

# ROCCIA MULTILIF<sup>®</sup> FOR LUMBAR SPINAL FUSION

INSTRUMENTATION GUIDE



MADE IN GERMANY

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**NOTE:** This Guide describes the use of the ROCCIA MultiLIF System as a TLIF, LLIF, and ALIF instrumentation – it does not replace briefing by a physician experienced in 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 MULTILIF® FOR LUMBAR SPINAL FUSION

The ROCCIA MultiLIF was developed for primary stabilization and restoration of the physiological lordosis in the lumbar spine. The cage is designed for various anterior and posterior approaches.

The chamber system in the cage improves interbody fusion as its generously proportioned design allows for the insertion of either bone or bone graft materials. At the same time, the cage has a broad supporting surface that largely prevents sinking when implanted correctly.

The special feature of ROCCIA MultiLIF is that this cage can be used for different implantation techniques. Transforaminal access is one approach but an anterior approach to the spinal column is also possible, either anteromedial or anterolateral (anterior to the psoas) or strictly lateral (transpsoatic). The numerous threaded holes of ROCCIA MultiLIF allow for correct placement of the cage.

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.

With interbody fusion using ROCCIA MultiLIF, we recommend carrying out additional posterior spondylodesis with instrumentation such as our VERTICALE posterior spinal fixation system.





## Indications

The ROCCIA MultiLIF System can be used to manage the following indications of the thoracic and lumbar spine:

- 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 materials used (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:** ROCCIA MultiLIF 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 on indications and contraindications in the instruction manual of ROCCIA MultiLIF. The package insert also contains other important information that might lead to exclusion of the patient.

# POSSIBLE APPROACHES FOR THE ROCCIA MULTILIF® SYSTEM

Thanks to its special shape and wide range of sizes, but especially due to the many threaded holes, ROCCIA MultiLIF can be implanted either as TLIF or as ALIF and LLIF. The difference in its instrumentation lies mainly in the position of the patient and the approach used.

## Instrumentation as TLIF – Positioning and approach

RI-1410\*  
ROCCIA Chisel 10 mm,  
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 on both sides and dissected until the anatomical structures of the spinal column are clearly exposed. The posterior approach enables the decompression of posterior structures and facilitates the combination with spondylodesis by dorsal instrumentation. The transforaminal approach to the disc space is usually achieved by means of 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

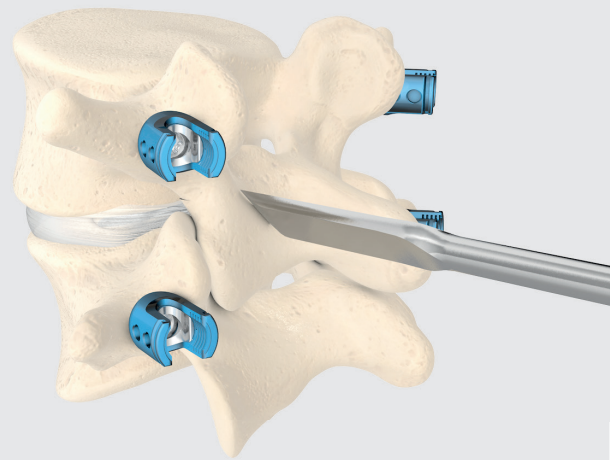


Fig 1 Resection of a facet joint with the chisel for a TLIF approach

**NOTE:** The choice of approach (ventromedial, ventrolateral, or strictly lateral) is performed at the surgeon's discretion and appropriately for the segment being operated on by identifying the diseased disc space with an image converter.

## Instrumentation as ALIF and LLIF – Positioning and approach

When implanting ROCCIA MultiLIF for anterior lumbar interbody fusion (ALIF), there are two main positioning options. On the one hand, there is the standard supine position with closed legs and arms abducted at 90° in which the surgeon usually stands to the left of the patient, and on the other hand there is the da Vinci or French position in which the surgeon can stand between the patient's legs. The anteromedial approach may require retraction of the larger vessels to ensure that there is sufficient room to access the disc space to implant the cage. The anterior longitudinal ligament is resected.

In the posterolateral approach (45°), the longitudinal ligament is for the most part preserved. There is no need to retract the larger vessels.

The system also supports the strictly lateral approach (LLIF). In this approach, the patient is positioned either in the lateral or supine decubitus position.

When using the lateral approach, there is no need to retract the larger vessels. Using a direct lateral transpsoatic approach requires careful monitoring of the neurogenic structures present in the muscle.

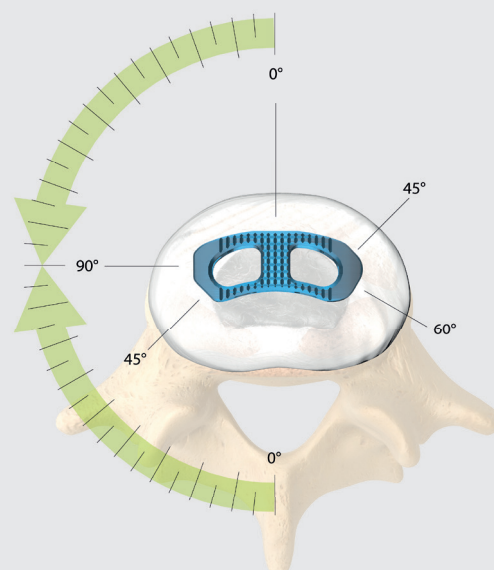


Fig 2 Note about the degrees used in the thoracolumbar approach

# ROCCIA MULTILIF® INSTRUMENTATION

The ROCCIA MultiLIF System was developed for both the transforaminal approach and the anterior approach, and the instrumentation steps outlined in the following thus apply to both the preparation of the implant bed and the implantation of the intervertebral disc space of the aforementioned approaches and surgical techniques.

# 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 by means of shavers, via the transforaminal approach for Transforaminal Lumbar Interbody Fusion (TLIF) or via the anterior approach for Anterior Lumbar Interbody Fusion (ALIF) or Lateral Lumbar Interbody Fusion (LLIF), and is then removed using various standard forceps and the endplate scrapers and curettes provided (Figs. 3 and 4). 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

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

**NOTE:** When performing implantations using the strictly lateral approach (LLIF), releasing the contralateral part of the fibrous ring is recommended.

