

English

INSTRUCTIONS FOR USE: Southern Implants® Cover Screws



South Africa - Headquarters: 1 Albert Road, Irene, 0062, RSA
T: +27-12-667-1046 | E: info@southernimplants.com

Subsidiaries

Australia

Southern Implants Australia
T: +61-(0)-8-9466-2627
E: info@southernimplants.com.au

Spain and Portugal

Southern Implants Iberica
T: +34 935 053 507
E: info@southernimplants.es

United Kingdom and Ireland

Southern Implants UK
T: +44-20 8059 4490
E: info@southernimplants.co.uk

USA and Canada

Southern Implants North America Inc.
T: +1-561-472-0990
E: customer care@southernimplants.com

EC REP

Southern Implants Europe AB: Holmgatan 30, S-791 71 Falun, Sweden
T: +46 23 13300 | E: ecrep@southernimplants.com

CH REP

MedEnvoy Switzerland: Gotthardstrasse 28, 6302 Zug, Switzerland

Description

Cover screws are pre-manufactured temporary dental implant components used during the initial healing phase. Cover screws have built in screws for retention to the implant and are made of commercially pure titanium. All Southern Implants cover screws are provided sterile.

Intended use

This device is intended to treat partially or fully edentulous patients eligible for placement of one or more dental implants as a means of fixing a permanent or removable single crown, partial or full-arch dental prosthesis in the upper or lower jaw. The devices allow for immediate or delayed prosthetic restoration based on the user's evaluation of the patient's eligibility.

This device constituents are classified as medical devices and are intended for single use on a single patient.

Indications for use

These devices are premanufactured prosthetic components directly connected to endosseous dental implants and intended for use in fully edentulous or partially edentulous maxilla and/or mandible to provide support for crowns, bridges or overdentures.

Intended user

The intended user for this system includes Dental Technicians, Maxillofacial Surgeons, General Dentists, Orthodontists, Periodontist, Prosthodontists and other appropriately trained and experienced implant users.

Intended environment

This device is intended to be used in a dental laboratory for making of the restoration and in a clinical environment such as an operating theatre or a dentist consultation room.

Intended patient population

Patients that have lost one tooth or multiple teeth.

Compatibility information

Southern Implants' implants should be restored with Southern components. In the Southern Implants range there are 7 implant connections. The implant code and connection type can be identified by specific abbreviations in the product codes. Range identifiers are summarised in Table A.

Table A

Implant connection type	Compatible device
External Hex (EX)	Parts labelled SCP-2, SCNU2, SCU2, SCAU5, SCU6, SC7, CS-ZYG*
TRI-NEX® (EL) (Lobe)	Parts labelled CS-L-(Ø)
Deep Conical (DC)	Parts labelled CS-DC(Ø)
Internal Hex (M)	Parts labelled CS-M (used with Ø3.75, 4.2 and 5.0 mm platforms)
Internal Hex PROVATA® (M) (Z)	Parts labelled CS-3M (used with Ø3.3 mm platform)
	Parts labelled CS-M (used with Ø4.0, 5.0 and 6.0 mm platforms)
	Parts labelled CS-Z (used with Ø7.0, 8.0 and 9.0 mm platforms)
IT (ITS) (ITS6) - Internal Octagon	Parts labelled TT0 (used with Ø4.8 mm platforms)
	Parts labelled TT6-0 (used with Ø6.5 mm platforms)
Single Platform (SP1)	Parts labelled CS-SP (used with all diameter implants)

NOTE: *CS-ZYG is only for use with the ZYGIN, ZYGON and ZYGIN-W Zygomatic Implants

NOTE: Internal Hex (M-Series) implants are packaged with a cover screw (CS-M) except for IM-T4218 (18 mm length) implant.

Clinical benefits

Clinical benefits of dental implant therapy include improved chewing function, speech, aesthetics and patient psychological wellbeing. Through this procedure patients can expect to have their missing teeth replaced and/or crowns restored.

Before surgery

All components, instruments and tooling used during the clinical or laboratory procedure must be maintained in good condition and care must be taken that instrumentation does not damage implants or other components.

During surgery

Take care that parts are not swallowed or aspirated during any of the procedures and apply the correct tightening torque to abutments and abutment screws.

CAUTION: identify and protect vital structures like nerves, veins, arteries and especially the infraorbital nerve during surgical exposure of the lateral maxillary wall. Injury to any of these anatomical structures can lead to complications like nerve dysfunction or bleeding.

Post-surgery

Regular patient follow-up and proper oral hygiene must be achieved to ensure favourable long-term results.

Storage, cleaning and sterilisation

The component is supplied sterile (sterilised by gamma irradiation) and is intended for single use prior to the expiration date (see packaging label). Sterility is assured unless the container or seal is damaged or opened. If packaging is damaged do not use the product and contact your Southern representative or return to Southern Implants®. The devices must be stored in a dry place at room temperature and not exposed to direct sunlight. Incorrect storage may influence device characteristics.

