







phibo<sup>®</sup>

IMPORTANT: BEFORE USING Phibo®

The innovative and patented design of Phibo® implant systems incorporates advanced technological features developed only for professionals who understand **tech**nology as an advantage and design as a benefit.

Phibo® complies with all the European guidelines and legal requirements in European Directive 93/42/ECC regarding the manufacture and distribution of medical and health products. The products in Phibo® implant systems carry the EC mark based on an evaluation by NB 0123. The Phibo Dental Solutions, S.L. Quality System complies with the most rigorous international quality standards and is certified according to ISO 9001 and ISO 13485 by TÜV SÜD Product Service.

The use of other components or products not manufactured by Phibo Dental Solutions, S.L. that come into contact with Phibo® implant system original components, manufactured in accordance with the original design specifications, may cause serious health problems for the patient as they are not intended for use with elements referenced in the documentation supplied by the manufacturer.

Any use of non-original components or instruments indicated in this catalogue that that come into contact with the referenced components will automatically cancel any type of warranty covering Phibo<sup>®</sup> products.

The use and application of Phibo® dental implant systems are beyond the control of the manufacturer, and the user is responsible for any harm that may result from the use of the product. Phibo Dental Solutions, S.L. declines all responsibility for damages related to incorrect handling or use.

The documentation of Phibo® implant systems are periodically updated according to the state of scientific and technical knowledge. Users of Phibo® systems should request product information on a regular basis and attend the training courses on the product and technique that are held regularly. The use and placement of Phibo® implants in unsuitable sectors and the use of surgical instruments or prosthetic components not contemplated in this catalogue may cause serious patient health problems as well as total invalidation of the product warranty. Phibo® implant systems are designed for single and multiple dental restorations according to the traditional clinical processes reflected in this documentation. The warranty excludes cases involving insufficient bone for implant placement, clinical risk cases such as sinus lifts, bone fillings, advanced surgical techniques, cases of severe or non-apt disparallelism between implants, among others.

Phibo® implant systems are internationally distributed in various countries with different technical and healthcare regulations and laws; accordingly, there may be differences from one country to another in terms of the content of the procedure. Consult the exclusive Phibo® distributor in your country and request the documentation for the products and their availability.

Phibo Dental Solutions, S.L. reserves the right to modify and develop the products shown in this catalogue without prior warning.

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Phibo® Implants, Phibo® CAD-CAM, Tissue Care®, TSA® Advance, TSA®, TSH®, BNT®, Avantblast®, ProUnic®, ProUnic Plus®, Duplit®, Softissue, International Phibo Group®, Phibo® Prostodontics, Phibo® Scientific are commercial and/or registered trademarks of Phibo Dental Solutions, S.L.

Phibo® implants are protected by international patents. Other products and accessories are protected by patents or are patent pending.

The illustrations in this document are not to scale.

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# About Phibo®







### History

Phibo® has been researching, developing and manufacturing dental solutions for over 20 years, with a strong dedication to research and a strong scientific component. Phibo® is an entrepreneurial project started in 1986 based on scientific knowledge in dentistry and technical expertise in aeronautics.

In this time, the company has achieved the following significant milestones:

- 1986 First 100% Spanish dental implant patent.
- 2000 Expansion to new international markets. Prize for the company's internationalisation.
- 2003 Opening of the Technological Centre.
- 2007 New subsidiaries in Italy and Portugal.
- 2009 New corporate stage. Creation of the new CAD-CAM customised prostheses division.
- 2011 New corporate identity. Evolution of the company towards global dental solutions.
- 2012 Expansion of the Phibo® Technological Centre.
- 2013 Opening of new subsidiaries in France, Germany, Benelux, Arab Emirates and Colombia.

### The Phibo® mission

Providing society with advanced dental solutions, contributing to improving people's quality of life through excellent oral health, greater comfort and advanced aesthetics. Boosting this objective through a solid work philosophy backed by all our knowledge and scientific focus.

We work to provide professionals with top **quality**, **reliability** and **predictability** in all our products and services, promoting **knowledge** and **scientific** and **technological development**, encouraging good clinical practice through ongoing training and advances that contribute to **solving problems** in modern dentistry.

**Internationalising** company services by exporting our model of success to become a world leader in providing dental solutions.

**Tenacity** is the motor that drives us. **Commitment**, our way of life. **Technical Capacity**, our bedrock value and **Innovation** our ambition.

# The Phibo® difference

Implant Systems





The ultimate objective of our implants is to restore chewing, aesthetic and phonation functions by replacing missing teeth in the mandible and maxilla with dental implants surgically implanted in the remaining bone and restoring the different functions using customised prostheses.

#### Benefits of the Phibo® system

#### 1. Design

Phibo<sup>®</sup> implant systems are designed to simplify and reduce clinical processes and restoration times, ensuring better aesthetics and greater comfort for the patient from the very start. Tissue care and maintenance is the ultimate objective. The exclusive geometry of the Phibo<sup>®</sup> multi-connection ensures an excellent restoration prognosis.

#### 2. Soft tissue care

Using standard connecting abutments we facilitate a distribution of forces along the long axis of the implant, stimulating soft tissue adhesion to the coronal portion of the implant and reducing stress at the implant-abutment connecting interface.

