

SIMPLICITY, COMFORT, AESTHETICS

# axiom<sup>®</sup>



*The new dimension*

anthogyr

A global solution for dental implantology

# Implants by anthogyr

**oxiom**<sup>®</sup>, THE NEW GENERATION IMPLANT

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**oxiom**<sup>®</sup>'s characteristics represent the perfect synthesis of all scientific and clinical data most recently acquired in the field of dental implantology :

- quick and predictable healing of the bone,
- periodontal environment, comparable to that observed on natural teeth,
- low-invasive protocols and simplified restoration steps,
- comprehensive implant and prosthesis ranges.

## Research and development

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**oxiom**<sup>®</sup> is the result of anthogyr's 20 years of experience in the design and manufacturing of implantology products.

The product development has benefited from external support from dentists and implantologists, thus guaranteeing ergonomics, practicality and durability.

**oxiom**<sup>®</sup> features is a synthesis of all scientific and clinical data most recently acquired in dental implantology.



## A UNIVERSAL AND UNIQUE DESIGN

The perfect synergy of different characteristics makes the **axiom<sup>®</sup>** system the perfect therapeutic solution for meeting the expectations of today's dental surgeons.

### **SURGICAL SIMPLICITY**

- Self-tapping implant
- Direct grip with the contra-angle
- Available in 6.5 mm length

### **PRIMARY ANCHORING**

- Retentive neck with a compacting effect
- Asymmetrical progressive threading
- Self-tapping apex

### **TISSUE STABILITY**

- Integrated « **Platform switching** »
- Stable, airtight conical connection
- Sterile abutment for immediate loading
- Constant emergence profile

### **OSSEOINTEGRATION**

- Medical titanium alloy
- BCP<sup>®</sup>** surface treatment
- Minimally-invasive implant

### **PROSTHETIC SIMPLICITY**

- Exhaustive range of prostheses
- Unique connection



# Periodontal integration

The **oxiom**<sup>®</sup> implant is designed with the aim of perfectly preserving the integrity of the peri-implant biological space. This features are an essential condition for preventing epithelium apicalisation, the key for crater-free bone healing. Indeed, the preservation of this tissue capital enhances both the long-term biomechanical behaviour of the restoration and the aesthetic durability of the result.



## BIOLOGICAL CONNECTION

### Stable connection

- Prosthetic micro-movements totally precluded.
- Epithelium stabilized over time.
- Preservation of the alveolar bone.

### Sealed connectio

- Peripheral sealing.
- No bacterial infiltration.
- Integrity of the biological space.

## PERIODONTAL CRIMPING

### Integrated « Platform-switching »

- Sub-crestal positioning of the shoulder.
- Optimum cervical bone volume.
- Improved mucous support.

### Gingival arrangement

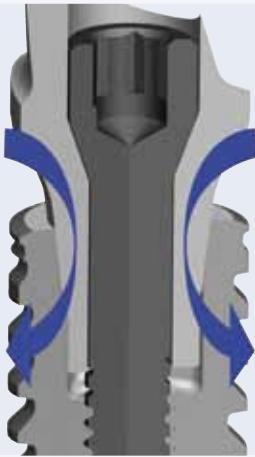
- Gingival « O'ring ».
- Vertical stabilisation of epithelium.
- Aesthetic tissue thickness.

## RETENTIVE NECK

### Threaded and sand-blasted neck

- Optimised bone anchoring.
- Preservation of the cortical bone.
- Optimized biomechanical behaviour.

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#### Dual Cone assembly

- Absence of stress concentration.
- No unwanted unscrewing of restoration.
- Preservation of the epithelial attachment over time.



