

PHIA+ Lines

 **RADHEX**  
I M P L A N T S



## **PHIA+ PLUS Lines**

### **CONNECTIVITY:**

*IS = PHI350 = Plat. Hex. Internal Ø3.50 mm / Type Zimmer Tapered Screw Vent 3.5*

*IM = PHI450 = Plat. Hex. Internal Ø4.50 mm / Type Zimmer Tapered Screw Vent 4.5*

At Radhex Implants®, we believe in the importance of offering dental professionals varied options to suit their clinical needs. The **PHIA+ Plus** implant has been conceived with a design focused on providing exceptional stability, even in low-density bone, always maintaining compatibility with the **PHI** line platform.

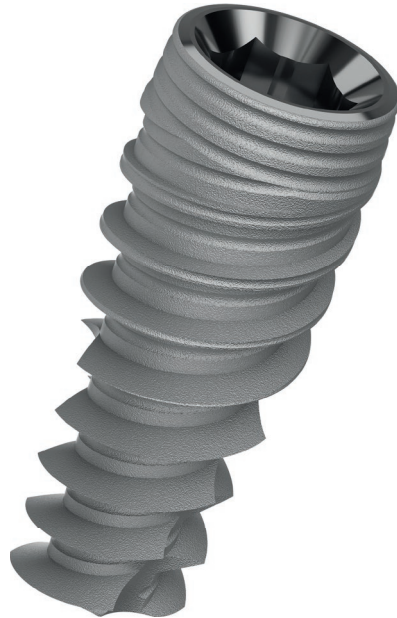
This implant is specially designed for those professionals who prefer internal inserts, providing efficiency and safety through the American platform originally developed by Dr. Gerald Niznick. This platform, recognized worldwide for its internal hexagonal connection, ensures a secure connection closure with a conical seat, minimizing the space at the interface between the implant and the attachment.

Professionals with deep knowledge of implantology and vast experience understand the difficulties that can arise in various topographical and structural situations of the jaws. For this reason, they especially value a design that responds to extreme situations, where the quality of the bone requires highly stable implants.

The **PHIA+ Plus** line conceptually addresses this need, offering an implant with a body designed to provide high stability, even in low-density bones, while always maintaining compatibility with the **PHI** line platform.

The IS platform, specific for **PHI350**, offers maximum restorative comfort by responding to a complete line of diameters and lengths with a single platform, thus facilitating clinical practice. Made of Pure Grade 4 Titanium, this implant is suitable for various situations, especially those with low bone density or irregular bone topography. The pragmatic approach permeates.

**PHIA+ 350 Type**  
RADHEX<sup>®</sup>  
IMPLANTS



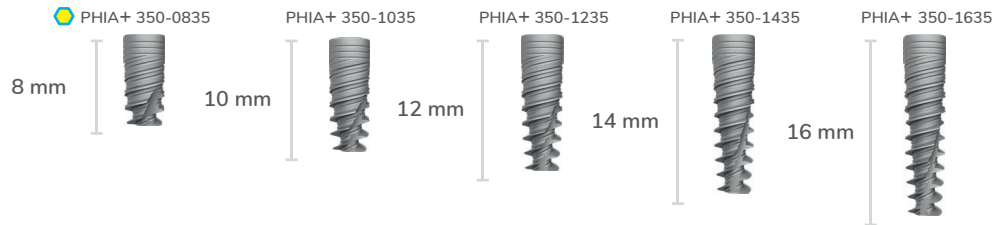
- Internal Hexagonal Connection IS type **PHI350**.
- Bone-link subtractive surface treatment.
- Cervical section, with micro channels converging towards the cervical.
- Absence of machined ring, surface treated until the connection.
- Platform jumping as System Architecture, (Platform switching).
- x6 threads of double Helix threads, with progressive profile, conical central core and cylindrical bestiary profile.
- Self-threading apical fronts of helical design.
- Self-drilling and redirectable apical end with high mechanical efficiency.
- Generically indicated for all types of Bones.
- Especially indicated where high primary stability is required (especially for type III and type IV).
- Milling speed: 500 to 800 rpm.
- Insertion speed: 25 rpm.
- Container with double protection vial.
- Maximum protection and easy handling.
- Includes closing cap.

