

VERTICALE® POSTERIOR SPINAL FIXATION SYSTEM

INSTRUMENTATION GUIDE



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NOTE: This Guide describes the use of the VERTICALE posterior spinal fixation instrument set. This guide does not replace briefing by a physician experienced in the instrumentation used in spinal surgery.

We would be happy to assist you in finding a hospital that provides the opportunity of observing surgical procedures.





VERTICALE® – THE POSTERIOR SPINAL FIXATION SYSTEM

VERTICALE is a posterior double rod fixation system for stabilising the thoracic and lumbar spine.

The system was developed in close cooperation with experienced and qualified spinal surgeons as well as theatre and sterilisation staff in surgical environments. As a result, VERTICALE is a well-designed, modular and versatile fixation system.

The VERTICALE system is made up of polyaxial, monoaxial, uniplanar and iliac screws that are available as short head and long head screws (reduction screws). This range of pedicle screws, in either solid or cannulated and fenestrated versions, combined with 5.5-mm titanium or cobalt chromium rods means that the VERTICALE system is suitable for a wide range of indications. Degenerative spinal diseases can be stabilised in a controlled manner and deformities can be comfortably corrected.

Special attention was paid to structuring the system ergonomically. Particular emphasis was placed on a modular design and clear structure for the VERTICALE instruments. Bi-functional 2-in-1 instruments and modular handle options, along with individually customisable screw trays, facilitate routine use of the system.

Like all other implants and instruments developed by Silony Medical, the VERTICALE system is a living system. Whether instrument or implant device — we are constantly working to expand and improve our systems in order to optimally meet the needs of patients, physicians and hospital nursing staff.

The safety and effectiveness of this device has not been established when used in conjunction with bone cement or for use in patients with poor bone quality (e.g., osteoporosis, osteopenia). This device is intended only to be used with saline or radiopaque dye.





Indications

The VERTICALE System is intended to provide immobilization and stabilization of spinal segments in skeletally mature patients as an adjunct to fusion in the treatment of acute and chronic instabilities or deformities of the thoracic, lumbar and sacral spine. The VERTICALE system is intended for non-cervical pedicle fixation and non-pedicle fixation for the following indications: degenerative disc disease (defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies); spondylolisthesis; trauma (i.e., fracture or dislocation); spinal stenosis; curvatures (i.e., scoliosis, kyphosis, and/or lordosis); tumor, pseudoarthrosis; and failed previous fusion in skeletally mature patients.

When used in a posterior percutaneous approach with MIS instrumentation, the VERTICALE MIS System is intended for non-cervical pedicle fixation and non-pedicle fixation for the following indications: degenerative disc disease (defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies); spondylolisthesis; trauma (i.e., fracture or dislocation); spinal stenosis; curvatures (i.e., scoliosis, kyphosis, and/or lordosis); tumor, pseudoarthrosis; and failed previous fusion in skeletally mature patients.

When used for posterior non-cervical pedicle screw fixation in pediatric patients, the VERTICALE and VERTICALE MIS metallic implants are indicated as an adjunct to fusion to treat adolescent idiopathic scoliosis. Pediatric pedicle screw fixation is limited to a posterior approach.

Contraindications

Under certain circumstances, implantation is prohibited or associated with substantial risks, even though there may be an indication for it.

These include in particular:

- Anticipated or documented allergy or intolerance to composite materials (e.g. titanium or cobalt chromium)
- Any case in which the chosen implants would be too large or too small to achieve a successful outcome
- Any patient for whom the use of the implant would conflict with anatomical structures
- Active systemic infection or infection localized to the site of the proposed implantation are contraindications to implantation.
- Osteoporosis is a relative contraindication because the missing bone structures that render good anchoring of the implant impossible and thus preclude the use of this or any other spinal instrumentation system.
- Any entity or condition that totally precludes the possibility of fusion, i.e., cancer, kidney dialysis, or osteopenia is a relative contraindication.
- Disease conditions that have been shown to be safely and predictably managed without the use of internal fixation devices are relative contraindications to the use of these devices.
- Other relative contraindications include obesity, certain degenerative diseases, and foreign body sensitivity.

In addition, the patient's occupation or activity level or mental capacity may be relative contraindications to this surgery. Specifically, patients who because of their occupation or lifestyle, drug abuse, may place undue stresses on the implant during bony healing and may be at higher risk for implant failure.

VERTICALE® STANDARD INSTRUMENTATION

In the following section we first describe a monosegmental posterior VERTICALE standard instrumentation which forms the basis for all subsequent work steps with additional instruments and implant devices. Multisegmental instrumentations are also performed according to this instruction.

Position and approach

The patient is positioned in the prone position, as is common for the posterior approach. The main incision is performed medially above the spinous processes depending on the spinal segments being treated. After that, the soft tissue is dissected until the anatomical structures of the spinal column can be clearly seen.

Opening the pedicle

VI-1010 VERTICALE Triangular Awl



The desired screw insertion point into the pedicle is defined by means of anatomical landmarks and under radiographic control and the cortex subsequently opened with the short probe (VERTICALE Trocar) (Fig. 1). For safety reasons, the probe has a depth stop after 10 mm (Fig. 2).



Fig. 1 Pedicle screws' trajectory

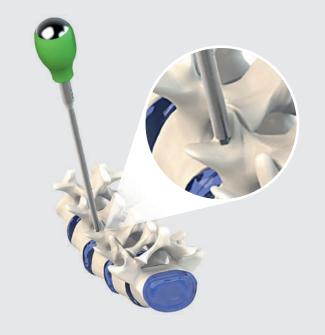


Fig. 2 Opening the pedicle with the VERTICALE Triangular Awl



To further open up the pedicle down to the cancellous bone of the vertebral body, the corresponding is used (Fig. 3).

* Further probes are shown in the chapter 'Instruments'.

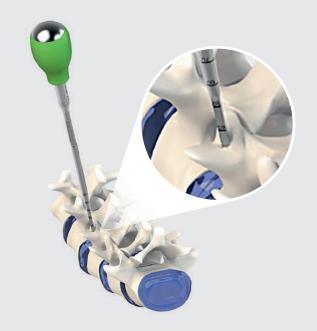
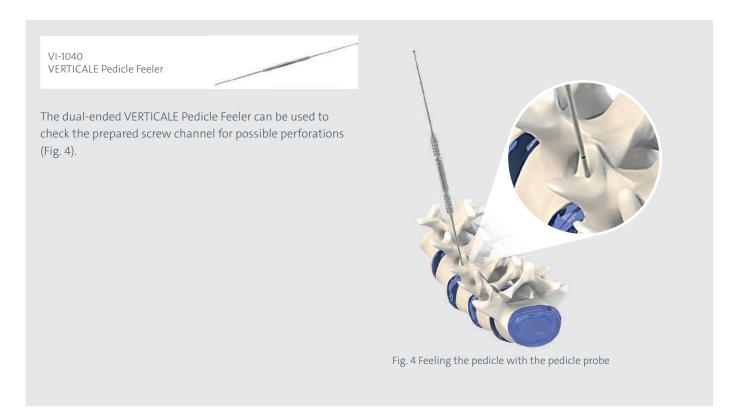
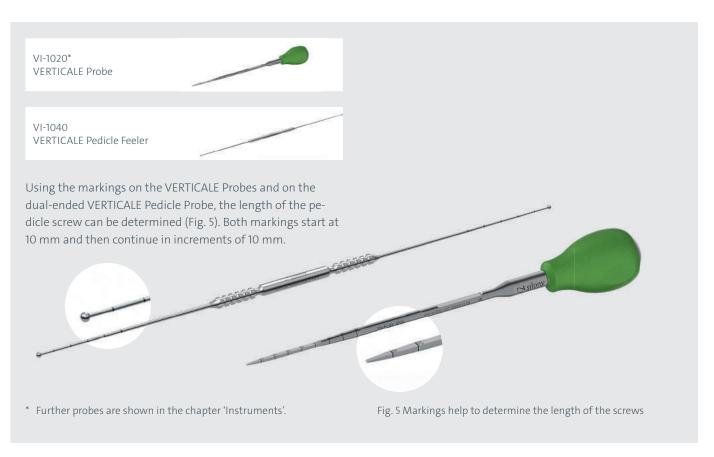


Fig. 3 Preparing the screw channel with the probe

Feeling the pedicle



Determining the screw length



Tapping (optional)



Some VERTICALE Pedicle Screws have a self-tapping thread. Very hard bone structures (e.g. sclerotic bone) may make it necessary to pre-tap the thread. Two taps for the screws with a diameter of 4.5 and 5.2 mm or 6.2 and 7.2 mm are available for this. Taps with corresponding diameters (8.2 and 9.2 as well as 10.2 mm) are also available for the preparation for iliac and revision screws.

After selecting the appropriate modular handle (T-handle, drop handle, with or without ratchet mechanism), the latter is connected to the corresponding VERTICALE Tap by locking in

The screw channel is then prepared clockwise. Laser markings on the tap make it easy to read off the current depth of the thread (Fig. 6).

The thread on the VERTICALE Tap has a length of 25 mm. The laser markings start at 30 mm, all further markings are at increments of 5 mm (Fig. 7). After cutting, the tap is disengaged by turning it counterclockwise.

Cannulated taps are available for guided insertion using a guide wire (up to Ø 1.6 mm). Guide Wires are shown in chapter "Instruments"

- * Further handle options are shown in the chapter 'General Instruments'.
- ** Further taps are shown in the chapter 'Instruments'.

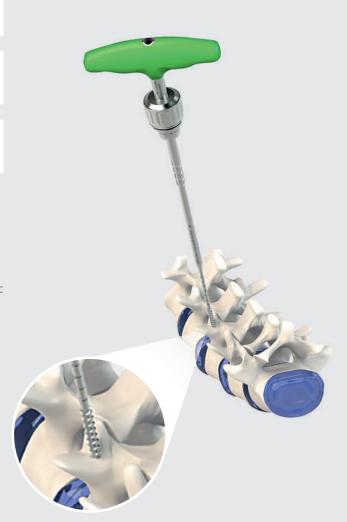


Fig. 6 Optional tapping

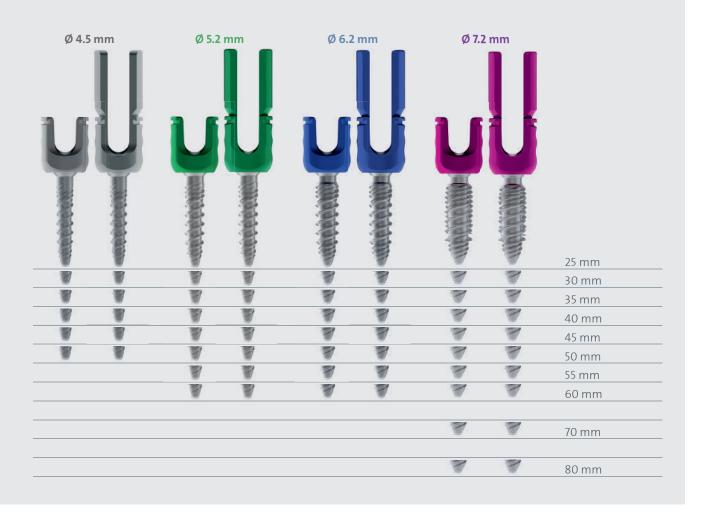


Selecting the pedicle screws

To facilitate rapid and easy identification, all VERTICALE Pedicle Screws are colour coded by diameter. The lengths vary in 5-mm increments.

NOTE: Using the A-P X-ray image, choose pedicle screws according to the pedicle diameter with the largest possible diameter. The length of the screw should be such that it reaches at least 2/3 of the diameter of the vertebral body, and in the best case the anterior edge of the vertebral body. A sacral screw fixation should be barely bicortical (perforation of the anterior cortex with at most one thread).

