

ROCCIA[®] TLIF CAGE FOR LUMBAR SPINAL FUSION

INSTRUMENTATION GUIDE



MADE IN GERMANY

TABLE OF CONTENTS

| | |
|---|-------|
| Preface | 3 |
| Indications / Contraindications | 4 |
| Access for the ROCCIA TLIF Cage | 5 |
| ROCCIA TLIF Cage – Instrumentation | 7 |
| Position correction of the ROCCIA TLIF Cage | 17 |
| | |
| PRODUCT INFORMATION | 20 |
| ROCCIA Implants | PI 02 |
| ROCCIA Trial Implants | PI 05 |
| ROCCIA Instruments | PI 07 |
| General Instruments | PI 10 |
| ROCCIA Alphabetical Index | PI 11 |

NOTE: This Guide describes the use of the instrumentation for ROCCIA TLIF – it does not replace briefing by a physician experienced in the surgical instrumentation of the spinal column.

We would be happy to assist you in finding a hospital that provides an opportunity to observe surgical procedures.

PREFACE

ROCCIA TLIF[®] – FOR LUMBAR SPINAL FUSION

The ROCCIA TLIF Cage is an implant for primary stabilization and restoration of physiological lordosis in the lumbar and thoracic spine. The cage is designed for posterior approaches.

The aim is to eliminate discogenic back pain, correct deformities, remedy instabilities, restore intervertebral height, restore physiological lordosis, and provide biomechanical support for bone fusion in the disc space.

The cage must be used with additional stabilization. For posterior lumbar stabilization, Silony Medical recommends the use of a posterior spinal fixator (e.g., the VERTICALE system).

The ROCCIA Instrumentation System, like all Silony Medical products, can be used in a modular manner and is ergonomically designed. Thus, the ROCCIA Inserter enables the user to perform various instrumentation steps with just a single instrument. This not only helps to speed up the surgical procedure but also decreases the need for instrument sets which then have to be cleaned and stored in the hospital.





Indications

Implants of the ROCCIA TLIF System are intended for use on the lumbar and thoracolumbar spine for the following indications:

- Degenerative disc diseases
- Deformities
- Segmental dysfunctions of the lumbar or possibly also thoracolumbar spine
- Spondylolisthesis
- Segmental instability
- Stenosis

Contraindications

The most important contraindications include:

- Anticipated or documented allergy or intolerance to the materials (e.g., titanium)
- Any case in which the chosen implants would be too large or too small to achieve a successful result
- Any patient for whom use of the implant would be in conflict with the anatomical structures
- Missing bone structures, which would render stable fixation of the implant impossible (e.g., associated with fractures, tumors, osteoporosis, or infections)

NOTE: The ROCCIA TLIF Cage must be combined with additional stabilization. For posterior lumbar intersegmental fusion procedures, Silony Medical recommends the use of a posterior spinal fixator (e.g., with the VERTICALE System).

NOTE: Please note the advice about indications and contraindications in the instructions for use of ROCCIA TLIF. The package insert also contains other important information that might lead to exclusion of the patient.

ACCESS FOR THE ROCCIA[®] TLIF CAGE

The access for the TLIF Cage is described below.

Position and approach

RI-1410*
ROCCIA Chisel 10 mm, Width
reinforced



The patient is positioned in the prone position, as is common for the posterior approach. Exposing the abdomen helps decrease the load on the abdominal vessels. Corresponding bearing frames or padding underneath the pelvis and thorax can be used for this purpose. The main incision is usually performed medially above the spinous processes depending on the spinal segments being treated. The spinal erector muscles are then displaced strictly subperiosteally and dissected until the anatomical structures of the spinal column are clearly exposed.

The transforaminal approach to the disc space is usually achieved by unilateral resection of the facet joint on the approach side (Fig. 1). The 6, 8, or 10 mm ROCCIA Chisels can be used for this as well as standard instruments such as Luer forceps and rongeurs.

* Representative of other chisels
see ROCCIA Instruments

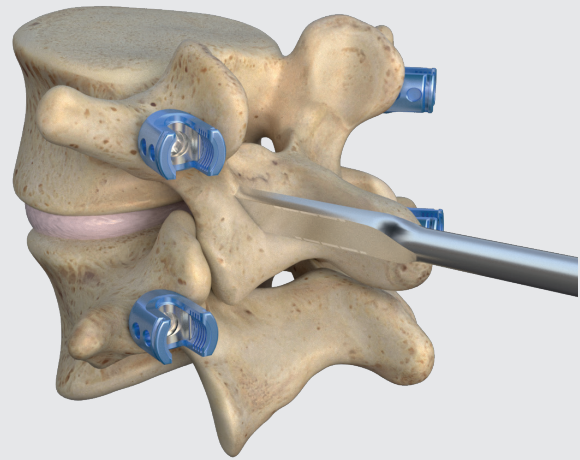


Fig 1 Resection of a facet joint with the chisel in the TLIF approach Access

ROCCIA® TLIF CAGE INSTRUMENTATION

The ROCCIA TLIF has been designed for transforaminal approaches, therefore the following instrumentation steps apply to both the preparation of the implant bed and the implantation of the intervertebral disc space of the aforementioned approach and surgical technique.

Discectomy

RI-1020*
ROCCIA Ring Endplate Scraper
Straight



RI-1040**
ROCCIA Curette Straight



RI-1107***
ROCCIA Shaver, 7 mm



GI-3101****
T-Handle



To begin with, the disc is incised with a standard scalpel. The disc material is loosened with the aid of shavers and then removed with the aid of various grippers, curettes and sharp spoons (Figs. 2 and 3). The fibrous ring is opened up in the process, and the nucleus and the inner fibrous ring are then removed and the surfaces of the endplates are roughened in order to prepare a spacious cage bed.

Various angled and curved endplate scrapers are available to facilitate the removal of the intervertebral disc tissue in the wide lateral disc space.

- * Representative of other ring endplate scrapers (angled and curved)
- ** Representative of other curettes (curved)
- *** Representative of other shaver sizes
see ROCCIA Instruments
- **** Representative of other T-handles
see General instruments

NOTE: ROCCIA Shavers are only suitable for mobilizing the disc and preparing the superior endplates. They must not be used for distraction.

NOTE: If possible, the outer fibrous ring should be preserved as support for the cage.

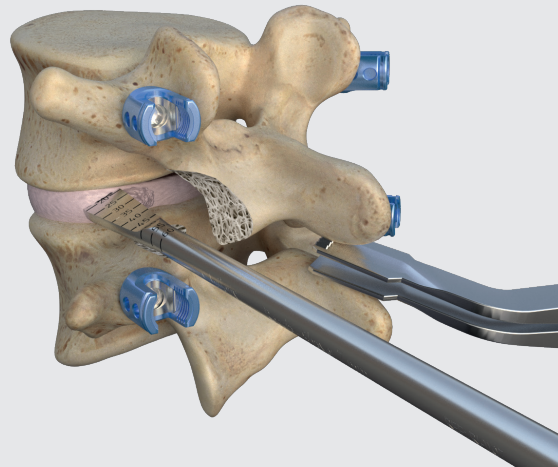


Fig. 2 Loosening of the disc material with a shaver

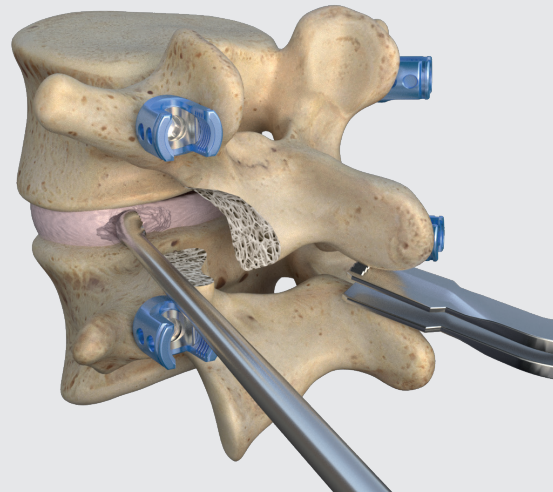


Abb. 3 Discectomy using a curette

Preparing the disc space

RI-1020*
ROCCIA Ring Endplate Scraper
Straight



RI-1030
ROCCIA Box Endplate Scraper
Straight



RI-1050
ROCCIA Rasp Curved 45°



RI-1107**
ROCCIA Shaver, 7 mm



GI-3101***
T-Handle



For more extensive curettage, the ROCCIA Box Endplate Scraper is also provided (Fig. 4). The surface of the remaining cartilaginous layer of the inferior and superior endplates can be roughened with bone rasps, curettes, and shavers (Fig. 5).

