silony® SPINE

ROCCIA® MULTILIF FOR LUMBAR SPINAL FUSION

INSTRUMENTATION GUIDE

MADE IN GERMANY

TABLE OF CONTENTS

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 Spine 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.

NOTE: ROCCIA MultiLIF must be combined with additional stabilization. For posterior lumbar intersegmental fusion procedures, Silony Spine recommends the use of a posterior spinal fixator (e.g., with the VERTICALE system).

NOTE: Please also follow the Instructions for use provided with each product. All instrumentation guides and instructions for use can be found on our eLabeling portal (https://elabeling.silony-medical.com/).

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 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 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

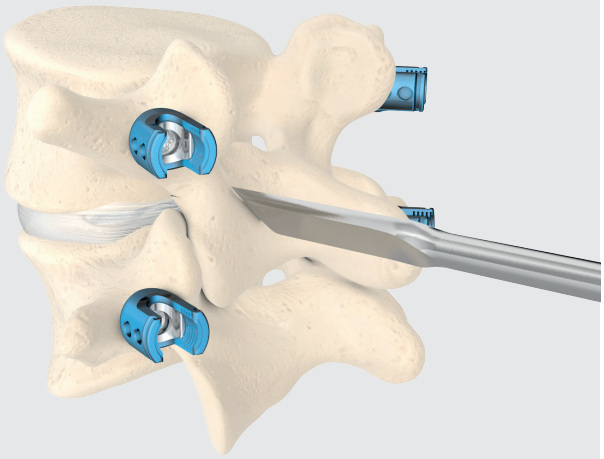


Fig 1 Resection of a facet joint with the chisel for a TLIF approach

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.

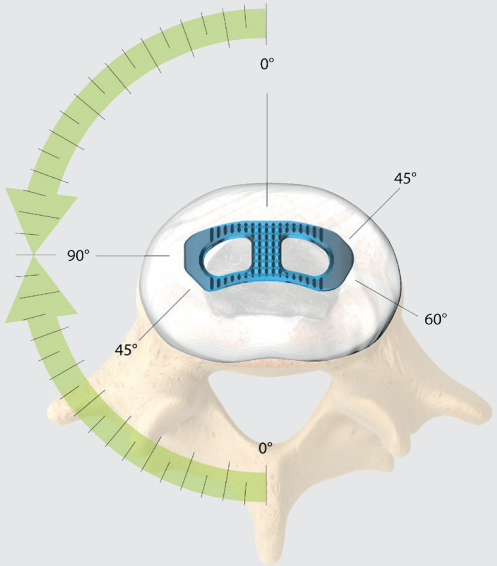


Fig 2 Note about the degrees used in the thoracolumbar approach

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

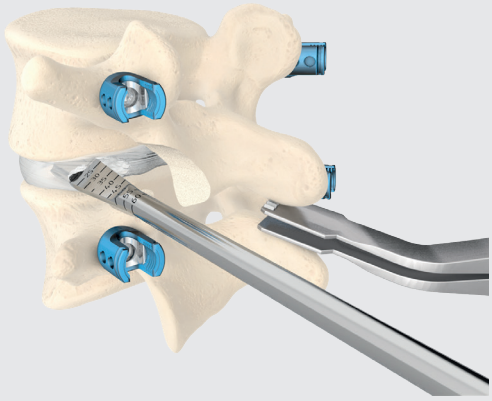


Fig. 3 Loosening of the disc material with a shaver

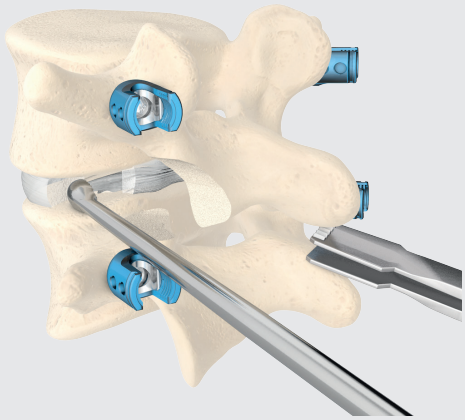


Abb. 4 Discectomy using a curette

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.