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

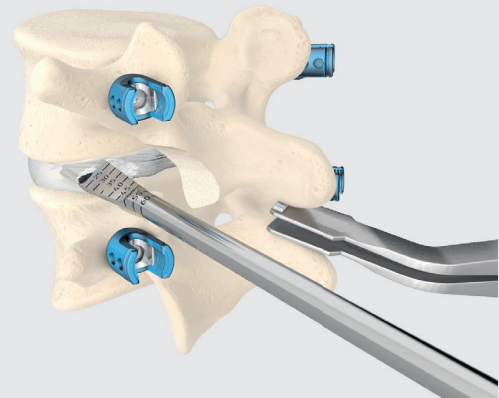


Fig. 3 Loosening of the disc material with a shaver

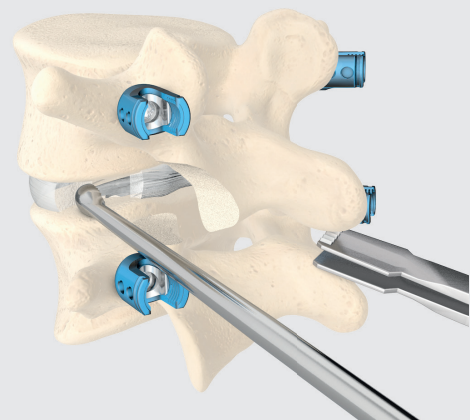


Abb. 4 Discectomy using a curette



# 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. 5). The surface of the remaining cartilaginous layer of the inferior and superior endplates can be roughened with bone rasps, curettes, and shavers (Fig. 6).

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

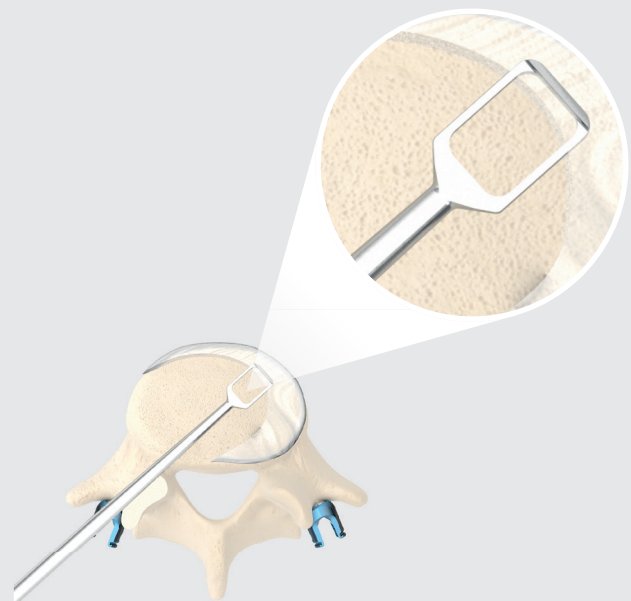


Fig. 5 Box endplate scraper for extensive removal of disc material

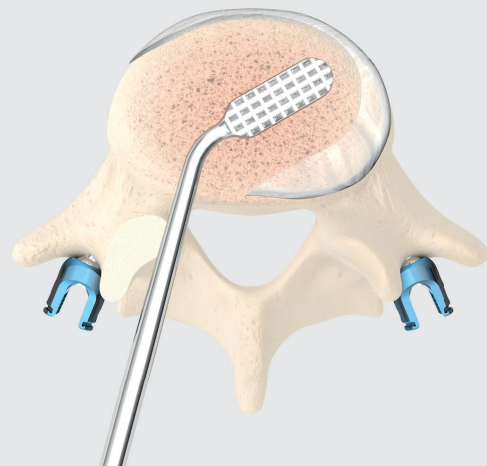


Fig. 6: Rasp for roughening the superior endplate

**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 up to a maximum height of 21 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. 8). 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

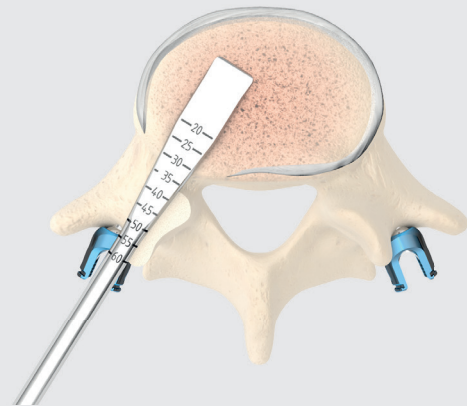


Fig. 7 Depth marking on the paddle sizer

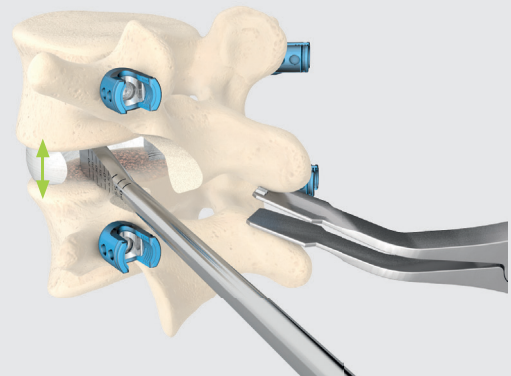


Fig. 8 Spreading the disc space with the paddle sizer

**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-1325  
ROCCIA Inserter M5, 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. 9).

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.

The height of the trial implant matches the height of the final ROCCIA MultiLIF Implant including the interlock.

\* Representative of other distractor sizes, see ROCCIA Instruments

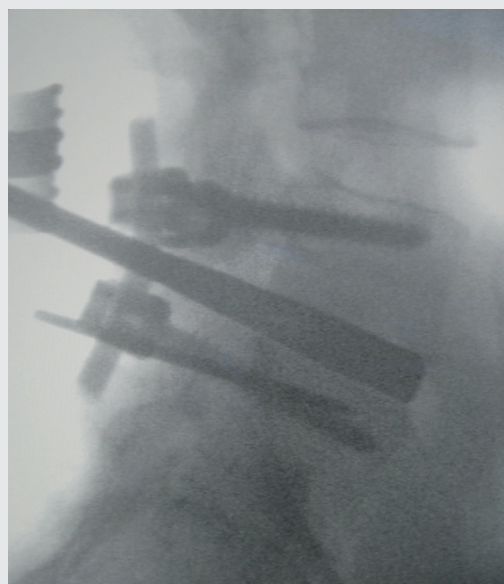


Fig. 9 Image converter control with paddle sizer for selection of the trial implant

# Determining the cage sizes with the trial implants

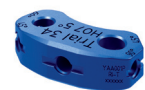
RI-1324  
ROCCIA Inserter M4,  
demountable



RI-1325  
ROCCIA Inserter M5,  
demountable



RI-T113405\*  
ROCCIA MultiLIF Trial Implant  
11  $\diamond$  34 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 onto the respective ROCCIA Inserter and then, applying gentle pressure, carefully inserted through the transforaminal window or accordingly into the intervertebral space when using the anterior approach (Fig. 10). 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

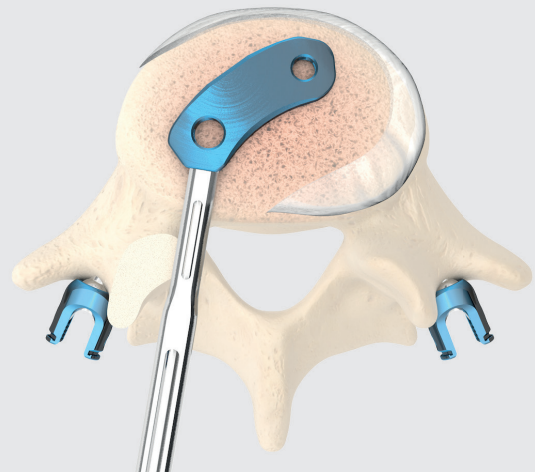


Fig. 10 Introducing the trial implant

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

# Multitude of cage sizes

To optimize the treatment of the patient in terms of anatomy and pathology, a wide range of ROCCIA MultiLIF sizes is available (Fig. 11). The portfolio comprises nine anterior heights (from 7 to 13 mm, in 1-mm increments, and the heights 15 mm and 17 mm) and five widths (34, 40, 46, 52 and 58 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.