The curved endplate scrapers in particular also facilitate the preparation of the opposite side when using the transforaminal approach.

* Representative of other ring endplate scrapers (angled and curved)

** Representative of other shaver sizes
see ROCCIA Instruments

*** Representative of other T-handles
see General instruments

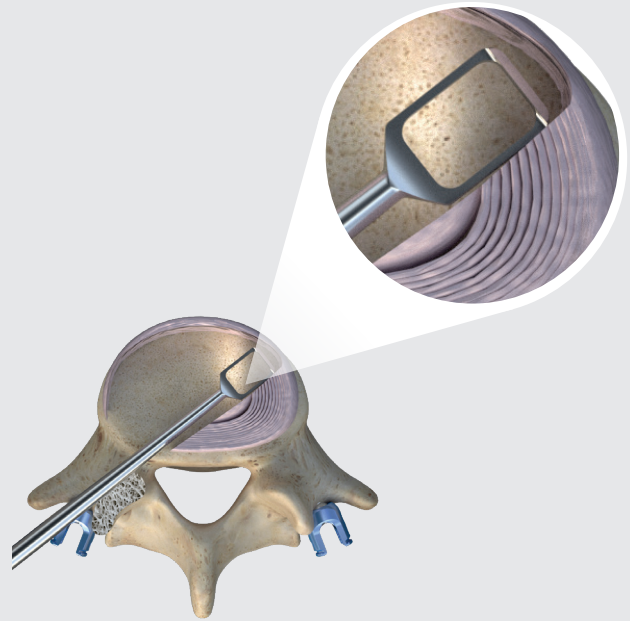


Fig. 4 Box endplate scraper for extensive removal of disc material

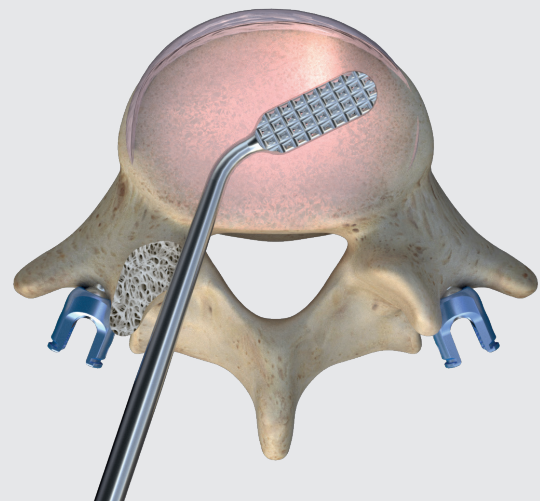


Fig. 5: Rasp for roughening the superior endplate

NOTE: Careful preparation of the disc space, especially extensive roughening of the endplates, provides the basis for better vascularization and successful bone fusion. Damage to the bony inferior and superior endplate can lead to sinking of the implant into the vertebral body.

Distracting the disc space

RI-1207*
ROCCIA Paddle Sizer 7 mm



GI-3101**
T-Handle



Blunt ROCCIA Paddle Sizers are available for distraction. They start at a height of 7 mm and increase in 1-mm increments up to a height of 13 mm; after that, the height increases in steps of 2 mm. At the distal end of the paddle sizers, there are depth markings between 20 and 60 mm in 5-mm increments (Fig. 7).

The distractors are connected to a T-handle via the quick-release coupling. For better orientation, the handle ends are aligned in the same way as the end of the paddle shavers. Two T-handles are available in the set to enable rapid instrumentation.

To perform the distraction, a blunt paddle sizer adjusted to the size of the disc space is first inserted into the disc space flat and then positioned by rotating by 90° (Fig. 7). The next paddle sizers are inserted in ascending order using the same movement until the desired height is achieved. The appropriate distraction height is reached when the distractor is under tension and conveys a stable feeling. Standard lamina spreader forceps can additionally be used for distraction.

* Representative of other distractor sizes
see ROCCIA Instruments

** Representative of other T-handles
see General instruments

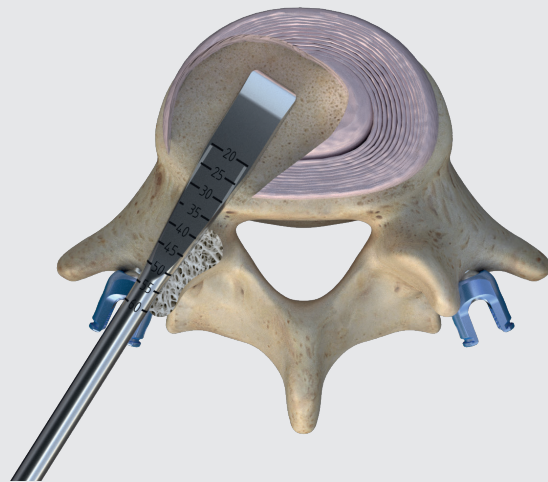


Fig. 6 Depth marking on the paddle sizer

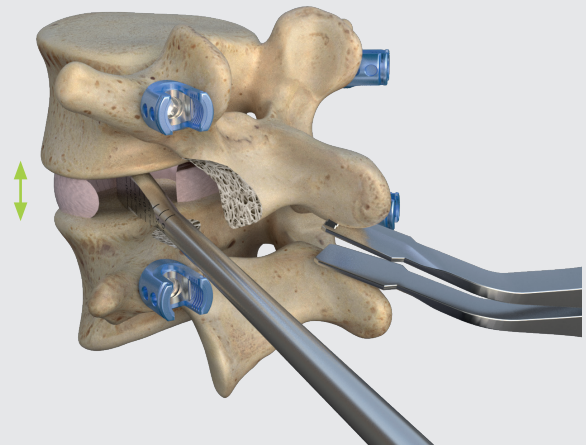


Fig. 7 Spreading the disc space with the paddle sizer

NOTE: Overdistraction should be avoided. This increases the risk of damage to the inferior and superior endplates and subsequent sinking of the implant and jeopardizes the restoration of physiological lordosis.

Selecting the trial implant

RI-1324
ROCCIA Inserter M4,
demountable



RI-1207*
ROCCIA Paddle Sizer 7 mm



GI-3101**
T-Handle



Blunt paddle sizers with depth markings between 20 and 60 mm in 5-mm increments are available to determine the size of the disc space. With heights of 7–13 mm (1-mm increments) as well as 15 mm and 17 mm, they correspond to the size of the later implant. Trial implants can be selected on the basis of these measurements and under image converter control (Fig. 8).

An appropriate trial implant with 5° or 15° lordosis is available for each definitive cage size. The trial implants are color-marked analogously to the implants to be implanted later on. The color marking additionally facilitates the identification of the matching inserter, which has correspondingly colored rings on the instrument stem.