The intermediate abutments required for screwed restorations favour softtissue biological processes.

#### 3. Quality

Phibo<sup>®</sup> subjects all its products to strict quality controls to ensure predictable and reliable results.

#### 4. Warranty

Behind every Phibo<sup>®</sup> implant there are over 20 years of research, development and the most rigorous application of science and technology. For this reason, Phibo<sup>®</sup> guarantees each implant for five years.



#### 5. Avantblast® Surface (Patented)

Avantblast® is the surface of the Phibo® implant system.

Continuing the line of research into implant surface treatment based on chemical attack, Avantblast® represents a breakthrough in and optimisation of the biological response, improving on past successes with acid-etched surfaces and subsequent passivation. Avantblast® combines key factors for facilitating the biological response: increased implant surface area through optimised roughness and increased thickness of the titanium dioxide laver.

The Avantblast® surface, manufactured in a controlled manner with dual chemical attack, exclusive for its outstanding porosity and with a morphology very similar to that of cancellous bone, optimises the osseointegration process, implant anchorage to bone, and clinical success. The exclusive morphology of the Avantblast®12 surface increases the effective surface area of the implant while multiplying the thickness of the superficial TiO, layer. This combination of factors result in a better implant-bone connection, with greater retaining force, less metal ion release to the medium and greatly increased humectability.







Selección de estudios científicos realizados con los sistemas de implantes Phibo®

Experimentación animal- carga inmediata Clin Oral Implants Res. 2012 Oct 11. doi: 10.1111/clr.12047.

[Epub ahead of print]. Peri-implant tissue reactions to immediate nonocclusal loaded implants with different collar design: an experi-

loaded implants with different collar design: an experi-mental study in dogs. Negri B, Calvo Guirado JL, Maté Sánchez de Val JE, Delga-do Ruíz RA, Ramírez Fernández MP, Barona Dorado C. Conclusions: The alterations that occurred in the peri-implant tissues were related to the adaptation that occurred after the loading conditions in both groups. The microthread design might have an effect in maintaining the macring hope loss arginst loading. the marginal bone loss against loading.

#### Carga inmediata

Immediate versus nonimmediate placement of implants Peñarrocha-Diago MA, Maestre-Ferrín L, Demarchi CL, Peñarrocha-Diago MA, Maestre-Ferrín L, Demarchi CL, Peñarrocha-Oltra D, Peñarrocha-Diago M. J Oral Maxillofac Surg. 2011 Jan;69(1):154-9.

#### Superficie Avantblast®:

Superficie Avantblast\*: A retrospective comparison of 1,022 implants: immediate versus nonimmediate. Int J Oral Maxillofac Implants. 2012 Mar-Apr;27(2):421-7. Peñarrocha-Diago M, Demarchi CL, Maestre-Ferrín L, Carrillo C, Peñarrocha-Oltra D, Peñarrocha-Diago MA. Conclusions: The mean implant survival rate was 93.4%; 93.8% for immediate implants and 93.2% for mature bone with a minimum of one year of follow-up.

Clinical and Radiographic Behaviour of 290 dental implants with a surface treated with hydroufluric acid and passivated with hydrofluoric and nitric acid: early loading

mesulta affrer 2 years. Med Oral Patol Oral Cir Bucal 2006; 11:E281-5. José María Martínez-González, Cristina Barona Dorado, Jorge Cano Sánchez, María Flórez Rodriguez, Miriam

Cantero Álvarez. Conclusions: The implant survival rate is 98.56%. Results after the prosthetic loading of 279 implants (survival rate 98.56%) attest that early loading may a must be applied, after a rigorous planning and case selection.

Avantblast<sup>®</sup>

Physico-chemical characterization of the surface of 9 Physico-chemical characterization of the surface of 9 dental implants with 3 different surface treatments. *Med Oral Patol Oral Cir Bucal 2005; 10:58-65.* Daniel Rodríguez Rius, F. Javier García Sabán. Conclusions: Avantblast treatment as a consequence and increased osseointegration and bone formation in contact with the surface of the implants when compared with other surfaces.

**Carga precoz-osteointegración:** Early Loading of 642 Phibo® Implants: 1-Year Follow-Up. *Journal of Oral and Maxillofacial Surgery 2007; 65 (11),* 2317-2320.

2317-2320. Miguel Penarrocha PhD, DDS, Celia Carrillo DDS, Araceli Boronat DDS and Eva Martí DDS, PhD. Conclusions: A total of 642 Phibo® TSA implants were placed in 192 patients, who were rehabilitated with 298 prostheses. The implant survival rate was 98.13%. Our recorded success rate is similar to that found in the re-viewed literature generating of patients of patients viewed literature corresponding to large series of patients subjected to early implant loading.

#### Microespiras:

The implant neck: smooth or provided with retention elements. A biomechanical approach. *Clin Oral Implants Res.* 1999 *Oct;10(5):394-405.* Hansson S. Dpt. Pol. Mat. Chalmers, University of Technology, Göteborg, Sweden.

#### Estabilidad primaria:

Resonance frequency analysis after the placement of 133 dental implants. Med Oral Patol Oral Cir Bucal 2006 May 1; 11(3):E272-6.