NOTE: We would like to point out that the uniplanar screws are screwed into the bone with the VERTICALE pedicle screwdriver (VI-1130). Futhermore, we recommend a subsequent correction of the head alignment and / or the screwing depth with the VI-1445 or VI-1446. This prevents overuse of the distortion lock. Please note that the use of the VERTICALE rod and tulip adjuster (VI-1340) may cause the distortion lock to fail.



Preparing the pedicle screwdriver

GI-3111* Ratchet T-Handle cannulated



VI-1130**
VERTICALE Pedicle Screwdriver
T25



The VERTICALE Pedicle Screwdriver is used to screw in the VERTICALE Pedicle Screws.

The modular handles are available for use with the screwdrivers (T-handle, drop handle, with or without ratchet mechanism).

Care must be taken to ensure an orthograde alignment between the screw head and screw shaft. The VERTICALE Pedicle Screwdriver is first inserted deeply into the inner torx of the screw shaft.

After that, the internal thread of the screw head is connected to the external thread of the instrument by rotating clockwise and applying mild downward force with the instrument shaft. Please make sure the connection is secure.

The VERTICALE Pedicle Screwdriver is a 2-in-1 instrument and can be used for both long head and short head pedicle screws with just one simple adjustment. (Fig. 8a and 8b).

The adjustment is done by pressing the button on the middle part of the handle of the instrument. For pedicle screws with a short head, it is moved downwards (2). For pedicle screws with a long head, the middle part of the handle has to be released by pressing the button (1). After this, the Torx can be inserted deep into the long head screws (Fig. 9).

- * Further handle options are shown in the chapter 'General Instruments'.
- ** Further screwdrivers are shown in the chapter 'Instruments'.



Fig. 8a Pedicle screw, short head

Fig. 8b Pedicle screw, long head



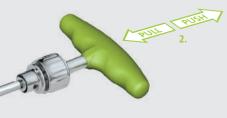


Fig. 9 2-in-1 — Adjusting from a pedicle screw with a long head to a short head

Inserting the pedicle screws

GI-3111* Ratchet T-Handle cannulated



VI-1130**
VERTICALE Pedicle Screwdriver
T25



The VERTICALE Pedicle Screws are screwed into the prepared screw channel until the screw shaft is fully inserted into the pedicle (Fig. 10). Screwing too far into the pedicle can restrict the mobility of the head and makes it difficult to insert the rod later.

The instrument is then disengaged from the pedicle screw by rotating the middle part of the handle counterclockwise. This process is repeated until all pedicle screws have been inserted. We strongly recommend that the correct positioning of the pedicle screws is verified using an image converter in frontal and sagittal projection.

- * Further handle options are shown in the chapter 'General Instruments'.
- ** Further screwdrivers are shown in the chapter 'Instruments'.

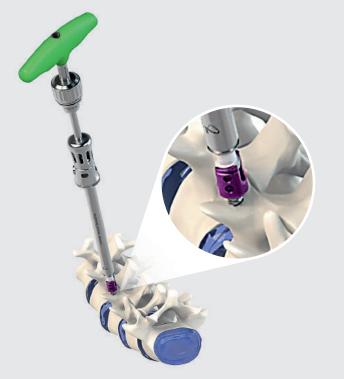


Fig. 10 Inserting the pedicle screw into the bone

NOTE: Care must be taken not to restrict the polyaxiality of the screw head. When using monoaxial screws it must be ensured that the screw head is positioned in a superior-inferior direction. If necessary, unscrew the screw a little.

Countersinking the pedicle screw

GI-3111* Ratchet T-Handle cannulated

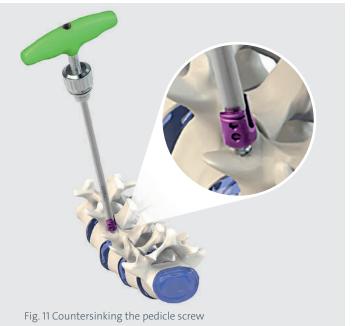


VI-1445**
VERTICALE T25 Screwdriver
Shaft



The VERTICALE T25 Screwdriver Shaft with a handle is available for countersinking the pedicle screws (Fig. 11).

- * Further handle options are shown in the chapter 'General Instruments'.
- ** Further screwdriver shafts are shown in the chapter 'Instruments'.



Aligning the screw heads

VI-1340 VERTICALE Rod and Tulip Adjuster



The VERTICALE Pedicle Screw heads are adjusted with the VERTICALE Rod and Tulip Adjuster. The adjuster is placed into the screw head and can then be used to align the screw depending on how the rod will subsequently be inserted (Fig. 12).

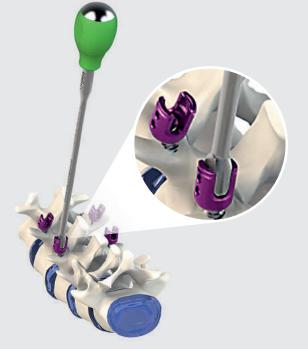


Fig. 12 Aligning the pedicle screw heads with the Rod and Tulip Adjuster

Selecting and sizing the rods

VI-1270 VERTICALE French Bender



Various rod lengths with a diameter of 5.5 mm are available. By default, the system comes with straight and pre-curved titanium rods and straight CoCr rods.

All curved rods have a decagonal end on one side and all straight rods on both sides (Fig. 14). This makes it easier to perform necessary rotations. For individual anatomic adjustment of the rod, you can use the VERTICALE French Bender or the in-situ VERTICALE Rod Bender (Fig. 13). To mimic the required rod contouring, phantom rods can be used. For 'Rotating the rod' and 'In-situ bending', see the chapter on VERTICALE Instrumental reduction (page 20). Rods that are too long can be shortened using a rod cutter. When selecting the rod connection, ensure sufficient rod length.

NOTE: Any bending back of the rod decreases the fatigue life of the material and should be avoided. For this reason, bending of the rod should be performed gradually until the desired curvature is attained.



Fig. 13 Bending the rod with the VERTICALE French Bender

Fig. 14 Decagonal rod end for rotation



Inserting the rods

VI-1320* VERTICALE Rod Holder

The rods are inserted using the VERTICALE Rod Holder (Fig. 15).

* Further rod holders are shown in the chapter 'Instruments'.

NOTE: Please note that the ends of the rods will protrude by 3 to 5 mm beyond the last pedicle screw head. The decagonal end must be fully visible. If necessary, a new rod length will have to be selected.

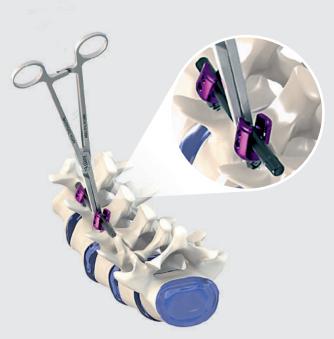


Fig. 15 Inserting a rod with the rod holder

Positioning the rods in the screw head



If the rod is not placed deep enough into the pedicle screw head, it can be maneuvered into the correct position with the VERTICALE Rod and Tulip Adjuster (Fig. 16).

The VERTICALE Rod and Tulip Adjuster can be used to insert the rod into the screw head.

* Further set screw starters are shown in the chapter 'Instruments'.



Fig. 16 Positioning the Rod with the rod and Tulip Adjuster and the Set Screw Starter

Temporarily fixing the set screws



VI-1410 VERTICALE Protection Sleeve



The set screw is inserted with the VERTICALE Set Screw Starter. To do this, it is inserted into the Torx of the set screw (self-retaining). The rod is temporarily fixed by gently turning the set screw (Fig. 17a).

The VERTICALE Protection Sleeve can be used for guided insertion of the set screws. It is mounted onto the pedicle screw head and onto the rod (Fig. 17b) and fits onto both the pedicle screw head of the short head and long head screws.

NOTE: Set screws should always be inserted with a smooth clockwise rotation. To prevent tilting, a brief prior counterclockwise rotation can facilitate insertion of the set screw into the first thread.

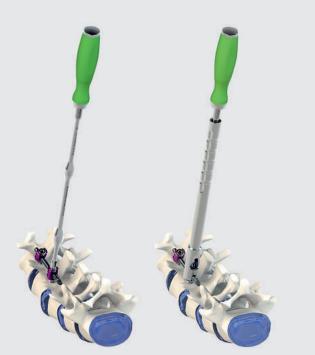


Fig. 17a Set screw starter

Fig. 17b Set screw starter with protection sleeve

VI-1450 VERTICALE Counter Torque



A VERTICALE Counter Torque is available to prevent rotation when tightening the set screw. The torque can be comfortably mounted parallel or at right angles to the rod (Fig. 18).

* Further set screw starters are shown in the chapter 'Instruments'.

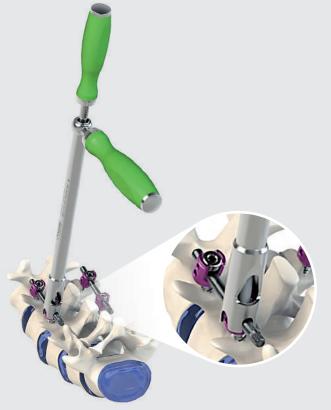
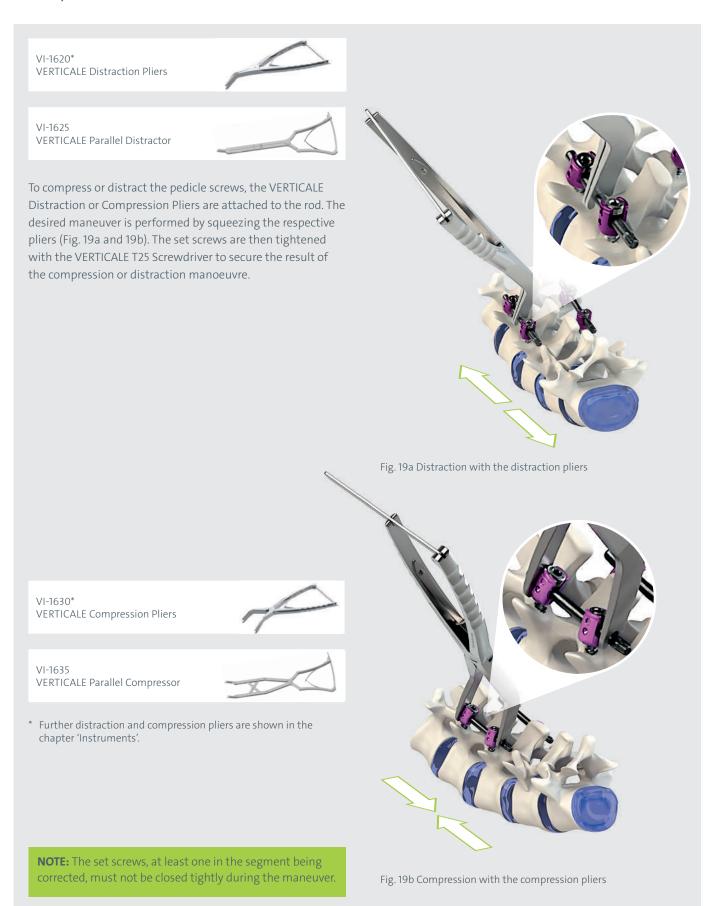


Fig. 18 Set screw starter with counter torque

Compression and distraction



Final tightening with the counter torque



The VERTICALE Counter Torque is used to stabilise the rotation when tightening the set screw in both the short and long head screw. In order to insert the set screw with guidance, the counter torque is placed directly onto the screw head. The VERTICALE T25 Torque Limiter can then be guided by the counter torque (Fig. 20) and the set screw tightened in its final position with a torque of 10 Nm (an audible click indicates that the torque has been reached).

The same procedure must be repeated with all other set screws.

We recommend securing the correct screw seat by repeatedly tightening with the torque limiter. Confirmation with two clicks.

