

EFFICIENCY - STABILITY - EXPERTISE

axiom[®] **PX**

NEW IMPLANT !



Promise of e**X**pertise

anthogyr

A global solution for dental implantology

Clinical context

The **oxiom[®]** concept presents all the technical characteristics enabling the integrity of the peri-implant biological space to be preserved and promoting an optimal aesthetic result, by incorporating a significant biomechanical resistance.

The flexibility, the comprehensive surgical and prosthetic range of **oxiom[®]** allow it to be used in a wide range of clinical indications.

At the same time, therapeutic demand is developing more and more towards the aesthetic and immediate function of screw-retained prosthesis.

An optimal primary anchorage of the implant is necessary, especially in delicate clinical situations : immediate post-extraction implant placement or low-density bone.

anthogyr research and development

With more than 30 years experience in implantology, the anthogyr development team has designed a new complementary solution to the **oxiom[®]** range in order to offer expert practitioners an implant providing **controlled and effective anchorage**.

To respond perfectly to these new expectations, anthogyr has benefited from the external support of qualified implantologists, in order to guarantee the technical excellence, ergonomics and durability of this new implant system. Indeed, this new implant has been the subject of multicentre clinical follow-up in France and abroad.





▶ **axiom®**
**1 GLOBAL CONCEPT, 1 REAL RANGE,
 3 COMPLEMENTARY SOLUTIONS**

The **axiom® PX** solution completes the **axiom® REG*** and **axiom® 2.8** implant systems. The **axiom®** range thus becomes a global concept and allows a response adapted to all clinical situations to be found.

*axiom® REGULAR

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SINGLE morse tapered connection !
axiom® REG PX common prosthetic range.
axiom® REG PX common surgical kit.



axiom® PX PROMISE OF EXPERTISE

axiom® PX is a new therapeutic solution for the indications of immediate post-extraction implant placement and low-density bone.

This latest option to the **axiom®** range is aimed for experienced practitioners who are looking for an implant offering optimal primary anchorage while keeping the flexibility and ergonomics of the **axiom®** range, both surgically and prosthetically.

axiom® PX AN IDEAL COMPLEMENT

A specific design for an optimal apical anchorage :

- Conical implant.
- Double self-drilling and self-tapping thread.
- Reverse conical neck.

The advantages of the **axiom®** range are preserved :

- Stable and hermetic tapered connection.
- « Platform-switching ».
- **BCP®** osseo-conductive surface treatment.
- Tissue stability and management of the biological space.

► **oxiom[®] REG AND oxiom[®] PX SOLUTIONS, 1 UNIQU**

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COMMON SURGICAL KIT

oxiom[®] REG PX

- **Common instruments** : user-friendly, simply to use.
- Drilling protocol adapted to each **oxiom[®] REG** and **oxiom[®] PX** implant.
- Flexibility of use: choice of implant depending on the clinical situation during the same surgery.
- Ergonomic and compact kit with a new reading direction.



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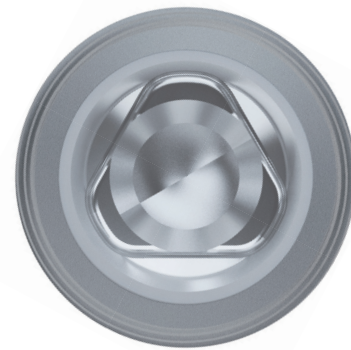
SINGLE PROSTHETIC CONNECTION

Ø 2.7 mm

For all implant diameters, whatever the prosthetic component chosen.

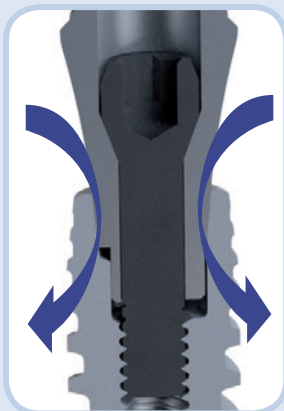
Three-lobed indexed conical connection :

- For guided and accurate placement of the abutment.
- For perfect integrity, including at high torque.



SINGLE CONNECTION !
oxiom[®] REG PX

► **MORSE TAPERED INTERNAL CONNECTION**



STABLE, STRONG AND HERMETIC CONNECTION

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



« PLATFORM-SWITCHING »

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

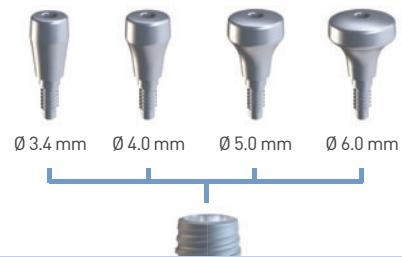
USE AND INNOVATIVE CONCEPT FOR MORE FREEDOM !