# PHIA+350: Active Plus Internal Hexagonal Platform Implants Ø 3.50. IS Connection Code.

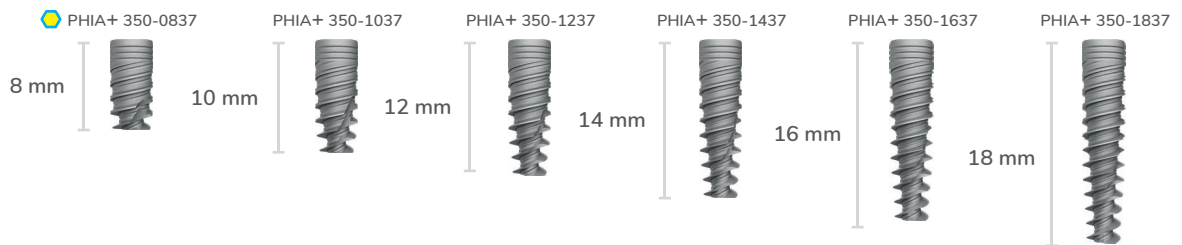
## Available Diameters and Lengths

SCALE 1.5:1

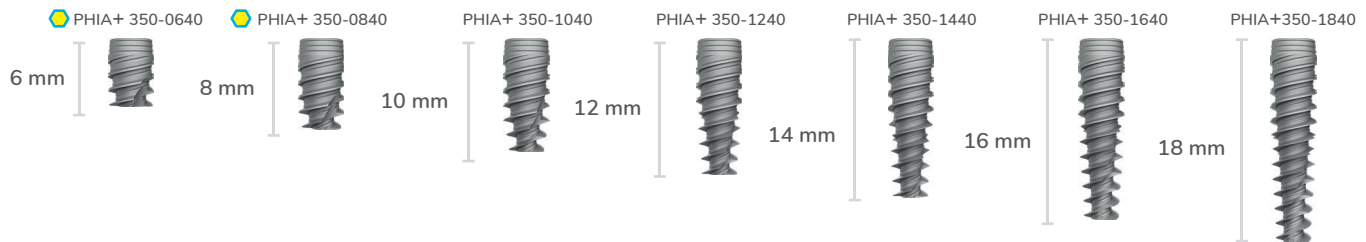
Ø 3.50



Ø 3.75



Ø 4.00

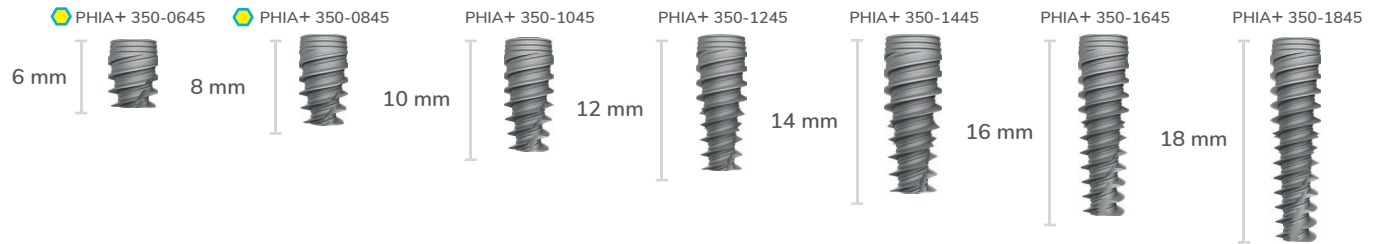


Short Implant

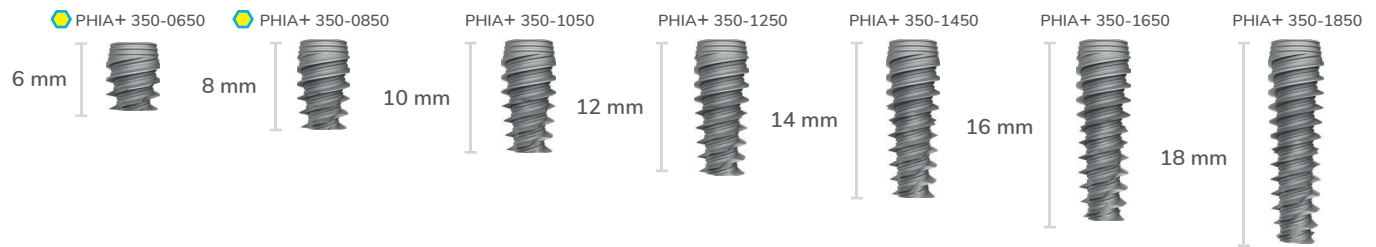
# PHIA+350: Active Plus Internal Hexagonal Platform Implants Ø 3.50. IS Connection Code.

## Available Diameters and Lengths

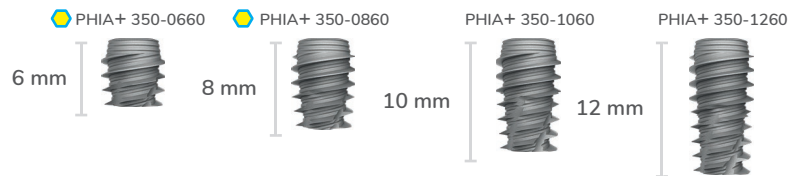
### Ø 4.50



### Ø 5.00



### Ø 6.00



## Main Features

### CONNECTION ENGINEERING:

Compatible Hexagonal Internal Connection Platform\* / 45° Conical Seat

The **IS Platform**, with a diameter of 3.50 mm, features different body diameter options, ranging from 3.50 mm to 6.00 mm, including measurements of 3.75 mm, 4.00 mm, 4.50 mm, 5.00mm and 6.00mm.

The internal seat bezel of the platform has a 45° conical fit, ensuring maximum closure, airtightness and stability. This design reduces micro-movements, optimizes load distribution and ensures an optimal biological seal in the connection space. The inner hexagonal section performs an anti-rotation and stabilizing function using a 2.40 mm faceted hexagon and a 1.8 mm inner metric, providing a robust and resistant connection for structural and functional stability in various clinical applications.

### CERVICAL DESIGN:

The coronal tapered external bevel of the implant aims to reduce bacterial infiltration. The Platform Switching concept is used to model the soft tissues and shape the emergence profile, maintaining the turbinat bone. The complete line of body diameters includes specific platform switching for the Ø 3.50 mm **IS platform**.