The wide cage sizes (46, 52, 58) are recommended for the lateral (90°) approach (LLIF). Following discectomy, the cage is positioned in the target segment. Care should be taken to ensure that it rests as much as possible laterally and contralaterally on the endplates.

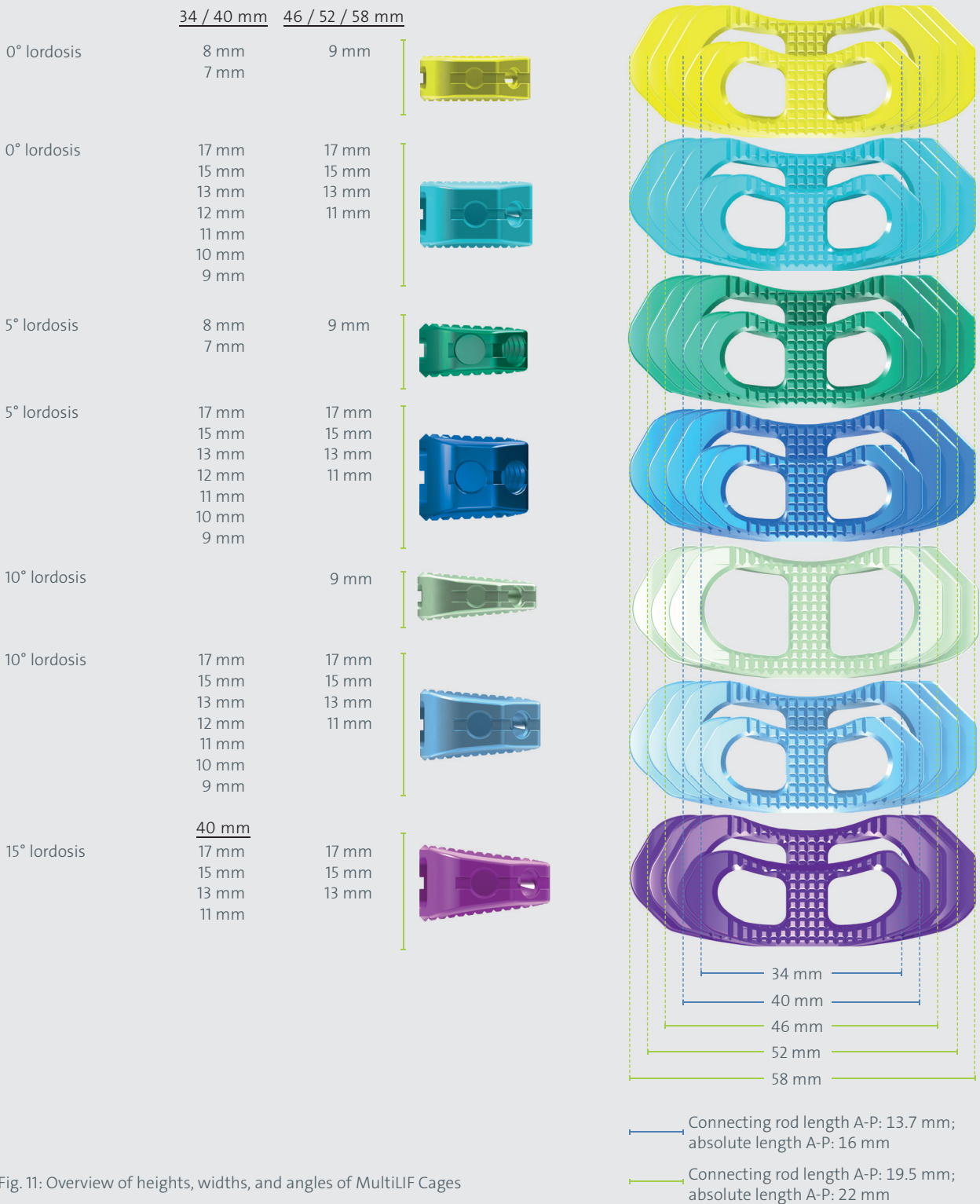


Fig. 11: Overview of heights, widths, and angles of MultiLIF Cages

# Filling of the cage

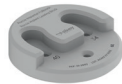
RI-1324  
ROCCIA Inserter M4,  
demountable



RI-1325  
ROCCIA Inserter M5,  
demountable



RI-2050\*  
ROCCIA Implant Loading Block



RI-2051  
ROCCIA Bone Graft Pusher



RI-1355  
ROCCIA Slotted Mallet, solid



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. 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. 12).

To ensure comfortable insertion when using the TLIF approach, the existing threaded holes on the ROCCIA MultiLIF allow for various posterolateral angles (60°, 45°). An antero-medial drill-hole in the implant is available for the ALIF approach (0°). In addition, the cage has a drill-hole at 45° and a strictly lateral drill-hole at 90° for the anterolateral approach.

\* Representative of other loading blocks  
see ROCCIA Instruments

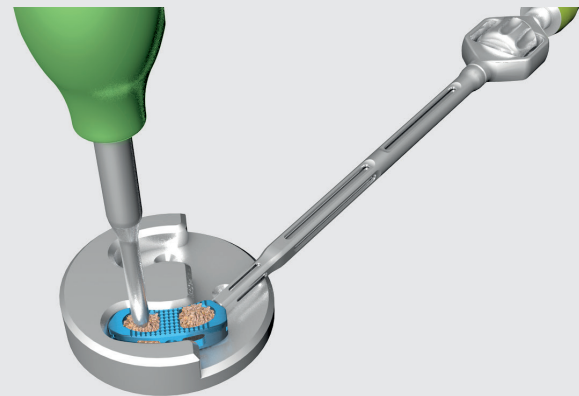


Fig. 12 Filling the cage with bone material in the loading block with pusher



# Inserting the cage

RI-1324  
ROCCIA Inserter M4,  
demountable



RI-1325  
ROCCIA Inserter M5,  
demountable



RI-1355  
ROCCIA Slotted Mallet, solid



The ROCCIA Inserter, which is used in the same way as previously for the trial implants, is screwed accordingly into one of the threaded holes of the cage, enabling the cage to be definitively inserted without requiring any further instrument change (Fig. 13 a–d). The autologous bone material (or the homologous bone or the bone graft material) must be inserted well compressed into the cage.

