

These usage instructions should be read before using the implants and materials supplied by IMPLANT MICRODENT SYSTEM S.L. as they contain essential information to avoid misuse.

The descriptions below have been written for implant professionals. Therefore, we recommend they receive instructions from an expert professional in the fields, who has received adequate information. Implant Microdent System S.L. offers regular training courses on the use of their products. The user must ensure that the selected product is suitable for the planned purposes and procedures.

### INTENDED USE

The zirconium abutment is a set whose function is to hold together the implant, provide support for the development of prosthetic rehabilitation Required by the patient and be visually aesthetic. Zirconium post allows the realization of cement-prosthesis screwed. The rehabilitation may be single or multiple.

### DESCRIPTION (ZIRCONIUM IMPLANT ABUTMENTS)

Implant Microdent System S.L. developed for each of their implant systems, various prosthetic solutions to meet the particular needs of the patients. This is followed by a description of prosthetic implant abutments that have been specially designed for the preparation of provisional removable prosthesis. The zirconium abutment comprises Domo post, the pillar of zirconium and remains attached to the implant using the retaining screw to Domo. For an adequate selection of our products, please consult the published product catalogs or our website.

#### Pillars for cement-screw prosthesis (Zirconium abutments).

Zirconium abutments have two different models, aesthetic and standards.

**Clinical indication:** Indicate for cemented or cement-screw single. Zirconium abutments present different geometries and heights depending on the group transmucosal dental rehabilitation and patient needs. Also available in angled version.

**Delivery:** Zirconium abutments are supplied accompanied by Domo pillar and the appropriate prosthetic retention screw.

**Material:** Zirconium abutments are made in zirconium oxide according to standard ISO 6872 and Domo pillars are made in titanium grade 5 according to ISO 5832-3.

#### Method of application:

- **Aesthetic zirconium abutments** require Domo pillar will be cemented to Zirconium abutment in clinic.

- **Standard zirconium abutments** provides the abutment cemented to Domo pillar.

After carving and abutment preparation (if necessary) by the dental laboratory, proceed to the pillar insertion over the implant, ensuring the correct positioning relative to the platform of the implant. The implant abutment connection to be made through the Domo retention screw, this requires the use of a hex wrench (hex 1.20 mm). We recommend a 30Ncm torque for fixing screws. Once Zirconium abutment is fixed to implant, prosthetic rehabilitation cementation can take place.

These pillars are not charged directly to the ceramics, because high oven temperatures would make losing the cemented properties of the abutment.

**Precautions:** Implant platform should be clean from tissue or bones rests which may prevent the proper seating of the abutment on the implant. Before inserting the pillar you should clean the threads of the implant by a corresponding Microdent internal thread cleaner.

#### Domo post.

**Clinical indication:** Domo post are abutments to connect the rehabilitation made in zirconium, whether single or multiple, to the implant. Using this connector ensures optimal precision level and prosthetic connection facilitates achieving a passive fit of rehabilitation.

The Domo post presents its prosthetic connection, particularized for each implant system, rotational and anti-rotational version.

There are Domo post short and long versions. The long versions of Domo post are indicated especially for rehabilitation designed by the dental laboratory.

**Delivery:** Domo post are supplied together with the corresponding Domo screw.

**Material:** Domo post are made in titanium grade 5 according to ISO 5832-3.

**Method of application:** Insert the Domo post on the implant, or analog of laboratory model, ensuring proper seating between the two elements platform and proceed to its junction with the Domo screw. After proper union proceed cemented of rehabilitation.

**Precautions:** Implant platform should be clean from tissue or bones rests which may prevent the proper seating of the Domo post on the implant.

#### Retention screw for Domo post.

**Clinical indication:** Indicate for union between the prosthetic abutments and the implant.

**Material:** Domo retention screws are made in titanium grade 5 according to ISO 5832-3.

**Method of application:** For screwing it, it is required the use of a hex wrench (hex 1.20 mm), recommending 30Ncm as maximum torque. We recommend using wrench with calibrated torque to avoid exceeding this value and the possibility of damaging the item you're manipulating.

**Precautions:** Before inserting the pillar you should clean the threads of the implant by a corresponding Microdent internal thread cleaner.

### PRESENTATION OF IMPLANT ABUTMENTS

#### Packaging

Implant Microdent System S.L. ensures that all prosthetic abutments follow a manufacturing process, control and extreme cleaning before being packaged.

Implant abutments are packed in blister. The product contained will be identified in two identical labels, one in the back of the blister and the other in the box housing the blister.

To make the proper monitoring of the required traceability of these products, the label must be adhered or this data must be transcribed to patient records.

#### Abutments supply state.

Implant abutments are not sterile. Before placing then, abutments must be sterilized, at customer sites.

For the correct sterilization of the product you should follow the following steps:

- Removing the product from the packaging supplied. This package does not allow the proper sterilization of the product contained.

- Enter the product in a container or bag suitable for sterilization and to ensure no contamination until its use.

We recommend the process of steam sterilization by autoclaving. Please observe the peculiarities of computer you have. The parameters recommended by UNE-EN ISO 17665-1 and EN ISO 17665-2 are:

- Temperature: 134 ° C

- Cycle of sterile: 3'

### LABELLING SYMBOLS

Product label shows the following indications:



Single use only.



Reference Number.



Please follow the instructions for use.



Lot number.



Precaution, consult the warnings.



Manufacturer.

## CONTRAINDICATIONS

None known.

## TEMPORALY SIDE EFFECTS,

Prosthetic rehabilitation treatment can cause pain, swelling, and difficulty speaking.

It is the responsibility of the user, communication with patients of possible complications that may arise. Before any symptoms or discomfort the patient must go to consulting your practitioner.

## WARNINGS AND PRECAUTIONS

The implant abutments are part of an overall design concept, having adequate use with implants manufactured by Implant Microdent System S.L., therefore, the combination of Microdent abutments with others outside the mark can cause no optimal operation of these products.

Products should be used only for the purpose for which they were specified.

We warn you about the risk of toxicity and allergenicity for patients sensitive to the materials described under "DESCRIPTION OF IMPLANTS ABUTMENTS".

Before surgery is the responsibility of the professional user to check:

- The state of the abutment packaging and if it matches the required product for the patient.
- The state of the abutment it-self to verify that it is optimal.

Implant Microdent System S.L. recommends you should have substitute products.

In general, during the oral use of our products the user must take precautions to prevent its aspiration by the patient.

When the abutment has come into contact with pollutants, especially blood and saliva, it should not be reused for not having the full assurance of its removal, even cleaned and sterilized, since the transmission of these contaminants can cause illnesses such as AIDS, hepatitis, STDs.

Another reason for the abutment would not reuse any geometry damage by improper use.

For the handling of the pillars used special zirconium rotating elements, preferably with irrigation.

## LIABILITY, SAFETY AND WARRANTY

If due to transportation, packaging and product content was damaged, Microdent Implant System S.L. shall return it at no charge.

Evidence of product handling disclaims liability indicated above.

The guarantee will apply to abutments Microdent Implant System S.L. provided they have been used following the instructions indicated.

For a refund of the products that mention these instructions should follow the guidelines established in our conditions of sale and delivery.



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