The cervical section, with a height of 1.5 mm and coronal convergence recesses, ensures bone adhesion and stability in the most mechanically and biologically critical area of the implant. The architecture of the implant allows the reduction of cortical stress due to compression, with a convergent restriction of the cervical diameter to favor the final stability of the bone tissue.

### BODY AREA, PROFILE ARCHITECTURE:

The **PHIA+ Plus** Model stands out for its advanced technical design, with a self-tapping system that facilitates insertion and promotes osseointegration. Its re-addressable capacity adapts to the anatomical characteristics of the patient. The Cylindrical-Conical Anatomical Design, with cylindrical ridge profile and conical central core, offers high primary stability crucial for osseointegration. The ability to withstand Immediate Loads, together with its anatomical design and progressive thread, guarantees primary stability and allows immediate loading, providing confidence to the professional. Post-insertion self-sustainability ensures an effective healing process and long-term stability. In summary, the **PHIA+ Plus** is a leader in dental implants, providing advanced tools for various clinical situations.

### MICRO DESIGN OF SURFACE:

Micro Textured Surface complete by subtractive method with micro particles of controlled granulometry incorporating thermal convection process for surface decontamination and stabilization of the surface titanium oxide layer that favors bio-compatibility. Creates a micro-roughness, hydrophilic surface with high wettability and low surface tension.

### THREADING MECHANICS:

Active coils with reduced angles that favor BIC, (Bone Implant Contact).