* Representative of other distractor sizes,
see ROCCIA Instruments

** Representative of other T-handles
see General instruments

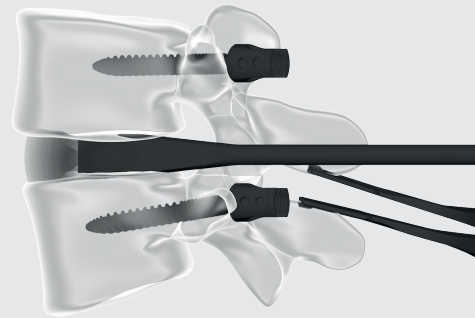


Fig. 8 Image converter control with paddle sizer for selection of the trial implant

Determining the cage sizes with the trial implants

RI-1324
ROCCIA Inserter M4,
dismountable



RI-T11341205*
ROCCIA TLIF Trial
11 x 34 x 12 mm 5°



ROCCIA Inserters are required to insert the trial implants. The ROCCIA Inserters fit onto both the trial implants and the definitive implants. The selected trial implant is screwed completely onto the respective ROCCIA Inserter and then, applying gentle pressure, carefully inserted through the transforaminal window into the intervertebral space (Fig. 9). At the surgeon's discretion a mallet can also be used to insert the trial. After that, the position and size of the trial implant is verified in the image converter.

To ensure that the height of the intervertebral disc is preserved after loosening the distraction, the implant must fit between the endplates after full distraction of the segment.

Using the largest possible implant for each individual patient maximizes the stability of the segment.

If the trial implant does not sufficiently fill in the intervertebral disc space, the next larger implant must be used. If the trial implant cannot be inserted because the intervertebral disc space is too small, either the next smaller size has to be used or the segment has to be distracted further using the aforementioned instruments. Once the correct size has been determined, the distraction can be temporarily loosened.

* Representative of other trial implant sizes
see ROCCIA Trial Implants

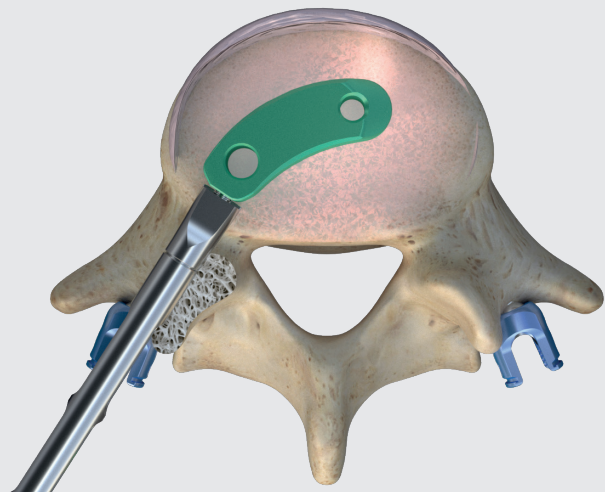


Fig. 9 Introducing the trial implant

NOTE: Correctly selecting the cage size has a decisive impact on the success of the instrumentation and fusion.

NOTE: The height of the trial implant matches the height of the final ROCCIA TLIF Implant including the interlock.

Multitude of cage sizes

To optimize the treatment of the patient in terms of anatomy and pathology, a wide range of ROCCIA TLIF sizes is available (Fig. 10). The portfolio comprises nine anterior heights (from 7 to 13 mm, in 1 mm increments, and heights of 15 mm and 17 mm) and two widths (28 and 34 mm). In addition to the regular lordotic angles of 0°, 5°, and 10°, hyperlordotic cages with an angle of 15° are also available. The inserter with the particular color code corresponds to the respective cage.

28 / 34 mm

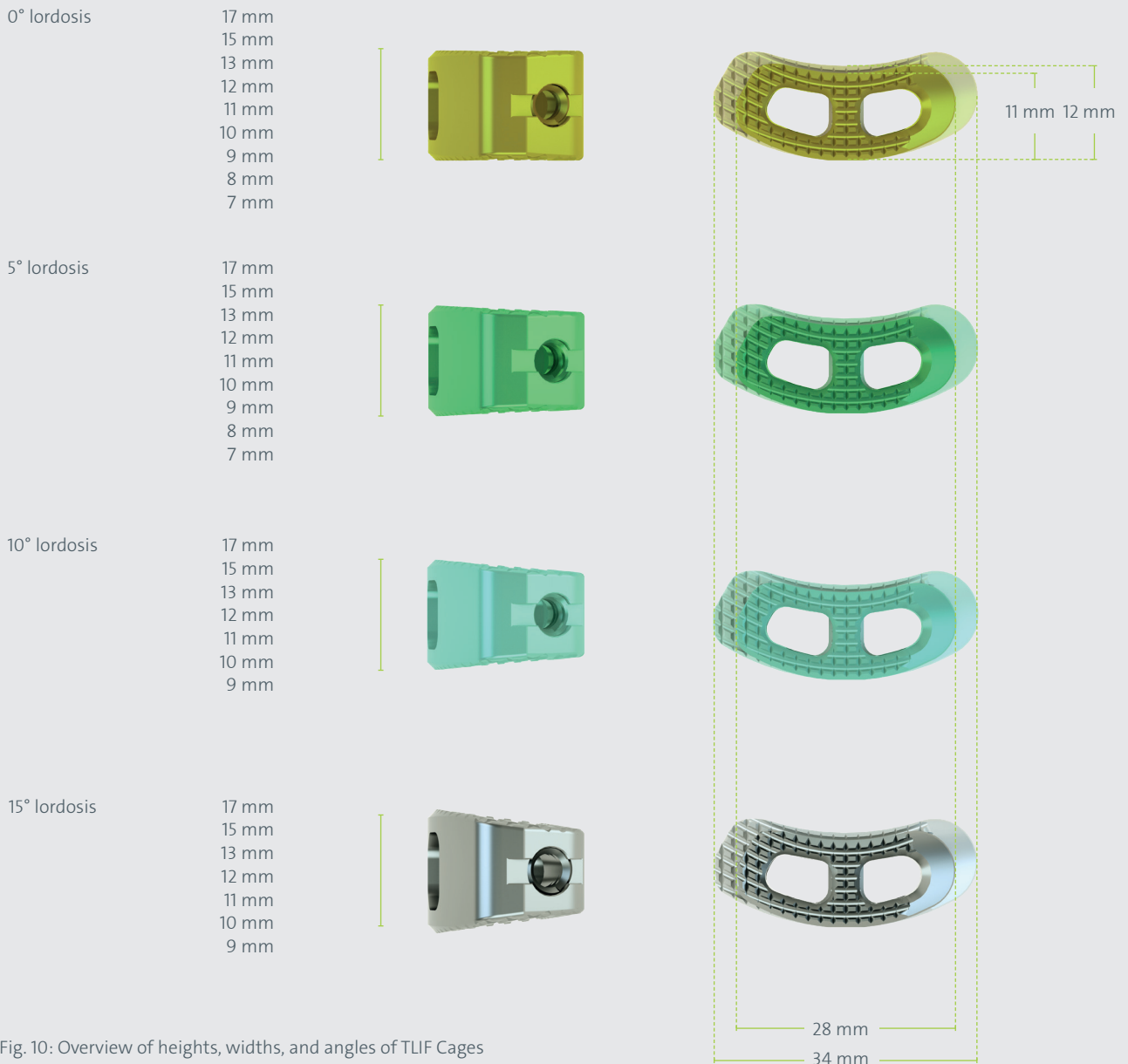


Fig. 10: Overview of heights, widths, and angles of TLIF Cages

Filling of the cage

RI-1324
ROCCIA Inserter M4,
dismountable



RI-2090
ROCCIA TLIF Loading Block



RI-2051
ROCCIA Bone Graft Pusher



Remaining areas of the intervertebral disc space can be filled with autologous bone (e.g., from the iliac crest), with homologous bone (foreign cancellous bone) or with bone graft material either before or after implantation of the cage in order to achieve the largest possible fusion surface area. The bone material must be inserted well compressed into the cage. Filling of the disc space, but also filling of the implant, is an important prerequisite for secure fusion. A loading block and a pusher are provided for this (Fig. 11).