Boronat.A., Peñarrocha.M., Martinez-Cortissoz.O., and

Boronat, A., Penarrocha, M., Martinez-Cortissoz, O., and Minguez-Martinez, I. Conclusions: The stability quotient of the implants on the day of surgery was 62.1, with an insertion force of 35.7 N.

Para más información www.phibo.com

# Science and Technology

We are committed to science and technology

Phibo<sup>®</sup> conducts bioengineering, biocompatibility, experimental technique and computer-simulation studies on its products.

Our work philosophy draws on all of our knowledge and is backed by scientific studies. We contribute to better quality of life for the patient through better oral health, and improved comfort and aesthetics.

Phibo® is conducting a variety of multi-centre clinical studies, extending the success of its products in partnership with top universities and leading national and international centres.

#### Fatigue studies

To guarantee the reliability of Phibo<sup>®</sup> products, fatigue tests have been conducted according to the international ISO 14801 standard with the following results.

With cyclic loading at a frequency of 15 Hz applied to the axis of the implant-abutment assembly at a  $30^{\circ}$  angle, 5 million cycles with forces exceeding 350 N were withstood (TSA<sup>®</sup> Advance and TSA<sup>®</sup>).

Phibo<sup>®</sup>, through its R&D&i activities, guarantees that the implant system design provides optimum behaviour at the mechanical and biological level. The reports of reputable technological centres such as Applus or Inasmed, among others, certify this behaviour.

#### Studies of finite elements

F.E.M. consists of rendering complex geometries discrete in smaller portions (finite elements), which can be studied by traditional solid mechanics. Mathematical relations of balance are established between these elements, from which a general result is obtained regarding the stresses and deformities of the studied structure. Based on the computer simulations, the following conclusions were reached:

**Mechanically:** the geometric and balanced three-dimensional spatial design of the geometry of the connections allows distribution of stress over a larger surface area, reducing localised mechanical stress peaks. This prolongs material fatigue service life and approaches the requirements, objectives and functions of an ideal dental implant as regards fixation and support of dental pieces.

**Biomechanically:** the optimised design of the connections and their conical macrogeometrical characteristics ensure harmonious and consistent interaction of the implant with the biological supporting medium. Localised accumulation of stresses generated by loads and chewing forces is avoided, allowing a gradual release of energy and transmission of stresses to the bone-implant interface.



Safe products for predictable results

Clinical prognosis guaranteed through the production process

The precision with which Phibo® carries out the different production processes has decisive results in the restoration prognosis.

The geometry of connection and precision in the seating of the prosthetic components are crucial variables in the evolution of treatments. In fact, **control of micro-movements** between the components involved has a significant impact on the behaviour of peri-implant tissues.

 ${\rm Phibo}^{\otimes}$  manufactures high-precision products to guarantee the best clinical results.

"Phibo pays attention to details".



#### $Scientific \ studies \ made \ with \ Phibo^{\circ} \ implant \ systems$

Comparison of immediate and delayed implants in the maxillary molar region: a retrospective study of 123 implants. Int J Oral Maxillofac Implants. 2012 May-Jun;27(3):604-10. Peñarrocha-Oltra D, Demarchi CL, Maestre-Ferrín L, Peñarrocha-Diago M, Peñarrocha-Diago M.

Palatal positioning of implants in severely resorbed edentulous maxillae. Int J Oral Maxillofac Implants. 2009 May-Jun;24(3):527-33. Peñarrocha M, Carrillo C, Boronat A, Balaguer J, Peñarrocha M.

Removal torque and physico-chemical characteristics of dental implants etched with hydro - fluoric and nitric acid. An experimental study in Beagle dogs Med Oral Patol Oral Cir Bucal 2006;11:E281-5. Martínez-González JM, García-Sabán F, Ferrándiz-Bernal J, Gonzalo- Lafuente JC, Cano-Sánchez J, Barona-Dorado C.

Extraction of impacted maxillary canines with simultaneous implant placement. J Oral Maxillofac Surg. 2007 Nov;65(11):2336-9. Peñarrocha M, Peñarrocha M, García-Mira B, Larrazabal C.

Evaluation of 80 implants subjected to immediate loading in edentulous mandibles after two years of follow-up. Med Oral Patol Oral Cir Bucal 2006; 11:E165-70 Martínez-González JM, Barona-Dorado C, Cano-Sánchez J, Fernández-Cáliz F, Sánchez-Turrión A.



### TSA<sup>®</sup> Advance and TSA<sup>®</sup> General characteristics

#### 4 connections

**S**5

Reference

TSA 05.085

TSA 05.100

TSA 05.115

TSA 05.130

Catalogue Implant Systems

The TSA® Advance and TSA® implant has four connections: external hex, internal hex, external cone and internal cone.

The hex connections provide the anti-rotational property to prosthetic elements fixed to the implant in the two equidistant spatial planes.

The connections of the internal and external cones direct the axial, radial and bending forces, fixing the prosthesis to the implant.