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

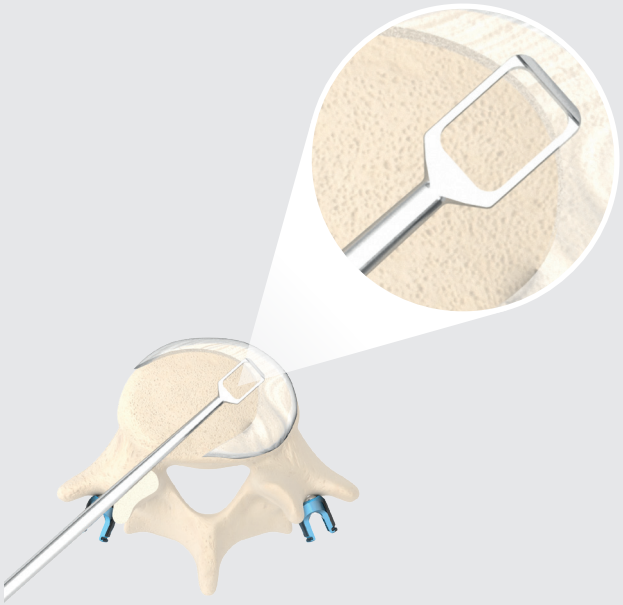


Fig. 5 Box endplate scraper for extensive removal of disc material

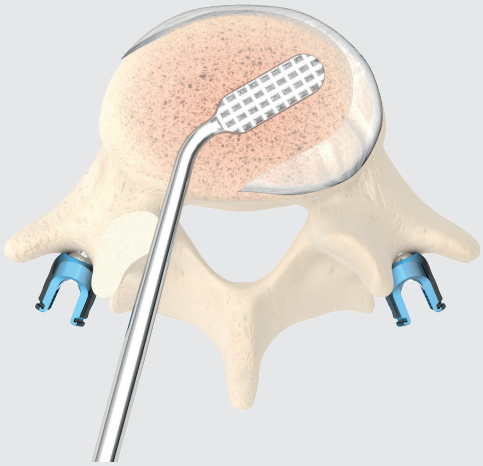


Fig. 6: Rasp for roughening the superior endplate

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. 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

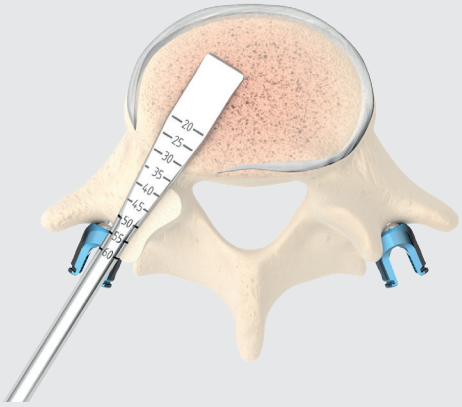


Fig. 7 Depth marking on the paddle sizer

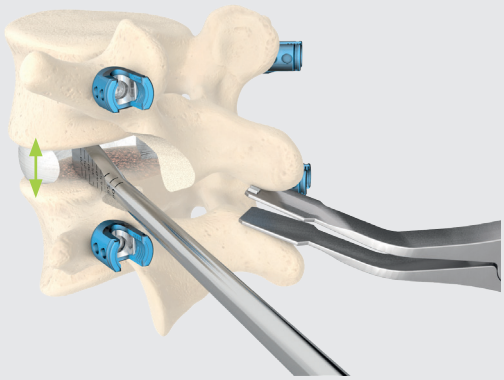


Fig. 8 Spreading the disc space with the paddle sizer

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,
dismountable

RI-1325
ROCCIA Inserter M5,
dismountable

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,
dismountable

RI-1325
ROCCIA Inserter M5,
dismountable

RI-T113405*
ROCCIA MultiLIF Trial
11 x 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

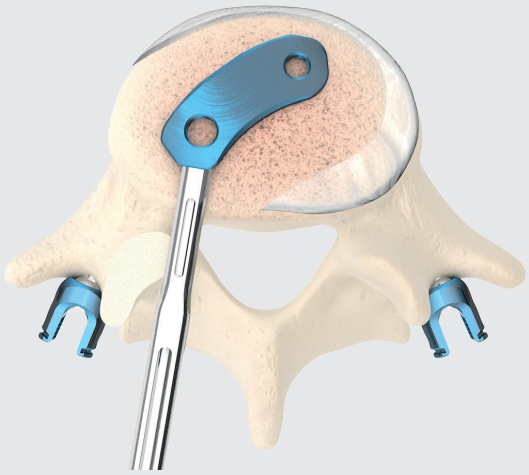


Fig. 10 Introducing the trial implant

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.

