

The Torque Ratchet Family S.I.N. are intended for specialized procedures, which must be carried out by qualified professionals. The way in which the product is used and surgical techniques are inherent to the professional's training. The product must be used in a surgical environment and under conditions suitable for the health and safety of the patient.



PRODUCT DESCRIPTION

The Torque Ratchet Family S.I.N. are produced in stainless steel and have a specific active tip for fitting with other instruments (keys).

INDICATIONS OF USE

The Torque Ratchet Family S.I.N. are indicated for installing implants and prosthetic components and assist in the surgical procedure or in the fixation/removal of implants and components.

Prosthetic Torque Ratchet: Used to tighten the screw of the prosthetic component with torque grading of 10N.cm, 20N.cm and 32N.cm.

Surgical Torque Ratchet: Used to install the implant, with torque grading of 30N.cm, 45N.cm, 60N.cm and 80 N.cm.

Surgical Rod Torque Ratchet: Used to install the implant with torque grading of 30N.cm, 45N.cm, 60N.cm and 80N.cm.

PURPOSE AND OPERATION PRINCIPLE

The purpose is to enable the installation of dental implants and prosthetic components, through assistance in the surgical procedure. Its operating principle is based on the mechanical principle of force transmission, to activate secondary elements.

HOW TO USE THE INSTRUMENT

1. Open the original packaging and remove the instrument.
2. Before the first use or after being used in surgical procedures, perform the cleaning and sterilization procedures contained in this instruction for use.
3. After sterilized, the instrument will be ready for use.

ATTENTION

Torque Ratchet Family S.I.N. are intended for specialized procedures, which must be performed by qualified professionals in implantology. The use of the product must be performed in a surgical environment and in proper conditions for the health and safety of the patient.

PRECAUTIONS

The Torque Ratchet Family S.I.N. must be selected in accordance with the implant/component installation recommendations. Using excessive force or pulling parts apart may damage the product. Before each procedure, ensure the perfect fit between the parts and the condition of the instruments, always respecting their useful life. Instruments must be replaced in case of damage, faded markings, deformation and wear.

RECOMMENDATIONS

The product should only be used by qualified dental professionals who already have all the scientific information necessary for the correct use of the product. Always clean and sterilize as recommended before the surgical procedure.

CONTRAINDICATION

Use for purposes other than the installation or removal of implants and prosthetic components.

SIDE EFFECTS

Failure may be due to factors intrinsic to the surgical procedure, such as the local and health conditions of the implanted individual and the skill and knowledge of the professional who performs it.

WARNING

Do not use the instrument if you notice cracks, wear or spots of oxidation/corrosion. This may cause problems in the operation of the instruments. All items may exhibit natural wear and tear and should be replaced whenever the professional identifies loss of fit or accuracy of these products as they may interfere with the end result of the work.

TRACEABILITY

All S.I.N. products have sequential batches that allow traceability, thus promoting greater safety for professionals skilled for the procedure. Through this lot number it is possible to know all product history from the manufacturing process to the time of distribution.

STORAGE

The Torque Ratchet Family S.I.N. 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 instruments should be handled in a sterile environment by properly attired professionals and in appropriate clothing at the time of surgery to install implants. Scratches or notches of the instruments should be avoided as such factors can increase the possibility of corrosion of the products.

DISPOSAL OF MATERIAL

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

TRANSPORTATION

The Torque Ratchet Family S.I.N. must be transported adequately to avoid falling and stored at a maximum temperature of 35°C, protected from heat and moisture. Transport must be carried out in its original packaging.

COMPLEMENTARY INFORMATIONS

Multiple use product. Exclusive for dental use. Reprocessing allowed. Refer to the cleaning and sterilization conditions contained in this instruction for use. 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, without any cost, please request by e-mail to sin@sinimplantsystem.com or call to 0800 770 8290 will receive until 7 days calendar.

CLEANING INSTRUCTIONS

1. Prepare the enzymatic detergent according to the detergent manufacturer's instructions.
2. Immerse all parts of the product into the prepared detergent solution and leave for 5 minutes. Then, using a soft bristle brush, scrub the parts for at least 2 minutes until complete remove organic matter from the products.
3. Remove the parts from the detergent solution and rinse with tap water for 1 minute until the residue is completely removed. Repeat the rinse two more times.
4. Visually inspect each part to check for process residues or organic residues from the used of the product.
5. If residue in detect in the product, repeat the cleaning process until the residue is completely removed.
6. Dry with a soft, clean, dry cloth or disposable paper.
7. Proceed to the sterilization process.