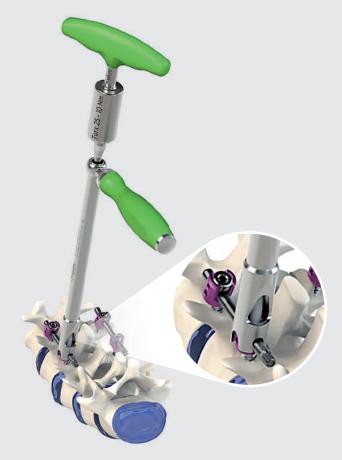


Fig. 20 Final tightening with the counter torque

CONTROL

The result of the instrumentation is verified by means of an image converter in two planes.

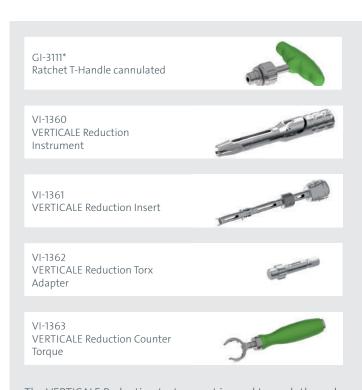




VERTICALE® INSTRUMENTAL REDUCTION AND CORRECTION OPTIONS

It is often necessary to perform intraoperative reductions and corrections of the implant devices with the help of VERTICALE instruments in one or more segments. These instruments are described in the next chapter.

Reduction with the reduction instrument



The VERTICALE Reduction Instrument is used to push the rod with the reduction insert into the base of the pedicle screw head. It is form-locked onto the screw head. The VERTICALE Reduction Insert is inserted into the reduction instrument while making sure that movement is not restricted. The rod is introduced into the screw head by turning the handle on the insert (Fig. 21). At the same time, the position of the vertebral body is corrected to posterior.

An option for more difficult reduction maneuvers is to attach a handle onto the VERTICALE Reduction Insert using the VERTICALE Torx Adapter. The handle enables the user to apply more force onto the reduction insert. The reduction counter handle can be used to counteract rotational forces.

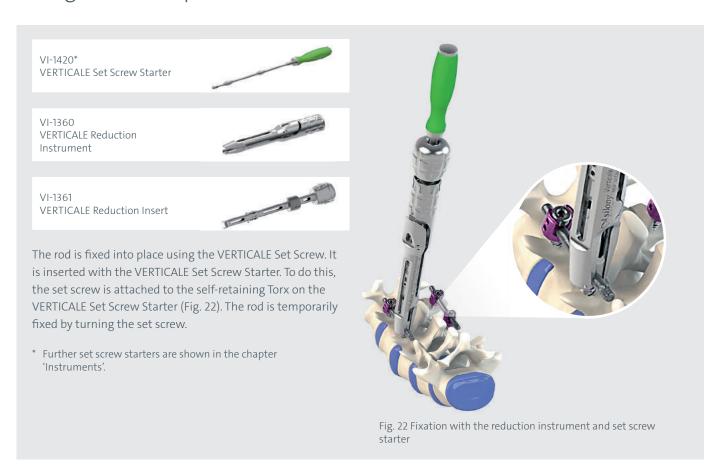
* Further handle options are shown in the chapter 'General Instruments'.



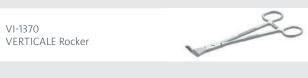
Fig. 21 Reduction using the reduction instrument with reduction insert, T-handle and reduction counter handle

NOTE: When using monoaxial screws it may be more difficult to assemble multiple reduction instruments, as these must always be aligned in an orthograde position to the pedicle screw. In the event of severe lordosis, for example, the alignment of the reduction instrument may prevent the application of a second reduction instrument.

Fixing the rod in place with the reduction instrument



Reduction with the rocker instrument



To reduce the rod, the VERTICALE Rocker instrument is hooked into the lateral drill holes on the screw head. By pushing down the rocker in the direction of the arrows, the rod is levered into the screw head (Fig. 23). The set screw is inserted with the VERTICALE Set Screw Starter.

NOTE: Set screws should always be inserted with a smooth clockwise rotation. To prevent tilting, a brief prior counterclockwise rotation can facilitate insertion of the set screw into the first thread.

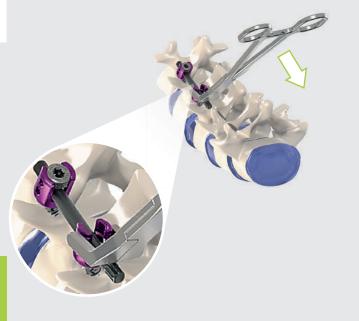


Fig. 23 Reduction with the rocker instrument

Reduction with the reduction instrument, compact



First the VERTICALE Reduction Instrument is connected to the screw head. Pushing down the upper end of the clamp will open the bottom end (Fig. 24). Please pay attention to the correct alignment of the instrument before closing it over the screw head. Afterwards the SPECIALS Reduction insert can be inserted into the SPECIALS Reduction Instrument (Fig. 25). By turning the SPECIALS Reduction insert (Fig. 26) a strong connection will occur between the pedicle screw and the instrument, which is important for the reduction maneuver.

The SPECIALS Reduction Counter Handle is connected onto the SPECIALS Reduction Instrument. More reduction force can be applicated by using both the torx adapter and the counter handle. The SPECIALS Reduction Torx Adapter hooks into the insert and by turning the handle the rod will be inserted into the screw head (Fig. 27). At the same time the alignment of the vertebral bodies is corrected to posterior.



Fig. 24 Connecting the reduction instrument to the screw head



Fig. 27 Insertig the reduction insert into the reduction instrument



Fig. 26 Applying reduction force to the construct



Fig. 27 Reduction maneuver using the reduction instrument and the counter handle.

Correction aids

The following additional instruments are available as correction aids:

VI-1340 VERTICALE Rod and Tulip Adjuster



VERTICALE Rod and Tulip Adjuster

The rod and tulip adjuster can also be used to lever the rod into the pedicle screws.



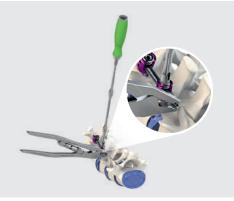
VI-1530* VERTICALE Rod Gripper



VERTICALE Rod Grippers

The rod can be securely and stably fixed during correction manoeuvres using the VERTICALE Rod Grippers.

* Further Rod Gripper are shown in the chapter 'Instruments'.

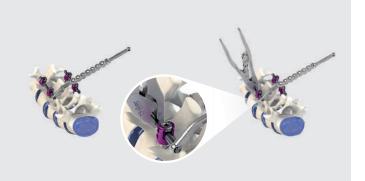


VI-1510 VERTICALE Rod Rotation Wrench



VERTICALE Rod Rotation Wrench

A rod rotation wrench is available for comfortable and gradual rotation of the rod (e.g. for derotation of scoliosis). It is attached to the decagonal end of the rod.

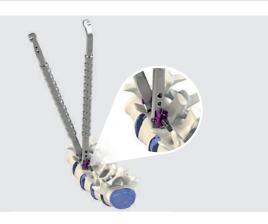


VI-1610 VERTICALE Rod Bender



Shaping rods with the VERTICALE Rod Benders (in-situ bending)

The VERTICALE Rod Benders are used to curve the rods in-situ.



REDUCTION WITH THE VERTICALE® REDUCTION SCREWS

The extended head profile of the reduction screw (long head) facilitates reduction of the rod with no need for special reduction instruments. These screws allow for correction maneuvers such as derotation of the vertebral bodies as well as distraction, compression, lordosis and kyphosis.

The instrumentation workflow when using the VERTICALE Reduction Screws is the same as that for pedicle screws; however, when fixing the screws into place, the VERTICALE Pedicle Screwdriver has to be brought into the position for reduction screws (see the section on preparing the pedicle screwdriver).

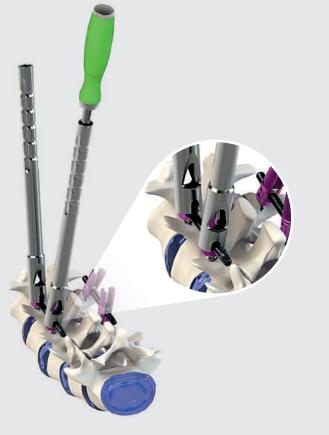
They are particularly well suited for deformities and spondylolisthesis, as they make it easier to insert the rod into the screw head.

Inserting the set screw into the reduction screw



In order to prevent spreading of the tabs when inserting the set screw, the VERTICALE Protection Sleeve has to be placed onto the reduction screw beforehand (Fig. 28).

* Further set screw starters are shown in the chapter 'Instruments'.



Removing the tabs

VI-1160 VERTICALE Break-Off Tool



After a reduction maneuver, the protruding tabs of the head profile of the reduction screws are broken off by gently tilting them using the VERTICALE Break-Off Tool (Fig. 29). The break-off tool can hold up to six tabs in its reservoir before it has to be emptied.

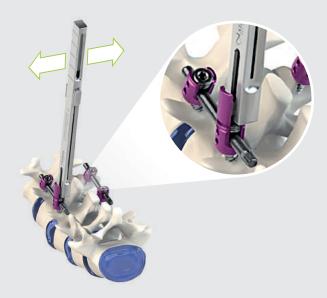


Fig. 29 Breaking off the tabs with the break-off tool

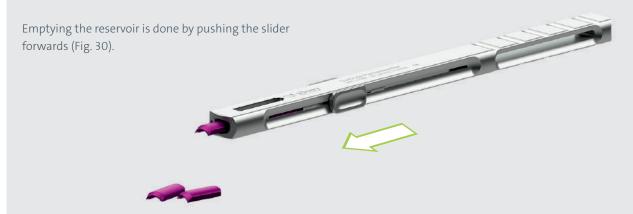


Fig. 30 Break-off tool with tab ejector

INSTRUMENTATION WITH THE VERTICALE® CONNECTORS

VERTICALE Cross Connectors are recommended to improve rotational stability, especially for instrumentations spanning long segments.

Inserting the cross connectors



The VERTICALE Cross Connector Hook is engaged with the VERTICALE Rod and Cross Connector Holder and placed onto the first VERTICALE Cross Connector Rod (Fig. 31).

First, the blue set screws are inserted loosely into the cross connector hooks using the VERTICALE T20 Screwdriver 7 Nm.

After that, the cross connector rod is engaged with the VER-TICALE Rod and Cross Connector Holder and inserted between the first hook and the first long rod. The cross rod then has to be positioned as far laterally until the second hook can be placed onto the contralateral long rod. If necessary, the first hook can be provisionally tightened with the VERTICALE T20 Screwdriver 7 Nm.

When inserting the second hook, the set screw of the first hook has to be loosened, if necessary, in order to be able to push the cross connector rod under the second hook and position it in the middle.

After that, the set screws are tightened in the cross connector hook using the VERTICALE T20 Screwdriver 7 Nm (Fig. 32).

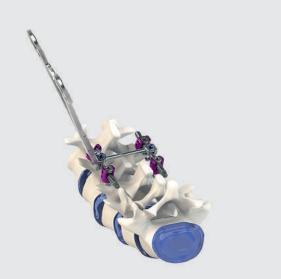


Fig. 31 Attaching the connector hook



Fig. 32 Inserting a cross connector

Inserting the lengthwise connectors

VI-1820 VERTICALE Domino Holder



VI-1830 VERTICALE Rod and Cross Connector Holder



VERTICALE Domino (side-to-side) and Inline Rod Connectors are available for connecting the VERTICALE 5.5-mm Rods lengthwise in order to enable a connection to be made between a new segment and a previously treated fusion segment using 5.5-mm VERTICALE rods.

The blue set screws are first inserted loosely into the cross connectors with the VERTICALE T20 Screwdriver 7 Nm.

