

C E 0476

GB: Dental Implants

KOHNO ONE

Kohno One dental implants are implantable devices for the rehabilitation of patients affected by total or partial edentulism. The implants are intended to be inserted into the mandibular or maxillary bone (that is, as implant fixtures) via a surgical operation

implants are intended to be inserted into the mandibular or maxiliary bone (that is, as implant sare intended to be inserted into the mandibular or maxiliary bone (that is, as implant fixtures) via a surgical operation. The fixtures have a connection in the crown part to hold the abutment implant which acts as a support for the dental prosthesis. The purpose of dental prostheses is to restore the dental function to patients from an aesthetic, phonetic and masticatory point of view. In implantoprosthetic rehabilitation using Kohno One implants, exclusively original Sweden & Martina prosthetic components must be used. Use of components that are not produced by Sweden & Martina limits their liability and renders the product Warranty void (see the later section "Liability for Defective Products and Terms of Warranty").

For surgical insertion of the fixture, appropriate surgical instruments must be used, available either singularly or in kits. Use of original surgical accessories manufactured by Sweden & Martina is recommended. Sweden & Martina does not have any liability if non-original instruments are used. Kohno One implants can be inserted in different sites in the oral cavity employing various techniques and then connected to the prosthesis at a later time. The implants have a conical body form, they are screw-shaped with an external thread and an internal hexagonal connection, capped by an emerging collar for connecting the prosthetic components ("implant abutments"). Depending on the type of surgical protocol, they can be implanted following a submerged or non-submerged protocol. Depending on the type of surgical protocol, they can be implanted following a submerged or non-submerged protocol. Depending on operating time (for functionality restoration), they can be rehabilitated, anticipated or deferred loading. Kohno One implants can be inserted in sites that are already edentulous or in post-extraction sites, both immediately (insertion of the implant takes place at the same time as tooth or root is removed 2 INTENDED LISE

2. INTENDED USE Kohno One implant fixtures are medical devices intended for long term implantations. All the fixtures are sold in single-use, sterile packaging. The purpose of the fixtures is to replace the missing roots of the tooth. All the fixtures are sold complete with their respective cover screws (also called surgical screws). The cover screws are also implantable medical devices of surgical type, designed to remain in the oral cavity for a duration that can exceed 30 days. Cover screws are also available in individual packs. In this case also the pack is sterile.

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Sweden & Martina declares that it is the manufacturer of the Kohno One implants and attributes the risk classes given in Table 01. The dental implants, although intended for implantation in all subjects who satisfy the appropriate therapeutic indications, must be used exclusively by professional, medically-qualified personnel having the necessary qualifications and approvals.

3. MANUFACTURER'S DETAILS

The Manufacturer of the Kohno One implant fixtures is:

Sweden & Martina S.p.A.
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e-mail: info@sweden-martina.com - www.sweden-martina.com

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4. RAW MATERIALS USED

The materials used for manufacturing the Kohno One dental implants were selected on the basis of the properties required for their intended use, in accordance with Regulation (EU) 2017/745.

The implants are produced in grade 4 titanium, according to the harmonised normatives.

Allergies to titanium are very rare but nevertheless possible. For this reason, it is always necessary to check in advance with patients that they do not suffer from this type of allergy.

5. DESCRIPTION

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The information in these instructions for use completes the information in the catalogs/manuals.

Kohno One implants have a series of features designed to optimize the results of the various clinical evidences and facilitate the surgical procedure in accordance with the most recent implantological protocols.

Kohno One implants have a conical body morphology and are available, depending on the individual specifications, in diameters 4.25 and 5.00 mm in varying heights from 10 to 18 mm. The complete range can be consulted in the reference catalog. The design of the implants (fig. 01) offers great primary stability in bone even of poor quality, thanks to the presence of a marked spire both in the body and in the apical portion. The thread has a pitch of 1 mm, a conical profile in the apical direction, convex in the coronal direction and is connected to the implant body by a circular section. The three deep apical notches they increase the cutting capacity, also allowing the decompression / venting of the frustules and the antirationality of the system during the screwing and unscrewing maneuvers of the components connected to it in the second surgical phase. However, prior bone tapping is always appropriate in the case of very compact bone (D1).