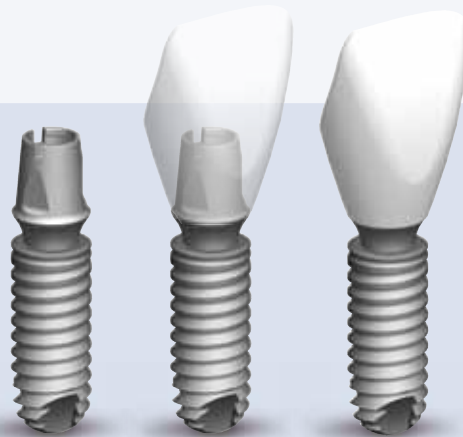
## FEW PROSTHETIC MANIPULATIONS

#### Immediate and permanent connection of components

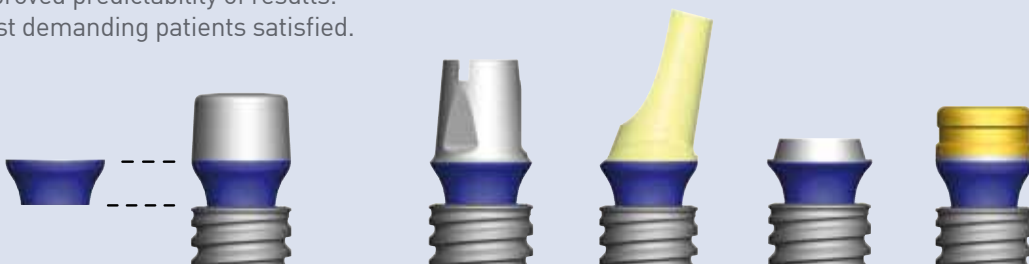
- Limited exposure of the tissues to bacterial flora.
- Maintenance of the periodontal attachment.
- Respect of the biological space.
- Preservation of crestal bone.

#### Constant emergence profile

- Prosthetic handling without tension of soft tissue.
- Improved predictability of results.
- Most demanding patients satisfied.



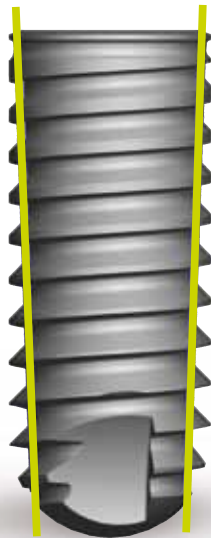
ABUTMENTS SUPPLIED STERILE



## Integration within the bone

The optimal use of the implant's surface is essential in order to obtain efficient anchoring in the bone at all stages of the healing process, until complete and perfect osseointegration of the implant.

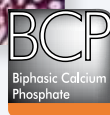
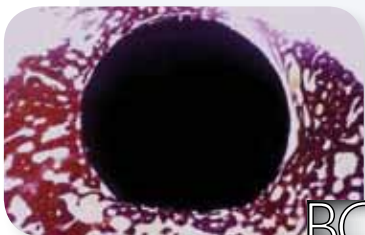
The quality of the anchoring thus obtained will then allow the use of small-format implants to be optimised. As a matter of fact, the use of low invasive implants has a number of advantages : simplicity of drilling protocols, ease of three-dimensional positioning of the implant, increased presence of peri-implant bone tissue, freeing from some bone grafts, costly and cumbersome for the patient, and increased safety of flap-free surgical procedures.



### PRIMARY STABILITY

#### Progressive threading

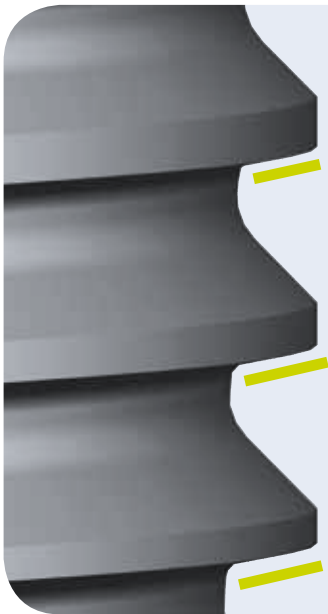
- Gradual compression of the bone as the implant is being screwing in.
- Apical threads well-suited to cancellous bone.
- Effective in all bones types.
- Ideal for post-extraction implantation.