The VERTICALE Rod and Cross Connector Holder is used to engage the inline rod connectors (Fig. 33) while the VERTICALE Domino Holder is used to engage the VERTICALE Domino Rod Connector (Fig. 34). Before the set screws are tightened, the rods have to be inserted into the rod connectors until the center so that the set screw is fully seated on the rod. This can be checked in the viewing pane of the respective inline rod connector. The final fixing into place is done by tightening the set screws with the VERTICALE T20 Screwdriver 7 Nm to a specified torque of 7 Nm.

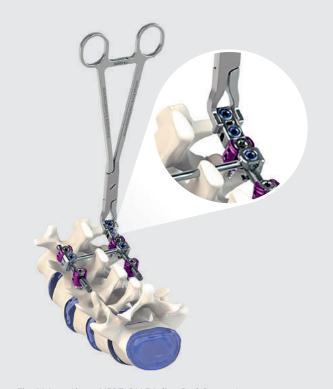


Fig. 33 Inserting a VERTICALE Inline Rod Connector

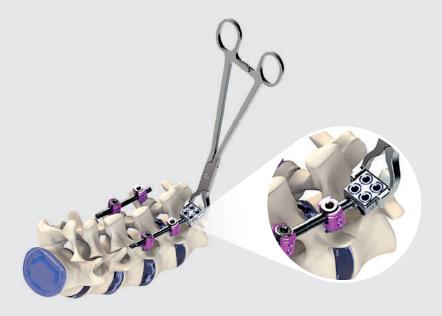


Fig. 34 Rod and cross connector holder with rod connector (side-to-side)

VERTICALE® ILIAC INSTRUMENTATION

VERTICALE Iliac Screws enable the preparation of a solid base for extensive and complex reconstructions.

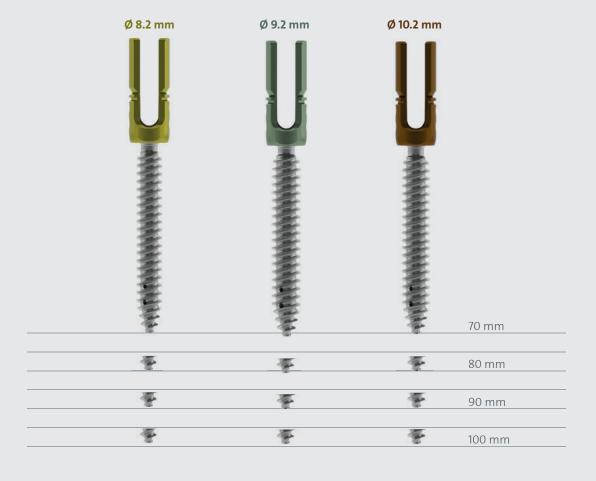
Selection of iliac screws

During the use of large diameter screws, large insertion torques may be required, which may have an effect on the stability and usability of the instruments used, in particular the screw driver.

Silony offers a very comprehensive portfolio of screws for spinal surgery, including large diameter screws with diameters 8.2, 9.2 and 10.2 mm, and lengths ranging from 70 mm to 100 mm.

These screws have been specifically designed for indications that include large pedicle and iliac fixations or revision of screws. The large diameter screws feature a similar type of thread as offered in the range of Silony screws with smaller diameters, and also feature self-tapping and cannulated end to help insertion.

Large diameter screws typically require a larger insertion torque when compared to similar screws of a smaller diameter. As a result, during insertion the forces on the connection between the screw and insertion instrument may run high, adding the risk that the connection will fail due to failure of material or parts of the instrument and/or the screw head. To facilitate rapid and easy identification, all VERTICALE Iliac Screws are colour coded by diameter. The lengths vary in 10-mm increments.



Preparation and Retrieval

Tapping thread

As a result, it is highly recommended to tap a thread before inserting the large diameter screws, as is also recommended for smaller diameter screws. In case a screw is already partially inserted and the surgeon estimates that loads are getting high for the encountered circumstances, it is highly recommended to retrieve the screw with the instrument VI-1445 [Verticale T25 Screwdriver Shaft] or VI-1446 [Verticale T25 SD Shaft bullet head], tap thread additionally, and re-insert the screw with the standard screw inserter VI-1130. If needed, select an alternative, most optimal size screw for those circumstances.

Retrieval of the Large Diameter Screws

In case the surgeon needs to retrieve a large diameter screw, the instruments VI-1445 [Verticale T25 Screwdriver Shaft] or VI-1446 [Verticale T25 SD Shaft bullet head are preferred. These instruments are specifically designed for this purpose and their connection with the screw is able to withstand a considerable higher torque. Please note that these instruments do not provide mechanical stability in its connection to the screw, like the standard screw driver VI-1130 does, and is therefore optimal for retrieval of large diameter screws.

Handles

The use of the t-handles (i.e. GI-3111, GI-3101, GI-2111 or GI-2101) is not recommended, because t-handles in general are able to transfer a high torque without providing the sometimes necessary tactile feedback about the actual height of the torque applied. During insertion of the screws, it is highly recommended to use the straight or drop shaped handle types.

Summary

Silony large diameter screws offer a great option for large pedicle or ilium fixation, as well as revision screws. This info emphasizes the optimal use of these screws in combination with its particularly designed instruments, which will enable surgeon to treat their patients in extreme cases to the highest standards.

Inserting the iliac connector



The Iliac Connector can be used to connect the iliac screw with the rod.

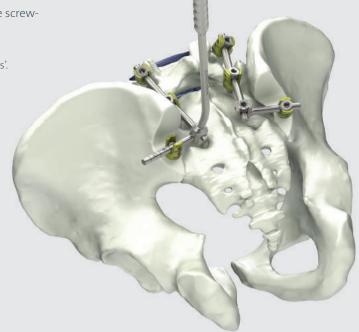
The gauge can be used to determine the correct length of the iliac connector.

The iliac connector is grasped with the rod gripper. The head of the connector is inserted on the rod and fixed loosely with a set screw.

Afterwards, the other end is placed into the screw head of the iliac screw. The set screw should only be tightened with the VERTICALE T25 Screwdriver and the VERTICALE Counter Torque when the positioning is fully completed.

If necessary, shorten the rod to the right length before screwing together.

* Further Rod Gripper are shown in the chapter 'Instruments'.



NOTE: The distances marked on the template correspond to the implant size (mm).

VERTICALE® HOOK INSTRUMENTATION

VERTICALE Hooks are one application option available when using the VERTICALE system. Hooks are a suitable alternative when it is not possible to insert screws due to the anatomical situation.

Important advice:

Hooks do not provide three-dimensional stability, which is why using a cross connector as a brace across both rods is recommended in order to achieve primary stability.

Ensure that the hooks are not placed in too deep a position and that they do not press against the spinal cord. Pressure on the spinal cord or on the nerve roots should be avoided.

Using a hook can reduce the risk of injury to nerves when determining the location of the pedicle or placing a screw in a pedicle that is difficult to identify.

On the other hand, using a hook increases the risk of neurological damage.

Lamina hooks are inserted with their shoe inside the spinal canal and can therefore cause compression to be applied to the spinal cord and / or nerve roots, resulting in neurological damage.

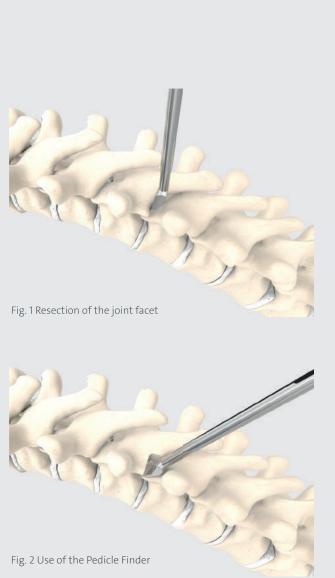
Exposure of the facet joint and the pedicle



In the thoracic region, the pedicle hook is generally used in the superior direction.

To this end, the inferior joint facet is resected at a right angle using the VERTICALE Facet Finder (Fig. 1). Underneath, the superior joint facet of the inferior vertebra is exposed. The pedicle is identified by moving underneath the facet of the superior vertebra while on the facet that has been exposed.

Expose the pedicle using the VERTICALE Pedicle Finder. To do so, the instrument is placed between the lower and the upper facet joint (Fig. 2). Ensure that the VERTICALE Pedicle Finder is seated in the joint line and not in the bone of the facet beneath. In order to simplify insertion of the pedicle hook, a small part of the lower facet should be removed using the VERTICALE Facet Finder. Move the VERTICALE Pedicle Finder in the lateral and superior direction in order to verify the ideal position. In doing so, the instrument should not be pressed in the medial direction. Then remove the instrument.



Insertion and positioning of the pedicle hook



Once a suitable pedicle hook has been selected, it is attached to the VERTICALE Hook Holder (Fig. 3a + 3b). The Pedicle Hook is then inserted at the required location (Fig. 4).

The VERTICALE Hook Pusher simplifies correct placement (Fig. 5). This procedure is repeated for the insertion of the other pedicle hooks.

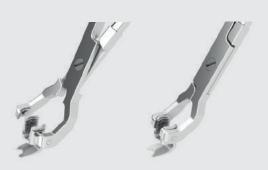


Fig. 3a Preparation Fig. 3b Attachment of the Hook Holder hook in the Hook Holder

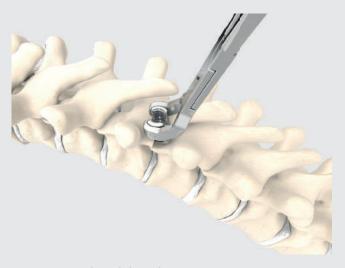
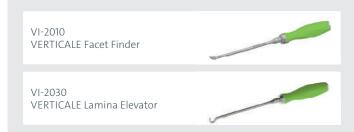


Fig. 4 Positioning the Pedicle Hook

Fig. 5 Correction of the position using the Hook Pusher

- * Additional hook options are described in the chapter "implants".
- ** Further Hook Holder are shown in the chapter "Hook instruments".

Exposure of the transverse process



Lamina hooks are inserted at the lamina both in the lumbar and in the thoracic spine (inferior-superior, superior-inferior or at the transverse processes).

For this purpose, the transverse process is exposed by using the VERTICALE Lamina Elevator (Fig. 6) to circle it in the superior area.

For inferior placement of Lamina hooks, the hook is positioned in the supra-Lamina, thoracic or lumbar area following partial removal of the ligamentum flavum using the VERTICALE Facet Finder.

If necessary, the spinous processes are shortened until the ligamentum flavum becomes visible.

In order to ensure secure anchoring of the Lamina hook, the ligamentum flavum and a part of the lamina can be carefully removed using the VERTICALE Facet Finder.

Supra-Lamina hooks are used in segments T1-L5. Superior or inferior alignment can be selected in this case.

To expose the area where the supra-Lamina hook is to be seated, a laminotomy must be carried out if required. Partial resection of the ligamentum flavum is required. For this purpose, the VERTICALE Lamina Elevator can be used. In order to ensure stable anchoring of the implant, as little bony structure as possible should be removed. The inferior part of the lamina must also be resected if required in order to ensure appropriate placement of the hook.

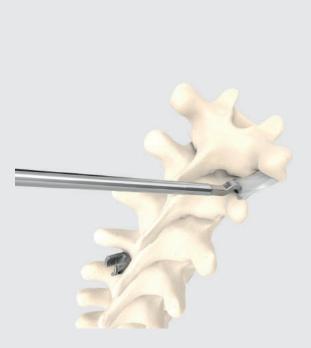


Fig. 6 Exposure of the transverse process

Insertion and positioning of the Lamina hooks



The Lamina Hook is attached to the VERTICALE Hook Holder and then inserted at the required location (Fig. 7). The VERTICALE Hook Pusher simplifies correct placement (Fig. 8). You can repeat this procedure for each Lamina Hook.