The trial cage is removed shortly before final insertion of the implant in order to prevent subsequent sinking. Depending on the previously selected approach (Figs. 13 a–d), 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 implant holder may be required.

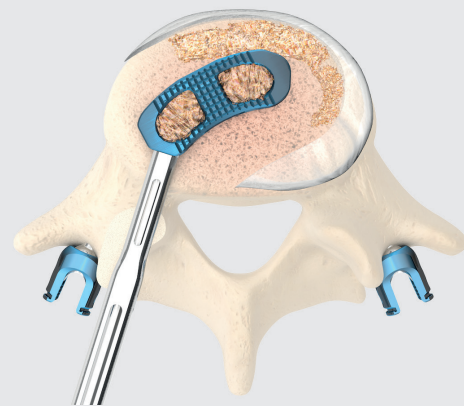


Fig. 13a Inserting the filled cage into the disc space via the TLIF approach (45°)

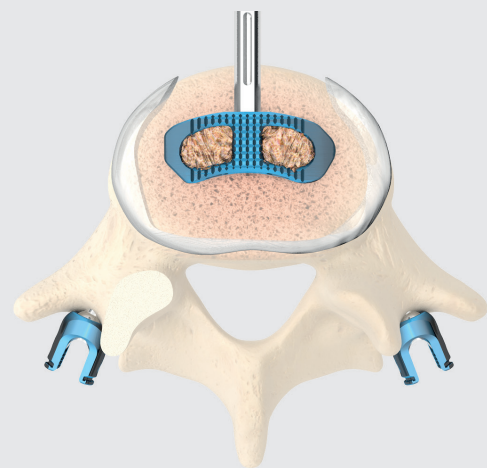


Fig. 13b Inserting the filled cage via the ALIF 0° approach

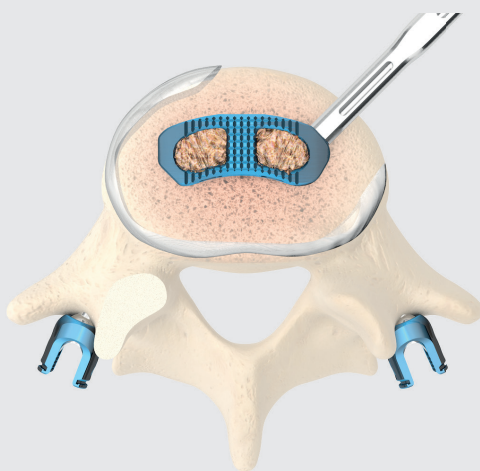


Fig. 13c Inserting the filled cage via the ALIF 45° approach

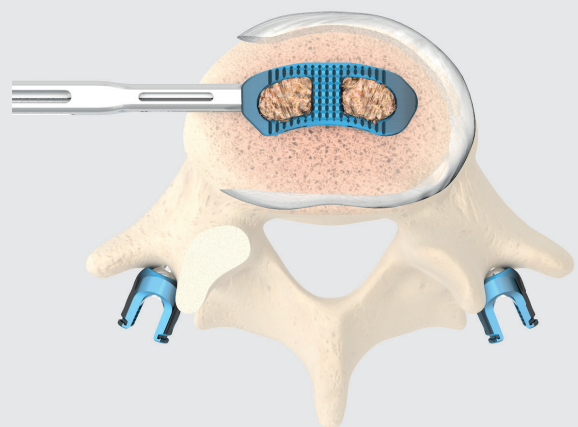


Fig. 13d Inserting the filled cage via the LLIF 90° approach

## Correct position of the ROCCIA® MultiLIF®

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 MultiLIF 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. 14 a and 14 b).

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.

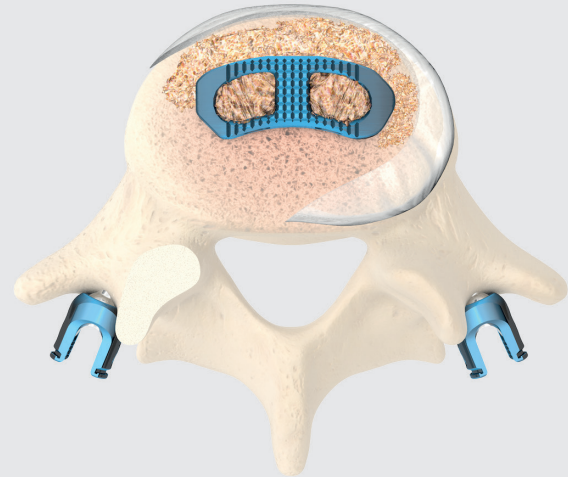


Fig. 14 a Optimal position of the filled MultiLIF Cage



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

**NOTE:** Posterior tension band wiring with the VERTICAL Posterior Spinal Fixator is recommended (or posterior or anterior securing of the implant when using the anterior approach). Tension band wiring supports the biomechanical stability of the motion segment of the spine and the stability of the MultiLIF 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 MultiLIF Cage with 15° lordosis, it is imperative to additionally stabilize the segment using a fixation system or anterior plating.



# CORRECTING THE POSITION OF THE ROCCIA MULTILIF®

A straight implant driver and a hooked implant driver are provided for definitive positioning of the ROCCIA MultiLIF 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 with the aid of the slotted mallet.