	34 / 40 mm	46 / 52 / 58 mm
0° lordosis	8 mm 7 mm	9 mm
0° lordosis	17 mm 15 mm 13 mm 12 mm 11 mm 10 mm 9 mm	17 mm 15 mm 13 mm 11 mm
5° lordosis	8 mm 7 mm	9 mm
5° lordosis	17 mm 15 mm 13 mm 12 mm 11 mm 10 mm 9 mm	17 mm 15 mm 13 mm 11 mm
10° lordosis		9 mm
10° lordosis	17 mm 15 mm 13 mm 12 mm 11 mm 10 mm 9 mm	17 mm 15 mm 13 mm 11 mm
	40 mm	
15° lordosis	17 mm 15 mm 13 mm 11 mm	17 mm 15 mm 13 mm

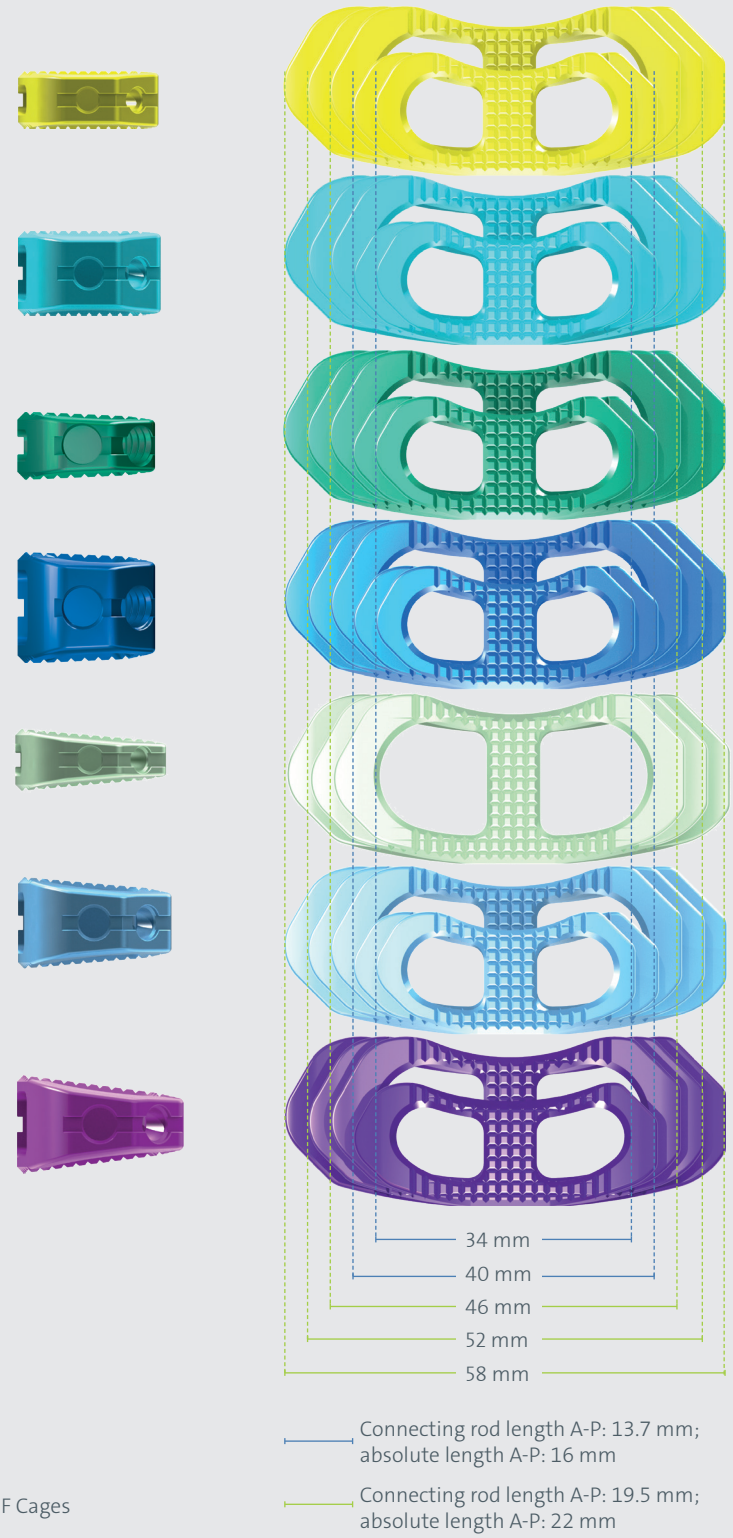


Fig. 11: Overview of heights, widths, and angles of MultiLIF Cages

Filling of the cage

RI-1324
ROCCIA Inserter M4, dismountable

RI-1325