NOTE: Ensure that the Lamina Hook is not placed in too deep a position and that it does not press against the spinal cord.



For this purpose, the Sub-Lamina Hook / Supra-Lamina Hook is attached to the VERTICALE Hook Holder in the same way as the Lamina Hook.

The Sub-Lamina Hook / Supra-Lamina Hook can then be inserted at the required location.

The VERTICALE Hook Pusher simplifies correct placement. You can repeat this procedure for each Sub-Lamina Hook / Supra-Lamina Hook.

NOTE: Ensure that the sub-Lamina hook is not placed in too deep a position and that it does not press against the spinal cord.

- * Additional hook options are described in the chapter "implants".
- ** Further Hook Holder are shown in the chapter "Hook instruments".



Fig. 7 Positioning the Lamina Hook



Fig. 8 Correction of the position using the Pusher

Offset Hook

VPH-1030 VERTICALE Offset Hook, left



VPH-1035 VERTICALE Offset Hook, right



When using hooks in the lumbar spine, hooks known as Offset Hooks are generally required. The hooks can be positioned using superior or inferior alignment.

In individual situations (e.g. when an adjacent pedicle screw is used), the Offset Hook can also be placed on the lateral process.

For this purpose, the transverse process is exposed by using the Lamina elevator to circle it in the superior area. For inferior placement of Offset Hooks, the hook is positioned in the supra-Lamina area following partial removal of the ligamentum flavum using the VERTICALE Facet Finder.

If necessary, the spinous processes are shortened until the ligamentum flavum becomes visible.

In order to ensure secure anchoring of the Offset Hook, the ligamentum flavum and a part of the lamina can be carefully removed using the VERTICALE Facet Finder.

Attach the Offset Hook to the VERTICALE Hook Holder and then insert the Offset Hook at the required location (Fig. 9). The VERTICALE Hook Pusher simplifies correct placement (Fig. 10). This procedure is repeated for each Offset Hook.



Fig. 9 Positioning the Offset Hook

Fig. 10 Correction of the position using the Hook Pusher

Final tightening and final check

Following rod insertion, the set screws are inserted into the hooks. The VERTICALE Counter Torque is used to stabilise the rotation when tightening the set screw. In order to position the set screw with guidance, the counter torque is placed directly onto the head. The VERTICALE T25 Torque Limiter can then be guided by the counter torque and the set screw tightened in its final position with a torque of 10 Nm (Fig. 11). An audible click indicates that the torque is reached.

The same procedure must be repeated with all other set screws. A final check of the construction is carried out using x-ray verification images in two planes.

All other steps are described in the standard information for VERTICALE products.

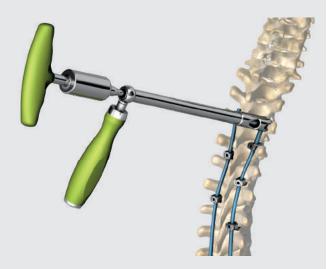


Fig. 11 Final tightening of the set screws

Implant removal procedure

To remove an implant, please execute the following steps as described. Pay attention to the loosened implants and screws during the procedures.

STEP 1: Cross Connector Removal

Use the VERTICALE T20 Screw Driver to loosen the set screw on both sides from the cross connector hook by turning the handle counterclockwise. Once the screws have been loosened, use the VERTICALE Rod and Cross Connector Holder to grasp the cross connector and remove it from the hook. Then, use the VERTICALE Rod and Cross Connector Holder to remove the hook from the Cross Connector Rod.

STEP 2: Set Screw Removal

Guide the VERTICALE Pedicle Screwdriver T25 and turn the set screw counterclockwise until it is loosened. The VERTICALE Counter Torque is used to stabilise the rotation when loosening the set screw. Repeat on all of the screws until all set screws have been loosened. Remove the VERTICALE T25 Screw Driver and engage the

Remove the VERTICALE T25 Screw Driver and engage the VERTICALE Set Screw Starter into the screw. The set screw is attached with the Torx of the basic core and secured via the internal groove. Repeat the process until all set screws have been removed

STEP 3: Rod and/or Rod-to-Rod Connector Removal

Once all of the set screws have been removed, grasp the rod with the VERTICALE Rod and lift it up to remove from the screw heads. To remove a rod-to-rod connector - the VERTICALE Domino - use the VERTICALE T20 Screw Driver to loosen the set screws from the VERTICALE Domino by rotating counterclockwise. Use the VERTICALE Domino Holder and the VERTICALE Rod and Cross Connector Holder to remove the VERTICALE Domino and the rod by lifting up to remove.

STEP 4: Pedicle Screw Removal

The VERTICALE Pedicle Screwdriver T25 is used to remove the VERTICALE Pedicle Screws. Prepare the screw driver as described in previous chapter.

For attachment of the pedicle screw, the VERTICALE Pedicle Screw Driver T25 is inserted deeply into the inner Torx of the screw shaft and rotated inwards via the sleeve of the pedicle screw driver. Rotate the Screwdriver counterclockwise until it is fully out of the bone.

VERTICALE® PRODUCT INFORMATION

VERTICALE Implants by article number	PI 02 –	- 29
VERTICALE Instruments by article number	PI 30 -	- 36
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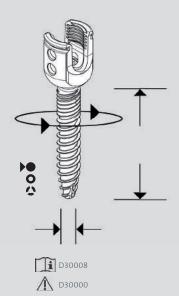
VERTICALE® Implants

System: VERTICALE

Implant type: Pedicle screw

Configuration: Polyaxial ST, solid shaft

Material: Ti6Al4V ELI



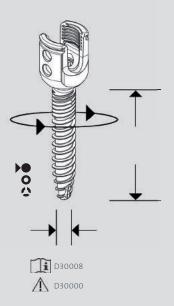
Article number	Description	Illustration
S-VPS-4525-S2	VERTICALE Poly screw ST 4.5 x 25 mm, solid	U
S-VPS-4530-S2	VERTICALE Poly screw ST 4.5 x 30 mm, solid	
S-VPS-4535-S2	VERTICALE Poly screw ST 4.5 x 35 mm, solid	
S-VPS-4540-S2	VERTICALE Poly screw ST 4.5 x 40 mm, solid	99
S-VPS-4545-S2	VERTICALE Poly screw ST 4.5 x 45 mm, solid	999
S-VPS-4550-S2	VERTICALE Poly screw ST 4.5 x 50 mm, solid	•
S-VPS-5225-S2	VERTICALE Poly screw ST 5.2 x 25 mm, solid	
S-VPS-5230-S2	VERTICALE Poly screw ST 5.2 x 30 mm, solid	1.6
S-VPS-5235-S2	VERTICALE Poly screw ST 5.2 x 35 mm, solid	Y
S-VPS-5240-S2	VERTICALE Poly screw ST 5.2 x 40 mm, solid	
S-VPS-5245-S2	VERTICALE Poly screw ST 5.2 x 45 mm, solid	10000
S-VPS-5250-S2	VERTICALE Poly screw ST 5.2 x 50 mm, solid	9999
S-VPS-5255-S2	VERTICALE Poly screw ST 5.2 x 55 mm, solid	
S-VPS-5260-S2	VERTICALE Poly screw ST 5.2 x 60 mm, solid	
S-VPS-6225-S2	VERTICALE Poly screw ST 6.2 x 25 mm, solid	
S-VPS-6230-S2	VERTICALE Poly screw ST 6.2 x 30 mm, solid	
S-VPS-6235-S2	VERTICALE Poly screw ST 6.2 x 35 mm, solid	U
S-VPS-6240-S2	VERTICALE Poly screw ST 6.2 x 40 mm, solid	
S-VPS-6245-S2	VERTICALE Poly screw ST 6.2 x 45 mm, solid	8000
S-VPS-6250-S2	VERTICALE Poly screw ST 6.2 x 50 mm, solid	36
S-VPS-6255-S2	VERTICALE Poly screw ST 6.2 x 55 mm, solid	*
S-VPS-6260-S2	VERTICALE Poly screw ST 6.2 x 60 mm, solid	
S-VPS-7225-S2	VERTICALE Poly screw ST 7.2 x 25 mm, solid	1.1
S-VPS-7230-S2	VERTICALE Poly screw ST 7.2 x 30 mm, solid	
S-VPS-7235-S2	VERTICALE Poly screw ST 7.2 x 35 mm, solid	
S-VPS-7240-S2	VERTICALE Poly screw ST 7.2 x 40 mm, solid	
S-VPS-7245-S2	VERTICALE Poly screw ST 7.2 x 45 mm, solid	
S-VPS-7250-S2	VERTICALE Poly screw ST 7.2 x 50 mm, solid	
S-VPS-7255-S2	VERTICALE Poly screw ST 7.2 x 55 mm, solid	9
S-VPS-7260-S2	VERTICALE Poly screw ST 7.2 x 60 mm, solid	
S-VPS-7270-S2	VERTICALE Poly screw ST 7.2 x 70 mm, solid	
S-VPS-7280-S2	VERTICALE Poly screw ST 7.2 x 80 mm, solid	

Article number	Description	Illustration
S-VPS-8240-S2	VERTICALE Poly Screw ST 8.2 x 40 mm, solid	
S-VPS-8245-S2	VERTICALE Poly Screw ST 8.2 x 45 mm, solid	
S-VPS-8250-S2	VERTICALE Poly Screw ST 8.2 x 50 mm, solid	3.6
S-VPS-8255-S2	VERTICALE Poly Screw ST 8.2 x 55 mm, solid	U
S-VPS-8260-S2	VERTICALE Poly Screw ST 8.2 x 60 mm, solid	
S-VPS-8265-S2	VERTICALE Poly Screw ST 8.2 x 65 mm, solid	
S-VPS-8270-S2	VERTICALE Poly Screw ST 8.2 x 70 mm, solid	*
S-VPS-8275-S2	VERTICALE Poly Screw ST 8.2 x 75 mm, solid	
S-VPS-8280-S2	VERTICALE Poly Screw ST 8.2 x 80 mm, solid	\$
S-VPS-8285-S2	VERTICALE Poly Screw ST 8.2 x 85 mm, solid	
S-VPS-8290-S2	VERTICALE Poly Screw ST 8.2 x 90 mm, solid	
S-VPS-8295-S2	VERTICALE Poly Screw ST 8.2 x 95 mm, solid	
S-VPS-8210-S2	VERTICALE Poly Screw ST 8.2 x 100 mm, solid	
S-VPS-9240-S2	VERTICALE Poly Screw ST 9.2 x 40 mm, solid	
S-VPS-9245-S2	VERTICALE Poly Screw ST 9.2 x 45 mm, solid	
S-VPS-9250-S2	VERTICALE Poly Screw ST 9.2 x 50 mm, solid	
S-VPS-9255-S2	VERTICALE Poly Screw ST 9.2 x 55 mm, solid	U
S-VPS-9260-S2	VERTICALE Poly Screw ST 9.2 x 60 mm, solid	4
S-VPS-9265-S2	VERTICALE Poly Screw ST 9.2 x 65 mm, solid	
S-VPS-9270-S2	VERTICALE Poly Screw ST 9.2 x 70 mm, solid	3
S-VPS-9275-S2	VERTICALE Poly Screw ST 9.2 x 75 mm, solid	- ₹
S-VPS-9280-S2	VERTICALE Poly Screw ST 9.2 x 80 mm, solid	3
S-VPS-9285-S2	VERTICALE Poly Screw ST 9.2 x 85 mm, solid	李
S-VPS-9290-S2	VERTICALE Poly Screw ST 9.2 x 90 mm, solid	
S-VPS-9295-S2	VERTICALE Poly Screw ST 9.2 x 95 mm, solid	
S-VPS-9210-S2	VERTICALE Poly Screw ST 9.2 x 100 mm, solid	