Double threading in Major Threads and double channel threading in Thread Core: they make up 2 Threads with double turns:

- ▶ Design with high traction and grip on the ground Bone: x6, (6 threads), with double major coil, with double microcoil at the bottom of threading channels and double microspiral in thread crests. Advance, (2.6 mm per Revolution).
- ▶ Speed of insertion with reduction in surgical time while maintaining a soft touch in its threading.
- ▶ Possibility of re-direction of the implant with penetrating front. The implant literally “bites” into the bone tissue.
- ▶ Rapid feed of 2.6 mm per turn or revolution: e.g. : a 10 mm implant requires approximately 4 revolutions to be fully threaded.
- ▶ Wide intercrestal valleys, ensuring high volume of bone tissue between crests.

### SELF-THREADING MECHANICS:

Helical Self-Cutting Front: It acts by causing cutting and deformation of the bone bed to carve its own thread and allows bone remains from the insertion to be collected, with an anti-rotational function after the integration of the implant.

### APICAL FRONT DESIGN:

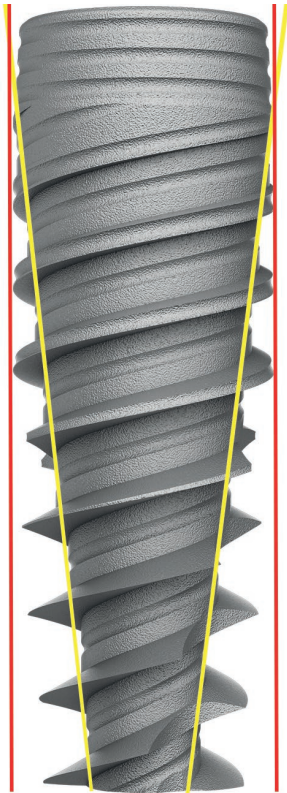
Atraumatic apex of low convexity, provides protection of anatomical risk areas..

**COMPOSITION:** Ti 6Al 4V: Grade 5 Titanium Alloy..

**THREADING SPEED:** Recommended Speed/Insertion: 25 RPM

# Technical Data Scheme

Very high stability thread with progressive profile



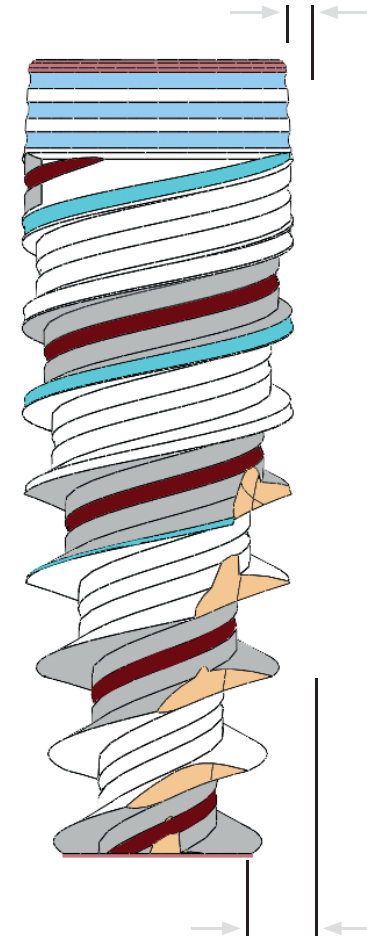
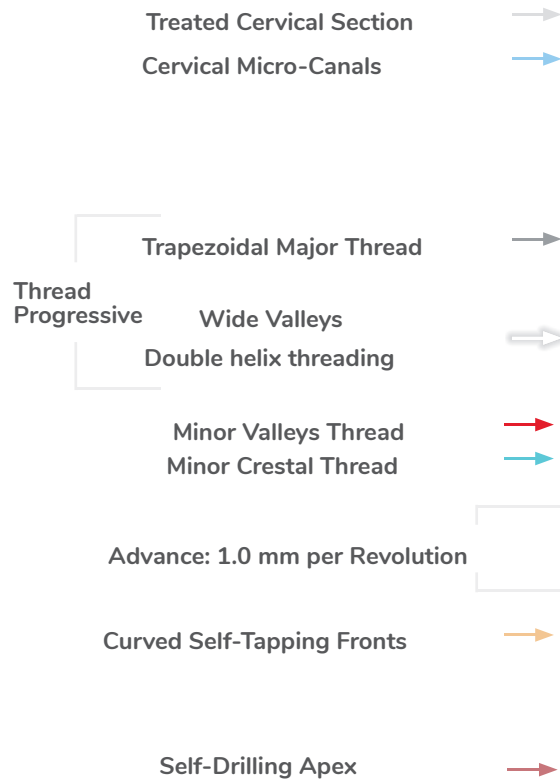
Cylindrical Crestal Profile + Conical Core

