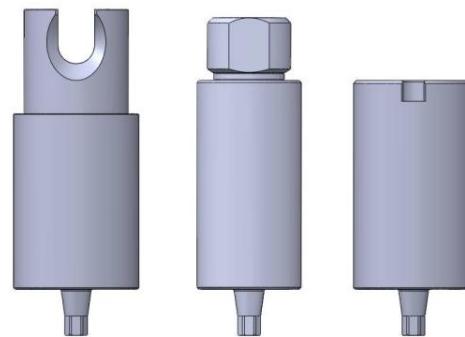


**The Pre Milled Abutment are intended for specialized procedures, which must be performed by qualified professionals. The use of the product and surgical techniques are inherent to the professional's training. The use of the product must be performed in a surgical environment and in proper conditions for the health and safety of the patient.**



### PRODUCT DESCRIPTION

It consists of a cylindrical Abutment made of titanium grade V with connection according to the implant platform to be used together, it has an internal perforation to access the prosthesis fixation screw. They are made available to the professional in NON-STERILE form. Supplied with grade V titanium screw.

The chemical composition of the Dental Components is according to ASTM F136:

Chemical Element	Composition % (mass/mass)
Nitrogen	≤ 0.05
Carbon	≤ 0.08
Hydrogen	≤ 0.012
Iron	≤ 0.25
Oxygen	≤ 0.13
Aluminum	5.5 - 6.5
Vanadium	3.5 - 4.5
Titanium	Balance

### INDICATIONS OF USE

Indicated for making dental prostheses on implants, they have the function of serving as an intermediary that makes the connection between the osseointegrated implant and the dental prosthesis.

### PURPOSE AND OPERATION PRINCIPLE

Its purpose is to form a set with the implant and thus transmit the chewing forces to the bone board. They are based on the mechanical principles of assembling the load transmission system. The Pre Milled Abutment is used for making dental prostheses unitary, cemented or screwed by the CAD-CAM system.

## HOW TO USE THE COMPONENT

1. Selection of the component to be used in relation to height x diameter;
2. Registration of the three-dimensional position of the implant through digital transfer scanning technique for CAD-CAM system;
3. Finalization of the prosthesis on the analog installed in the CAD-CAM system, using the component of your choice;
4. Fixation of the prosthesis through the cement of your choice or through screw and adequate torque.

### ATTENTION

The Pre Milled Abutment are intended for expert procedures, which must be performed by qualified professionals in implant dentistry. The product must be used in a surgical environment and in proper conditions for the health and safety of the patient.

## PRECAUTIONS

Consider the general state of health of the patient, he must undergo a thorough clinical analysis. Failure to perform the pre-surgical evaluation may result in the impossibility of finding pre-existing diseases. Patients who have local or systemic factors that may interfere with the soft tissue healing processes should receive special attention. The Pre Milled Abutment must be sterilized before use, prepare the environment with a sterile surgical drape, subject the patient to a good oral asepsis, prevent the product from touching non-sterile objects at the time of application, in order to minimize contamination risks. Only handle the material in a sterile field. All material used in the procedure must be sterile. During the surgical and prosthetic procedure, use only implants, components and instruments specified by S.I.N., they have specific dimensions and tolerances for each implant system ensuring the longevity of the product. Components of other brands or adapted for implant models can reduce the life of the system causing irreversible damage. If a correct diameter is not used, irritation of the soft tissue may occur. The platform of the Pre Milled Abutment that adapts to the implant must not be altered in any way. The professional should ensure that the product is not aspirated by the patient. It is the professional's responsibility to use S.I.N. in accordance with the instructions for use, as well as determining whether it suits the individual situation of each patient. The patient should be informed about all possible surgical complications, contraindications, warnings, precautions and adverse reactions. All documentation accompanying the product must also be made available to the customer. The professional must inform the patient about the correct form of cleaning, the need for regular monitoring, avoiding physical and mechanical tensions and not subjecting the product to inappropriate efforts.