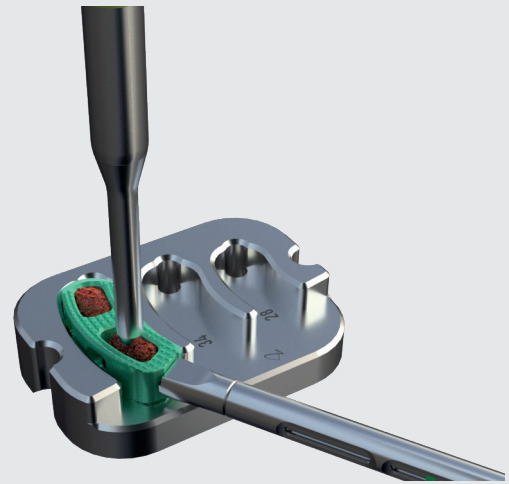


Fig. 11 Filling the cage with bone material in the loading block with pusher

Inserting the cage

RI-1324
ROCCIA Inserter M4,
dismountable



RI-1355
ROCCIA Slotted Mallet, solid



The ROCCIA Inserter, which is used in the same way as previously for the trial implants, is screwed completely into the threaded holes of the cage, enabling the cage to be definitively inserted without requiring any further instrument change (Fig. 12).

The implant should be inserted promptly after removal of the trial to prevent subsequent sinking. The filled implant is carefully inserted into the disc space and the correct alignment of the implant is verified. Slight pressure or careful hammering with the ROCCIA Slotted Mallet on the inserter may be required.

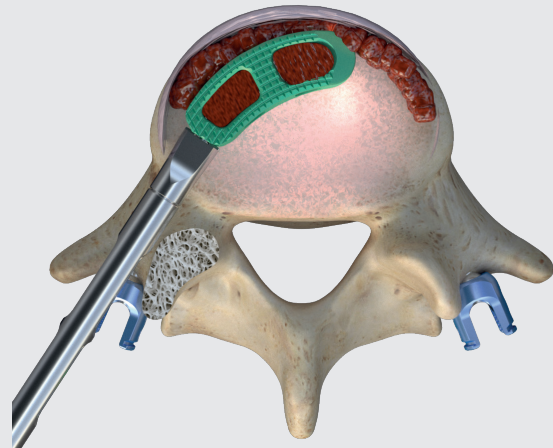


Fig. 12 Inserting the filled cage into the disc space

Correct position of the ROCCIA® TLIF Cage

If possible, when using the TLIF approach, the ROCCIA Inserter is left inside the cage until an AP image and a lateral image with the image converter confirm the correct position of the cage.

For biomechanical reasons, the optimal position of the implanted ROCCIA TLIF Cage should be in the anterior to central third of the disc space, centered as far as possible in the frontal projection (guided by the spinous processes or pedicles, Figs. 13 and 14).

The more anterior the cage is positioned, the better lordosis can be achieved in the respective section of the spine.

Once it has been successfully implanted, the remaining disc space should be filled up to ensure secure fusion.

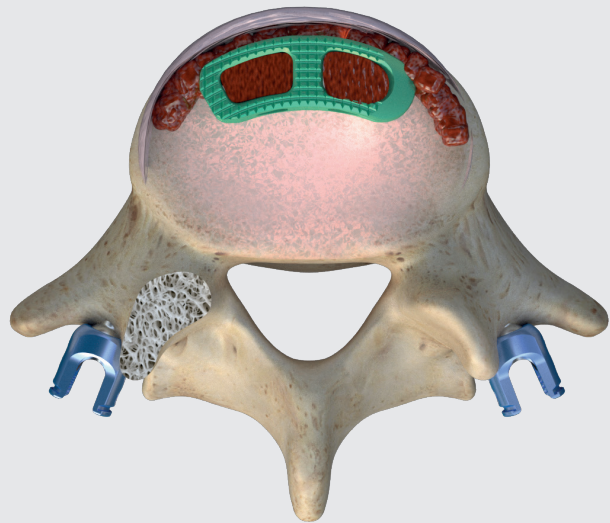


Fig. 13 Optimal position of the filled TLIF Cage

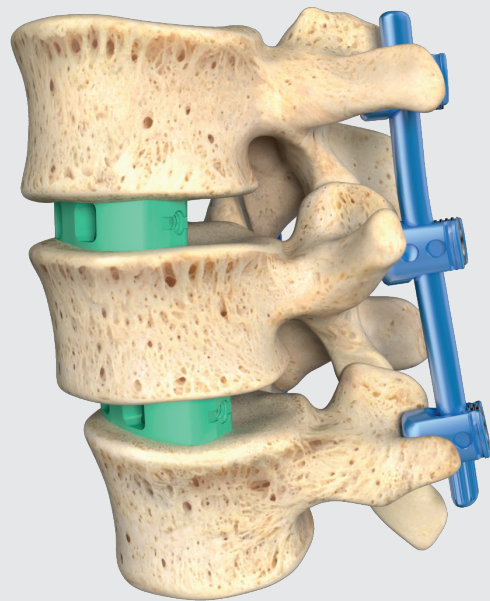


Fig. 14 Optimal position of the filled TLIF Cage including posterior fixation

NOTE: Posterior tension band wiring with the VERTICALE Posterior Spinal Fixator is recommended. Tension band wiring supports the biomechanical stability of the motion segment and the stability of the TLIF Cage. The final steps of posterior fixation (e.g., insertion of the rod, compression, and final tightening of the set screws) are completed after implantation of the cage.

NOTE: When implanting a TLIF Cage with 15° lordosis, it is also imperative to stabilize the segment using a fixation system or anterior plating.

POSITION CORRECTION OF THE ROCCIA TLIF CAGE

A straight implant driver and a hooked implant driver are provided for definitive positioning of the ROCCIA TLIF Cage. The use of these instruments is outlined below.

Hooked implant driver

RI-1343
ROCCIA Hooked Implant Driver,
reinforced



RI-1355
ROCCIA Slotted Mallet, solid



The reinforced ROCCIA Hooked Implant Driver is inserted into the drill-hole of the cage (Fig. 15). The shape of this hooked implant driver provides good stability for the desired correction, which can be carried out carefully with the aid of the slotted mallet.

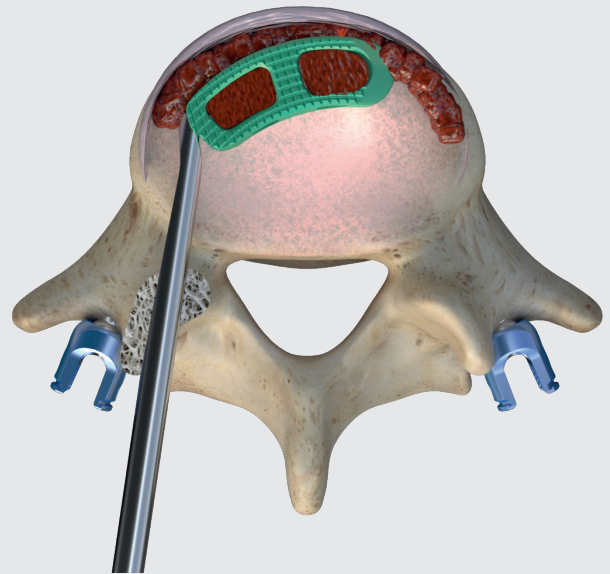


Fig. 15 Hooked implant driver for correcting the position of the cage

Implant Driver Straight

RI-1340
ROCCIA Implant Driver Straight



RI-1355
ROCCIA Slotted Mallet, solid



The ROCCIA Implant Driver is positioned straight onto the lateral posterior front of the cage (Fig. 16). The cage can then be carefully moved into the desired position with the slotted mallet.