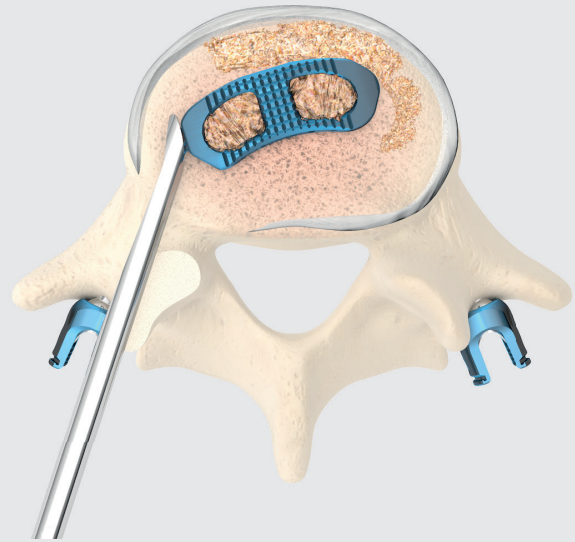


Fig. 15 Hooked implant driver for correcting the position of the cage

## 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.

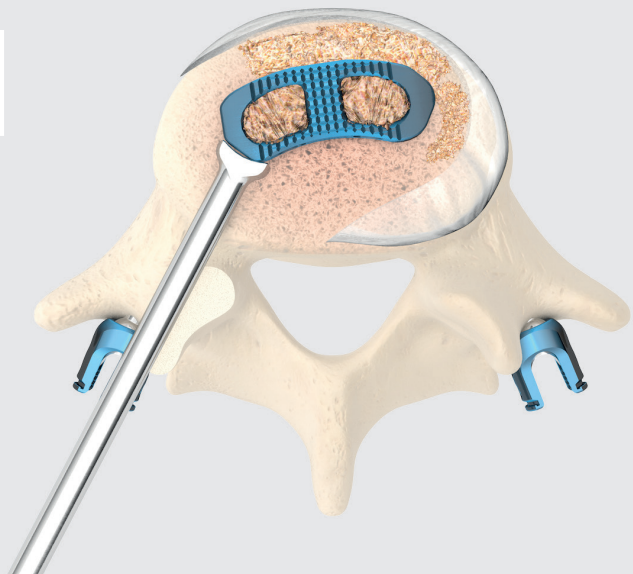


Fig. 16 Straight implant driver to finalize the position of the cage

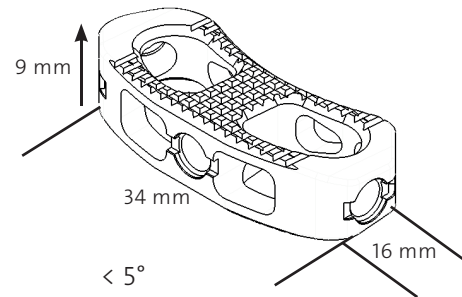
# ROCCIA MULTILIF® PRODUCT INFORMATION

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# ROCCIA MultiLIF® Implants

## Article number explanation for the cage, as an example

ROCCIA MultiLIF Cage 9 × 34, 5° lordosis



System:  
ROCCIA

Implant type:  
MultiLIF

Configuration:  
34 mm

Material:  
Ti6Al4V ELI

All articles are also available as a sterile variant. The article number is then preceded by the prefix S-.

Article number	Description	Illustration
RUT-073400-S	ROCCIA MultiLIF Cage 7 $\diamond$ 34 mm, 0° lordosis	
RUT-083400-S	ROCCIA MultiLIF Cage 8 $\diamond$ 34 mm, 0° lordosis	
RUT-093400-S	ROCCIA MultiLIF Cage 9 $\diamond$ 34 mm, 0° lordosis	
RUT-103400-S	ROCCIA MultiLIF Cage 10 $\diamond$ 34 mm, 0° lordosis	
RUT-113400-S	ROCCIA MultiLIF Cage 11 $\diamond$ 34 mm, 0° lordosis	
RUT-123400-S	ROCCIA MultiLIF Cage 12 $\diamond$ 34 mm, 0° lordosis	
RUT-133400-S	ROCCIA MultiLIF Cage 13 $\diamond$ 34 mm, 0° lordosis	
RUT-153400-S	ROCCIA MultiLIF Cage 15 $\times$ 34 mm, 0° lordosis	
RUT-173400-S	ROCCIA MultiLIF Cage 17 $\times$ 34 mm, 0° lordosis	
RUT-073405-S	ROCCIA MultiLIF Cage 7 $\diamond$ 34 mm, 5° lordosis	
RUT-083405-S	ROCCIA MultiLIF Cage 8 $\diamond$ 34 mm, 5° lordosis	
RUT-093405-S	ROCCIA MultiLIF Cage 9 $\diamond$ 34 mm, 5° lordosis	
RUT-103405-S	ROCCIA MultiLIF Cage 10 $\diamond$ 34 mm, 5° lordosis	
RUT-113405-S	ROCCIA MultiLIF Cage 11 $\diamond$ 34 mm, 5° lordosis	
RUT-123405-S	ROCCIA MultiLIF Cage 12 $\diamond$ 34 mm, 5° lordosis	
RUT-133405-S	ROCCIA MultiLIF Cage 13 $\diamond$ 34 mm, 5° lordosis	
RUT-153405-S	ROCCIA MultiLIF Cage 15 $\times$ 34 mm, 5° lordosis	
RUT-173405-S	ROCCIA MultiLIF Cage 17 $\times$ 34 mm, 5° lordosis	
RUT-093410-S	ROCCIA MultiLIF Cage 9 $\diamond$ 34 mm, 10° lordosis	
RUT-103410-S	ROCCIA MultiLIF Cage 10 $\diamond$ 34 mm, 10° lordosis	
RUT-113410-S	ROCCIA MultiLIF Cage 11 $\diamond$ 34 mm, 10° lordosis	
RUT-123410-S	ROCCIA MultiLIF Cage 12 $\diamond$ 34 mm, 10° lordosis	
RUT-133410-S	ROCCIA MultiLIF Cage 13 $\diamond$ 34 mm, 10° lordosis	
RUT-153410-S	ROCCIA MultiLIF Cage 15 $\times$ 34 mm, 10° lordosis	
RUT-173410-S	ROCCIA MultiLIF Cage 17 $\times$ 34 mm, 10° lordosis	

# ROCCIA MultiLIF® Implants

System:  
ROCCIA

Implant type:  
MultiLIF

Configuration:  
40 mm

Material:  
Ti6Al4V ELI

All articles are also available as a sterile variant.

The article number is then preceded by the prefix S-.