ROCCIA Inserter M5, dismountable

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 anteromedial 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

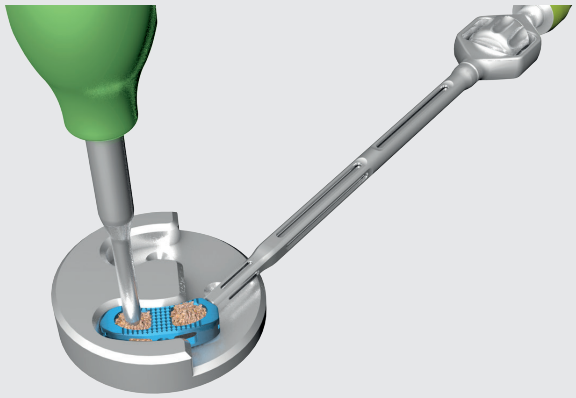


Fig. 12 Filling the cage with bone material in the loading block with pusher

Inserting the cage

RI-1324
ROCCIA Inserter M4,
dismountable

RI-1325
ROCCIA Inserter M5,
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 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.

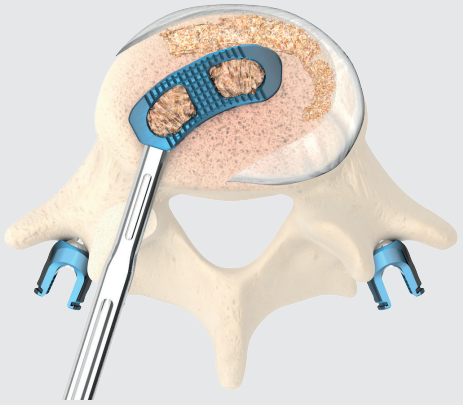


Fig. 13a Inserting the filled cage into the disc space via the TLIF approach (45°)