Do not reuse components indicated for single-use only. Reusing these components may result in:

- damage to the surface or critical dimensions, which may result in performance and compatibility degradation.
- adds the risk of cross-patient infection and contamination if single-use items are reused.

Southern Implants® does not accept any responsibility for complications associated with reused single-use components.

Contraindications

Contraindications to implant therapy include:

- patients who are medically unfit for oral surgical procedures.
- where adequate numbers of implants cannot be placed to achieve full functional support of a prosthesis.
- patients under the age of 18.
- poor bone quality.
- blood disorders.
- infected implant site.
- vascular impairment.
- uncontrolled diabetes.
- drug or alcohol abuse.
- chronic high dose steroid therapy.
- anti-coagulant therapy.
- metabolic bone disease.
- radiotherapy treatment.
- allergy or hypersensitivity to pure titanium, titanium alloy (Ti6Al4V), gold, palladium or iridium.

Other than the above, there are no side effects or contraindications unique to this system.

Warnings and precautions

THESE INSTRUCTIONS ARE NOT INTENDED AS A SUBSTITUTE FOR ADEQUATE TRAINING.

- For the safe and effective use of dental implants it is strongly suggested that specialised training be undertaken, including hands-on training to learn proper technique, biomechanical requirements and radiographic evaluations.
- Products must be secured against aspiration when handled intraorally. Aspiration of products may lead to infection or unplanned physical injury.

Responsibility for proper patient selection, adequate training, experience in the placement of implants and providing appropriate information for informed consent rests with the practitioner. Improper technique can result in implant failure, damage to nerves/vessels and/or loss of supporting bone. Implant failure increases when implants are placed in irradiated bone as radiotherapy can result in progressive fibrosis of vessels and soft tissue, leading to diminished healing capacity.

It is important to be aware and avoid damage to vital structures such as nerves, veins and arteries. Injuries to vital anatomical structures may cause serious complications such as injury to the eye, nerve damage and excessive bleeding. It is essential to protect the infraorbital nerve. Failing to identify actual measurements relative to the radiographic data could lead to complications.

New and experienced implant users should do training before using a new system or attempting to do a new treatment method. Take special care when treating patients who have local or systemic factors that could affect the healing of the bone and soft tissue (i.e. poor oral hygiene, uncontrolled diabetes, are on steroid therapy, smokers, infection in the nearby bone and patients who had orofacial radiotherapy).

Thorough screening of prospective implant candidates must be performed including:

- a comprehensive medical and dental history.
- visual and radiological inspection to determine adequate bone dimensions, anatomical landmarks, occlusal conditions and periodontal health.
- bruxism and unfavourable jaw relations must be taken into account.
- proper preoperative planning with a good team approach between well trained surgeons, restorative dentists and lab technicians is essential for successful implant treatment.
- minimising the trauma to the host tissue increases the potential for successful osseointegration.
- electrosurgery should not be attempted around metal implants as they are conductive.

Should the device not operate as intended, it must be reported to the manufacturer of the device. The contact information for the manufacturer of this device to report a change in performance is: sicomplaints@southernimplants.com.

Side effects

Possible side effects to implant therapy include:

- pain.
- swelling.
- phonetic difficulties.
- gingival inflammation.

Less common but more persistent symptoms include, but are not limited to:

- allergic reaction(s) to implant and/or abutment material.
- breakage of the implant and/or abutment.
- loosening of the abutment screw and/or retaining screw.
- infection requiring revision of the dental implant.
- nerve damage that could cause permanent weakness, numbness or pain.
- histologic responses possibly involving macrophages and/or fibroblasts.

- formation of a fat emboli.
- loosening of the implant requiring revision surgery.
- perforation of the maxillary sinus.
- perforation of the labial and lingual plates.
- bone loss possibly resulting in revision or removal of the implant.

Handling procedures

1. Select the appropriate cover screw.
2. Connect the cover screw to the implant and tighten the cover screws, with the applicable driver (Table B).
3. Torque the cover screw down to the value indicated in Table C.
4. Reposition the flap margins together and suture closed.

Table B

Driver type	External Hex	Deep Conical	TRI-NEX®	Internal Hex & PROVATA®	IT	SP1
0.9 mm Hex driver	✓					
1.22 mm/ 1.27 mm Universal driver		✓		✓		✓
1.22 mm Universal driver		✓				✓
1.27 mm Universal driver				✓		
Unigrip driver			✓			
Quad driver						
Blade driver						
Torx driver					✓	

