

Electronic

INSTRUCTIONS FOR USE

OPERACE

- Implant screw extraction system
- Screw Recess Trial
- Instruments for multiple use

Manuals are subject to change; the most current version of each manual is always available online.



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Electronic Instructions for Use



Please read this instruction for use and all corresponding documents carefully before use. Ensure that you are familiar with the appropriate surgical technique.

Intended use

For the removal of undamaged and damaged or broken screws, in particular

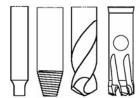
- Angular stable screws
- Cortex screws
- Cancellous bone screws
- Shaft screws
- Cannulated Screws
- Locking screws
- Locking bolts

made of titanium, titanium alloys and stainless steel with the following standard drives 1):

recess	drive® screw recess	Robertson screw recess	screw recess	recess	screw recess
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¹⁾ The screwdriver inserts in OPERACE correspond to standard orthopedic screwdriver inserts and are at least compatible with screws that satisfy the following specifications: ASTM F 543, ISO 5835, ISO 10664 and ISO 9268

STERILE SINGLE-USE INSERTS











The single use screwdriver inserts, extraction screws, drills and reamers are supplied in sterile form in double blister packaging and are intended for single use only.



Prior to use, check the product expiration date and verify the integrity of the sterile packaging. Do not use, if the package is damaged. Single-use device.

The correct instrument sizes to remove screws must be carefully chosen to facilitate screw extraction and to reduce the risk of further screw damage during the procedure.

Screwdriver insert





- Use slot screwdriver inserts manually only.
- Ensure that the screwdriver insert is fully inserted into the screw recess; otherwise the insert may spin in the recess.

Extraction screw





- Turn to the left, counterclockwise.
- Use extraction screws only for removing screws with a damaged drive recess
- Use extraction screws manually only.

Extraction drill bit





- Turn to the right, clockwise.
- Apply the drill bit while it is already rotating, not while it is stationary.
- Apply very little pressure initially, only using the weight of the power tool, and start with a slow speed.
- Cool the bit and aspirate drill chips during the procedure. In order to avoid overheating, relieve the pressure on the drill from time to time.
- When the bit has reached the base of the recess, increase the pressure on the screw in order to obtain good chip formation.
- Do not use the bit to drill in bone or drill out broken screwdriver tips.

Extraction reamer





- Turn to the left, counterclockwise.
- When unscrewing the reamer do not relieve the pressure, but maintain the constant axial pressure and direction of rotation.
- If a power tool is used, it should be kept at a very low speed.
- Cool the reamer and aspirate the drill chips during the procedure.
- a manual procedure with a T-handle and Jacobs chuck is preferred.

SCREW RECESS TRIAL



The screw recess trials are delivered in sterile pouches and are only intended for single use.

Determine the correct size and shape of the screw recess by sight and by touch. Determine the correct screwdriver insert according to the reference printed on the trial.



Prior to use, check the product expiration date and verify the integrity of the sterile packaging. Do not use, if the package is damaged.

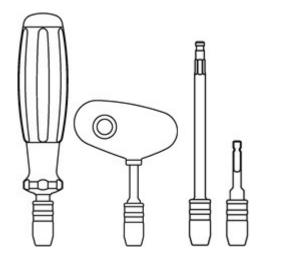
The trials must be snapped out of the bundle above the operating table and not close to the wound. Particles can be released when snapping out the trials.

The screw recess trials must not be used for removing the screws. The trials can break if subjected to excess loads.

For single use only. The products cannot be reconditioned. The trials will deform when sterilised with steam.

After the trials have been used, all trials (including unused ones) and remaining bundles must be disposed of.

INSTRUMENTS FOR MULTIPLE USE







The OPERACE handles, cross-handles, extensions and AO adapters are supplied in nonsterile condition. They must be cleaned and steam sterilized prior to surgical use. See detailed instructions in the document:



CLEANING AND STERILIZATION INSTRUCTIONS FOR REUSABLE INSTRUMENTS



Blows and bending loads should be avoided since they can lead to instrument damage or breakage.

Side effects



As with all major surgical procedures, risks, side effects and adverse events can occur. While many possible reactions may occur, some of the most common include: Problems resulting from anesthesia and patient positioning (e.g. nausea, vomiting, neurological impairments, etc.), thrombosis, embolism, infection.

Nerve or injury of other critical structures including blood vessels, damage to soft tissues. Soft tissue injuries by slipping or breaking an instrument. Burns, necrosis due to high heating due to high speed, high pressure, insufficient cooling when drilling or milling. Abnormal scar formation, pain, discomfort, allergy or hypersensitivity reactions.

INTERPRETATION OF SYMBOLS

REF	Catalogue number	
LOT	Lot No./Batch code	
SN	Serial number	
	Manufacturer	
	Date of manufacture	
<u>~</u>	Expiry date	
^	Non-sterile	
<u>/:1881.</u>	Read electronic documents	
elFU		
STERILE R	Sterilized by radiation	
EC REP	Authorised Representative	
<u> </u>	For single use	
	Do not resterilize	
	Do not use if the sterile packaging is damaged	
\triangle	Caution, consult the instruction for use	
0	Hex screw recess	
0	Torx®/Stardrive® screw recess	
O **	Square/Robertson screw recess	
4	Cruciform screw recess	
	Slotted screw recess	
•	Phillips screw recess	
PØ	Screw diameter	
	Screw driver insert	
TRIAL	Screw Recess Trial	
	Extraction screw	
	Extraction drill bit	
第0	Extraction reamer	
C € 1250	CE mark with identification number of the recognized inspection body	
к	Applying pressure	
	Very little pressure	
Ŭ/\$	Turn clockwise	
<u>U</u> /≥	Turn counterclockwise	
(A)	Use manually only	
<u>(1)</u>	Cooling	
· / 🌑	Slow speed	