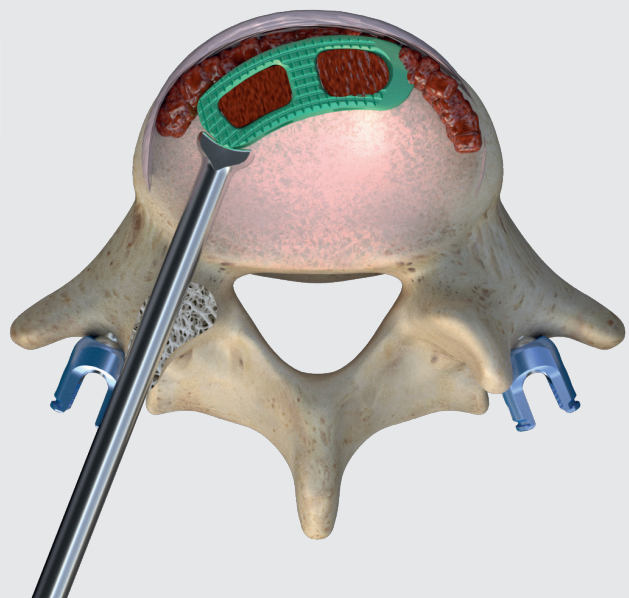


Fig. 16 Straight implant driver to finalize the position of the cage

Insertor as a driver

RI-1324
ROCCIA Insertor M4,
dismountable



RI-1355
ROCCIA Slotted Mallet,
solid



The insertor can be used in a range of ways: Using the rotating handle, the two instrument components can be disassembled so that both individual components are available for use. The body can be attached to the cage again after removal of the core and used as a driver by striking the instrument directly with the hammer. This allows the cage to be positioned more anteriorly. The driving should be carried out under monitoring with the image converter.



Fig. 17 Insertor functioning as a driver

Insertor as a revision instrument

RI-1324
ROCCIA Insertor M4,
dismountable



RI-1355
ROCCIA Slotted Mallet, solid



To be able to remove the ROCCIA TLIF Implant again, the inner core can be used. The core contains the thread for the cage connection and is now attached to the cage and firmly tightened. A revision of a cage requires that the instrument is screwed in to the stop. Using gentle, controlled impacts with the slotted mallet below the handle attachment, the cage can now undergo revision.



Fig. 18 Insertor functioning as a revision instrument

NOTE: The neurogenic structures should be protected when doing so.

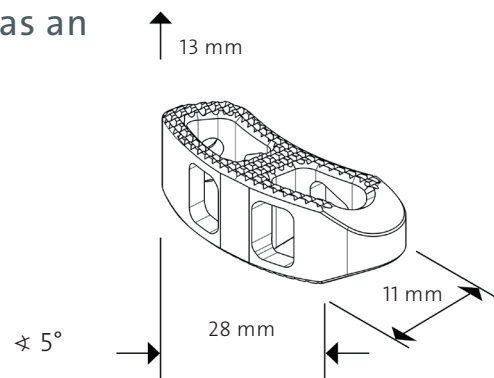
ROCCIA® TLIF PRODUCT INFORMATION

| | |
|--|-------|
| ROCCIA TLIF Implants by article number | PI 02 |
| ROCCIA TLIF Trial Implants by article number | PI 05 |
| ROCCIA Instruments by article number | PI 07 |
| General Instruments by article number | PI 10 |
| ROCCIA Alphabetical Index | PI 11 |

ROCCIA® TLIF Implants

Article number explanation for the cage, as an example

ROCCIA TLIF Cage, 13 x 28 x 11 mm, 5° lor.



Product classification: All implants listed below correspond to class IIb (CE₀₄₈₃) as defined by the Medical Device Directive (MDD 93/42/EEC) unless otherwise explicitly indicated.

| Article number | Description | Illustration |
|------------------|--|--------------|
| S-RTT-07281100-S | ROCCIA TLIF Cage 7 x 28 x 11 mm, 0° lor. | |
| S-RTT-08281100-S | ROCCIA TLIF Cage 8 x 28 x 11 mm, 0° lor. | |
| S-RTT-09281100-S | ROCCIA TLIF Cage 9 x 28 x 11 mm, 0° lor. | |
| S-RTT-10281100-S | ROCCIA TLIF Cage 10 x 28 x 11 mm, 0° lor. | |
| S-RTT-11281100-S | ROCCIA TLIF Cage 11 x 28 x 11 mm, 0° lor. | |
| S-RTT-12281100-S | ROCCIA TLIF Cage 12 x 28 x 11 mm, 0° lor. | |
| S-RTT-13281100-S | ROCCIA TLIF Cage 13 x 28 x 11 mm, 0° lor. | |
| S-RTT-15281100-S | ROCCIA TLIF Cage 15 x 28 x 11 mm, 0° lor. | |
| S-RTT-17281100-S | ROCCIA TLIF Cage 17 x 28 x 11 mm, 0° lor. | |
| S-RTT-07281105-S | ROCCIA TLIF Cage 7 x 28 x 11 mm, 5° lor. | |
| S-RTT-08281105-S | ROCCIA TLIF Cage 8 x 28 x 11 mm, 5° lor. | |
| S-RTT-09281105-S | ROCCIA TLIF Cage 9 x 28 x 11 mm, 5° lor. | |
| S-RTT-10281105-S | ROCCIA TLIF Cage 10 x 28 x 11 mm, 5° lor. | |
| S-RTT-11281105-S | ROCCIA TLIF Cage 11 x 28 x 11 mm, 5° lor. | |
| S-RTT-12281105-S | ROCCIA TLIF Cage 12 x 28 x 11 mm, 5° lor. | |
| S-RTT-13281105-S | ROCCIA TLIF Cage 13 x 28 x 11 mm, 5° lor. | |
| S-RTT-15281105-S | ROCCIA TLIF Cage 15 x 28 x 11 mm, 5° lor. | |
| S-RTT-17281105-S | ROCCIA TLIF Cage 17 x 28 x 11 mm, 5° lor. | |
| S-RTT-09281110-S | ROCCIA TLIF Cage 9 x 28 x 11 mm, 10° lor. | |
| S-RTT-10281110-S | ROCCIA TLIF Cage 10 x 28 x 11 mm, 10° lor. | |
| S-RTT-11281110-S | ROCCIA TLIF Cage 11 x 28 x 11 mm, 10° lor. | |
| S-RTT-12281110-S | ROCCIA TLIF Cage 12 x 28 x 11 mm, 10° lor. | |
| S-RTT-13281110-S | ROCCIA TLIF Cage 13 x 28 x 11 mm, 10° lor. | |
| S-RTT-15281110-S | ROCCIA TLIF Cage 15 x 28 x 11 mm, 10° lor. | |
| S-RTT-17281110-S | ROCCIA TLIF Cage 17 x 28 x 11 mm, 10° lor. | |

System:
ROCCIA

Implant type:
TLIF

Configuration:
28 mm

Material:
Ti6Al4V ELI




ROCCIA® TLIF Implants

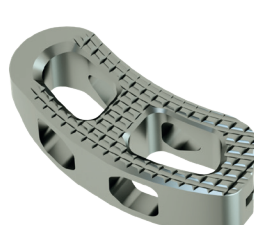
System:
ROCCIA

Implant type:
TLIF

Configuration:
28 mm

Material:
Ti6Al4V ELI

 D30088


| Article number | Description | Illustration |
|-----------------|--|---|
| S-RTT09281115-S | ROCCIA TLIF Cage 9 x 28 x 11 mm, 15° lor. |  |
| S-RTT10281115-S | ROCCIA TLIF Cage 10 x 28 x 11 mm, 15° lor. | |
| S-RTT11281115-S | ROCCIA TLIF Cage 11 x 28 x 11 mm, 15° lor. | |
| S-RTT12281115-S | ROCCIA TLIF Cage 12 x 28 x 11 mm, 15° lor. | |
| S-RTT13281115-S | ROCCIA TLIF Cage 13 x 28 x 11 mm, 15° lor. | |
| S-RTT15281115-S | ROCCIA TLIF Cage 15 x 28 x 11 mm, 15° lor. | |
| S-RTT17281115-S | ROCCIA TLIF Cage 17 x 28 x 11 mm, 15° lor. | |