**S**3 Reference Length S4 Reference Length **S**3 TSADV 04.085 TSADV 03.085  $8.5 \mathrm{mm}$  $8.5 \mathrm{mm}$ Cone and hex TSADV 03.100 10.0 mm TSADV 04.100 10.0 mm Shoulder anodised in green 3.7 mm TSADV 03.115 TSADV 04.115 11.5 mm 11.5 mm TSA<sup>®</sup> Advance TSADV 03.130 13.0 mm TSADV 04.130 13.0 mm Machined neck TSADV 03.145 TSADV 04.145 14.5 mm 14.5 mm  $0.7 \text{ mm}^{1}$ TSADV 03.160 16.0 mm TSADV 04.160 16.0 mm Microthreads 2.5 mm **S**5 Reference S5 Short Reference Length Length Internal thread 1.6 TSADV 05.085 TSADV 05.060  $8.5 \mathrm{mm}$ 6.0 mm TSADV 05.100 TSADV 05.070 10.0 mm 7.0 mm TSADV 05.115 11.5 mm Body TSADV 05.130 13.0 mm 3.6 mm **S3 S**3 Reference Length **S4** Reference Length TSA 03.085 8.5 mm TSA 04.085 8.5 mm TSA 03.100 10.0 mm TSA 04.100 10.0 mm Shoulder TSA 03.115 TSA 04.115 3.7 mm 11.5 mm 11.5 mm TSA 03.130 13.0 mm TSA 04.130 13.0 mm TSA 04.145 TSA 03.145 14.5 mm 14.5 mm TSA® TSA 03.160 16.0 mm TSA 04.160 16.0 mm Machined neck

All TSA® Advance and TSA® are manufactured in Grade II Titanium, using cold-worked titanium bars according to standard ASTM-F67.

Length

 $8.5 \mathrm{mm}$ 

10.0 mm

11.5 mm

13.0 mm

Warning: TSA® Advance S5 Short implants cannot be inserted in single (unit) cases. Stenting is always required to improve distribution of chewing force loads. They cannot be used in immediate loading - two stage surgery being required for restoration.

Cover screw<sup>3</sup>

010.3050 010.3070

Body

3.6 mm



nent.	
	Height
	$1.5 \mathrm{~mm}$
	$3.0 \mathrm{~mm}$
	$5.0 \mathrm{~mm}$
	7.0 mm

 $1.5 \text{ mm}^2$ 

Internal thread 1.6

### Insertion recommended

TSA® Advance



Supracrestal insertion

### $TSA^{\circ}$



Crestal insertion



Supracrestal insertion

### Important: Proper use of Phibo® implant systems requires prior consultation of the surgical available at: www.phibo.com

and prosthodontic procedures







Cover screw<sup>3</sup>



Healing abutment⁴ Ret

Reference Height	
010.4015	$1.5~\mathrm{mm}$
010.4030	3.0 mm
010.4050	$5.0~\mathrm{mm}$
010.4070	7.0 mm



incuing abatment	
Reference Height	
010.5015	$1.5 \mathrm{~mm}$
010.5030	3.0 mm
010.5050	$5.0~\mathrm{mm}$

<sup>1</sup>Avantblast<sup>®</sup> treatment up to 0.7 mm of the shoulder, TSA<sup>®</sup> Advance implant.  $^{\scriptscriptstyle 2}Avantblast^{\tiny (6)}$  treatment up to 1.5 mm of the shoulder, TSA® Advance implant. <sup>3</sup>Cover screw included. Colour anodised according to series.

<sup>4</sup>Healing abutments are not colour-coded. Titanium.

# Aesthetic and immediate loading Provisional restorations with ProUnic Plus®

2 fixation screws: retaining screw and final clinical screw

	ProUnic	e Plus®		
	Series	Reference	Name	
<b>a I</b>	S3	167.3000	ProUnic Plus <sup>®</sup> Mounter.	
	S4	167.4000	Titanium.	
	S5	167.5000		
	S3	013.3000	ProUnic Plus® Abutment.	
	S4	013.4000	Titanium.	
a 1	S5	013.5000		
	S3	014.3010	ProUnic Plus® Abutment. <i>Titanium</i> .	
- 思	S4	014.4010	Transgingival 1 mm.	
	S5	014.5010	0 0	
	S3	014.3020	Transgingival 2 mm.	
	S4	014.4020		
	\$3	014 3030	Transgingival 3 mm	
	S4	014.4030	Tuniograpival o mini.	
	<b>S</b> 3	016 3100	Hoved casting cylinder	
	55 84	010.3100	Plastic	
	04 SE	010.4100	Flustic.	
-	30	016.5100		
	S3	016.3200	Non-hexed casting cylinder.	
	S4	016.4200	Plastic.	
•	S5	016.5200		
	S3	018.3000	Laboratory screw.	
	S4	018.4000	Titanium.	
	S5	018.5000		
<b>2</b> 3	S3	019.3000	Final clinical screw.	
	S4	019.4000	Titanium.	
	S5	019.5000		
9	S3	060.3000	Coping for ProUnic Plus®provisional restorations	
	S4	060.4000	Plastic.	
	S5	060.5000		
	S3	099.3000	ProUnic Plus®protective cap.	
	S4	099.4000	Plastic.	
	S5	099.5000		
• [	S3	011.3004	ProUnic Plus® hexed metal transfer.	
9	S4	011.4004	Open Cuvette Technique.	
	S5	011.5004	-F	
	S3	011 3005	ProUnic Plus® non-hexed metal transfer	
	S4	011 4005	Open Cuvette Technique	
	S5	011.5005	opon duvotto roominquo.	
		01110000		
31	S3	011.3003	ProUnic Plus® non-hexed metal transfer.	
	S4	011.4003	Closed Cuvette Technique:	
Ψ.	S5	011.5003		
2	S3	062.3000	ProUnic Plus®impression transfer.	
11 C	S4	062.4000	Plastic.	
	S5	062.5000		
A	S3	061.3000	ProUnic Plus® Analogue.	
	S4	061.4000	Titanium.	
	S5	061.5000		