System: VERTICALE

Implant type: Pedicle screw

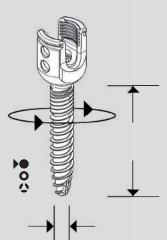
Configuration: Polyaxial ST, solid shaft



System: VERTICALE

Implant type: Pedicle screw

Configuration: Polyaxial ST, solid shaft



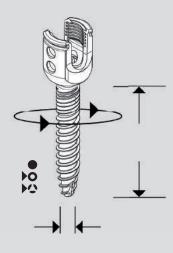
Article number	Description	Illustration
S-VPS-0240-S2	VERTICALE Poly Screw ST 10.2 x 40 mm, solid	
S-VPS-0245-S2	VERTICALE Poly Screw ST 10.2 x 45 mm, solid	
S-VPS-0250-S2	VERTICALE Poly Screw ST 10.2 x 50 mm, solid	
S-VPS-0255-S2	VERTICALE Poly Screw ST 10.2 x 55 mm, solid	u
S-VPS-0260-S2	VERTICALE Poly Screw ST 10.2 x 60 mm, solid	
S-VPS-0265-S2	VERTICALE Poly Screw ST 10.2 x 65 mm, solid	
S-VPS-0270-S2	VERTICALE Poly Screw ST 10.2 x 70 mm, solid	臺
S-VPS-0275-S2	VERTICALE Poly Screw ST 10.2 x 75 mm, solid	畫
S-VPS-0280-S2	VERTICALE Poly Screw ST 10.2 x 80 mm, solid	*
S-VPS-0285-S2	VERTICALE Poly Screw ST 10.2 x 85 mm, solid	*
S-VPS-0290-S2	VERTICALE Poly Screw ST 10.2 x 90 mm, solid	*
S-VPS-0295-S2	VERTICALE Poly Screw ST 10.2 x 95 mm, solid	
S-VPS-0210-S2	VERTICALE Poly Screw ST 10.2 x 100 mm, solid	

Article number	Description	Illustration
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S-VPS-4535-K2	VERTICALE Poly Screw ST 4.5 x 35 mm, can	T
S-VPS-4540-K2	VERTICALE Poly Screw ST 4.5 x 40 mm, can	8000
S-VPS-4545-K2	VERTICALE Poly Screw ST 4.5 x 45 mm, can	9
S-VPS-4550-K2	VERTICALE Poly Screw ST 4.5 x 50 mm, can	8
S-VPS-5225-K2	VERTICALE Poly Screw ST 5.2 x 25 mm, can	
S-VPS-5230-K2	VERTICALE Poly Screw ST 5.2 x 30 mm, can	U
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S-VPS-5255-KF2	VERTICALE Poly Screw ST 5.2 x 55 mm, can+fen	
S-VPS-5260-KF2	VERTICALE Poly Screw ST 5.2 x 60 mm, can+fen	
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S-VPS-6235-KF2	VERTICALE Poly Screw ST 6.2 x 35 mm, can+fen	U
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S-VPS-7250-KF2	VERTICALE Poly Screw ST 7.2 x 50 mm, can+fen	3
S-VPS-7255-KF2	VERTICALE Poly Screw ST 7.2 x 55 mm, can+fen	*
S-VPS-7260-KF2	VERTICALE Poly Screw ST 7.2 x 60 mm, can+fen	
S-VPS-7270-KF2	VERTICALE Poly Screw ST 7.2 x 70 mm, can+fen	
S-VPS-7280-KF2	VERTICALE Poly Screw ST 7.2 x 80 mm, can+fen	

System: VERTICALE

Implant type: Pedicle screw

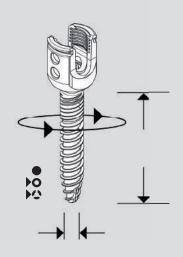
Configuration: Polyaxial ST, cannulated and fenestrated shaft



System: VERTICALE

Implant type: Pedicle screw

Configuration: Polyaxial ST, cannulated and fenestrated shaft



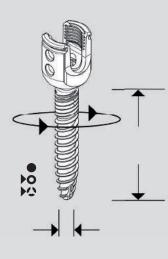
Article number	Description	Illustration
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S-VPS-8245-KF2	VERTICALE Poly Screw ST 8.2 x 45 mm, can+fen	
S-VPS-8250-KF2	VERTICALE Poly Screw ST 8.2 x 50 mm, can+fen	3 5
S-VPS-8255-KF2	VERTICALE Poly Screw ST 8.2 x 55 mm, can+fen	U
S-VPS-8260-KF2	VERTICALE Poly Screw ST 8.2 x 60 mm, can+fen	
S-VPS-8265-KF2	VERTICALE Poly Screw ST 8.2 x 65 mm, can+fen	\$
S-VPS-8270-KF2	VERTICALE Poly Screw ST 8.2 x 70 mm, can+fen	E
S-VPS-8275-KF2	VERTICALE Poly Screw ST 8.2 x 75 mm, can+fen	畫
S-VPS-8280-KF2	VERTICALE Poly Screw ST 8.2 x 80 mm, can+fen	\$
S-VPS-8285-KF2	VERTICALE Poly Screw ST 8.2 x 85 mm, can+fen	
S-VPS-8290-KF2	VERTICALE Poly Screw ST 8.2 x 90 mm, can+fen	
S-VPS-8295-KF2	VERTICALE Poly Screw ST 8.2 x 95 mm, can+fen	
S-VPS-8210-KF2	VERTICALE Poly Screw ST 8.2 x 100 mm, can+fen	
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S-VPS-9250-KF2	VERTICALE Poly Screw ST 9.2 x 50 mm, can+fen	1.6
S-VPS-9255-KF2	VERTICALE Poly Screw ST 9.2 x 55 mm, can+fen	M
S-VPS-9260-KF2	VERTICALE Poly Screw ST 9.2 x 60 mm, can+fen	
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S-VPS-9270-KF2	VERTICALE Poly Screw ST 9.2 x 70 mm, can+fen	
S-VPS-9275-KF2	VERTICALE Poly Screw ST 9.2 x 75 mm, can+fen	E
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S-VPS-9285-KF2	VERTICALE Poly Screw ST 9.2 x 85 mm, can+fen	
S-VPS-9290-KF2	VERTICALE Poly Screw ST 9.2 x 90 mm, can+fen	
S-VPS-9295-KF2	VERTICALE Poly Screw ST 9.2 x 95 mm, can+fen	
S-VPS-9210-KF2	VERTICALE Poly Screw ST 9.2 x 100 mm, can+fen	

Article number	Description	Illustration
S-VPS-0240-KF2	VERTICALE Poly Screw ST 10.2 x 40 mm, can+fen	
S-VPS-0245-KF2	VERTICALE Poly Screw ST 10.2 x 45 mm, can+fen	
S-VPS-0250-KF2	VERTICALE Poly Screw ST 10.2 x 50 mm, can+fen	
S-VPS-0255-KF2	VERTICALE Poly Screw ST 10.2 x 55 mm, can+fen	3.6
S-VPS-0260-KF2	VERTICALE Poly Screw ST 10.2 x 60 mm, can+fen	U
S-VPS-0265-KF2	VERTICALE Poly Screw ST 10.2 x 65 mm, can+fen	
S-VPS-0270-KF2	VERTICALE Poly Screw ST 10.2 x 70 mm, can+fen	
S-VPS-0275-KF2	VERTICALE Poly Screw ST 10.2 x 75 mm, can+fen	1
S-VPS-0280-KF2	VERTICALE Poly Screw ST 10.2 x 80 mm, can+fen	*
S-VPS-0285-KF2	VERTICALE Poly Screw ST 10.2 x 85 mm, can+fen	E
S-VPS-0290-KF2	VERTICALE Poly Screw ST 10.2 x 90 mm, can+fen	零
S-VPS-0295-KF2	VERTICALE Poly Screw ST 10.2 x 95 mm, can+fen	
S-VPS-0210-KF2	VERTICALE Poly Screw ST 10.2 x 100 mm, can+fen	

System: VERTICALE

Implant type: Pedicle screw

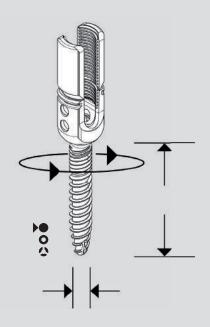
Configuration: Polyaxial ST, cannulated and fenestrated shaft



System: VERTICALE

Implant type: Pedicle screw

Configuration: Polyaxial ST, reduction, solid shaft



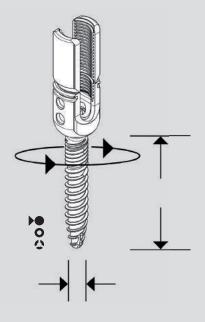
Article number	Description	Illustration
S-VPS-4525-RS3	VERTICALE Reduction Screw ST 4.5 x 25 mm, solid	
S-VPS-4530-RS3	VERTICALE Reduction Screw ST 4.5 x 30 mm, solid	
S-VPS-4535-RS3	VERTICALE Reduction Screw ST 4.5 x 35 mm, solid	Ų
S-VPS-4540-RS3	VERTICALE Reduction Screw ST 4.5 x 40 mm, solid	
S-VPS-4545-RS3	VERTICALE Reduction Screw ST 4.5 x 45 mm, solid	99999
S-VPS-4550-RS3	VERTICALE Reduction Screw ST 4.5 x 50 mm, solid	*
S-VPS-5225-RS3	VERTICALE Reduction Screw ST 5.2 x 25 mm, solid	
S-VPS-5230-RS3	VERTICALE Reduction Screw ST 5.2 x 30 mm, solid	Dalleo
S-VPS-5235-RS3	VERTICALE Reduction Screw ST 5.2 x 35 mm, solid	
S-VPS-5240-RS3	VERTICALE Reduction Screw ST 5.2 x 40 mm, solid	U
S-VPS-5245-RS3	VERTICALE Reduction Screw ST 5.2 x 45 mm, solid	
S-VPS-5250-RS3	VERTICALE Reduction Screw ST 5.2 x 50 mm, solid	999
S-VPS-5255-RS3	VERTICALE Reduction Screw ST 5.2 x 55 mm, solid	9
S-VPS-5260-RS3	VERTICALE Reduction Screw ST 5.2 x 60 mm, solid	
S-VPS-6225-RS3	VERTICALE Reduction Screw ST 6.2 x 25 mm, solid	
S-VPS-6230-RS3	VERTICALE Reduction Screw ST 6.2 x 30 mm, solid	
S-VPS-6235-RS3	VERTICALE Reduction Screw ST 6.2 x 35 mm, solid	
S-VPS-6240-RS3	VERTICALE Reduction Screw ST 6.2 x 40 mm, solid	U
S-VPS-6245-RS3	VERTICALE Reduction Screw ST 6.2 x 45 mm, solid	
S-VPS-6250-RS3	VERTICALE Reduction Screw ST 6.2 x 50 mm, solid	
S-VPS-6255-RS3	VERTICALE Reduction Screw ST 6.2 x 55 mm, solid	9
S-VPS-6260-RS3	VERTICALE Reduction Screw ST 6.2 x 60 mm, solid	
S-VPS-7225-RS3	VERTICALE Reduction Screw ST 7.2 x 25 mm, solid	
S-VPS-7230-RS3	VERTICALE Reduction Screw ST 7.2 x 30 mm, solid	
S-VPS-7235-RS3	VERTICALE Reduction Screw ST 7.2 x 35 mm, solid	11
S-VPS-7240-RS3	VERTICALE Reduction Screw ST 7.2 x 40 mm, solid	
S-VPS-7245-RS3	VERTICALE Reduction Screw ST 7.2 x 45 mm, solid	¥
S-VPS-7250-RS3	VERTICALE Reduction Screw ST 7.2 x 50 mm, solid	
S-VPS-7255-RS3	VERTICALE Reduction Screw ST 7.2 x 55 mm, solid	
S-VPS-7260-RS3	VERTICALE Reduction Screw ST 7.2 x 60 mm, solid	*
S-VPS-7270-RS3	VERTICALE Reduction Screw ST 7.2 x 70 mm, solid	
S-VPS-7280-RS3	VERTICALE Reduction Screw ST 7.2 x 80 mm, solid	