Article number	Description	Illustration
RUT-074000-S	ROCCIA MultiLIF Cage 7 × 40 mm, 0° lordosis	
RUT-084000-S	ROCCIA MultiLIF Cage 8 × 40 mm, 0° lordosis	
RUT-094000-S	ROCCIA MultiLIF Cage 9 × 40 mm, 0° lordosis	
RUT-104000-S	ROCCIA MultiLIF Cage 10 × 40 mm, 0° lordosis	
RUT-114000-S	ROCCIA MultiLIF Cage 11 × 40 mm, 0° lordosis	
RUT-124000-S	ROCCIA MultiLIF Cage 12 × 40 mm, 0° lordosis	
RUT-134000-S	ROCCIA MultiLIF Cage 13 × 40 mm, 0° lordosis	
RUT-154000-S	ROCCIA MultiLIF Cage 15 × 40 mm, 0° lordosis	
RUT-174000-S	ROCCIA MultiLIF Cage 17 × 40 mm, 0° lordosis	
RUT-074005-S	ROCCIA MultiLIF Cage 7 ◇ 40 mm, 5° lordosis	
RUT-084005-S	ROCCIA MultiLIF Cage 8 ◇ 40 mm, 5° lordosis	
RUT-094005-S	ROCCIA MultiLIF Cage 9 ◇ 40 mm, 5° lordosis	
RUT-104005-S	ROCCIA MultiLIF Cage 10 ◇ 40 mm, 5° lordosis	
RUT-114005-S	ROCCIA MultiLIF Cage 11 ◇ 40 mm, 5° lordosis	
RUT-124005-S	ROCCIA MultiLIF Cage 12 ◇ 40 mm, 5° lordosis	
RUT-134005-S	ROCCIA MultiLIF Cage 13 ◇ 40 mm, 5° lordosis	
RUT-154005-S	ROCCIA MultiLIF Cage 15 × 40 mm, 5° lordosis	
RUT-174005-S	ROCCIA MultiLIF Cage 17 × 40 mm, 5° lordosis	
RUT-094010-S	ROCCIA MultiLIF Cage 9 ◇ 40 mm, 10° lordosis	
RUT-104010-S	ROCCIA MultiLIF Cage 10 ◇ 40 mm, 10° lordosis	
RUT-114010-S	ROCCIA MultiLIF Cage 11 ◇ 40 mm, 10° lordosis	
RUT-124010-S	ROCCIA MultiLIF Cage 12 ◇ 40 mm, 10° lordosis	
RUT-134010-S	ROCCIA MultiLIF Cage 13 ◇ 40 mm, 10° lordosis	
RUT-154010-S	ROCCIA MultiLIF Cage 15 × 40 mm, 10° lordosis	
RUT-174010-S	ROCCIA MultiLIF Cage 17 × 40 mm, 10° lordosis	
RUT-114015-S	ROCCIA MultiLIF Cage 11 × 40 mm, 15° lordosis	
RUT-134015-S	ROCCIA MultiLIF Cage 13 × 40 mm, 15° lordosis	
RUT-154015-S	ROCCIA MultiLIF Cage 15 × 40 mm, 15° lordosis	
RUT-174015-S	ROCCIA MultiLIF Cage 17 × 40 mm, 15° lordosis	

# ROCCIA MultiLIF® Implants

System:  
ROCCIA

Implant type:  
MultiLIF

Configuration:  
46 mm

Material:  
Ti6Al4V ELI

All articles are also available as a sterile variant.

The article number is then preceded by the prefix S-.

Article number	Description	Illustration
RUT-094600-S	ROCCIA MultiLIF Cage 9 × 46 mm, 0° lordosis	
RUT-114600-S	ROCCIA MultiLIF Cage 11 × 46 mm, 0° lordosis	
RUT-134600-S	ROCCIA MultiLIF Cage 13 × 46 mm, 0° lordosis	
RUT-154600-S	ROCCIA MultiLIF Cage 15 × 46 mm, 0° lordosis	
RUT-174600-S	ROCCIA MultiLIF Cage 17 × 46 mm, 0° lordosis	
RUT-094605-S	ROCCIA MultiLIF Cage 9 × 46 mm, 5° lordosis	
RUT-114605-S	ROCCIA MultiLIF Cage 11 × 46 mm, 5° lordosis	
RUT-134605-S	ROCCIA MultiLIF Cage 13 × 46 mm, 5° lordosis	
RUT-154605-S	ROCCIA MultiLIF Cage 15 × 46 mm, 5° lordosis	
RUT-174605-S	ROCCIA MultiLIF Cage 17 × 46 mm, 5° lordosis	
RUT-094610-S	ROCCIA MultiLIF Cage 9 × 46 mm, 10° lordosis	
RUT-114610-S	ROCCIA MultiLIF Cage 11 × 46 mm, 10° lordosis	
RUT-134610-S	ROCCIA MultiLIF Cage 13 × 46 mm, 10° lordosis	
RUT-154610-S	ROCCIA MultiLIF Cage 15 × 46 mm, 10° lordosis	
RUT-174610-S	ROCCIA MultiLIF Cage 17 × 46 mm, 10° lordosis	
RUT-134615-S	ROCCIA MultiLIF Cage 13 × 46 mm, 15° lordosis	
RUT-154615-S	ROCCIA MultiLIF Cage 15 × 46 mm, 15° lordosis	
RUT-174615-S	ROCCIA MultiLIF Cage 17 × 46 mm, 15° lordosis	

# ROCCIA MultiLIF® Implants

System:  
ROCCIA

Implant type:  
MultiLIF

Configuration:  
52 mm

Material:  
Ti6Al4V ELI

All articles are also available as a sterile variant.

The article number is then preceded by the prefix S-.

Article number	Description	Illustration
RUT-095200-S	ROCCIA MultiLIF Cage 9 × 52 mm, 0° lordosis	
RUT-115200-S	ROCCIA MultiLIF Cage 11 × 52 mm, 0° lordosis	
RUT-135200-S	ROCCIA MultiLIF Cage 13 × 52 mm, 0° lordosis	
RUT-155200-S	ROCCIA MultiLIF Cage 15 × 52 mm, 0° lordosis	
RUT-175200-S	ROCCIA MultiLIF Cage 17 × 52 mm, 0° lordosis	
RUT-095205-S	ROCCIA MultiLIF Cage 9 × 52 mm, 5° lordosis	
RUT-115205-S	ROCCIA MultiLIF Cage 11 × 52 mm, 5° lordosis	
RUT-135205-S	ROCCIA MultiLIF Cage 13 × 52 mm, 5° lordosis	
RUT-155205-S	ROCCIA MultiLIF Cage 15 × 52 mm, 5° lordosis	
RUT-175205-S	ROCCIA MultiLIF Cage 17 × 52 mm, 5° lordosis	
RUT-095210-S	ROCCIA MultiLIF Cage 9 × 52 mm, 10° lordosis	
RUT-115210-S	ROCCIA MultiLIF Cage 11 × 52 mm, 10° lordosis	
RUT-135210-S	ROCCIA MultiLIF Cage 13 × 52 mm, 10° lordosis	
RUT-155210-S	ROCCIA MultiLIF Cage 15 × 52 mm, 10° lordosis	
RUT-175210-S	ROCCIA MultiLIF Cage 17 × 52 mm, 10° lordosis	
RUT-135215-S	ROCCIA MultiLIF Cage 13 × 52 mm, 15° lordosis	
RUT-155215-S	ROCCIA MultiLIF Cage 15 × 52 mm, 15° lordosis	
RUT-175215-S	ROCCIA MultiLIF Cage 17 × 52 mm, 15° lordosis	

# ROCCIA MultiLIF® Implants

System:  
ROCCIA

Implant type:  
MultiLIF

Configuration:  
58 mm

Material:  
Ti6Al4V ELI

All articles are also available as a sterile variant.

The article number is then preceded by the prefix S-.