## RECOMMENDATIONS

For the placement of Pre Milled Abutment, it is recommended that the professional has a specialization course in the area and prepare a prosthetic execution plan. Inadequate planning and/or lack of occlusal adjustment can compromise the performance of the implant/prosthesis set resulting in system failures, such as implant loss or fracture, loosening or fracture of the prosthetic screws. The implant diameter and angulation, as well as gingival height, must be taken into account when choosing the Pre Milled Abutment to be used. The S.I.N. does not recommend installing the implant in patients with inadequate oral hygiene, uncooperative and unmotivated patient, with abuse of drugs or alcohol, psychosis, chemical dependency,

prolonged functional disorders that resist any drug treatment, xerostomia, low immune system, diseases that require the use of steroids regularly, endocrinological diseases, drug allergies, diabetes mellitus, anticoagulant medications/hemorrhagic diathesis, bruxism, other parafunctional habits, tobacco abuse, installation in children and pregnant women and during the breastfeeding period.

## **CONTRAINDICATIONS**

The use of Pre Milled Abutment is contraindicated in cases of chronic periodontal inflammation, a patient not prepared to undergo oral rehabilitation, inappropriate parafunctional habits, for example bruxism, untreatable occlusion/joint problems, active intraoral infection and in the case of immediate loading, primary implant stability inadequate.

## **SIDE EFFECTS**

The installation recommendations must be followed for the proper functioning of the product, if not, the final result can be compromised generating, loss or fracture of the part. The product can cause transient side effects due to compression of peri-implant tissues such as, slight bleeding, edema, pain, discomfort or even infection in case of breaking aseptic barrier.

## **WARNING**

The implants must receive components with compatible geometry, or specific components for the technique switching platform and installation indication. Compatible only with S.I.N.. The product is for single use and cannot be re-sterilized and/or reused. The reuse or re sterilization of this product may cause contagious infectious disease, deformation and wear of the product.

## **TRACEABILITY**

All S.I.N. products have sequential lots that allow traceability, which promotes greater safety for the professional qualified to the procedure. Through this batch number, it is possible to know the entire history of the product from the manufacturing process to the distribution time. The components are available with three (3) way traceability labels.

## **STORAGE**

The S.I.N. medical device should be stored in a cool dry place at a temperature of 15°C to 35°C and protected from direct sunlight in their original unopened packaging and should not be damaged.

## **HANDLING**

Once sterilized, the Pre Milled Abutment should only be handled in a sterile environment by professionals with proper attire and in appropriate clothing at the time of the surgical procedure.

## DISPOSAL DE MATERIAL

The disposal of materials should comply with local hospital regulations and applicable local laws.

## TRANSPORTATION

Pre Milled Abutment must be transported adequately to avoid falling and stored under a maximum temperature of 35°C, protected from heat and moisture. Carriage must be carried out in its original packaging.

## COMPLEMENTARY INFORMATION

Magnetic Resonance Imaging (MRI): Non-clinical testing and in vitro electromagnetic simulations demonstrated that the S.I.N. devices are MR Conditional.

**CAUTION:** Patient imaging can only be obtained by delimiting at least 30cm from the implant or ensuring that the implant is located outside the radiofrequency coil.

A patient with this device can be safely scanned on an MRI system under the following conditions:

<b>Device Name</b>	S.I.N. Implant System
<b>Static Magnetic Field Strength (B0)</b>	≤ 3.0 T
<b>Maximum Spatial Field Gradient</b>	50 T/m (5.00 gauss/cm)
<b>RF Excitation</b>	Circularly Polarized (CP)
<b>RF Transmit Coil Type</b>	Head coil and body coil permitted. Extremity T/R coils permitted.
<b>Operating Mode</b>	Normal Operating Mode in the allowed imaging zone
<b>Maximum Whole-Body SAR</b>	2.4 W/kg (15 minutes of scanning, Normal Operating Mode)
<b>Maximum Head SAR</b>	2.0 W/kg (15 minutes of scanning, Normal Operating Mode)
<b>Scan Duration</b>	15 minutes.
<b>Temperature Rise</b>	Maximum temperature rise of 0.45 °C/(W/kg), after 15 minutes of continuous scanning in a static magnetic field of 3 T with either head type or body type coils
<b>Artifact</b>	When imaged using a gradient-echo sequence and a 3 T MR system, image artifact can extend up to approximately 12 mm with a body coil type, and up to approximately 32 mm with a head coil type

Exclusive Product for Dental use. Reprocessing not allowed. Any serious incident that has occurred in relation to the device should be reported to the manufacturer and competent authority of the country in which the dentist and/or patient is established. If you need the printed version of this instruction for use or a copy of the safety and clinical performance summary (SSCP), at no cost, please request it by email to [sin@sinimplantsystem.com](mailto:sin@sinimplantsystem.com) or call 0800 770 8290 and you will receive it within 7 calendar days.

