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# Instructions for Use

## CLICK'X™

This instruction for use is not intended for distribution in the USA.

# Instructions for Use

## CLICK'X™

Please read these instructions for use, the Synthes brochure "Important Information" and the corresponding surgical techniques carefully before use. Ensure that you are familiar with the appropriate surgical technique.

## Material

Material:	Standard:
TAN	ISO 5832-11
TAV	ISO 5832-3
CPTI	ISO 5832-2

## Intended use

The CLICK'X system is a posterior thoracolumbar pedicle screw system intended to provide precise and segmental stabilization of the spine in skeletally mature patients.

The Perforated CLICK'X system is a transpedicular screw/rod system intended for the posterior stabilization of the thoracolumbar and lumbar spine. The Perforated CLICK'X screws are cannulated. However, they may be inserted like standard solid CLICK'X screws or like Cannulated CLICK'X screws by means of Kirschner wire guidance. The lateral perforations allow direct cement augmentation of the screw in the osteoporotic bone.

## Indications

### CLICK'X:

#### General indications

The implants can be used for the following indications in the area of the lower thoracic and lumbar spine

- Degenerative instabilities
- Instabilities following decompression
- Type A1 fractures and related types of the B and C group
- Type A2 and A3 fractures as well as similar fractures of the C group, if combined with an anterior intervention
- Tumors without anterior defect Indications Spondylolisthesis
- Spondylolisthesis in the lumbar region

### Notes

- An anterior release is recommended for spondylolisthesis greater than grade I.
- An anterior release is essential for spondylolisthesis greater than grade II.
- A 360° fixation is recommended particularly after a major reduction

### Perforated CLICK'X:

#### General indications

The implants can be used for the following indications in the area of the lower thoracic and lumbar spine

- Degenerative instabilities
- Instabilities following decompression
- Type A1 fractures and related types of the B and C group
- Type A2 and A3 fractures as well as similar fractures of the C group, if combined with an anterior intervention
- Tumors without anterior defect
- Osteoporosis when used concurrently with bone cement indicated for internal spinal fixation supplementation

## Contraindications

### CLICK'X:

- Deformities
- In fractures and tumors with severe anterior vertebral body disruption, an additional anterior support or column reconstruction is required.
- Osteoporosis

### Perforated CLICK'X:

- Deformities
- In fractures and tumors with severe anterior vertebral body disruption, an additional anterior support is required.
- Osteoporosis when used without cement augmentation
- Severe osteoporosis

## 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 may include:

Problems resulting from anesthesia and patient positioning (e.g. nausea, vomiting, dental injuries, neurological impairments, etc.), thrombosis, embolism, infection, excessive bleeding, iatrogenic neural and vascular injury, damage to soft tissues incl. swelling, abnormal scar formation, functional impairment of the musculoskeletal


system, Sudeck's disease, allergy/hypersensitivity reactions, side effects associated with implant or hardware prominence, malunion, non-union, ongoing pain; damage to adjacent bones, discs, or soft tissue, dural tear or spinal fluid leak; spinal cord compression and/or contusion, partial displacement of the graft, vertebral angulation.

## Sterile device


**STERILE R** Sterilized using irradiation

Store implants in their original protective packaging, and do not remove them from the packaging until immediately before use.

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

 Do not re-sterilize

## Single-use device

 Do not re-use

Products intended for single-use must not be re-used.

Re-use or reprocessing (e.g. cleaning and re-sterilization) may compromise the structural integrity of the device and/or lead to device failure which may result in patient injury, illness or death.

Furthermore, reuse or reprocessing of single-use devices may create a risk of contamination e.g. due to the transmission of infectious material from one patient to another. This could result in injury or death of the patient or user.

Contaminated implants must not be reprocessed. Any Synthes implant that has been contaminated by blood, tissue, and/or bodily fluids/matter should never be used again and should be handled according to hospital protocol. Even though they may appear undamaged, the implants may have small defects and internal stress patterns that may cause material fatigue.

## Precautions

The general risks associated with surgery are not described in these instructions for use. For more information, please refer to the Synthes brochure "Important Information".

## Warnings

It is strongly advised that CLICK'X is implanted only by operating surgeons who are familiar with the general problems of spinal surgery and who are able to master the product-specific surgical techniques. Implantation is to take place with the instructions for the recommended surgical procedure. The surgeon is responsible for ensuring that the operation is carried out properly.

The manufacturer is not responsible for any complications arising from incorrect diagnosis, choice of incorrect implant, incorrectly combined implant components and/or operating techniques, the limitations of treatment methods, or inadequate asepsis.

## Combination of medical devices

Synthes has not tested compatibility with devices provided by other manufacturers and assumes no liability in such instances.

The Perforated CLICK'X screws, however, are combined with bone cement indicated for internal spinal fixation supplementation. Please refer to the associated product information for details on its use, precautions, warnings and side effects.

## Magnetic Resonance environment

### MR Conditional:

Non-clinical testing of the worst-case scenario has demonstrated that the implants of the CLICK'X and Perforated CLICK'X systems are MR conditional. These articles can be scanned safely under the following conditions:

- Static magnetic field of 1.5 Tesla and 3.0 Tesla.
- Spatial gradient field of 300 mT/cm (3000 Gauss/cm).
- Maximum whole body averaged specific absorption rate (SAR) of 1.5 W/kg for 15 minutes of scanning.

Based on non-clinical testing, the CLICK'X and Perforated CLICK'X implants will produce a temperature rise not greater than 5.3°C at a maximum whole body averaged specific absorption rate (SAR) of 1.5 W/kg, as assessed by calorimetry for 15 minutes of MR scanning in a 1.5 Tesla and 3.0 Tesla MR scanner.

MR Imaging quality may be compromised if the area of interest is in the exact same area or relatively close to the position of the CLICK'X or the Perforated CLICK'X devices.

**Treatment before device is used**

Synthes products supplied in a non-sterile condition must be cleaned and steam-sterilized prior to surgical use. Prior to cleaning, remove all original packaging. Prior to steam-sterilization, place the product in an approved wrap or container. Follow the cleaning and sterilization instruction given by the Synthes brochure "Important Information".

**Processing/reprocessing of the device**

Detailed instructions for processing implants and reprocessing reusable devices, instrument trays and cases are described in the Synthes brochure "Important Information". Assembly and disassembly instructions of instruments "Dismantling Multipart Instruments" can be downloaded from: <http://www.synthes.com/reprocessing>

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