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## DSI Miniscrew (TAD) Temporary Anchorage Device

# Orthodontic Miniscrew










## INSTRUCTIONS FOR USE

Miniscrews are devices installed by a simplified surgical procedure, through the gum with topical or infiltrative anaesthesia, temporarily fixed to the maxillary or mandibular bone, with the purpose of:



- Create stable anchorage points;
- Allow the application of continuous forces;
- Substitute the traditional anchorage systems, or those requiring the patient collaboration, also enabling the performance of more complex orthodontic movements with accurately and in shorter time.

### Mini Screw Ø 1.5 mm

Type	Transmucosal Margin	Blade length	CODE
	1.0 mm	6.0 mm	DMS10101
	1.0 mm	8.0 mm	DMS10102
	2.0 mm	6.0 mm	DMS10201
	2.0 mm	8.0 mm	DMS10202
	2.0 mm	10.0 mm	DMS10203
	2.0 mm	12.0 mm	DMS10204
	2.0 mm	14.0 mm	DMS10205

The Orthodontic Miniscrew with Bracket Head is commercialized with installation threads with Clockwise insertion with anchoring of accessories in the 0.021 “x0.025” slots.

### Mini Screw Ø 1.5 mm with Bracket Head

Type	Transmucosal Margin	Blade length	CODE
	1.0 mm	6.0 mm	DMS10241
	1.0 mm	8.0 mm	DMS10242

#### INDICATION OF USE:

The most common clinical applications are:

- Molar verticalization;
- Teeth intrusion;
- Mesialization;
- Teeth traction;
- Treatment of occlusal plane inclination;
- Mass retraction of anterior-superior and inferior dental elements.

Miniscrews are preferably recommended for patients under the following conditions:

- Non-cooperative;
- With reduced number of dental elements;
- In need of maximum anchorage;
- In need of complex movements, if traditional anchorage methods are applied.

#### INSTALLATION AND REMOVAL:

For installation and removal, appropriate tools designed specifically for this application must be used.



The “Toolkit”\* (REF. DMS20001) is composed of Hand Key with interchangeable tips that attach to the hexagonal portion of the miniscrew head, allowing its properly installation or removal.

The interchangeable tips, besides allowing assembly in Hand Key, have a standard fitting for the installation of the miniscrew with the use of surgical contra-angle.

#### **INSERTION LOCATION SELECTION:**

Insertion sites include maxillary tuberosities, the area below the anterior nasal portion (only adults over the age of 21 years) mandibular vestibular portion, mandibular retromolar area, mandibular symphysis (only adults over the age of 21 years), vestibular / lingual interradial areas Mandibular or maxillary ridges, edentulous mandibular or maxillary crests, palatal or sagittal midline of the hard palate (only adults over the age of 21 years) and anterior palate (observe screw length limitation).

#### **CONTRAINDICATIONS:**

Patients who are candidates for the installation of miniscrews should undergo an anamnesis to verify possible contraindications to the use of this anchoring method. Patients with systemic diseases such as type 1 diabetes, anemia, weakened immune systems, local and systemic bone disorders, patients undergoing radiotherapy, poor oral hygiene, and pregnant patients should be carefully evaluated because of the stress involved and the possibility of gingivitis. In the presence of any of these conditions, a medical check-up accompanied by the orthodontist is necessary to make sure that all the implications are understood.

#### **SIDE EFFECTS:**

It is the responsibility of the qualified professional to identify any possibility of risk of harm and / or contraindication that may arise during treatment, communicate to the patient the possibility of any unwanted side effect.

During treatment, unwanted side effects may include: patient may complain of pain and inflammation, hypersensitivity (allergic reaction). Poor bone formation or infection leading to loosening and loss of stability of the Miniscrew.

This surgical procedure can not only cause the side effects and complications mentioned, but also problems such as nerve damage, infections, pain that are not necessarily caused by the implant.

**COMPOSITION** / Information of components: Grade 23 Titanium Alloy.

**EXPIRY DATE:** 5 years.

#### **WARNINGS:**

- Open the sterilized envelope only when installing the Miniscrew, in order to guarantee the sterilization until the moment of its use.
- Do not use the Miniscrew if it is with validity expired or violated envelope.
- Do not subject the Miniscrew to forces greater than 300gf.
- Do not exceed the maximum torque of 25N.cm during installation. Literatures report that fractures can occur due to flexion efforts during application. It is up to the practitioner to decide on the removal of the implant fragment or to install another Miniscrew.
- In case of immediate loading in this device, the application must be made perpendicular to the long axis of the Miniscrew.
- Use a drill up to Ø 1 mm for pre-drilling.
- Keep the minimum distance of 1mm between the dental root and the Miniscrew.
- Observe the installation direction of the miniscrew to avoid unscrewing during mechanical application with orthodontic wires.

- This product hasn't been evaluated for compatibility and safety in Magnetic Resonance environment, the patient should be advised of this condition.
- DO NOT RESTERILIZE THE MINISCREW.
- NON-REUSABLE PRODUCT, Sterility, the required cleaning and the mechanical strength of the device is not guaranteed in case of reuse.
- DO NOT USE the product if its packaging has been violated, in order to minimize possible dangers related to the transmission of microorganisms or possible falsification of products.
- Product are shipped STERILE and intended for single use prior to the expiration date (see packaging label). Again, sterility is assured unless the container or seal is damaged or opened. Because it is used invasively in the human body can present risks associated with its use, so its sterility must be guaranteed.

It is up to the qualified professional to guide the patient about correct oral hygiene, to avoid the appearance of plaque or diseases such as gingivitis, periodontitis or even endocarditis.

Considering that the product is used in contact with mucous membranes and body fluids, it is recommended to the professional to apply the sanitary norms applicable for the disposal of medical products according to current sanitary regulations.

**ATTENTION:**

DSI is not responsible for the results obtained by applying the product without due precautions or non-observance of the warnings.



**Rx Only**

*Failure to comply with the conditions of storage leads to a change of the working characteristics of the material and decrease the shelf life of the material.*

*The manufacturer is not responsible for any loss of quality caused by the failure to comply with terms of transportation, storage and use established by the manufacturer for this product. Responsibility for the use of the material for purposes other than those specified by the manufacturer falls on the user.*