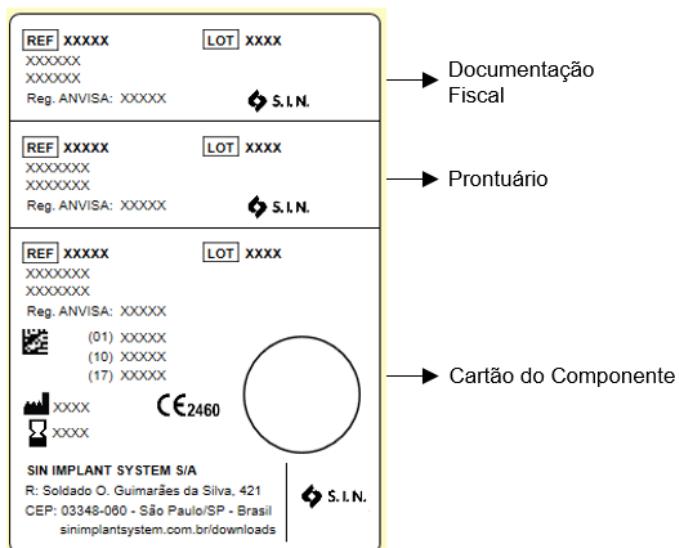
## **TRACEABILITY LABELS**

The Pre Milled Abutment are available from S.I.N. with 3 (three) labels containing product information. The labels must be used as follows:

**Tax Documentation Label:** The dental surgeon must stick a label on the implant's tax documentation.

**Medical Record Label:** The dental surgeon must paste a label in the patient's medical record in order to maintain traceability of the products used.

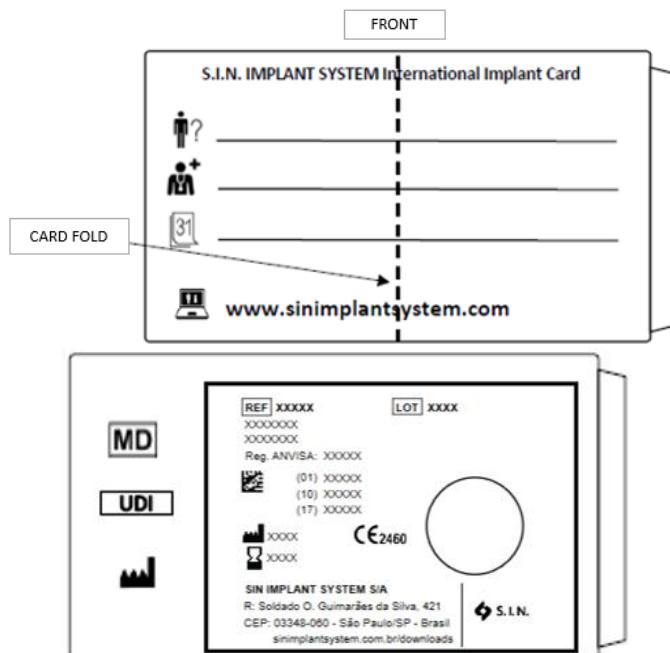
**Label of Component Card:** The dental surgeon should attach a label to the component card to inform which products were used.



\*Imagem meramente ilustrativa

## COMPONENT CARD

The Pre Milled Abutment are provided by S.I.N. with an component card. This card must be given to the patient, who must be instructed on how to keep and preserve this information.



\*Imagem meramente ilustrativa

## STERILIZATION

Product provided non-sterile. It must be sterilized in autoclave before use.

1. The product must be enclosed in a steam sterilizable wrap;
2. Steam sterilize in cycles to 121°C at 1 ATM pressure for 30 minutes or to 134°C at 2 ATM pressure for 20 minutes. Drying time 30 minutes;
3. Always accommodate the product in autoclave over a plane surface and away of device walls;
4. Never stack objects or other products;

## **RECOMMENDATIONS**

- a. Sterilize the products in the same day or one day earlier the procedure;
- b. The chemical sterilization is not recommended once some products may cause damages to the product;
- c. Do not use temperature higher than 60°C to drying process;
- d. Do not use dry heat stoves for sterilization of the prosthetic components from S.I.N.