1 COMMON AND EXHAUSTIVE PROSTHETIC RANGE **axiom**® REG PX

Wide choice of emergence profiles :



5 GINGIVAL HEIGHTS



4 PROSTHETIC EMERGENCE DIAMETERS



Constant emergence profile between the several prosthetic components, from the healing screw to the final abutment.



A complete range :

- Cement-retained or screw-retained solutions, from single to complete restorations.
- Stabilization of complete denture prosthesis.

GRADE V MEDICAL TITANIUM

- High-strength biocompatible material.
- Compliance with US standard ASTM F136 and international ISO 5832-3 standard.

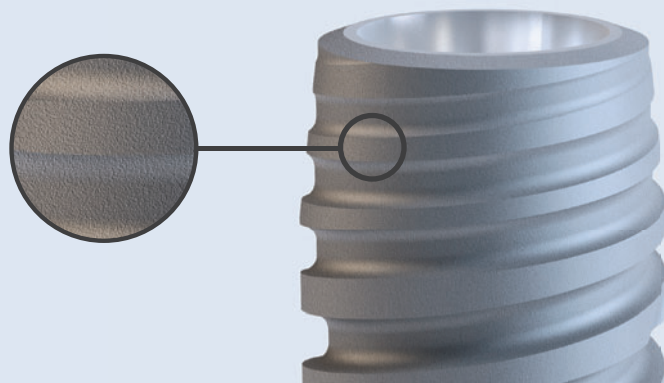
THREADED AND SAND-BLASTED NECK

- Optimized bone anchorage.
- Preservation of cortical bone.
- Optimized biomechanical behaviour.
- Osseo-conductive neck : entirely **BCP**® sand-blasted.

BCP® OSSEO-CONDUCTIVE SURFACE

Surface treatment with **BCP**® sand-blasting :

- Ultra-clean biocompatible surface.
- High degree of wettability.
- Optimized osseointegration period.
- Ideal rough surface for cell development.
- BIC greater than 70%.



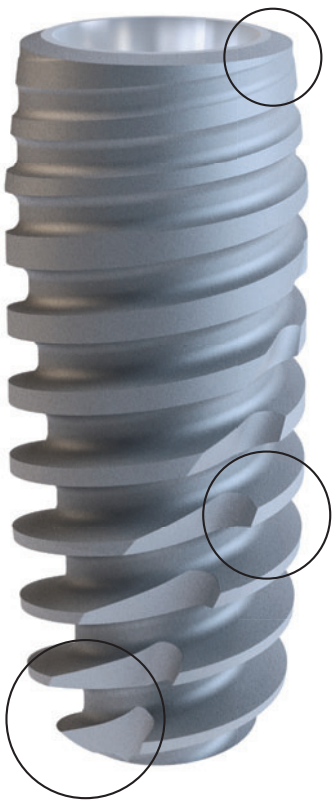
▶ OPTIMAL PRIMARY STABILITY

During an immediate post-extraction implant placement, the extraction of the tooth is a cautious step involving preservation of the alveolar and the vestibular cortical bone.

The axis of implantation chosen does not always fit the extraction cavity axis and should be appropriate to the prosthetic restoration. The implant placed must be able to provide a satisfactory anchorage, mainly on its apex.

oxiom[®] PX offers **expert practitioners** a new solution providing them with **an optimal primary anchorage** in a post-extraction situation and in the case of low bone density.

BCP[®]



REVERSE CONICAL NECK

- Preservation of cortical bone.
- Development of alveolar bone.

CONICAL IMPLANT

- Promotes bone condensing.
- Enhanced primary stability.
- Protocol adapted to sub-drilling.

DEEP AND SHARP THREAD

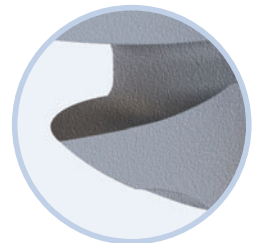
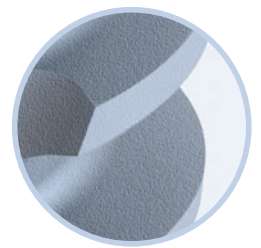
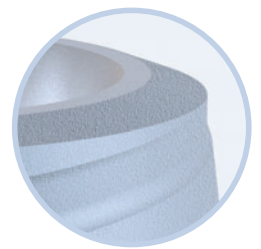
- Self-drilling and self-tapping effect.