### OSSEO-CONDUCTIVE SURFACE STATE

#### BCP surface treatment

- Proven « sand-blasting-etching » process.
- BCP® : ultra-clean sand-blasting medium.
- High wettability of surface.
- Contact osteogenesis within 6 weeks.
- BIC greater than 70%.



## BONE STIMULATION

### Asymmetrical threading (thread - 0.8mm)

- Optimal exploitation of actual surface area of threading.
- Stress concentration reduced at tip of thread.
- Optimum transformation of occlusal loads with a compressive force that contributes to bone stimulation.
- Contributes to the formation of dense peripheral bone.



## FIRST-RATE MATERIALS

### Grade V titanium

- Highly resistant, biocompatible material.
- Material largely used in the fields of orthopaedics and dental implantology.
- ADA\* approved.

\*ADA - American Dental Association Scientific Council 2003.

# Prosthetic restoration

The total 'implant range - prosthetic components range' was designed so that users could be offered the greatest flexibility. Due to the implants' joint connection, the choice of prosthetic components no longer depends on the implant that is used. In other words, all of the implants, regardless of the diameter, are compatible with all of the prosthetic components available, making guided prosthetic surgery simple and more adaptable.

## IMPLANTS FOR ALL SITUATIONS

### Implant Ø 3.4 mm

→ Ultra-resistant implant which may be used in most situations.

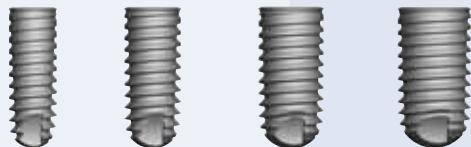
### Short implant 6.5 & 8 mm in length

→ For posterior implantations with limited bone height.

### Implant Ø 5.2 mm

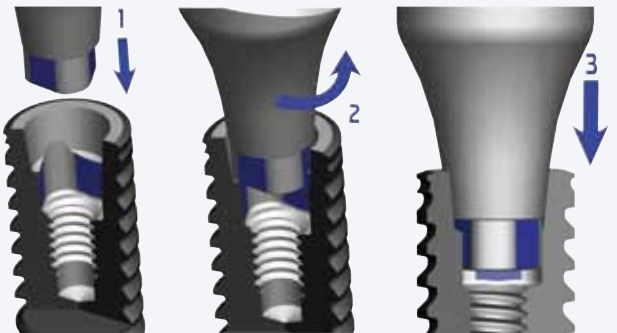
→ For post-extraction implantation.

Ø 3.4 mm    Ø 4 mm    Ø 4.6 mm    Ø 5.2 mm



8 mm	6,5 mm	6,5 mm	6,5 mm
10 mm	8 mm	8 mm	8 mm
12 mm	10 mm	10 mm	10 mm
14 mm	12 mm	12 mm	12 mm
	14 mm	14 mm	14 mm

## INTUITIVE CONNECTION



### Self-guiding connection, depth 3mm

- Three-lobed indexation.
- Natural placement of abutment during insertion.
- Shorter prosthetic manipulations.

### One connection for all diameters

- Implant diameter and restoration profile totally independent.
- Separate management of bone volume and size of tooth to be restored.
- Less constraints, more flexibility.