System:
ROCCIA

Implant type:
TLIF

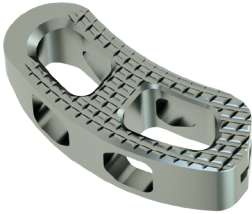
Configuration:
34 mm

Material:
Ti6Al4V ELI

 D30088

| Article number | Description | Illustration |
|------------------|--|---|
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| S-RTT-08341200-S | ROCCIA TLIF Cage 8 x 34 x 12 mm, 0° lor. | |
| S-RTT-09341200-S | ROCCIA TLIF Cage 9 x 34 x 12 mm, 0° lor. | |
| S-RTT-10341200-S | ROCCIA TLIF Cage 10 x 34 x 12 mm, 0° lor. | |
| S-RTT-11341200-S | ROCCIA TLIF Cage 11 x 34 x 12 mm, 0° lor. | |
| S-RTT-12341200-S | ROCCIA TLIF Cage 12 x 34 x 12 mm, 0° lor. | |
| S-RTT-13341200-S | ROCCIA TLIF Cage 13 x 34 x 12 mm, 0° lor. | |
| S-RTT-15341200-S | ROCCIA TLIF Cage 15 x 34 x 12 mm, 0° lor. | |
| S-RTT-17341200-S | ROCCIA TLIF Cage 17 x 34 x 12 mm, 0° lor. | |
| S-RTT-07341205-S | ROCCIA TLIF Cage 7 x 34 x 12 mm, 5° lor. | |
| S-RTT-08341205-S | ROCCIA TLIF Cage 8 x 34 x 12 mm, 5° lor. | |
| S-RTT-09341205-S | ROCCIA TLIF Cage 9 x 34 x 12 mm, 5° lor. | |
| S-RTT-10341205-S | ROCCIA TLIF Cage 10 x 34 x 12 mm, 5° lor. | |
| S-RTT-11341205-S | ROCCIA TLIF Cage 11 x 34 x 12 mm, 5° lor. | |
| S-RTT-12341205-S | ROCCIA TLIF Cage 12 x 34 x 12 mm, 5° lor. | |
| S-RTT-13341205-S | ROCCIA TLIF Cage 13 x 34 x 12 mm, 5° lor. | |
| S-RTT-15341205-S | ROCCIA TLIF Cage 15 x 34 x 12 mm, 5° lor. | |
| S-RTT-17341205-S | ROCCIA TLIF Cage 17 x 34 x 12 mm, 5° lor. | |
| S-RTT-09341210-S | ROCCIA TLIF Cage 9 x 34 x 12 mm, 10° lor. |  |
| S-RTT-10341210-S | ROCCIA TLIF Cage 10 x 34 x 12 mm, 10° lor. | |
| S-RTT-11341210-S | ROCCIA TLIF Cage 11 x 34 x 12 mm, 10° lor. | |
| S-RTT-12341210-S | ROCCIA TLIF Cage 12 x 34 x 12 mm, 10° lor. | |
| S-RTT-13341210-S | ROCCIA TLIF Cage 13 x 34 x 12 mm, 10° lor. | |
| S-RTT-15341210-S | ROCCIA TLIF Cage 15 x 34 x 12 mm, 10° lor. | |
| S-RTT-17341210-S | ROCCIA TLIF Cage 17 x 34 x 12 mm, 10° lor. | |

ROCCIA® TLIF Implants

| Article number | Description | Description |
|-----------------|--|--|
| S-RTT09341215-S | ROCCIA TLIF Cage 9 x 34 x 12 mm, 15° lor. |  |
| S-RTT10341215-S | ROCCIA TLIF Cage 10 x 34 x 12 mm, 15° lor. | |
| S-RTT11341215-S | ROCCIA TLIF Cage 11 x 34 x 12 mm, 15° lor. | |
| S-RTT12341215-S | ROCCIA TLIF Cage 12 x 34 x 12 mm, 15° lor. | |
| S-RTT13341215-S | ROCCIA TLIF Cage 13 x 34 x 12 mm, 15° lor. | |
| S-RTT15341215-S | ROCCIA TLIF Cage 15 x 34 x 12 mm, 15° lor. | |
| S-RTT17341215-S | ROCCIA TLIF Cage 17 x 34 x 12 mm, 15° lor. | |

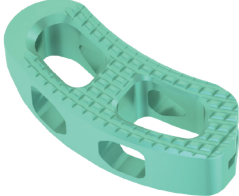
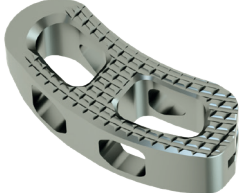
System:
ROCCIA

Implant type:
TLIF

Configuration:
34 mm

Material:
Ti6Al4V ELI

 D30088

| Article number | Description | Description |
|------------------|--|--|
| S-RTT-09401310-S | ROCCIA TLIF Cage 09 x 40 x 13 mm, 10° lor. |  |
| S-RTT-10401310-S | ROCCIA TLIF Cage 10 x 40 x 13 mm, 10° lor. | |
| S-RTT-11401310-S | ROCCIA TLIF Cage 11 x 40 x 13 mm, 10° lor. | |
| S-RTT-12401310-S | ROCCIA TLIF Cage 12 x 40 x 13 mm, 10° lor. | |
| S-RTT-13401310-S | ROCCIA TLIF Cage 13 x 40 x 13 mm, 10° lor. | |
| S-RTT-15401310-S | ROCCIA TLIF Cage 15 x 40 x 13 mm, 10° lor. | |
| S-RTT-09401315-S | ROCCIA TLIF Cage 09 x 40 x 13 mm, 15° lor. |  |
| S-RTT-11401315-S | ROCCIA TLIF Cage 11 x 40 x 13 mm, 15° lor. | |
| S-RTT-12401315-S | ROCCIA TLIF Cage 12 x 40 x 13 mm, 15° lor. | |

System:
ROCCIA

Implant type:
TLIF

Configuration:
40 mm

Material:
Ti6Al4V ELI

 D30088

ROCCIA® TLIF Trial Implants


Product classification: All instruments listed below correspond to class I as defined by the Medical Device Directive (MDD 93/42/EEC) unless otherwise explicitly indicated.