### ProUnic<sup>®</sup> Plus heights, degrees and angulations

## 14º 3.3 mm **S4**

### · ProUnic<sup>®</sup> Plus AbutmentS3

- $\cdot$  Height from implant shoulder: 3.1 mm
- $\cdot$  Abutment conicity:  $5^{\circ}$
- Maximum angulation between implants: 10°
- ProUnic<sup>®</sup> Plus AbutmentS5
  - · Height from implant shoulder: 3 mm
  - · Abutment conicity: 6º
  - $\cdot$  Maximum angulation between implants:  $12^{\circ}$

### Screwed restorations

### ProUnic® ADVANCE abutment

1 fixation screw

	Series	Reference	Name
1	S3 S4 S5	052.3001 052.4001 052.5001	ProUnic® Advance abutment. Includes clinical screw. <i>Titanium.</i>
	S3	052.3110	ProUnic <sup>®</sup> Advance abutment.
	S4	052.4110	Includes clinical screw.
	S5	052.5110	<i>Titanium.</i> Transgingival 1 mm.
	S3	052.3120	Transgingival 2 mm.
	S4	052.4120	0 0
	S3	052.3130	Transgingival 3 mm.
	S4	052.4130	0 0
	S3	055.3000	ProUnic®ADVANCE clinical screw.
	S4	055.4000	Titanium.
	S5	055.5000	
	S3	055.3010	ProUnic®ADVANCE clinical screw.
	S4	055.4010	Titanium.
	S5	055.5010	Transgingival 1 mm.
	S3	055.3020	Transgingival 2 mm.
	S4	055.4020	
	S3	055.3030	Transgingival 3 mm.
	S4	055.4030	
	S3	053.3100	Hexed casting cylinder.
	S4	053.4100	Plastic.
	S5	053.5100	
	S3	053.3200	Non-hexed casting cylinder.
	S4	053.4200	Plastic.
	S5	053.5200	
1	S3	063.3000	ProUnic®Advance laboratory screw.
	S4	063.4000	Titanium.
•	S5	063.5000	
1	S3	063.3010	ProUnic®Advance laboratory screw.
	S4	063.4010	Titanium.
	S5	063.5010	Transgingival 1 mm.
	S3	063.3020	Transgingival 2 mm.
-	S4	063.4020	
	S3	063.3030	Transgingival 3 mm.
	S4	063.4030	

ProUnic<sup>®</sup> ADVANCE

#### Important:

Use specific 1.25 mm instrument, torque 35 Ncm. All the series in the ProUnic® Advance and ProUnic® family are colour-coded according to their series.

ProUnic<sup>®</sup> Plus Advance heights, degrees and angulations



#### · ProUnic<sup>®</sup> Advance Abutment S3

- · Height from implant shoulder: 2.13 mm
  - $\cdot$  Abutment conicity: 15°
- $\cdot$  Maximum angulation between implants:  $30^{\circ}$

### • ProUnic<sup>®</sup> Advance abutment S5

- · Height from implant shoulder: 2.55 mm
- Abutment conicity: 15°
- $\cdot$  Maximum angulation between implants: 30  $^{\circ}$

### Cemented restorations

Drillable abutments

Dril	lable	abutments

	Series	Reference	Name
6P	S3	038.3000*	Internal drillable abutment with no shoulder.
	S4	038.4000*	Hexed with screw.
	S5	038.5000*	Titanium.
	S3	038.3100	Casting cylinder for internal drillable abutment.
	S4	038.4100	Implant shoulder connection.
	S5	038.5100	Plastic.
R	S3	038.3005*	Hexed Abutment.
A R	S4	038.4005*	Shoulder 0.5 mm with screw. Titanium.
	S5	038.5005*	
	<b>S</b> 3	038.3015*	Shoulder 1.5 mm.
	S4	038.4015*	
	S5	038.5015*	
	<b>S</b> 3	038.3030*	Shoulder 3.0 mm
	S4	038.4030*	
18	S3	021.3115*	Angled Abutment 15º. Shoulder 0.5 mm.
1% F	S4	021.4115*	Hexed with screw. <i>Titanium</i> .
	S3	021.3125*	Angled Abutment 25º. Shoulder 0.5 mm.
eller e	<b>S</b> 4	021.4125*	5
	<b>S</b> 3	022.3115*	Angled Abutment 15º. Shoulder 1.5 mm.
	S4	022.4115*	-
	<b>S</b> 3	022.3125*	Angled Abutment 25º. Shoulder 1.5 mm.
	S4	022.4125*	-