The connection is the same as that of the Premium and Kohno systems with a diameter of 3.80 mm (produced by Sweden & Martina) and consequently completely compatible. All implants have an internal hex with a 2.30 mm wrench guarantees the anti-rotation of the superstructure. The measurement of the implant diameter, calculated in the compal part of the implant, is nominally the same as the diameter of prosthetic platform which is understood as the diameter measured at the junction point with the prosthetic posts. For implant length always means the length of the fixture calculated from the connection point to the bilders at the appace of the system, including, Kohno One systems are available with t

- 6. METHOD OF USE
 Modern implantology, whether using immediate or deferred loading, is largely an experimented reliable discipline able to resolve almost all problems related to edentulism, whether they be functional or aesthetic in nature.
 Implantology methodologies use primarily two types of surgical techniques:
 two stage: consisting of two phases the first "submerged", that is, the implant is inserted and the connection hole closed with a cap screw (or surgical or cover screw), suturing takes place, the mucosa is re-opened after 2-6 months and the actual prosthesis is inserted;
 one stage: insertion of the implant that is left uncovered with the head of the implant emerging. It can be left to heal like this for hone interaction (canain for 2 to 6 months) or loaded immediately with a specific detail port provisionally or definitively.

- one stage: insertion of the implant that is left uncovered with the head of the implant emerging. It can be left to heal like this for bone integration (again for 2 to 6 months) or loaded immediately with a specific dental post, provisionally or definitively, depending on the case. Submerged implants can be used with the one-stage technique, closing the connection with a transmucosal healing screw instead of the cap screw.
Implants are inserted into the bone following surgical protocols that must take into account the quantity and quality of the receiving bone, the implant type, and the possible need for regenerative therapies. A site is created in the patient's bone (corresponding to the site for the tooth to be replaced or built anew altogether) using a series of calibrated bone millers or appropriate instruments such as bone-expanders, bone compactors etc. In order for the implant to osseointegrate, a good primary stability is required with little or no movement i firewenent is greater it must not excel a few microns. The bone-implant interface is therefore to the order of milli-microns, otherwise the implant risks being fibrointegrated with no expenited received. osseointegration.

In general, the masticatory load with the fixed prosthesis takes place in a second phase, after 2-3 months for the mandibular bone and 4-6 months for the upper maxillary bone. In certain cases, immediate loading of the implant is possible, however certain fundamental criteria must be met:

- presence of a certain amount of bone

- primary stability of implants after insertion

- good paradental (gingival) support

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- absence of bruxism (tooth greying) or serious malocclusion
- presence of a good occlusal balance (correct masticatory occlusal plane).
A serious assessment is therefore required of the specialist who, carrying out the necessary examinations with the help of appropriate instruments, must verify the coexistence of all these factors. If not, the choice must fall on "traditional" techniques (of "submerged" or "non-submerged" type), that is, using implants that require a longer waiting time but that are stronger for supporting the masticatory load.

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Implants can replace a single tooth (crown on implant), a group of teeth close together (bridge on implant) or a whole dental arch, or they can be used to stabilise a full upper or lower overdenture prosthesis.

Kohno One implants have been tested in a wide range of clinical situations:

- standard surgical procedures involving either the double or single surgical phase,

- early and immediate loading,

- contextual employment with regenerative therapies,

- post-extraction situations, also with immediate loading.

The clinical indications determining the type of implant and its measurement, depend on the site for which the implant is intended, the anatomy of the receiving bone, the number of implants, and the technically-motivated choice of protocol from those mentioned above. This decision must be taken exclusively by the doctor performing the operation, who must have a suitable preparation and plan in advance the appropriate prosthetic rehabilitations. Where possible, implants with the largest diameter possible for the crest thickness must always be used.

6.1 Pre-surgery Planning and Preparation

During the phase preceding the intervention, the following is required:

- General medical and dental history, general medical examination, clinical examinations (full blood tests) and radiological examinations, from a foundation with family doctor

- Patient information (indications, counter-indications, clinical situation, expectations, normal percentages of success and

- examinations, TAC and consultation with family doctor
 Patient information (indications, counter-indications, clinical situation, expectations, normal percentages of success and failure, necessity for periodical post-surgery check-ups)
 Hygiene programme, with periodontal interventions (if any)
 Adoption of the necessary pharmacological prescriptions
 Pre-prosthetic surgical planning in collaboration with dental technician
 Assessment of risks relating to inadequate treatments of soft and hard tissues
 Choice of anaesthetic and sedation techniques, and amount of monitoring necessary
 Prosthetic nelations in collaboration with dental technician

- Prosthetic planning in collaboration with dental technician.