System:
ROCCIA

Instrument type:
Trial implant

Configuration:
28 mm

Material:
Ti6Al4V ELI

 D30003

| Article number | Description | Illustration |
|----------------|---|--|
| RI-T07281105 | ROCCIA TLIF Trial 7 x 28 x 11 mm, 5° lor. |  |
| RI-T08281105 | ROCCIA TLIF Trial 8 x 28 x 11 mm, 5° lor. | |
| RI-T09281105 | ROCCIA TLIF Trial 9 x 28 x 11 mm, 5° lor. | |
| RI-T10281105 | ROCCIA TLIF Trial 10 x 28 x 11 mm, 5° lor. | |
| RI-T11281105 | ROCCIA TLIF Trial 11 x 28 x 11 mm, 5° lor. | |
| RI-T12281105 | ROCCIA TLIF Trial 12 x 28 x 11 mm, 5° lor. | |
| RI-T13281105 | ROCCIA TLIF Trial 13 x 28 x 11 mm, 5° lor. | |
| RI-T15281105 | ROCCIA TLIF Trial 15 x 28 x 11 mm, 5° lor. |  |
| RI-T17281105 | ROCCIA TLIF Trial 17 x 28 x 11 mm, 5° lor. | |
| RI-T09281115 | ROCCIA TLIF Trial 9 x 28 x 11 mm, 15° lor. | |
| RI-T10281115 | ROCCIA TLIF Trial 10 x 28 x 11 mm, 15° lor. | |
| RI-T11281115 | ROCCIA TLIF Trial 11 x 28 x 11 mm, 15° lor. | |
| RI-T12281115 | ROCCIA TLIF Trial 12 x 28 x 11 mm, 15° lor. | |
| RI-T13281115 | ROCCIA TLIF Trial 13 x 28 x 11 mm, 15° lor. | |
| RI-T15281115 | ROCCIA TLIF Trial 15 x 28 x 11 mm, 15° lor. | |
| RI-T17281115 | ROCCIA TLIF Trial 17 x 28 x 11 mm, 15° lor. | |



System:
ROCCIA

Instrument type:
Trial implant


Configuration:
34 mm

Material:
Ti6Al4V ELI

 D30003

| Article number | Description | Illustration |
|----------------|---|---|
| RI-T07341205 | ROCCIA TLIF Trial 7 x 34 x 12 mm, 5° lor. |  |
| RI-T08341205 | ROCCIA TLIF Trial 8 x 34 x 12 mm, 5° lor. | |
| RI-T09341205 | ROCCIA TLIF Trial 9 x 34 x 12 mm, 5° lor. | |
| RI-T10341205 | ROCCIA TLIF Trial 10 x 34 x 12 mm, 5° lor. | |
| RI-T11341205 | ROCCIA TLIF Trial 11 x 34 x 12 mm, 5° lor. | |
| RI-T12341205 | ROCCIA TLIF Trial 12 x 34 x 12 mm, 5° lor. | |
| RI-T13341205 | ROCCIA TLIF Trial 13 x 34 x 12 mm, 5° lor. | |
| RI-T15341205 | ROCCIA TLIF Trial 15 x 34 x 12 mm, 5° lor. |  |
| RI-T17341205 | ROCCIA TLIF Trial 17 x 34 x 12 mm, 5° lor. | |
| RI-T09341215 | ROCCIA TLIF Trial 9 x 34 x 12 mm, 15° lor. | |
| RI-T10341215 | ROCCIA TLIF Trial 10 x 34 x 12 mm, 15° lor. | |
| RI-T11341215 | ROCCIA TLIF Trial 11 x 34 x 12 mm, 15° lor. | |
| RI-T12341215 | ROCCIA TLIF Trial 12 x 34 x 12 mm, 15° lor. | |
| RI-T13341215 | ROCCIA TLIF Trial 13 x 34 x 12 mm, 15° lor. | |
| RI-T15341215 | ROCCIA TLIF Trial 15 x 34 x 12 mm, 15° lor. | |
| RI-T17341215 | ROCCIA TLIF Trial 17 x 34 x 12 mm, 15° lor. | |

ROCCIA® TLIF Trial Implants

| Artikelnummer | Beschreibung | Abbildung |
|---------------|---|--|
| RI-T09401315 | ROCCIA TLIF Trial 9 x 40 x 13 mm, 15° lor. |  |
| RI-T10401315 | ROCCIA TLIF Trial 10 x 40 x 13 mm, 15° lor. | |
| RI-T11401315 | ROCCIA TLIF Trial 11 x 40 x 13 mm, 15° lor. | |
| RI-T12401315 | ROCCIA TLIF Trial 12 x 40 x 13 mm, 15° lor. | |
| RI-T13401315 | ROCCIA TLIF Trial 13 x 40 x 13 mm, 15° lor. | |
| RI-T15401315 | ROCCIA TLIF Trial 15 x 40 x 13 mm, 15° lor. | |

System:
ROCCIA

Instrument type:
Trial implant

Configuration:
40 mm

Material:
Ti6Al4V ELI

 D30003

ROCCIA® Instruments


Product classification: All instruments listed below correspond to class I as defined by the Medical Device Directive (MDD 93/42/EEC) unless otherwise explicitly indicated.

| Article number | Description | Illustration | Page |
|----------------|---|---|------|
| RI-1006 | ROCCIA Chisel 6 mm Width |  | 6 |
| RI-1008 | ROCCIA Chisel 8 mm Width | | |
| RI-1010 | ROCCIA Chisel 10 mm Width | | |
| RI-1020 | ROCCIA Ring Endplate Scraper Straight |  | 8, 9 |
| RI-1021 | ROCCIA Ring Endplate Scraper Angled 25° |  | 8, 9 |
| RI-1022 | ROCCIA Ring Endplate Scraper Curved 45° |  | 8, 9 |
| RI-1030 | ROCCIA Box Endplate Scraper Straight |  | 9 |
| RI-1040 | ROCCIA Curette Straight |  | 8 |
| RI-1041 | ROCCIA Curette Curved Right 45° |  | 8 |
| RI-1042 | ROCCIA Curette Curved Left 45° |  | 8 |
| RI-1050 | ROCCIA Rasp Curved 45° |  | 9 |


| Article number | Description | Illustration | Page |
|----------------|---------------------|---|------|
| RI-1107 | ROCCIA Shaver 7 mm | | |
| RI-1108 | ROCCIA Shaver 8 mm | | |
| RI-1109 | ROCCIA Shaver 9 mm | | |
| RI-1110 | ROCCIA Shaver 10 mm | | |
| RI-1111 | ROCCIA Shaver 11 mm |  | 8, 9 |
| RI-1112 | ROCCIA Shaver 12 mm | | |
| RI-1113 | ROCCIA Shaver 13 mm | | |
| RI-1115 | ROCCIA Shaver 15 mm | | |
| RI-1117 | ROCCIA Shaver 17 mm | | |

ROCCIA® Instruments

| Article number | Description | Illustration | Page |
|----------------|--|---|----------------|
| RI-1207 | ROCCIA Paddle Sizer 7 mm |  | 10, 11 |
| RI-1208 | ROCCIA Paddle Sizer 8 mm | | |
| RI-1209 | ROCCIA Paddle Sizer 9 mm | | |
| RI-1210 | ROCCIA Paddle Sizer 10 mm | | |
| RI-1211 | ROCCIA Paddle Sizer 11 mm | | |
| RI-1212 | ROCCIA Paddle Sizer 12 mm | | |
| RI-1213 | ROCCIA Paddle Sizer 13 mm | | |
| RI-1215 | ROCCIA Paddle Sizer 15 mm | | |
| RI-1217 | ROCCIA Paddle Sizer 17 mm | | |
| RI-1324 | ROCCIA Inserter M4, dismountable |  | 11, 12, 14, 15 |
| RI-1330 | ROCCIA Removal Adapter |  | No image |
| RI-1340 | ROCCIA Implant Driver Straight |  | 18 |
| RI-1343 | ROCCIA Hooked Implant Driver, reinforced |  | 18 |
| RI-1355 | ROCCIA Slotted Mallet, solid |  | 15, 18, 19 |

| Article number | Description | Illustration | Page |
|----------------|---|---|------|
| RI-1406 | ROCCIA Chisel 6 mm width, reinforced |  | 6 |
| RI-1408 | ROCCIA Chisel 8 mm width, reinforced | | |
| RI-1410 | ROCCIA Chisel 10 mm width, reinforced | | |
| RI-1506 | ROCCIA Chisel 6 mm, angled 25° |  | 6 |
| RI-1508 | ROCCIA Chisel 8 mm, angled 25° | | |
| RI-1510 | ROCCIA Chisel 10 mm, angled 25° | | |
| RI-1706 | ROCCIA Chisel 6 mm, angled 25°, reinforced |  | 6 |
| RI-1708 | ROCCIA Chisel 8 mm, angled 25°, reinforced | | |
| RI-1710 | ROCCIA Chisel 10 mm, angled 25°, reinforced | | |
| RI-2090 | ROCCIA TLIF Loading Block |  | 14 |
| RI-2051 | ROCCIA Bone Graft Pusher |  | 14 |