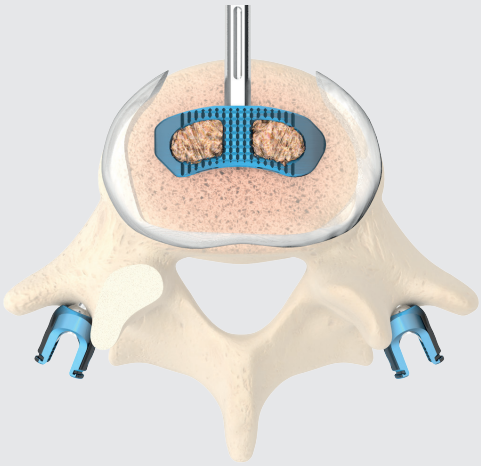


Fig. 13b Inserting the filled cage via the ALIF 0° approach

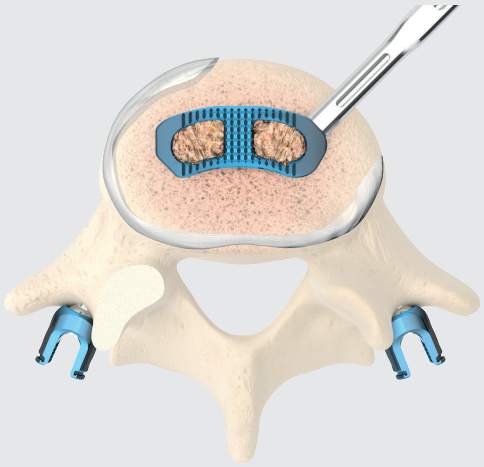


Fig. 13c Inserting the filled cage via the ALIF 45° approach

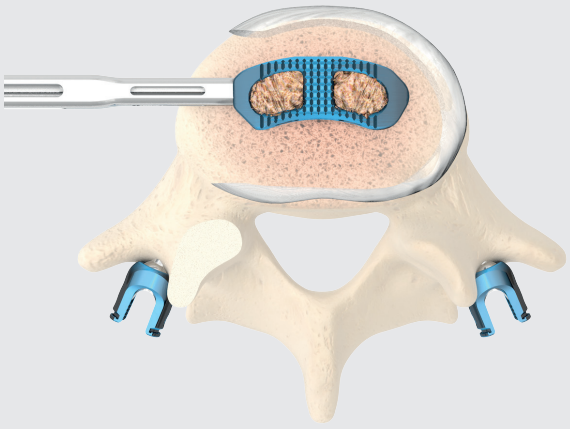


Fig. 13d Inserting the filled cage via the LLIF 90° approach

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.

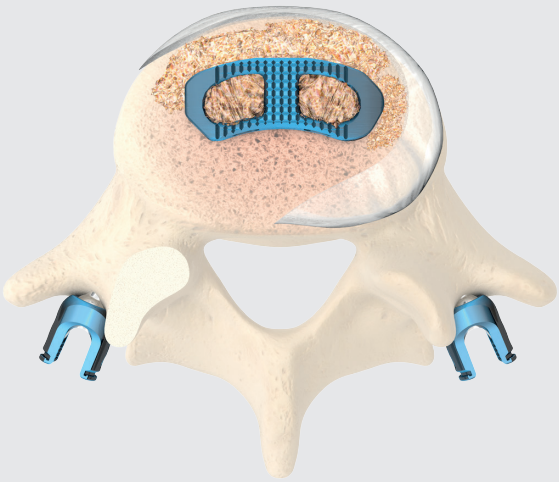


Fig. 14 a Optimal position of the filled MultiLIF Cage

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

NOTE: Posterior tension band wiring with an internal fixation system (e.g. the VERTICALE Posterior Spinal Fixation System) is necessary. Tension band wiring supports the biomechanical stability of th emotion segment of the spine and the stability of the cage(s). The final steps of posterior fixation (e.g. inseration of the rod, compression, and final tightening of the set screws) are completed after implantation of the cage.

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 in the following section.

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.

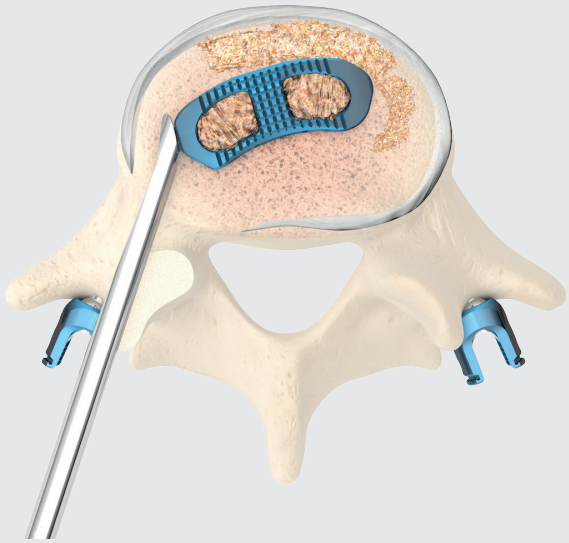


Fig. 15 Hooked implant driver for correcting the position of the cage

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.