C2 Surgical Intervention

The surgical techniques for implants are taught in University establishments to students who are graduating in dentistry. Nevertheless, the following factors must be born in mind:

Hard and soft tissue must be treated with extreme care, taking all the necessary precautions in order to obtain a good

- the normal biological principles for osseointegration must be respected

integration of the implant,

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- thermal traumas must be avoided, they could cause necrosis and reduce the possibility of osseointegration. For this reason, a reduced drilling speed must be appropriate and milling tools with cutters in optimum conditions. Drilling must be carried out intermittently, cooling the site adequately with the irrigation necessary, and widening the hole using milling must be carried out intermittently, cooling the site adequately with the irrigation necessary, and widening the hole using milling must be carried out intermittently, cooling the site accordance of the control o

7. STERILISATION
Kohno One implants are sterilised using Beta rays. The expiry date is given on the packaging. The sterile blister must be opened only at the moment it has to be used in the operation. Before opening, make sure that the packaging is perfectly intact. Any damage could compromise the sterility of the implant, and therefore the success of the intervention. Implants that have already been used, or that are not in a sterile condition, must never be reused.
The device is for single-use only: its reuse is not permitted as it could lead to loss of the implant and cross-infections.
On the bottom of the vial there is a round label (or sticker). This label certifies that sterilisation has been obtained through radiation. In fact, this label is yellow in the beginning and turns red under the effect of the radiation, thereby confirming that sterilisation has taken place.

sterilisation has taken place 8 COUNTER-INDICATIONS

8. COUNTER-INDICATIONS
Insertion of implants and prosthesis implants is counter-indicated in patients presenting a poor general health condition, scarse or inadequate oral hygiene, or where it is impossible or difficult to monitor their general conditions, or in patients who have previously been subjected to organ transplants. Patients with psychiatric problems must also be excluded, as well as those prone to alcohol or drugs abuse, who are little motivated or not sufficiently co-operative. Patients hose gums are in a bad condition must be treated and their condition recuperated in advance. In cases where the receiving bone contains insufficient prone to alcohol or drugs abuse, who are little motivated or not sufficiently co-operative. Patients whose gums are in a bad condition must be treated and their condition recuperated in advance. In cases where the receiving bone contains insufficient material or is of such a poor quality that the implant stability could be jeopardised, an appropriate guided regeneration of the tissue must be carried out in advance. Other counter-indications include: allergies to titanium, acute or chronic infective diseases, chronic sub-acute maxiliary ostetits, systemic diseases, endocrine disorders, diseases leading to microvascular disorders, pregnancy, breastfeeding, previous exposures to radiation, haemophilia, granulocytopenia, use of steroids, diabetes mellitus, renal insufficiency, bone fibrous dysplasia. All the normal counter-indications for oral surgical operations must also be taken into account. Patients must not be subjected to interventions if they are undergoing anticoagulant, anticonvulsant or immunosuppressive therapies, if inflammatory-infectious processes are present in the oral cavity, or if their creatinine or BUN values are outside the normal range. Other patients who must be excluded are those with cardiovascular disease, hypertension, thyroid or parathyroid diseases, malignant tumours encountered within the 5 years preceding intervention, or node enlargements. Chemotherapies reduce or counter osseointegration capability, therefore patients undergoing such treatments must beaccurately evaluated before implantoprosthetic rehabilitations. In the literature, numerous cases of perimplant osteonecrosys were reported in patients that had been administered with biphosphonates in particular, in the lower jaw and mainly in case of intravenous administration. Cases of failures of implants inserted in sites previously subjected to root canal treatments have been reported in the literature. Any previous endodontic therapies should therefore be carefully evaluated in the patient's medical history when planning implan

10. SECONDARY EFFECTS

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After dental implant operations the following could occur: bone crest loss, permanent numbness, dysaesthesia, local or systematic infections, exfoliation, hyperplasia, oroantral and oronasal fistula. Temporary complications can occur such as pain, swelling, pronunciation problems and gingivitis. The risks related to an implantological intervention include: perforation of the lip or tongue plate, bone fractures, implant fractures, fractures of the upper structures, aesthetic problems, accidental perforation of sinus, nerve damage and compromission of natural dentition. The following pathophysiological complications can increase the degree of risk: cardiovascular insufficiency, coronary disorders, arrhythmia, chronic respiratory or lung diseases, sastrointestinal diseases, hepatitis, intestinal inflammations, chronic kidney insufficiency and urary system disorders, endocrine disorders, diabetes, thyroid diseases, blood disorders, anaemia, leukaemia, coagulation disorders, osteoporosis or musculoskeletal arthritis, heart attacks, neurological disorders, mental retardation, paralysis.
11. MAINTENANCE

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Complications linked to implant prostheses are documented in the related literature. These complications can lead to a lack of osseointegration and a failure of the implant. A correct up-keep on the part of the patient, with a regular attention to dental hygiene at home, combined with periodic check-ups and visits to a professional hygienist lengthen the useful life of the device. Complications such as, for example, loosening of the screws securing the prosthesis to the implant, or bone re-absorption causing loss of mucosa support for removable prostheses, can easily be detected by regular control visits