### Overdenture restorations Locator®

	Locator®		
	Series	Reference	Name
0	S3	1755	Locator® Abutment Height 1 mm. <i>Titanium.</i>
	S4	1761	Height 1.4 mm.
No. of the second secon	S3	1756	Height 2 mm.
U	S4	1762	
	S5	1767	
	S3	1757	Height 3 mm.
	S4	1763	
	S3	1758	Height 4 mm.
	S4	1764	
	<b>S</b> 3	1759	Height 5 mm.
	S4	1765	-
<u> </u>		8519	Retention kit (2 units).
<u></u>		8540	Extended retention kit (2 units).
0		8514	Block out spacer (20 units).
		8393	Locator® tool.
<u>Î</u>		8530	Analogue (4 units).
8			'Screw inc

### Overdenture restorations

Locator®

3



Ball abutments

Locator®

### Overdenture restorations Ball abutments

	Series	Reference	Name
	S3	022.3001*	Ball abutment. Height 1 mm. <i>Titanium.</i>
JE.	S4	022.4001*	0
Din 1	S3	022.3003*	Height 3 mm.
All 1	S4	022.4003*	
U.	S3	022.3005*	Height 5 mm.
	S4	022.4005*	
(China)	S3	022.0010	Ball abutment sleeve.
			Titanium.
	S3	022.0005	Ball abutment seal.
			EPDM.

\*Important: not indicated for restorations with angulations of over  $30^{\circ}$ .

### Imprinting

#### Delayed impression transfer

	Series	Reference	Name
	S3	011.3001	Metal direct-to-platform impression transfer
Si	S4	011.4001	Closed cuvette technique:
31	S5	011.5001	-
• [	S3	011.3002	Metal direct-to-platform impression transfer
	S4	011.4002	Open cuvette technique.
(B)	S5	011.5002	
lí .	S3	011.0003	Dual-Press® abutment.
2	S4	011.0045	Abutment for impression taking.
12 U	S5	011.0045	Titanium.
0	S3	011.3150	Dual-Press® impression transfer.
<u>_</u>	S4	011.4150	Provisional and impression transfer.
1	S5	011.5100	Plastic.

#### Implant analogue

Series	Reference	Name
S3 S4 S5	012.3000 012.4000 012.5000	Implant analogue. Titanium.

### BNT<sup>®</sup> and TSH<sup>®</sup> General characteristics

#### Standardised connection

 $BNT^{\circ}$  and  $TSH^{\circ}$  implants come in various shoulder diameters with an external hex that provides the anti-rotational property to prosthetic elements fixed to the implant by the final retaining screw of the prosthesis.



S2 Reference Length S3 Reference Length BNT 03.085 8.5 mm BNT 02 100 10.0 mm BNT 02.115 11.5 mm BNT 03.100 10.0 mm Shoulder Platform and hex 3.3 mm BNT 03.115 BNT 02.130 13.0 mm 11.5 mm anodised in vellow BNT 03.130 BNT 02.145 14.5 mm 13.0 mm BNT 02.160 16.0 mm BNT 03.145 14.5 mm BNT® BNT 03.160 Machined neck 16.0 mm  $0.70 \text{ mm}^{1}$ **S4** Reference Length S5 Reference Length Microthreads BNT 04.085 BNT 05.085  $8.5 \mathrm{mm}$ 8.5 mm $2.30 \mathrm{~mm}$ BNT 04.100 10.0 mm BNT 05.100 10.0 mm Internal thread 1.8 BNT 05.115 BNT 04.115 11.5 mm 11.5 mm BNT 04.130 13.0 mm BNT 05.130 13.0 mm Body BNT 04.145 14.5 mm 3.3 mm BNT 04.160 16.0 mm **S2 S**2 Reference Length S3 Reference Length TSH 02.100 TSH 03.085 10.0 mm 8.5 mm TSH 02.115 11.5 mm TSH 03.100  $10.0 \mathrm{mm}$ Shoulder TSH 02.130 TSH 03.115 13.0 mm 11.5 mm  $3.3 \mathrm{mm}$ TSH 02.145 14.5 mm TSH 03.130 13.0 mm Hex height TSH 02.160 16.0 mm TSH 03.145 14.5 mm 1.0 mm TSH 03.160 16.0 mm TSH® **S4** Reference Length S5 Reference TSH 04.085 8.5 mm TSH 05.085 8.5 mm TSH 04.100 10.0 mm TSH 05.100 10.0 mm Internal thread 1.8 TSH 04.115 11.5 mm TSH 05.115 11.5 mm TSH 04.130 13.0 mm TSH 05.130 13.0 mm Body TSH 04.145 14.5 mm 3.3 mm TSH 04.160 16.0 mm

All BNT® and TSH® implants are manufactured in Grade II Titanium, using cold-worked titanium bars according to standard ASTM-F67.