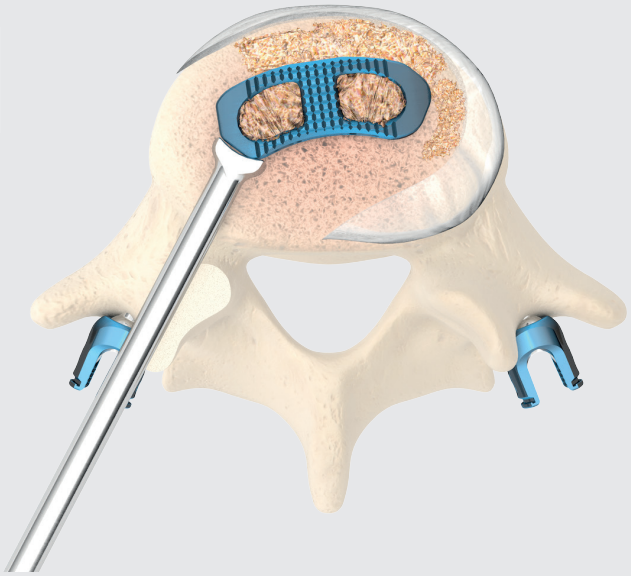


Fig. 16 Straight implant driver to finalize the position of the cage

Inserter as a revision instrument

RI-1324
ROCCIA Inserter M4,
dismountable

RI-1325
ROCCIA Inserter M5,
dismountable

RI-1355
ROCCIA Slotted Mallet, solid

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

Abb. 17 Inserter functioning as a revision instrument

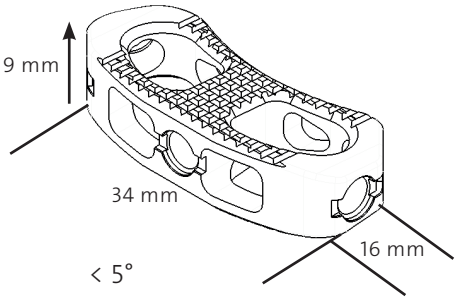
ROCCIA® MULTILIF PRODUCT INFORMATION

ROCCIA® MultiLIF Implants

Article number explanation for the cage, as an example

ROCCIA MultiLIF Cage 9 x 34, 5° lordosis

S	–	RUT	–	09	34	05	–	S
Sterile		Type		Height	Width	Angle		Property



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

System:
ROCCIA

Implant type:
MultiLIF

Configuration:
34 mm

Material:
Ti6Al4V ELI

⚠ D30284

ROCCIA® MultiLIF Implants

System:
ROCCIA

Implant type:
MultiLIF

Configuration:
40 mm

Material:
Ti6Al4V ELI

⚠ D30284

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

ROCCIA® MultiLIF Implants

Article number	Description	Illustration
S-RUT-094605-S	ROCCIA MultiLIF Cage 9 x 46 mm, 5° Lordose	
S-RUT-114605-S	ROCCIA MultiLIF Cage 11 x 46 mm, 5° Lordose	
S-RUT-134605-S	ROCCIA MultiLIF Cage 13 x 46 mm, 5° Lordose	
S-RUT-154605-S	ROCCIA MultiLIF Cage 15 x 46 mm, 5° Lordose	
S-RUT-174605-S	ROCCIA MultiLIF Cage 17 x 46 mm, 5° Lordose	
S-RUT-094610-S	ROCCIA MultiLIF Cage 9 x 46 mm, 10° Lordose	
S-RUT-114610-S	ROCCIA MultiLIF Cage 11 x 46 mm, 10° Lordose	
S-RUT-134610-S	ROCCIA MultiLIF Cage 13 x 46 mm, 10° Lordose	
S-RUT-154610-S	ROCCIA MultiLIF Cage 15 x 46 mm, 10° Lordose	
S-RUT-174610-S	ROCCIA MultiLIF Cage 17 x 46 mm, 10° Lordose	
S-RUT-134615-S	ROCCIA MultiLIF Cage 13 x 46 mm, 15° Lordose	
S-RUT-154615-S	ROCCIA MultiLIF Cage 15 x 46 mm, 15° Lordose	
S-RUT-174615-S	ROCCIA MultiLIF Cage 17 x 46 mm, 15° Lordose	