General Instruments

| Article number | Description | Illustration | Page |
|----------------|-----------------|---|--------------|
| GI-2101 | T-Handle, short |  | 8, 9, 10, 11 |
| GI-3101 | T-Handle | | |

ROCCIA® Alphabetical Index

| A-Z | Description | Article number | Page |
|-----|--------------------------------------|----------------|----------------|
| B | Bone Graft Pusher | RI-2051 | 14 |
| | Box Endplate Scraper Straight | RI-1030 | 9 |
| C | Chisel 6 mm width | RI-1006 | 6 |
| | Chisel 8 mm width | RI-1008 | |
| | Chisel 10 mm width | RI-1010 | |
| | Chisel 6 mm width, reinforced | RI-1406 | |
| | Chisel 8 mm width, reinforced | RI-1408 | |
| | Chisel 10 mm width, reinforced | RI-1410 | |
| | Chisel 6 mm width, angled 25° | RI-1506 | |
| | Chisel 8 mm width, angled 25° | RI-1508 | |
| | Chisel 10 mm width, angled 25° | RI-1510 | |
| | Chisel 6 mm, angled 25°, reinforced | RI-1706 | |
| | Chisel 8 mm, angled 25°, reinforced | RI-1708 | |
| | Chisel 10 mm, angled 25°, reinforced | RI-1710 | |
| | Curette, curved Left 45° | RI-1042 | |
| | Curette, curved Right 45° | RI-1041 | |
| | Curette, straight | RI-1040 | |
| H | Hooked Implant Driver, reinforced | RI-1343 | 18 |
| I | Implant Driver Straight | RI-1340 | 18 |
| | Insertor, M4, dismountable | RI-1324 | 11, 12, 14, 15 |
| P | Paddle Sizer 7 mm | RI-1207 | 10, 11 |
| | Paddle Sizer 8 mm | RI-1208 | |
| | Paddle Sizer 9 mm | RI-1209 | |
| | Paddle Sizer 10 mm | RI-1210 | |
| | Paddle Sizer 11 mm | RI-1211 | |
| | Paddle Sizer 12 mm | RI-1212 | |
| | Paddle Sizer 13 mm | RI-1213 | |
| | Paddle Sizer 15 mm | RI-1215 | |
| | Paddle Sizer 17 mm | RI-1217 | |
| R | Rasp, curved 45° | RI-1050 | 9 |
| | Removal Adapter | RI-1330 | No image |
| | Ring Endplate Scraper, curved 45° | RI-1022 | 8, 9 |
| | Ring Endplate Scraper Straight | RI-1020 | |
| | Ring Endplate Scraper, angled 25° | RI-1021 | |
| S | Slotted Mallet, solid | RI-1355 | 15, 18, 19 |
| | Shaver 7 mm | RI-1107 | 8, 9 |
| | Shaver 8 mm | RI-1108 | |
| | Shaver 9 mm | RI-1109 | |
| | Shaver 10 mm | RI-1110 | |

ROCCIA® Alphabetical Index

| A-Z | Description | Article number | Page |
|-----|---------------------------------|----------------|--------------|
| S | Shaver 11 mm | RI-1111 | 8, 9 |
| | Shaver 12 mm | RI-1112 | |
| | Shaver 13 mm | RI-1113 | |
| | Shaver 15 mm | RI-1115 | |
| | Shaver 17 mm | RI-1117 | |
| T | T-Handle, short | GI-2101 | 8, 9, 10, 11 |
| | T-Handle | GI-3101 | |
| | TLIF Loading Block | RI-2090 | 14 |
| | Trial 7 x 28 x 11 mm, 5° lor. | RI-T07281105 | 12 |
| | Trial 8 x 28 x 11 mm, 5° lor. | RI-T08281105 | |
| | Trial 9 x 28 x 11 mm, 5° lor. | RI-T09281105 | |
| | Trial 10 x 28 x 11 mm, 5° lor. | RI-T10281105 | |
| | Trial 11 x 28 x 11 mm, 5° lor. | RI-T11281105 | |
| | Trial 12 x 28 x 11 mm, 5° lor. | RI-T12281105 | |
| | Trial 13 x 28 x 11 mm, 5° lor. | RI-T13281105 | |
| | Trial 15 x 28 x 11 mm, 5° lor. | RI-T15281105 | |
| | Trial 17 x 28 x 11 mm, 5° lor. | RI-T17281105 | |
| | Trial 09 x 28 x 11 mm, 15° lor. | RI-T09281115 | |
| | Trial 10 x 28 x 11 mm, 15° lor. | RI-T10281115 | |
| | Trial 11 x 28 x 11 mm, 15° lor. | RI-T11281115 | |
| | Trial 12 x 28 x 11 mm, 15° lor. | RI-T12281115 | |
| | Trial 13 x 28 x 11 mm, 15° lor. | RI-T13281115 | |
| | Trial 15 x 28 x 11 mm, 15° lor. | RI-T15281115 | |
| | Trial 17 x 28 x 11 mm, 15° lor. | RI-T17281115 | |
| | Trial 7 x 34 x 12 mm, 5° lor. | RI-T07341205 | |
| | Trial 8 x 34 x 12 mm, 5° lor. | RI-T08341205 | |
| | Trial 9 x 34 x 12 mm, 5° lor. | RI-T09341205 | |
| | Trial 10 x 34 x 12 mm, 5° lor. | RI-T10341205 | |
| | Trial 11 x 34 x 12 mm, 5° lor. | RI-T11341205 | |
| | Trial 12 x 34 x 12 mm, 5° lor. | RI-T12341205 | |
| | Trial 13 x 34 x 12 mm, 5° lor. | RI-T13341205 | |
| | Trial 15 x 34 x 12 mm, 5° lor. | RI-T15341205 | |
| | Trial 17 x 34 x 12 mm, 5° lor. | RI-T17341205 | |
| | Trial 09 x 34 x 12 mm, 15° lor. | RI-T09341215 | |
| | Trial 10 x 34 x 12 mm, 15° lor. | RI-T10341215 | |
| | Trial 11 x 34 x 12 mm, 15° lor. | RI-T11341215 | |
| | Trial 12 x 34 x 12 mm, 15° lor. | RI-T12341215 | |
| | Trial 13 x 34 x 12 mm, 15° lor. | RI-T13341215 | |
| | Trial 15 x 34 x 12 mm, 15° lor. | RI-T15341215 | |
| | Trial 17 x 34 x 12 mm, 15° lor. | RI-T17341215 | |

ROCCIA® Alphabetical Index

| A-Z | Description | Article number | Page |
|-----|---|----------------|------|
| T | ROCCIA TLIF Trial 9 x 40 x 13 mm, 15° lor. | RI-T09401315 | 12 |
| | ROCCIA TLIF Trial 10 x 40 x 13 mm, 15° lor. | RI-T10401315 | |
| | ROCCIA TLIF Trial 11 x 40 x 13 mm, 15° lor. | RI-T11401315 | |
| | ROCCIA TLIF Trial 12 x 40 x 13 mm, 15° lor. | RI-T12401315 | |
| | ROCCIA TLIF Trial 13 x 40 x 13 mm, 15° lor. | RI-T13401315 | |
| | ROCCIA TLIF Trial 15 x 40 x 13 mm, 15° lor. | RI-T15401315 | |

Notes

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