Table C

Direct to Implant	Torque
External Hex	
Ø3.0mm	10 – 15Ncm
Ø3.25, 4.0, 5.0, 6.0, 7.0, 8.0 and 9.0mm	10 – 15Ncm
Tri-Nex	
Ø3.5mm	10 – 15Ncm
Ø4.3, 5.0, 6.0, 7.0, 8.0 and 9.0mm	10 – 15Ncm
Deep Conical	
Ø3.0mm	10 – 15Ncm
Ø3.5 and 4.0mm	10 – 15Ncm
Ø5.0mm	10 – 15Ncm
Internal Hex (M-Series and PROVATA®)	
Ø3.75, 4.2 and 5.0mm (M-Series)	10 – 15Ncm
Ø3.3, 4.0, 5.0, 6.0, 7.0, 8.0 and 9.0mm (PROVATA®)	10 – 15Ncm
IT Internal Octagon	
Ø3.3, 4.0, 4.1, 4.9, 5.0, 6.0, 7.0, 8.0 and 9.0mm	10 – 15Ncm
Single Platform SP1	
Ø3.5, 3.75, 4.0, 4.5, 5.0 and 6.0mm	10 – 15Ncm

Materials

Cover screw: Commercially pure titanium (grade 4)

Notice regarding serious incidents

Any serious incident that has occurred in relation with the device must be reported to the manufacturer of the device and the competent authority in the member state in which the user and/or patient is established.

The contact information for the manufacturer of this device to report a serious incident is as follows:
sicomplaints@southernimplants.com.

Disposal

Disposal of the device and its packaging: follow local regulations and environmental requirements, taking different contamination levels into account. When disposing of spent items, take care of sharp drills and instruments. Sufficient PPE must be used at all times.

Magnetic Resonance (MR) Safety

Non clinical testing has demonstrated that the Southern Implants® dental implants, metallic abutments and prosthetic screws are MR conditional.

A patient with these devices can be safely scanned in a MR system meeting the following conditions:

- static magnetic field of 1.5 Tesla and 3.0 Tesla only.
- maximum spatial gradient magnetic field of 3000 Gauss/cm (30T/m).
- maximum MR system reported SAR corresponding to Normal Operating mode for all landmarks (Head SAR of 3.2 W/kg for head landmark, 2 W/kg whole body, and appropriate partial body SAR for other landmarks). For imaging landmarks above the thorax, a continuous scan time of 15 minutes will require a cooling delay of at least 5 minutes.
- in the non-clinical testing, the image artifact caused by the device extends approximately 20 mm from the Southern Implants' dental implants, abutments and prosthetic screws, when imaged with a gradient echo pulse sequence and a 3.0 Tesla MRI system.

Removable restorations should be taken out prior to scanning, as is done for watches, jewellery etc.

Should there be no MR symbol on the product label, please note that this device has not been evaluated for safety and compatibility in the MR environment.

Disclaimer of liability

This product is part of the Southern Implants® product range and should only be used with the associated original products and according to the recommendations as in the individual product catalogues. The user of this product has to study the development of the Southern Implants® product range and take full responsibility for the correct indications and use of this product. Southern Implants® does not assume liability for damage due to incorrect use. Please note that some Southern Implants® products may not be cleared or released for sale in all markets.






















Basic UDI

Product	Basic-UDI Number
Basic-UDI for Metal Abutments	60095440387296
Basic-UDI for Cover Screws	60095440500883

Related literature and catalogues

CAT-2004 - Tri-Nex Implants Product Catalogue
 CAT-2005 - IT Implants Product Catalogue
 CAT-2020 - External Hex Implants Product Catalogue
 CAT-2042 - Deep Conical Implants Product Catalogue
 CAT-2043 - Internal Hex Implants Product Catalogue
 CAT-2060 - PROVATA® Implants Product Catalogue
 CAT-2069 - Deep Conical INVERTA® Implants Product Catalogue
 CAT-2070 - Zygomatic Implants Product Catalogue
 CAT-2088M - NAZALUS Implants Product Catalogue and Surgical Manual
 CAT-2092 - Deep Conical Pterygoid Implants Product Catalogue
 CAT-2093 - Single Platform Implants Product Catalogue
 CAT-2095 - External Hex INVERTA® Implants Product Catalogue
 CAT-2096 - External Hex Pterygoid Implants Product Catalogue

Symbols and warnings

											
Manufacturer: Southern Implants® 1 Albert Rd, P.O Box 605 IRENE, 0062, South Africa. Tel: +27 12 667 1046	CE mark 2797	Prescription device*	Sterilised using irradiation	Non-sterile	Use by date (mm-yy)	Do not reuse	Do not resterilise	Catalogue number	Batch code	Medical device	Authorised representative in the European Community
											
Authorised representative for Switzerland	Date of manufacture	Magnetic Resonance conditional	Magnetic Resonance safe	Single sterile barrier system with protective packaging inside	Single sterile barrier system	Consult instruction for use	Caution	Keep away from sunlight	Do not use if package is damaged		

* Prescription device: Rx only. Caution: Federal Law restricts this device to sale by or on the order of a licenced physician or dentist.

Canada licence exemption: Please note that not all products may have been licensed in accordance with Canadian law.

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