Article number	Description	Illustration
RUT-095800-S	ROCCIA MultiLIF Cage 9 × 58 mm, 0° lordosis	
RUT-115800-S	ROCCIA MultiLIF Cage 11 × 58 mm, 0° lordosis	
RUT-135800-S	ROCCIA MultiLIF Cage 13 × 58 mm, 0° lordosis	
RUT-155800-S	ROCCIA MultiLIF Cage 15 × 58 mm, 0° lordosis	
RUT-175800-S	ROCCIA MultiLIF Cage 17 × 58 mm, 0° lordosis	
RUT-095805-S	ROCCIA MultiLIF Cage 9 × 58 mm, 5° lordosis	
RUT-115805-S	ROCCIA MultiLIF Cage 11 × 58 mm, 5° lordosis	
RUT-135805-S	ROCCIA MultiLIF Cage 13 × 58 mm, 5° lordosis	
RUT-155805-S	ROCCIA MultiLIF Cage 15 × 58 mm, 5° lordosis	
RUT-175805-S	ROCCIA MultiLIF Cage 17 × 58 mm, 5° lordosis	
RUT-095810-S	ROCCIA MultiLIF Cage 9 × 58 mm, 10° lordosis	
RUT-115810-S	ROCCIA MultiLIF Cage 11 × 58 mm, 10° lordosis	
RUT-135810-S	ROCCIA MultiLIF Cage 13 × 58 mm, 10° lordosis	
RUT-155810-S	ROCCIA MultiLIF Cage 15 × 58 mm, 10° lordosis	
RUT-175810-S	ROCCIA MultiLIF Cage 17 × 58 mm, 10° lordosis	
RUT-135815-S	ROCCIA MultiLIF Cage 13 × 58 mm, 15° lordosis	
RUT-155815-S	ROCCIA MultiLIF Cage 15 × 58 mm, 15° lordosis	
RUT-175815-S	ROCCIA MultiLIF Cage 17 × 58 mm, 15° lordosis	



# ROCCIA MULTILIF® PRODUCT INFORMATION

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# ROCCIA MultiLIF® Trial Implants

System:  
ROCCIA

Instrument type:  
Trial implant

Configuration:  
34 mm

Material:  
Ti6Al4V ELI

Article number	Description	Illustration
RI-T073405	ROCCIA MultiLIF Trial 7 $\diamond$ 34 mm, 5° lordosis	
RI-T083405	ROCCIA MultiLIF Trial 8 $\diamond$ 34 mm, 5° lordosis	
RI-T093405	ROCCIA MultiLIF Trial 9 $\diamond$ 34 mm, 5° lordosis	
RI-T103405	ROCCIA MultiLIF Trial 10 $\diamond$ 34 mm, 5° lordosis	
RI-T113405	ROCCIA MultiLIF Trial 11 $\diamond$ 34 mm, 5° lordosis	
RI-T123405	ROCCIA MultiLIF Trial 12 $\diamond$ 34 mm, 5° lordosis	
RI-T133405	ROCCIA MultiLIF Trial 13 $\diamond$ 34 mm, 5° lordosis	
RI-T153405	ROCCIA MultiLIF Trial 15 $\times$ 34 mm, 5° lordosis	
RI-T173405	ROCCIA MultiLIF Trial 17 $\times$ 34 mm, 5° lordosis	

System:  
ROCCIA

Instrument type:  
Trial implant

Configuration:  
40 mm

Material:  
Ti6Al4V ELI

Article number	Description	Illustration
RI-T074005	ROCCIA MultiLIF Trial 7 $\diamond$ 40 mm, 5° lordosis	
RI-T084005	ROCCIA MultiLIF Trial 8 $\diamond$ 40 mm, 5° lordosis	
RI-T094005	ROCCIA MultiLIF Trial 9 $\diamond$ 40 mm, 5° lordosis	
RI-T104005	ROCCIA MultiLIF Trial 10 $\diamond$ 40 mm, 5° lordosis	
RI-T114005	ROCCIA MultiLIF Trial 11 $\diamond$ 40 mm, 5° lordosis	
RI-T124005	ROCCIA MultiLIF Trial 12 $\diamond$ 40 mm, 5° lordosis	
RI-T134005	ROCCIA MultiLIF Trial 13 $\diamond$ 40 mm, 5° lordosis	
RI-T154005	ROCCIA MultiLIF Trial 15 $\times$ 40 mm, 5° lordosis	
RI-T174005	ROCCIA MultiLIF Trial 17 $\times$ 40 mm, 5° lordosis	
RI-T114015	ROCCIA MultiLIF Trial 11 $\times$ 40 mm, 15° lordosis	
RI-T134015	ROCCIA MultiLIF Trial 13 $\times$ 40 mm, 15° lordosis	
RI-T154015	ROCCIA MultiLIF Trial 15 $\times$ 40 mm, 15° lordosis	
RI-T174015	ROCCIA MultiLIF Trial 17 $\times$ 40 mm, 15° lordosis	

# ROCCIA MultiLIF® Trial Implants

Article number	Description	Illustration
RI-T094605	ROCCIA MultiLIF Trial 9 × 46 mm, 5° lordosis	
RI-T114605	ROCCIA MultiLIF Trial 11 × 46 mm, 5° lordosis	
RI-T134605	ROCCIA MultiLIF Trial 13 × 46 mm, 5° lordosis	
RI-T154605	ROCCIA MultiLIF Trial 15 × 46 mm, 5° lordosis	
RI-T174605	ROCCIA MultiLIF Trial 17 × 46 mm, 5° lordosis	
RI-T134615	ROCCIA MultiLIF Trial 13 × 46 mm, 15° lordosis	
RI-T154615	ROCCIA MultiLIF Trial 15 × 46 mm, 15° lordosis	
RI-T174615	ROCCIA MultiLIF Trial 17 × 46 mm, 15° lordosis	

System:  
ROCCIA

Instrument type:  
Trial implant

Configuration:  
46 mm

Material:  
Ti6Al4V ELI

Article number	Description	Illustration
RI-T095205	ROCCIA MultiLIF Trial 9 × 52 mm, 5° lordosis	
RI-T115205	ROCCIA MultiLIF Trial 11 × 52 mm, 5° lordosis	
RI-T135205	ROCCIA MultiLIF Trial 13 × 52 mm, 5° lordosis	
RI-T155205	ROCCIA MultiLIF Trial 15 × 52 mm, 5° lordosis	
RI-T175205	ROCCIA MultiLIF Trial 17 × 52 mm, 5° lordosis	
RI-T135215	ROCCIA MultiLIF Trial 13 × 52 mm, 15° lordosis	
RI-T155215	ROCCIA MultiLIF Trial 15 × 52 mm, 15° lordosis	
RI-T175215	ROCCIA MultiLIF Trial 17 × 52 mm, 15° lordosis	