#### Healing abutment<sup>3</sup>

Reference Height	
H10.2030	3.0 mm
H10.2050	$5.0~\mathrm{mm}$
H10.2070	7.0 mm

### Insertion recommended

**BNT**<sup>®</sup>



 $\mathrm{TSH}^{\circ}$ 

Supracrestal insertion

Crestal insertion

Important: Proper use of Phibo® implant systems requires prior consultation of the surgical and prosthodontic procedures available at: www.phibo.com



<sup>1</sup>Avantblast<sup>®</sup> treatment up to 0.7 mm of the shoulder, BNT<sup>®</sup> implant. <sup>2</sup>Cover screw included. Anodised in colour according to their series (BNT<sup>®</sup>). <sup>3</sup>Healing abutments are not colour-coded. Titanium.

### Screwed restorations

	Series	Reference	Dimensions	Name
	S2	H38.2001		Hexed casting cylinder.
	S3 S4	H38.3401		Plastic.
	<b>S</b> 5	H38.5001		
	S2	H38.2002		Non-hexed casting cylinder.
	S3 S4	H38.3402		Plastic.
	S5	H38.5002		
	S2	H18.2000	M1.8	Laboratory screw.
Linna -	S3 S4 S	S5 H18.3450	M2.0	Titanium.
	<b>S</b> 2	H19.2000	M1.8	Final clinical screw
مرسستان	S3 S4 S	<b>55</b> H19.3450	M2.0	Titanium.

### Aesthetic and immediate loading

-	<b>S</b> 2	H40.2001	Provisional coping.
	S3 S4	H40.3401	Titanium.
	S5	H40.5001	
<u>E</u>			
	S2	H40.2002	Non-hexed abutment
	S3 S4	H40.3402	Titanium.
	S5	H40.5002	
	S2	H39.2001	Provisional coping.
	S3 S4	H39.3401	Plastic.
	S5	H39.5001	
	S2	H39.2002	Non-hexed abutment
	S3 S4	H39.3402	Plastic.
	S5	H39.5002	

### Cemented restorations

	Series	Reference	Name
IF.	<b>S</b> 2	H20.2020	Hexed drillable abutment
	S3 S4	H20.3420	with shoulder 2.0 mm
(1))	S5	H20.5020	Titanium.
12	S2	H20.2040	Hexed drillable abutment
	S3 S4	H20.3440	with shoulder 4.0 mm
	S5	H20.5040	Titanium.
Alt -	S3 S4	H23.3415*	Angled Abutment 15º. Shoulder 0.5 mm. Hexed with screw.
			Dimensions: M2.0 <i>Titanium</i> .
41.	S3 S4	H23.3425*	Angled Abutment 25º. Shoulder 0.5 mm.
			Hexed with screw.
			Dimensions: M2.0 <i>Titanium.</i>
	S3 S4	H22.3415*	Angled Abutment 15º. Shoulder 1.5 mm.
			Titanium.
	S3 S4	H22.3425*	Angled Abutment 25º. Shoulder 1.5 mm. <i>Titanium.</i>

\*Screw included.

### Overdenture restorations

	Series	Reference	Name	
ίπ.	S3 S4	H22.3402*	Ball abı Height:	itment. <i>Titanium.</i> 2.0 mm.
1	S3 S4	H22.3404*	Height:	4.0 mm.
Gile	S3 S4	022.0010	Ball abı <i>Titaniu</i>	itment metal sleeve. <i>m.</i>
0	S3 S4	022.0005	Ball abı <i>EPDM.</i>	itment seal.
Locator®				
0	S2	1916	Locate	or® abutment Height: 1 mm <i>Titanium</i> .
	S3 S4	1942	TT- :- l	h. 0
8	54	1917	Heigh	lt: 2 mm.
0	S5	1922		
	S3	1918	Heigh	it: 3 mm.
	<b>S3 S</b> 4	1944	U	
	S5	1923		
	S2	1919	Heigh	it: 4 mm.
	S3 S4	1945	Haiah	4. F
	52 S3 S4	1920	пеідп	II: 5 IIIII.
		8519	Reten	tion kit (2 units).
		8540	Exten	ded retention kit (2 units).
0		8514	Block	out spacer (20 units).
=====		8393	Locat	or® tool.
3		8530	Analo	ogue (4 units).
3		8505	Impri	nting (4 units).
1		8517	Angu	lated post (4 units).
•		9530	Angu	lation guide.
tar ar lan ar lan ar lan ar lan ar lan	Locato	or® is a registered	trademark of Zest An	chors, Inc.
Imprinting				
	Series	Reference	Dimensions	Name
91	<b>S2</b>	H11.2001		Impression transfer.
	S3 S4 S5	H11.3401 H11.5001		metal direct-to-platform impressio <i>Closed cuvette technique:</i>
<b>A</b> [	S2	H11.2002		Impression transfer.
8	<b>S3 S4</b> S5	H11.3402 H11.5002		metal direct-to-platform impressio Open cuvette technique.
#2	S2	H12.2000	M1.8	Implant analogue.

**S**5

H12.5000

S3 S4 H12.3400

M2.0

M2.0

Titanium.

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### Phibo<sup>®</sup> CAD-CAM Unique solutions for unique patients.

This business unit focuses on providing customised solutions in response to the needs of each patient.

Phibo® CAD-CAM upholds the company's strong dedication to innovation. The synergy of our implantology knowledge and our CAD-CAM-based technology solutions allows us to offer a portfolio of exclusive and innovative products and services in our wide range of materials and solutions.