System:
ROCCIA

Implant type:
MultiLIF

Configuration:
46 mm

Material:
Ti6Al4V ELI

⚠ D30284

ROCCIA® MultiLIF Implants

System:
ROCCIA

Implant type:
MultiLIF

Configuration:
52 mm

Material:
Ti6Al4V ELI

⚠ D30284

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

ROCCIA® MultiLIF Implants

Article number	Description	Illustration
S-RUT-095805-S	ROCCIA MultiLIF Cage 9 x 58 mm, 5° Lordose	
S-RUT-115805-S	ROCCIA MultiLIF Cage 11 x 58 mm, 5° Lordose	
S-RUT-135805-S	ROCCIA MultiLIF Cage 13 x 58 mm, 5° Lordose	
S-RUT-155805-S	ROCCIA MultiLIF Cage 15 x 58 mm, 5° Lordose	
S-RUT-175805-S	ROCCIA MultiLIF Cage 17 x 58 mm, 5° Lordose	
S-RUT-095810-S	ROCCIA MultiLIF Cage 9 x 58 mm, 10° Lordose	
S-RUT-115810-S	ROCCIA MultiLIF Cage 11 x 58 mm, 10° Lordose	
S-RUT-135810-S	ROCCIA MultiLIF Cage 13 x 58 mm, 10° Lordose	
S-RUT-155810-S	ROCCIA MultiLIF Cage 15 x 58 mm, 10° Lordose	
S-RUT-175810-S	ROCCIA MultiLIF Cage 17 x 58 mm, 10° Lordose	
S-RUT-135815-S	ROCCIA MultiLIF Cage 13 x 58 mm, 15° Lordose	
S-RUT-155815-S	ROCCIA MultiLIF Cage 15 x 58 mm, 15° Lordose	
S-RUT-175815-S	ROCCIA MultiLIF Cage 17 x 58 mm, 15° Lordose	

System:
ROCCIA

Implant type:
MultiLIF

Configuration:
58 mm

Material:
Ti6Al4V ELI

⚠ D30284

ROCCIA® MULTILIF PRODUCT INFORMATION

ROCCIA® MultiLIF Trial Implants

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

System:
ROCCIA

Instrument type:
Trial implant

Configuration:
34 mm

Material:
Ti6Al4V ELI

⚠ D30003

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

System:
ROCCIA

Instrument type:
Trial implant

Configuration:
40 mm

Material:
Ti6Al4V ELI

⚠ D30003

ROCCIA® MultiLIF Trial Implants

System:
ROCCIA

Instrument type:
Trial implant

Configuration:
46 mm

Material:
Ti6Al4V ELI

⚠ D30003

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

System:
ROCCIA

Instrument type:
Trial implant

Configuration:
52 mm

Material:
Ti6Al4V ELI

⚠ D30003

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

System:
ROCCIA

Instrument type:
Trial implant

Configuration:
58 mm

Material:
Ti6Al4V ELI

⚠ D30003

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

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

ROCCIA® Instruments

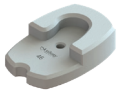
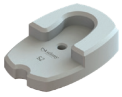
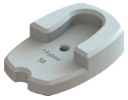
Article number	Description	Illustration
RI-1107	ROCCIA Shaver 7 mm	
RI-1108	ROCCIA Shaver 8 mm	
RI-1109	ROCCIA Shaver 9 mm	
RI-1110	ROCCIA Shaver 10 mm	
RI-1111	ROCCIA Shaver 11 mm	
RI-1112	ROCCIA Shaver 12 mm	
RI-1113	ROCCIA Shaver 13 mm	
RI-1115	ROCCIA Shaver 15 mm	
RI-1117	ROCCIA Shaver 17 mm	

Article number	Description	Illustration
RI-1207	ROCCIA Paddle Sizer 7 mm	
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	

ROCCIA® Instruments

Article number	Description	Illustration
RI-1324	ROCCIA Inserter M4, dismountable	
RI-1325	ROCCIA Inserter M5, dismountable	
RI-1330	ROCCIA Removal Adapter	
RI-1340	ROCCIA Implant Driver Straight	
RI-1343	ROCCIA Hooked Implant Driver, reinforced	
RI-1355	ROCCIA Slotted Mallet, solid	
RI-1406	ROCCIA Chisel 6 mm width, reinforced	
RI-1408	ROCCIA Chisel 8 mm width, reinforced	
RI-1410	ROCCIA Chisel 10 mm width, reinforced	

ROCCIA® Instruments

Article number	Description	Illustration
RI-1506	ROCCIA Chisel 6 mm, angled 25°	
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	
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	
RI-2050	ROCCIA Implant Loading Block	
RI-2051	ROCCIA Bone Graft Pusher	
RI-2052	ROCCIA Implant Loading Block, 52 mm	
RI-2058	ROCCIA Implant Loading Block, 58 mm	

General Instruments

Article number	Description	Illustration
GI-2101	T-Handle, short	
GI-3101	T-Handle	

Notes

silony® SPINE

Silony Medical GmbH
Leinfelder Straße 60
70771 Leinfelden-Echterdingen
Germany
Tel +49 711 78 25 25 0
Fax +49 711 78 25 25 11
www.silonyspine.com

elabeling.silony-medical.com/contact

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