Very High Primary Stability + Easy Insertion and Reorientability



4 x 4 Total Grip

Platform Jump



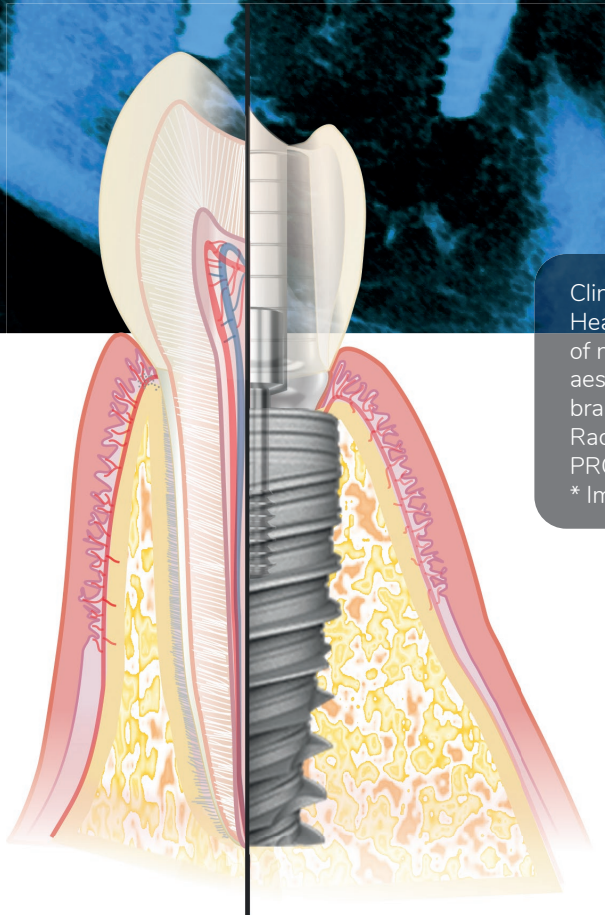
Large Nucleocrestal Discrepancy  
Very high primary stability



Threading Smoothness

## Indication

General indication for all types of cases, presenting optimal behavior in Type I and Type II Bones (Leckholm et Zarb).



Clinical Case Description: Male Patient, 47 years old, HIV+ controlled, with adequate General Health status, with partially edentulous upper jaw and mandible, presenting general deterioration of natural dental structures and need for extraction, relevant masticatory dysfunction and aesthetic problems. An implant-supported oral rehabilitation solution is proposed, with 8 Radhex brand implants, model PHIA+.

Radiographic image after immediate loading with provisionalization on a structure mounted on PRO PMU pillars, with intraoral electrowelding implemented oral rehabilitation.

\* Image courtesy of CDIH dental center.

### High Quality and Design in our products

Quality is our value, and design is our spirit. With an always innovative attitude, we create effective, innovative products and solutions, and improve existing ones, so that professionals can provide their patients with fully functional, safe and natural-looking results.



 **RADHEX**  
IMPLANTS



Your smile is...





Maximum Primary Stability.

Crestal immersion technique.

SwitchPlatform.

The most widespread Internal platform in the world.

**PHIA+ Plus**

# Premium PHIA +



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[comercial@radhex.es](mailto:comercial@radhex.es)

900 350 450

[www.radhex.es](http://www.radhex.es)