Should it be necessary to tighten the abutment or the prosthetic screws, these operations must be carried out by the doctor using the appropriate devices that are able to verify the tightening forque. Devices must be calibrated on a regular basis. Should the patient become aware that any of the conditions above have occurred, they should contact their doctor as soon as possible so that the prosthesis can be restored to its proper functional condition. Any delay in requesting medial intervention could, in the first instance, lead to the fastening screw or the prosthesis fracturing and, in the second instance, to loss of the implant, affecting the rehabilitation result achieved. Doctors must therefore prepare patients for these circumstances. Complications can be biological (integration loss) or mechanical (component fracture due to excessive load). If complications coccur, the anecung the tertamination result achieved. Dottors finds interior prepare planets for mese circumstances. Compinications can be biological (integration loss) or mechanical (component fracture due to excessive load), if no complications occur, the duration of the devices and of the prosthesis as a whole depends on the mechanical resistance of the device with respect to the accumulated fatigue. Sweden & Martina has subjected Kohno One implants to the required fatigue resistance tests at 5,000,000 cycles, and the implants passed the test. Fatigue tests are carried out in compliance with the specific normative and the results assessed by performing calculations on the finished elements.

12. EXPIRY DATE

Implants must not be used after the expire date indicated.

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13. LEGAL REFERENCES

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The design and production of Kohno One implant fixtures are carried out in conformity with the directives and most up- to-date harmonised normatives regarding the materials used, production processes, sterilisation, information provided and packaging.

14. WASTE DISPOSAL PROCEDURES
Fixture implants, if removed from the oral cavity as a result of a biological or mechanical failure, must be treated as organic waste for their disposal, according to the laws that apply locally.

On the other hand, if the implants are sent to Sweden & Martina with a request for execution of a Surf Test, the protocol given as the curbeits improve unsure to followed.

on the website www.sweden-martina.com must be followed. 15. LIABILITY FOR DEFECTIVE PRODUCTS AND TERMS OF WARRANTY

Excellent patient care and attention to their needs are necessary conditions for the success of the implant. It is therefore excessary to select the patient carefully, inform them of the inherent risks and of the duties associated with the treatment, encouraging them to co-operate with the dentist to achieve a good outcome from the treatment. The patient must therefore

maintain a good level of oral hygiene - confirmed by means of regular check-ups and control visits – that must be guaranteed and documented, along with the pre- and post-surgical directions and prescriptions.

The instructions provided by Sweden & Martina are available at the moment of treatment and have been accepted by the Dental Practice. These instructions must be observed and applied during all the care phases: from the patient medical history stage to the post-surgery check-ups.

The Warranty covers exclusively defects that are established to be attributed production-related and on submission of the piece identified by item and batch code, within validity period of the Warranty. The Warranty Conditions are available on the www.sweden-martina.com website.

16. DATE AND VALIDITY OF INSTRUCTIONS FOR USE

These Instructions for Use have validity and effect from the month of July 2021.

picture 01



Kohno One

picture 02





picture 03



Table 01

Device	Packaging	Regulation (EU) 2017/745	Classifica- tion Rule	Risk Class
Implant fixtures for dental use, belonging to the Kohno One implantological system	Sterile, single-use packages. Fixtures come complete with cover screw	Implantable devices intended for long term use (over 30 days)	8	IIb
Cover screws	Sold either complete with appropriate fittings or individually (single-use, sterile package)	Implantable devices intended for long term use (over 30 days)	8	IIb

Table 02

Ø 4.25	Ø 5.00
Blue	Magenta

EXPLANA ^T	TION OF SYMBOLS	
\triangle	Caution! See instruction for use	/
LOT	Batch number	/
REF	Code	/
<u>~</u>	Manufacturer	/
W.	Country of manufacture	✓
UDI	UDI code, Unique Device Identification	✓
MD	Medical Device	✓
[]i	Consult instruction for use www.sweden-martina.com	✓
C€	CE marking Where applicable: The identification number of the Notified Body shall follow this symbol.	✓
Rx Only	American federal law restricts this device to sale by or by order of a professional practitioner	✓
STERMIZE	Do not resterilize	✓
2	Disposable product, do not reuse	\rightarrow \right
(S)	Do not use if the packaging in damaged	✓
STERILE R	Sterilized with ionizing radiation	/
	Single sterile barrier system with protective packaging inside	/
57	Expiry date after which the product must not be used	

www.sweden-martina.com