tip threads.
- Optimal conversion of occlusal loads into compressive forces which stimulate bone formation.

GRADE V TITANIUM (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.

BCP® (BIPHASIC CALCIUM PHOSPHATE) OSTEOCONDUCTIVE SURFACE
BCP® grit-blasted surfaces
- High biocompatibility: fast and effective osseointegration without any contamination of the adjacent tissue.
- Optimal surface roughness: enhancement of cell attachment promotes implant stability and ensures rapid osseointegration.
- Successful osseointegration is achieved in more than 99% of the cases***: superior cell adhesion and proliferation abilities.

REG PX 2.8

SEM observations of Anthogyr BCP® implant surfaces

x 1000
1 COMMON RANGE OF DENTAL RESTORATIONS FOR BOTH AXIOM® REG AND PX IMPLANTS

WIDE CHOICE OF EMERGENCE PROFILES

- 5 hauteurs gingivales
- 4 diamètres d’émergence

CONSTANT EMERGENCE PROFILE

- Constant emergence profile from healing screw to final abutment:
  - No undue tension on soft tissue.

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, permanent placement:
- Preservation of periodontal attachment.
- Preservation of biological width.
- Minimal disturbance of soft tissue.

* Availability to be confirmed
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.
- **Compact, ergonomic kit**.

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**!

YOUR CAD-CAM SOLUTION!

- **Implant-supported restorations**:
  - Cement-retained, screw-retained, single-unit and multiple-unit restorations, and full-arch restorations.
  - **Free downloadable implant library** for all popular implant systems.
- **Tooth-supported restorations**.
- **A large selection of materials** to fit all types of restoration: Titanium, Cobalt chromium, IPS e.max® CAD*, Zirconia, PMMA and PEEK.

*IPS e.max® CAD is a registered trademark of Ivoclar Vivadent.
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.
**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.

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

**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.

**GUIDED SURGERY**

**ANTHOGYR Guiding System**

- Compatible with Axiom® REG*.
- Simplant PRO® software: a universal planning system with a user-friendly interface.
- Compact surgical kit: includes a unique, small-size centering sleeve.

*For 3.4 mm, 4.0 mm and 4.6 mm diameters.
In cases of immediate postextraction implant placement, and insertion in low-density bone. Reserved 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.
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.

SPECIFIC DRILLING PROTOCOLS

→ Low and medium-density bone.
→ Slight 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.
DEDICATED SURGICAL KIT
- Easy, practical and logical layout.
- **Orange color code** for the Axiom® 2.8 implant.
- Ergonomic design.

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 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.
COMPREHENSIVE PROSTHETIC RANGE

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

4 gingival heights

Constant emergence profile from healing plug to final abutment:
- No undue tension on soft tissue.

SAFE CALIBRATED IMPACTION

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

**anthogyr**

**axiom® 2.8, THE INCISIVE CHOICE!**

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!
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.

**A SIMPLE DRILLING PROTOCOL**

- Any type of bone.
- Only 2 drills!
- Step drills for centered drilling.
- Tapping is recommended for 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.

**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.
CONCEPT FOR A STRAIGHTFORWARD PROCEDURE

→ Compact, ergonomic surgical kits
→ Tilt tray

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.

* S: short  ** L: long.
Intuitive reading of protocols
ID color code for each implant diameter

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.

FREE GROMMETS AVAILABLE FOR ADDITIONAL INSTRUMENTS
MANDREL + IMPLANT TIGHTENING WRENCH
MANDREL EXTENSION
MANDREL HOLDING WRENCH

DEPTH GAUGE
ROUND BUR
POINTER DRILL
Ø 2.0 mm INITIAL DRILL
Ø 2.6 mm STEPWISE DRILL
Ø 2.8 mm TAPPING DEVICE
REVERSIBLE RATCHET WRENCH

Axiom Concept, the new dimension