System:  
ROCCIA

Instrument type:  
Trial implant

Configuration:  
52 mm

Material:  
Ti6Al4V ELI

Article number	Description	Illustration
RI-T095805	ROCCIA MultiLIF Trial 9 × 58 mm, 5° lordosis	
RI-T115805	ROCCIA MultiLIF Trial 11 × 58 mm, 5° lordosis	
RI-T135805	ROCCIA MultiLIF Trial 13 × 58 mm, 5° lordosis	
RI-T155805	ROCCIA MultiLIF Trial 15 × 58 mm, 5° lordosis	
RI-T175805	ROCCIA MultiLIF Trial 17 × 58 mm, 5° lordosis	
RI-T135815	ROCCIA MultiLIF Trial 13 × 58 mm, 15° lordosis	
RI-T155815	ROCCIA MultiLIF Trial 15 × 58 mm, 15° lordosis	
RI-T175815	ROCCIA MultiLIF Trial 17 × 58 mm, 15° lordosis	

System:  
ROCCIA


Instrument type:  
Trial implant

Configuration:  
58 mm


Material:  
Ti6Al4V ELI

# ROCCIA® Instruments

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		8, 9
RI-1108	ROCCIA Shaver 8 mm		
RI-1109	ROCCIA Shaver 9 mm		
RI-1110	ROCCIA Shaver 10 mm		
RI-1111	ROCCIA Shaver 11 mm		
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		

Article number	Description	Illustration	Page
RI-1324	ROCCIA Inserter M4, demountable		11, 12, 14, 15
RI-1325	ROCCIA Inserter M5, demountable		
RI-1330	ROCCIA Removal Adapter		15
RI-1340	ROCCIA Implant Driver Straight		18
RI-1343	ROCCIA Hooked Implant Driver, reinforced		18
RI-1355	ROCCIA Slotted Mallet, solid		14, 15, 18
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		

# ROCCIA® Instruments

Article number	Description	Illustration	Page
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-2046	ROCCIA Implant Loading Block, 46 mm		14
RI-2050	ROCCIA Implant Loading Block		14
RI-2051	ROCCIA Bone Graft Pusher		14
RI-2052	ROCCIA Implant Loading Block, 52 mm		14
RI-2058	ROCCIA Implant Loading Block, 58 mm		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		8
	Curette, curved Right 45°	RI-1041		
	Curette, straight	RI-1052		
H	Hooked Implant Driver, reinforced	RI-1343		
I	Implant Driver Straight	RI-1340	18	
	Insertor, M4, demountable	RI-1324	11, 12, 14, 15	
	Insertor, M5, demountable	RI-1325		
	Implant Loading Block	RI-2050	14	
	Implant Loading Block, 46 mm	RI-2046		
	Implant Loading Block, 52 mm	RI-2052		
	Implant Loading Block, 58 mm	RI-2058		
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		

# ROCCIA® Alphabetical Index

A-Z	Description	Article number	Page	
R	Rasp, curved 45°	RI-1050	9	
	Removal Adapter	RI-1330	15	
	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	14, 15, 18	
	Shaver 7 mm	RI-1107	8, 9	
	Shaver 8 mm	RI-1108		
	Shaver 9 mm	RI-1109		
	Shaver 10 mm	RI-1110		
	Shaver 11 mm	RI-1111		
	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		
	Trial 7 × 34 mm, 5° lordosis	RI-T073405		
	Trial 8 × 34 mm, 5° lordosis	RI-T083405	12, PI 08	
	Trial 9 × 34 mm, 5° lordosis	RI-T093405		
	Trial 10 × 34 mm, 5° lordosis	RI-T103405		
	Trial 11 × 34 mm, 5° lordosis	RI-T113405		
	Trial 12 × 34 mm, 5° lordosis	RI-T123405		
	Trial 13 × 34 mm, 5° lordosis	RI-T133405		
	Trial 15 × 34 mm, 5° lordosis	RI-T153405		
	Trial 17 × 34 mm, 5° lordosis	RI-T173405		
	Trial 7 × 40 mm, 5° lordosis	RI-T074005		12, PI 08
	Trial 8 × 40 mm, 5° lordosis	RI-T084005		
	Trial 9 × 40 mm, 5° lordosis	RI-T094005		
	Trial 10 × 40 mm, 5° lordosis	RI-T104005		
	Trial 11 × 40 mm, 5° lordosis	RI-T114005		
	Trial 12 × 40 mm, 5° lordosis	RI-T124005		
	Trial 13 × 40 mm, 5° lordosis	RI-T140005		
	Trial 15 × 40 mm, 5° lordosis	RI-T154005		
	Trial 17 × 40 mm, 5° lordosis	RI-T174005		
	Trial 9 × 46 mm, 5° lordosis	RI-T094605	12, PI 08, PI 09	
	Trial 11 × 46 mm, 5° lordosis	RI-T114605		
Trial 13 × 46 mm, 5° lordosis	RI-T134605			
Trial 15 × 46 mm, 5° lordosis	RI-T154605			
Trial 17 × 46 mm, 5° lordosis	RI-T174605			

# ROCCIA® Alphabetical Index

A-Z	Description	Article number	Page
T	Trial 9 × 52 mm, 5° lordosis	RI-T095205	12, PI 08, PI 09
	Trial 11 × 52 mm, 5° lordosis	RI-T115205	
	Trial 13 × 52 mm, 5° lordosis	RI-T146005	
	Trial 15 × 52 mm, 5° lordosis	RI-T155205	
	Trial 17 × 52 mm, 5° lordosis	RI-T175205	
	Trial 9 × 58 mm, 5° lordosis	RI-T095805	
	Trial 11 × 58 mm, 5° lordosis	RI-T115805	
	Trial 13 × 58 mm, 5° lordosis	RI-T135805	
	Trial 15 × 58 mm, 5° lordosis	RI-T155805	
	Trial 17 × 58 mm, 5° lordosis	RI-T175805	
	Trial 11 × 40 mm, 15° lordosis	RI-T114015	
	Trial 13 × 40 mm, 15° lordosis	RI-T134015	
	Trial 15 × 40 mm, 15° lordosis	RI-T154015	
	Trial 17 × 40 mm, 15° lordosis	RI-T174015	
	Trial 13 × 46 mm, 15° lordosis	RI-T134615	
	Trial 15 × 46 mm, 15° lordosis	RI-T154615	
	Trial 17 × 46 mm, 15° lordosis	RI-T174615	
	Trial 13 × 52 mm, 15° lordosis	RI-T135215	
	Trial 15 × 52 mm, 15° lordosis	RI-T155215	
	Trial 17 × 52 mm, 15° lordosis	RI-T175215	
	Trial 13 × 58 mm, 15° lordosis	RI-T094605	
	Trial 15 × 58 mm, 15° lordosis	RI-T104605	
Trial 17 × 58 mm, 15° lordosis	RI-T114605		

# Notes

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