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Tooth and prosthetic profile fitting (1.5 and 3 mm gingival height)				Emergence profile (mm)			
Tooth	Dia collet	Mini	Maxi	ø 3.4	ø 4.0	ø 5.0	ø 6.0
Mandibular incisor	Més-Dist	2.9	4.1	●	●		
Central maxillar incisor	Més-Dist	5.5	7.6			●	●
Maxillar incisor	Més-Dist	4.1	5.2	●	●	●	
Maxillar canine	Més-Dist	5.3	6.4			●	●
Mandibular canine	Més-Dist	4.5	6		●	●	●
Maxillar first molar	Més-Dist	7.5	9				●
Maxillar first premolar	Més-Dist	3.8	5.5		●	●	

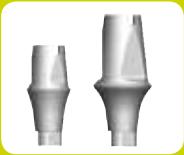
AN INLAYCORE FOR EVERY TOOTH



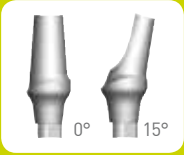
A WIDE CHOICE OF PROSTHETIC COMPONENTS FOR ALL TYPES OF RESTORATION



**Temporary abutments**  
 → Immediate implant loading  
 → Temporary prosthesis



**Standard titanium abutments**  
 → Single or multiple cemented restoration



**Aesthetic titanium abutments**  
 → Single or multiple cemented restoration



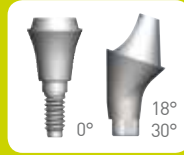
**Aesthetic zircon abutments**  
 → All ceramic cemented prosthesis



**Gold-coated abutment**  
 → Multiple retained prosthesis  
 → Single or multiple cemented restoration



**Re-workable abutment**  
 → Single or multiple cemented restoration



**Conical abutments**  
 → Multiple retained prosthesis  
 → Retained bar and frames



**LOCATOR abutments**  
 → Full arch stabilisation

## Surgical simplicity

oxiom® offers pragmatic solutions to satisfy the needs of implantologist's everyday practice, whichever their level. Thus, simplicity of protocols and procedures is central in all our designs.

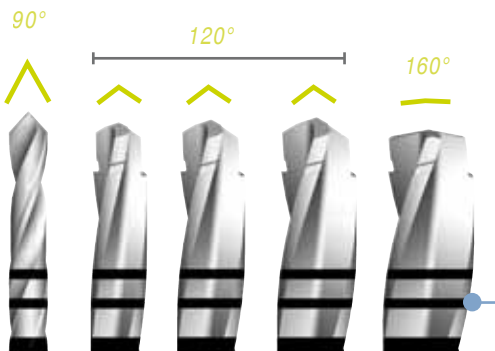


Model of the finished elements

### ADAPTED TO MINIMALLY-INVASIVE SURGERY

- Ø 3.4 mm standard implant can be used in most situations.
- Short implant 6,5 mm in length.
- High-resistance, mechanically tested implant.
- Simplification of surgical protocols.
- Less grafts.

**Note :** consult the oxiom® technical file for further information.



### HIGH-PERFORMANCE INSTRUMENTS

- Drills with variable wedge angle geometry : **guidance and stability.**
- **Ultra-high cutting performance.**
- Bee color® laser marking : **and safety.**
- Shorter drilling protocols : **efficiency and simplicity.**

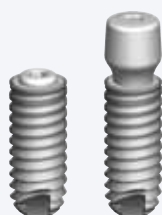
Bee color®

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## IMPLANT WITH GUIDING INSERTION

- Self-tapping profile.
- Atraumatic apex.
- Cylindrical-conical body.

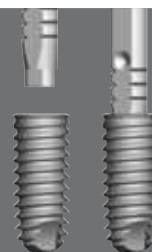


## FLEXIBILITY OF USE

- Logical drill sequence.
- One or two step surgery.
- Subcrestal positioning of the implant.

## DIRECT GRIP WITHOUT IMPLANT HOLDER

- Less manipulations.
- Vertical millimeter-scaled detection system.
- Resistance to screwing greater than 230 N.cm.



## CONVENIENT KIT

- Compact kit.
- Vertically inclinable tray.
- Colour coding.
- Intuitive reading of protocols.
- Pictograms for each instrument.





## anthogyr, SERVICE INCLUDED

### **Further information, advice, contacts :**

Our marketing, sales and R&D departments will be happy to answer all your enquiries.

Let's meet !

Réf. **C62B - 1209**

# anthogyr

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