Article number	Description	Illustration
S-VPS-8240-RS3	VERTICALE Reduction Screw ST 8.2 x 40 mm, solid	
S-VPS-8245-RS3	VERTICALE Reduction Screw ST 8.2 x 45 mm, solid	
S-VPS-8250-RS3	VERTICALE Reduction Screw ST 8.2 x 50 mm, solid	- 11
S-VPS-8255-RS3	VERTICALE Reduction Screw ST 8.2 x 55 mm, solid	: :
S-VPS-8260-RS3	VERTICALE Reduction Screw ST 8.2 x 60 mm, solid	¥
S-VPS-8265-RS3	VERTICALE Reduction Screw ST 8.2 x 65 mm, solid	
S-VPS-8270-RS3	VERTICALE Reduction Screw ST 8.2 x 70 mm, solid	
S-VPS-8275-RS3	VERTICALE Reduction Screw ST 8.2 x 75 mm, solid	
S-VPS-8280-RS3	VERTICALE Reduction Screw ST 8.2 x 80 mm, solid	-
S-VPS-8285-RS3	VERTICALE Reduction Screw ST 8.2 x 85 mm, solid	
S-VPS-8290-RS3	VERTICALE Reduction Screw ST 8.2 x 90 mm, solid	
S-VPS-8295-RS3	VERTICALE Reduction Screw ST 8.2 x 95 mm, solid	
S-VPS-8210-RS3	VERTICALE Reduction Screw ST 8.2 x 100 mm, solid	
S-VPS-9240-RS3	VERTICALE Reduction Screw ST 9.2 x 40 mm, solid	
S-VPS-9245-RS3	VERTICALE Reduction Screw ST 9.2 x 45 mm, solid	
S-VPS-9250-RS3	VERTICALE Reduction Screw ST 9.2 x 50 mm, solid	
S-VPS-9255-RS3	VERTICALE Reduction Screw ST 9.2 x 55 mm, solid	
S-VPS-9260-RS3	VERTICALE Reduction Screw ST 9.2 x 60 mm, solid	u
S-VPS-9265-RS3	VERTICALE Reduction Screw ST 9.2 x 65 mm, solid	
S-VPS-9270-RS3	VERTICALE Reduction Screw ST 9.2 x 70 mm, solid	!
S-VPS-9275-RS3	VERTICALE Reduction Screw ST 9.2 x 75 mm, solid	1
S-VPS-9280-RS3	VERTICALE Reduction Screw ST 9.2 x 80 mm, solid	#
S-VPS-9285-RS3	VERTICALE Reduction Screw ST 9.2 x 85 mm, solid	事
S-VPS-9290-RS3	VERTICALE Reduction Screw ST 9.2 x 90 mm, solid	
S-VPS-9295-RS3	VERTICALE Reduction Screw ST 9.2 x 95 mm, solid	
S-VPS-9210-RS3	VERTICALE Reduction Screw ST 9.2 x 100 mm, solid	

System: VERTICALE

Implant type: Pedicle screw

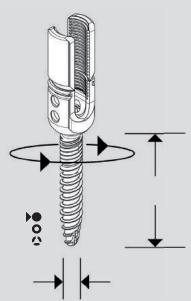
Configuration: Polyaxial ST, reduction, solid shaft



System: VERTICALE

Implant type: Pedicle screw

Configuration: Polyaxial ST, reduction, solid shaft



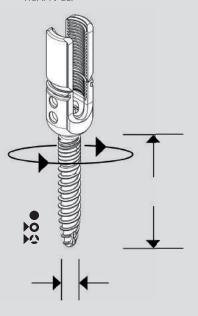
Article number	Description	Illustration
S-VPS-0240-RS3	VERTICALE Reduction Screw ST 10.2 x 40 mm, solid	
S-VPS-0245-RS3	VERTICALE Reduction Screw ST 10.2 x 45 mm, solid	
S-VPS-0250-RS3	VERTICALE Reduction Screw ST 10.2 x 50 mm, solid	
S-VPS-0255-RS3	VERTICALE Reduction Screw ST 10.2 x 55 mm, solid	
S-VPS-0260-RS3	VERTICALE Reduction Screw ST 10.2 x 60 mm, solid	U
S-VPS-0265-RS3	VERTICALE Reduction Screw ST 10.2 x 65 mm, solid	
S-VPS-0270-RS3	VERTICALE Reduction Screw ST 10.2 x 70 mm, solid	1
S-VPS-0275-RS3	VERTICALE Reduction Screw ST 10.2 x 75 mm, solid	1
S-VPS-0280-RS3	VERTICALE Reduction Screw ST 10.2 x 80 mm, solid	1
S-VPS-0285-RS3	VERTICALE Reduction Screw ST 10.2 x 85 mm, solid	零
S-VPS-0290-RS3	VERTICALE Reduction Screw ST 10.2 x 90 mm, solid	
S-VPS-0295-RS3	VERTICALE Reduction Screw ST 10.2 x 95 mm, solid	
S-VPS-0210-RS3	VERTICALE Reduction Screw ST 10.2 x 100 mm, solid	

Article number	Description	Illustration
S-VPS-4525-RK3	VERTICALE Reduction Screw ST 4.5 x 25 mm, can	
S-VPS-4530-RK3	VERTICALE Reduction Screw ST 4.5 x 30 mm, can	11
S-VPS-4535-RK3	VERTICALE Reduction Screw ST 4.5 x 35 mm, can	Ų
S-VPS-4540-RK3	VERTICALE Reduction Screw ST 4.5 x 40 mm, can	1
S-VPS-4545-RK3	VERTICALE Reduction Screw ST 4.5 x 45 mm, can	
S-VPS-4550-RK3	VERTICALE Reduction Screw ST 4.5 x 50 mm, can	*
S-VPS-5225-RK3	VERTICALE Reduction Screw ST 5.2 x 25 mm, can	
S-VPS-5230-RK3	VERTICALE Reduction Screw ST 5.2 x 30 mm, can	
S-VPS-5235-RF3	VERTICALE Reduction Screw ST 5.2 x 35 mm, can+fen	- 11
S-VPS-5240-RF3	VERTICALE Reduction Screw ST 5.2 x 40 mm, can+fen	u
S-VPS-5245-RF3	VERTICALE Reduction Screw ST 5.2 x 45 mm, can+fen	I
S-VPS-5250-RF3	VERTICALE Reduction Screw ST 5.2 x 50 mm, can+fen	96
S-VPS-5255-RF3	VERTICALE Reduction Screw ST 5.2 x 55 mm, can+fen	6
S-VPS-5260-RF3	VERTICALE Reduction Screw ST 5.2 x 60 mm, can+fen	
S-VPS-6225-RK3	VERTICALE Reduction Screw ST 6.2 x 25 mm, can	
S-VPS-6230-RK3	VERTICALE Reduction Screw ST 6.2 x 30 mm, can	
S-VPS-6235-RF3	VERTICALE Reduction Screw ST 6.2 x 35 mm, can+fen	- II
S-VPS-6240-RF3	VERTICALE Reduction Screw ST 6.2 x 40 mm, can+fen	U
S-VPS-6245-RF3	VERTICALE Reduction Screw ST 6.2 x 45 mm, can+fen	1
S-VPS-6250-RF3	VERTICALE Reduction Screw ST 6.2 x 50 mm, can+fen	
S-VPS-6255-RF3	VERTICALE Reduction Screw ST 6.2 x 55 mm, can+fen	W(000
S-VPS-6260-RF3	VERTICALE Reduction Screw ST 6.2 x 60 mm, can+fen	
S-VPS-7225-RK3	VERTICALE Reduction Screw ST 7.2 x 25 mm, can	
S-VPS-7230-RK3	VERTICALE Reduction Screw ST 7.2 x 30 mm, can	
S-VPS-7235-RF3	VERTICALE Reduction Screw ST 7.2 x 35 mm, can+fen	11
S-VPS-7240-RF3	VERTICALE Reduction Screw ST 7.2 x 40 mm, can+fen	11
S-VPS-7245-RF3	VERTICALE Reduction Screw ST 7.2 x 45 mm, can+fen	Ų
S-VPS-7250-RF3	VERTICALE Reduction Screw ST 7.2 x 50 mm, can+fen	
S-VPS-7255-RF3	VERTICALE Reduction Screw ST 7.2 x 55 mm, can+fen	Ē
S-VPS-7260-RF3	VERTICALE Reduction Screw ST 7.2 x 60 mm, can+fen	₹
S-VPS-7270-RF3	VERTICALE Reduction Screw ST 7.2 x 70 mm, can+fen	
S-VPS-7280-RF3	VERTICALE Reduction Screw ST 7.2 x 80 mm, can+fen	

System: VERTICALE

Implant type: Pedicle screw

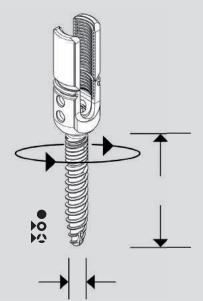
Configuration: Polyaxial ST, reduction, cannulated and fenestrated shaft



System: VERTICALE

Implant type: Pedicle screw

Configuration:
Polyaxial ST, reduction,
cannulated and
fenestrated shaft



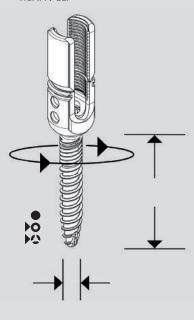
Article number	Description	Illustration
S-VPS-8240-RF3	VERTICALE Reduction Screw ST 8.2 x 40 mm, can+fen	
S-VPS-8245-RF3	VERTICALE Reduction Screw ST 8.2 x 45 mm, can+fen	
S-VPS-8250-RF3	VERTICALE Reduction Screw ST 8.2 x 50 mm, can+fen	
S-VPS-8255-RF3	VERTICALE Reduction Screw ST 8.2 x 55 mm, can+fen	
S-VPS-8260-RF3	VERTICALE Reduction Screw ST 8.2 x 60 mm, can+fen	11
S-VPS-8265-RF3	VERTICALE Reduction Screw ST 8.2 x 65 mm, can+fen	U
S-VPS-8270-RF3	VERTICALE Reduction Screw ST 8.2 x 70 mm, can+fen	
S-VPS-8275-RF3	VERTICALE Reduction Screw ST 8.2 x 75 mm, can+fen	
S-VPS-8280-RF3	VERTICALE Reduction Screw ST 8.2 x 80 mm, can+fen	
S-VPS-8285-RF3	VERTICALE Reduction Screw ST 8.2 x 85 mm, can+fen	#
S-VPS-8290-RF3	VERTICALE Reduction Screw ST 8.2 x 90 mm, can+fen	
S-VPS-8295-RF3	VERTICALE Reduction Screw ST 8.2 x 95 mm, can+fen	
S-VPS-8210-RF3	VERTICALE Reduction Screw ST 8.2 x 100 mm, can+fen	
S-VPS-9240-RF3	VERTICALE Reduction Screw ST 9.2 x 40 mm, can+fen	
S-VPS-9245-RF3	VERTICALE Reduction Screw ST 9.2 x 45 mm, can+fen	
S-VPS-9250-RF3	VERTICALE Reduction Screw ST 9.2 x 50 mm, can+fen	
S-VPS-9255-RF3	VERTICALE Reduction Screw ST 9.2 x 55 mm, can+fen	- 11
S-VPS-9260-RF3	VERTICALE Reduction Screw ST 9.2 x 60 mm, can+fen	U
S-VPS-9265-RF3	VERTICALE Reduction Screw ST 9.2 x 65 mm, can+fen	
S-VPS-9270-RF3	VERTICALE Reduction Screw ST 9.2 x 70 mm, can+fen	
S-VPS-9275-RF3	VERTICALE Reduction Screw ST 9.2 x 75 mm, can+fen	1
S-VPS-9280-RF3	VERTICALE Reduction Screw ST 9.2 x 80 mm, can+fen	華
S-VPS-9285-RF3	VERTICALE Reduction Screw ST 9.2 x 85 mm, can+fen	
S-VPS-9290-RF3	VERTICALE Reduction Screw ST 9.2 x 90 mm, can+fen	
S-VPS-9295-RF3	VERTICALE Reduction Screw ST 9.2 x 95 mm, can+fen	
S-VPS-9210-RF3	VERTICALE Reduction Screw ST 9.2 x 100 mm, can+fen	