Phibo<sup>®</sup> gives professionals involved in the prosthetic process digital tools for treatments with a high aesthetic and cosmetic component capable of satisfying the most demanding patients.

The benefits of Phibo<sup>®</sup> CAD-CAM technology at the service of the specific needs of each patient: unique solutions for unique patients.



A specific solution for each case. Because each patient is unique.

### 1.

A personalised solution for each restoration

**2.** All types of materials.

3.

Biocompatible and bioinert.

### 4.

The perfect fit that provides greater reliability, predictability and profitability.

5.

Designed individually according to the needs of each patient.

### **6**.

The best guarantee.

### Benefits of Phibo® CAD-CAM



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### **Customised restorations**



# Instruments

### Surgical tray







171.0600

Reference

171.0400

Prosthetic Kit

Name

TSA® Advance and BNT® Surgical and Prosthetic Kit

TSA® Advance and TSH® Surgical and Prosthetic Kit

### Surgical and prosthodontic instruments 1.25

	Surgical	instrumer	nts	
	Series	Referenc	е	Name
	S3 S4	150.0003 150.0004		Circular scalpel Stainless steel
	S5	150.0005	i	
H. 1		173.0000	)	Drill Extender
	Mechani	cal inserti	ion	
	Referenc	е	Name	
e	173.0100	)	Contra-a Connect	ngle hex adapter, short. ion: implant mounter. <i>Stainless steel</i>
	173.0300		Contra-a	ngle hex adapter, long.
			Connect	ion: implant mounter. <i>Stainless steel</i>
0	173.1251		Contra-a	ngle hex driver, short.
			Connect	ion: 1.25 mm. <i>Stainless steel</i>
	173.1252		Contra-a	ngle hex driver, medium.
			Connect	ion: 1.25 mm. <i>Stainless steel</i>
	Manual i	nsertion		
	Referenc	е	Name	
5 18	172.0000	)	Dynamo	metric wrench.
C S E			Stainles	s steel
4	172.0001		Open en	d wrench.
			Titaniun	1.
01	172.0100		Ratchet a	adapter, short - to mounter.
			Connect	ion: implant mounter. <i>Titanium.</i>
	172.0300		Ratchet a	adapter, long - to mounter.
			Connect	ion: implant mounter. <i>Titanium.</i>

### Surgical and prosthodontic instruments 1.25

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174.1251	Manual hex driver, short.
	Connection: 1.25 mm. Stainless steel
174.1252	Manual hex driver, medium.
	Connection: 1.25 mm. Stainless steel
174.1253	Manual hex driver, long.
	Connection: 1.25 mm. Stainless steel
 172.1251	Hex tool, short - to wrench.
	Connection: 1.25 mm. Stainless steel
179 1959	How tool modium to wrough
1/2.1232	nex tool, meatum - to wrench.
	Connection: 1.25 mm. Stainless steel

Surgical and prosthodontic instrument 1.25

Name

Reference

#### Prosthodontic instrumentation 1.0 | Aesthetic abutments

	Reference	Name
AN	174.1001	Manual hex driver, short.
66-		Connection: 1.0 mm. Stainless steel
	174.1002	Manual hex driver, medium.
		Connection: 1.0 mm. Stainless steel
0.1	172.1001	Hex tool, short - to wrench.
Q		Connection: 1.0 mm. Stainless steel
	172.1002	Hex tool, medium - to wrench.
		Connection: 1.0 mm. Stainless steel
62	173.1001	Contra-angle hex driver, short.
		Connection: 1.0 mm. Stainless steel
	173.1002	Contra-angle hex driver, medium.
		Connection: 1.0 mm. <i>Stainless steel</i>

More information on surgical and prosthetic procedures available at: www.phibo.com

# Implant systems for **all solutions**







Phibo<sup>®</sup> Headquarters

P. I. Mas d'en Cisa Gato Pérez, 3-9 08181 Sentmenat Barcelona | Spain T +34 937 151 978 F +34 937 153 997 info@phibo.com



**Phibo® Benelux** Hal Trade Center

Hal Trade Center Bevelandseweg 20 1703 AZ Heerhugowaard Nederland T +31 (0) 652883760 info.benelux@phibo.com

#### Phibo® Middle East North Africa

Dubai Airport Free Zone Office 5WA 226 Dubai | United Arab Emirates T +971 528 350 676 Info.emirates@phibo.com

#### Phibo<sup>®</sup> Deutschland

Schwanheimer Str. 157 64625 Bensheim Deutschland T +49 1726024671 info.germany@phibo.com

### Phibo<sup>®</sup> Portugal

P. D. Nuno Alvares Pereira nº 20, Fracção BC 4450-218 Matosinhos | Portugal T +351 22 099 56 00 F +351 22 099 56 69 info.portugal@phibo.com

#### Phibo® Italy Via Galileo Galilei, 47 20092 Cinisello Balsamo Milano | Italy T +39 02 66594857 F +39 02 6122682 info.italy@phibo.com

**Phibo<sup>®</sup> Colombia** T +34 607561742 info.colombia@phibo.com

**Phibo<sup>®</sup> France** T + 33 625365933 info.france@phibo.com CATSISTIMPEN\_rev001