	NÃO ESTÉRIL	NON-ESTERILE	NO ESTÉRIL
	NÃO REUTILIZAR	DO NOT REUSE	NO LO REUTILICE
	CONSULTAR AS INSTRUÇÕES DE USO	CONSULT INSTRUCTIONS FOR USE	CONSULTE LAS INSTRUCCIONES DE USO
	MARCAÇÃO CE	CE MARK	MARCA CE
	MANTENHA SECO	KEEP DRY	MANTÉNGALO SECO
	MANTENHA AO ABRIGO DO SOL	KEEP AWAY FROM SUNLIGHT	MANTÉNGALO LEJOS DE LA LUZ SOLAR
	NÃO UTILIZAR SE A EMBALAGEM ESTIVER VIOLADA	DO NOT USE IF PACKAGE IS DAMAGED	NO LO UTILICE SI EL ENVOLTORIO ESTÁ DAÑADO
	NÃO REESTERILIZE	DO NOT RESTERILIZE	NO LO REESTERILIZAR
	ATENÇÃO	CAUTION	PRECAUCIÓN
<b>EU REP</b>	REPRESENTANTE AUTORIZADO NA COMUNIDADE EUROPEIA	AUTHORIZED REPRESENTATIVE IN THE EUROPEAN COMMUNITY	REPRESENTANTE AUTORIZADO EN LA COMUNIDAD EUROPEA
	LIMITE DE TEMPERATURA	TEMPERATURE LIMIT	LÍMITE DE TEMPERATURA
<b>Rx only</b>	ATENÇÃO: A LEI FEDERAL (EUA) LIMITA A VENDA DESTE DISPOSITIVO POR OU POR ORDEM DE UM PROFISSIONAL DE SAÚDE LICENCIADO.	CAUTION: FEDERAL LAW (USA) RESTRICTS THIS DEVICE TO SALE BY OR ON THE ORDER OF A LICENSED HEALTHCARE PRACTITIONER.	PRECAUCIÓN: LAS LEYES FEDERALES (USA) RESTRINGEN LA VENTA DE ESTE DISPOSITIVO POR O EN EL ORDEN DE UN PROFESIONAL DE LA SALUD LICENCIADO.
	FABRICANTE	MANUFACTURER	FABRICANTE
	DATA DE FABRICAÇÃO	DATE OF MANUFACTURE	FECHA DE FABRICACIÓN
	VALIDADE	USE-BY DATE	VALIDEZ
<b>REF</b>	CÓDIGO DE REFERÊNCIA	REFERENCE CODE	CÓDIGO DE REFERÊNCIA
<b>MD</b>	DISPOSITIVO MÉDICO	MEDICAL DEVICE	DISPOSITIVO MEDICO
<b>UDI</b>	IDENTIFICADOR ÚNICO DO DISPOSITIVO	UNIQUE DEVICE IDENTIFIER	IDENTIFICADOR DE DISPOSITIVO ÚNICO
	IMPORTADOR	IMPORTER	IMPORTADOR
	DISTRIBUIDOR	DESTRIBUIDOR	DISTRIBUIDOR
	PAÍS DE FABRICAÇÃO	COUNTRY OF MANUFACTURE	PAÍS DE FABRICACIÓN
<b>LOT</b>	LOTE	BATCH CODE	LOTE

	EMBALAGEM RECICLÁVEL	RECYCABLE PACKAGING	EMBALAJE RECICABLE
	MR CONDICIONAL	MR CONDITIONAL	MR CONDICIONAL
	DATA DA IMPLANTAÇÃO	DATE OF IMPLANTATION	FECHA DE APLICACIÓN
	NOME E ENDEREÇO DA INSTITUIÇÃO	NAME AND ADDRESS OF THE IMPLANTING HEALTHCARE INSTITUTION	NOMBRE Y DIRECCIÓN DE LA INSTITUCIÓN
	NOME DO PACIENTE OU IDENTIFICAÇÃO DO PACIENTE	PATIENT NAME OR PATIENT ID	NOMBRE DEL PACIENTE O IDENTIFICACIÓN DEL PACIENTE
	SITE DE INFORMAÇÕES PARA OS PACIENTES	INFORMATION WEBSITE FOR PATIENTS	PÁGINA WEB DE INFORMACIÓN AL PACIENTE

**MANUFACTURER****S.I.N. Implant System LTDA.**

CNPJ [Corporate Taxpayer's Registry]: 04.298.106/0001-74

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Alessio Di Risio

CREA-SP: 5061207169

**PRODUCT**

Pre Milled Abutment