SYMMETRICAL DOUBLE THREADING

- Guiding effect in low-density bone.
- Rapid penetration of the implant.

PENETRATING APEX

- Optimal insertion in the bone.
- Ideal anchorage on the apical portion.







▶ IMPLANTS FOR ALL SECTORS

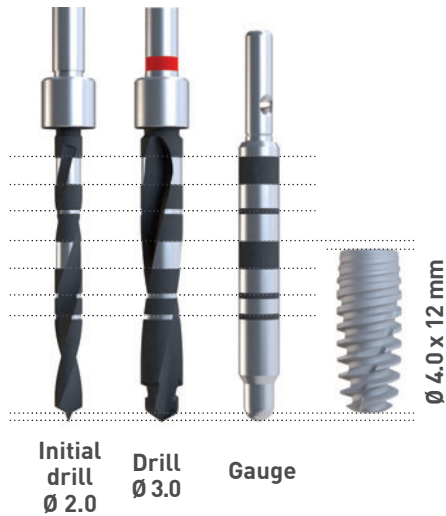
Short 6.5 mm implants for Ø 4.6 and 5.2 mm :

- For implant placement in the posterior sector with a limited available bone height and wide cavities.

Implants up to 18 mm in length :

- Implementation of stabilized prostheses on a reduced number of implants and angled in the posterior sector to optimize anchorage.

Ø 3.4 mm	Ø 4.0 mm	Ø 4.6 mm	Ø 5.2 mm
●	●	○	●
			
8 mm 10 mm 12 mm 14 mm 16 mm 18 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



▶ ADAPTED DRILLING PROTOCOL

The instruments are common to the **axiom[®] REG** and **axiom[®] PX** implants but the drilling sequence is very specific to each implant.

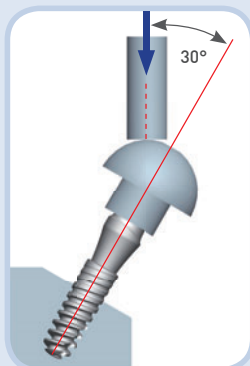
The drilling protocol for the **axiom[®] PX** implant is based on **a sub-drilling in diameter.**

- D1 type bone excluded.
- Sub-drilling in diameter.
- Simple and coherent drilling sequence.
- Step drills for better centring.
- No use of tap.
- Subcrestal positioning of the implant.

▶ TIGHTENING TORQUE TESTS

Comparative tests of tightening torque were performed on a synthetic material representative of a low-density bone with different implants recognized for this type of indications.

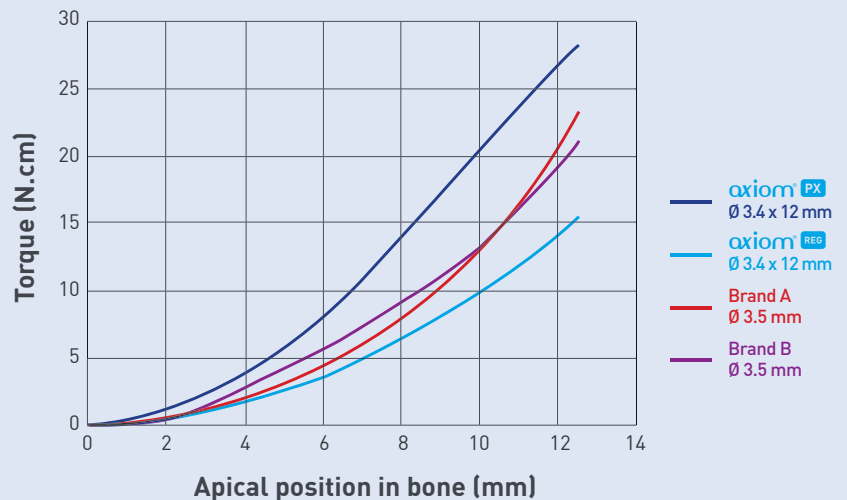
In these tests, **axiom[®] PX** demonstrated its capacity to reach an effective torque more rapidly and at a higher value in low-density materials.



Requirements of standard ISO 14801

COMPARISON OF TIGHTENING TORQUE

Material representative of low-density bone



▶ FATIGUE STRENGTH TESTS

Fatigue strength tests on **axiom[®] PX** according to standard ISO 14801 show a mechanical resistance comparable to that of **axiom[®] REG** at equivalent dimensions.

axiom[®]

The new dimension



axiom[®] REG



axiom[®] PX



axiom[®] 2.8

anthogyr

A global solution for **dental implantology**