RECOMMENDATIONS

- a. Wear appropriate clothing (gloves, masks, glasses, hats, etc.)
- b. Begin cleaning immediately after surgical use.
- c. Never let the instrument dry containing organic residues after surgical use.
- d. Never let the instrument dry naturally after cleaning.
- e. Never use saline solutions, especially sodium hypochlorite and saline, disinfectants, hydrogen peroxide or alcohol to clean or rinse surgical instruments and Kit trays.
- f. Never use steel wool or sponges or abrasive products, so that the instruments are not damaged.
- g. Do not accumulate instruments in large quantities on top of each other to avoid deformation of smaller and delicate pieces.

STERILIZATION

Reusable product and provided non-sterile. It must be clean and sterilized in autoclave before use.

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

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 the discoloration and damages to the case.
- c. Do not use temperature higher than 60°C to drying process.
- d. Do not use dry heat stoves for sterilization of the instruments and kits from S.I.N.

LIFE TIME

It is estimated that articulated, non-cutting instruments, without connection to equipment, can be subjected to 250 uses. It is necessary to check the functionality, fitting capacity or accuracy of these products after each procedure and if there is natural wear caused by use, they must be replaced and discarded.

PERFORMING DISASSEMBLY OF THE TORQUE RATCHET

Torque Ratchet – Model TMECC 02 and TMECC 03

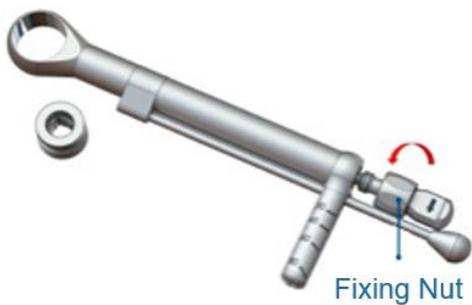
1. Pull the steering reversing rod back.



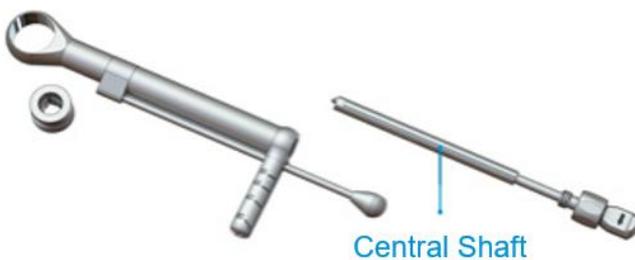
2. Remove the Ratchet from the socket with your head.



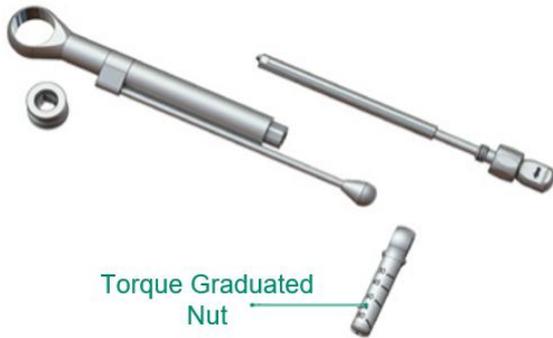
3. Rotate the fixing nut counterclockwise.



4. Remove the central shaft of the torque ratchet.



- Remove the torque grading rod.



- Start the cleaning and washing procedure.

Torque Ratchet – Model TMEC

- Rotate the torque ratchet drum counterclockwise until it is completely loose.



- After releasing the drum, remove the torque ratchet body and head.



- Remove the spring and washers from the torque ratchet.



- Start the cleaning and washing procedure.

Torque Ratchet – Model TMECC

1. Rotate the torque ratchet drum counterclockwise until it is completely loose.



2. After releasing the drum, remove the torque ratchet body and head.



3. Start the cleaning and washing procedure.

After complete drying, assemble the torque ratchet following the same disassembly procedures in reverse order.

	NÃO ESTÉRIL	NON-ESTERILE	NO ESTÉRIL
	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
	ATENÇÃO	CAUTION	PRECAUCIÓN
	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
Rx only	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
	CÓDIGO DE REFERÊNCIA	REFERENCE CODE	CÓDIGO DE REFERÊNCIA
	DISPOSITIVO MÉDICO	MEDICAL DEVICE	DISPOSITIVO MEDICO
	IDENTIFICADOR ÚNICO DO DISPOSITIVO	UNIQUE DEVICE IDENTIFIER	IDENTIFICADOR DE DISPOSITIVO ÚNICO
	IMPORTADOR	IMPORTER	IMPORTADOR
	DISTRIBUIDOR	DESTRIUTOR	DISTRIBUIDOR
	PAÍS DE FABRICAÇÃO	COUNTRY OF MANUFACTURE	PAÍS DE FABRICACIÓN
	LOTE	BATCH CODE	LOTE
	EMBALAGEM RECICLÁVEL	RECYCABLE PACKAGING	EMBALAJE RECICABLE

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

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EU	REP
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PRODUCT

Torque Ratchet Family S.I.N.