Article number	Description	Illustration
S-VPS-0240-RF3	VERTICALE Reduction Screw ST 10.2 x 40 mm, can+fen	
S-VPS-0245-RF3	VERTICALE Reduction Screw ST 10.2 x 45 mm, can+fen	
S-VPS-0250-RF3	VERTICALE Reduction Screw ST 10.2 x 50 mm, can+fen	
S-VPS-0255-RF3	VERTICALE Reduction Screw ST 10.2 x 55 mm, can+fen	- 11
S-VPS-0260-RF3	VERTICALE Reduction Screw ST 10.2 x 60 mm, can+fen	U
S-VPS-0265-RF3	VERTICALE Reduction Screw ST 10.2 x 65 mm, can+fen	
S-VPS-0270-RF3	VERTICALE Reduction Screw ST 10.2 x 70 mm, can+fen	#
S-VPS-0275-RF3	VERTICALE Reduction Screw ST 10.2 x 75 mm, can+fen	
S-VPS-0280-RF3	VERTICALE Reduction Screw ST 10.2 x 80 mm, can+fen	-
S-VPS-0285-RF3	VERTICALE Reduction Screw ST 10.2 x 85 mm, can+fen	12
S-VPS-0290-RF3	VERTICALE Reduction Screw ST 10.2 x 90 mm, can+fen	
S-VPS-0295-RF3	VERTICALE Reduction Screw ST 10.2 x 95 mm, can+fen	
S-VPS-0210-RF3	VERTICALE Reduction Screw ST 10.2 x 100 mm, can+fen	

System: VERTICALE

Implant type: Pedicle screw

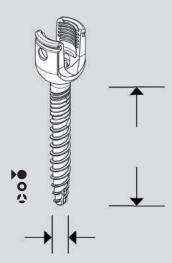
Configuration: Polyaxial ST, reduction, cannulated and fenestrated shaft



System: VERTICALE

Implant type: Pedicle screw

Configuration: Monoaxial, solid shaft



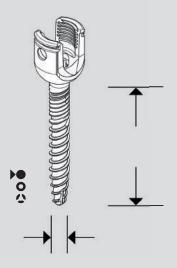
Article number	Description	Illustration
S-VFS-4525-S1	VERTICALE Mono Screw 4.5 x 25 mm, solid	Y
S-VFS-4530-S1	VERTICALE Mono Screw 4.5 x 30 mm, solid	
S-VFS-4535-S1	VERTICALE Mono Screw 4.5 x 35 mm, solid	
S-VFS-4540-S1	VERTICALE Mono Screw 4.5 x 40 mm, solid	
S-VFS-4545-S1	VERTICALE Mono Screw 4.5 x 45 mm, solid	•
S-VFS-4550-S1	VERTICALE Mono Screw 4.5 x 50 mm, solid	•
S-VFS-5225-S1	VERTICALE Mono Screw 5.2 x 25 mm, solid	
S-VFS-5230-S1	VERTICALE Mono Screw 5.2 x 30 mm, solid	1.6
S-VFS-5235-S1	VERTICALE Mono Screw 5.2 x 35 mm, solid	Y
S-VFS-5240-S1	VERTICALE Mono Screw 5.2 x 40 mm, solid	
S-VFS-5245-S1	VERTICALE Mono Screw 5.2 x 45 mm, solid	8
S-VFS-5250-S1	VERTICALE Mono Screw 5.2 x 50 mm, solid	•
S-VFS-5255-S1	VERTICALE Mono Screw 5.2 x 55 mm, solid	*
S-VFS-5260-S1	VERTICALE Mono Screw 5.2 x 60 mm, solid	
S-VFS-6225-S1	VERTICALE Mono Screw 6.2 x 25 mm, solid	
S-VFS-6230-S1	VERTICALE Mono Screw 6.2 x 30 mm, solid	1.6
S-VFS-6235-S1	VERTICALE Mono Screw 6.2 x 35 mm, solid	Y
S-VFS-6240-S1	VERTICALE Mono Screw 6.2 x 40 mm, solid	
S-VFS-6245-S1	VERTICALE Mono Screw 6.2 x 45 mm, solid	
S-VFS-6250-S1	VERTICALE Mono Screw 6.2 x 50 mm, solid	
S-VFS-6255-S1	VERTICALE Mono Screw 6.2 x 55 mm, solid	*
S-VFS-6260-S1	VERTICALE Mono Screw 6.2 x 60 mm, solid	
S-VFS-7225-S1	VERTICALE Mono Screw 7.2 x 25 mm, solid	
S-VFS-7230-S1	VERTICALE Mono Screw 7.2 x 30 mm, solid	
S-VFS-7235-S1	VERTICALE Mono Screw 7.2 x 35 mm, solid	U
S-VFS-7240-S1	VERTICALE Mono Screw 7.2 x 40 mm, solid	
S-VFS-7245-S1	VERTICALE Mono Screw 7.2 x 45 mm, solid	
S-VFS-7250-S1	VERTICALE Mono Screw 7.2 x 50 mm, solid	999
S-VFS-7255-S1	VERTICALE Mono Screw 7.2 x 55 mm, solid	W
S-VFS-7260-S1	VERTICALE Mono Screw 7.2 x 60 mm, solid	•
S-VFS-7270-S1	VERTICALE Mono Screw 7.2 x 70 mm, solid	
S-VFS-7280-S1	VERTICALE Mono Screw 7.2 x 80 mm, solid	

Article number	Description	Illustration
S-VFS-8240-S1	VERTICALE Mono Screw 8.2 x 40 mm, solid	
S-VFS-8245-S1	VERTICALE Mono Screw 8.2 x 45 mm, solid	3 6
S-VFS-8250-S1	VERTICALE Mono Screw 8.2 x 50 mm, solid	U
S-VFS-8255-S1	VERTICALE Mono Screw 8.2 x 55 mm, solid	
S-VFS-8260-S1	VERTICALE Mono Screw 8.2 x 60 mm, solid	
S-VFS-8270-S1	VERTICALE Mono Screw 8.2 x 70 mm, solid	
S-VFS-8280-S1	VERTICALE Mono Screw 8.2 x 80 mm, solid	\$
S-VFS-8290-S1	VERTICALE Mono Screw 8.2 x 90 mm, solid	
S-VFS-8210-S1	VERTICALE Mono Screw 8.2 x 100 mm, solid	
S-VFS-9240-S1	VERTICALE Mono Screw 9.2 x 40 mm, solid	
S-VFS-9245-S1	VERTICALE Mono Screw 9.2 x 45 mm, solid	
S-VFS-9250-S1	VERTICALE Mono Screw 9.2 x 50 mm, solid	U
S-VFS-9255-S1	VERTICALE Mono Screw 9.2 x 55 mm, solid	
S-VFS-9260-S1	VERTICALE Mono Screw 9.2 x 60 mm, solid	
S-VFS-9270-S1	VERTICALE Mono Screw 9.2 x 70 mm, solid	
S-VFS-9280-S1	VERTICALE Mono Screw 9.2 x 80 mm, solid	*
S-VFS-9290-S1	VERTICALE Mono Screw 9.2 x 90 mm, solid	•
S-VFS-9210-S1	VERTICALE Mono Screw 9.2 x 100 mm, solid	
S-VFS-0240-S1	VERTICALE Mono Screw 10.2 x 40 mm, solid	
S-VFS-0245-S1	VERTICALE Mono Screw 10.2 x 45 mm, solid	
S-VFS-0250-S1	VERTICALE Mono Screw 10.2 x 50 mm, solid	U
S-VFS-0255-S1	VERTICALE Mono Screw 10.2 x 55 mm, solid	
S-VFS-0260-S1	VERTICALE Mono Screw 10.2 x 60 mm, solid	
S-VFS-0270-S1	VERTICALE Mono Screw 10.2 x 70 mm, solid	
S-VFS-0280-S1	VERTICALE Mono Screw 10.2 x 80 mm, solid	*
S-VFS-0290-S1	VERTICALE Mono Screw 10.2 x 90 mm, solid	•
S-VFS-0210-S1	VERTICALE Mono Screw 10.2 x 100 mm, solid	

System: VERTICALE

Implant type: Pedicle screw

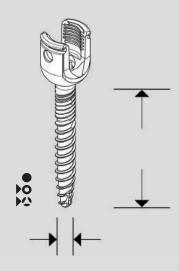
Configuration: Monoaxial, solid shaft



System: VERTICALE

Implant type: Pedicle screw

Configuration: Monoaxial, cannulated and fenestrated shaft



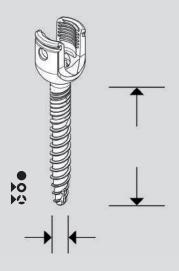
Article number	Description	Illustration
S-VFS-4525-K1	VERTICALE Mono Screw 4.5 x 25 mm, can	3.6
S-VFS-4530-K1	VERTICALE Mono Screw 4.5 x 30 mm, can	U
S-VFS-4535-K1	VERTICALE Mono Screw 4.5 x 35 mm, can	
S-VFS-4540-K1	VERTICALE Mono Screw 4.5 x 40 mm, can	
S-VFS-4545-K1	VERTICALE Mono Screw 4.5 x 45 mm, can	
S-VFS-4550-K1	VERTICALE Mono Screw 4.5 x 50 mm, can	8
S-VFS-5225-K1	VERTICALE Mono Screw 5.2 x 25 mm, can	
S-VFS-5230-K1	VERTICALE Mono Screw 5.2 x 30 mm, can	
S-VFS-5235-KF1	VERTICALE Mono Screw 5.2 x 35 mm, can+fen	u
S-VFS-5240-KF1	VERTICALE Mono Screw 5.2 x 40 mm, can+fen	
S-VFS-5245-KF1	VERTICALE Mono Screw 5.2 x 45 mm, can+fen	
S-VFS-5250-KF1	VERTICALE Mono Screw 5.2 x 50 mm, can+fen	8
S-VFS-5255-KF1	VERTICALE Mono Screw 5.2 x 55 mm, can+fen	•
S-VFS-5260-KF1	VERTICALE Mono Screw 5.2 x 60 mm, can+fen	
S-VFS-6225-K1	VERTICALE Mono Screw 6.2 x 25 mm, can	
S-VFS-6230-K1	VERTICALE Mono Screw 6.2 x 30 mm, can	1.6
S-VFS-6235-KF1	VERTICALE Mono Screw 6.2 x 35 mm, can+fen	Y
S-VFS-6240-KF1	VERTICALE Mono Screw 6.2 x 40 mm, can+fen	
S-VFS-6245-KF1	VERTICALE Mono Screw 6.2 x 45 mm, can+fen	
S-VFS-6250-KF1	VERTICALE Mono Screw 6.2 x 50 mm, can+fen	
S-VFS-6255-KF1	VERTICALE Mono Screw 6.2 x 55 mm, can+fen	*
S-VFS-6260-KF1	VERTICALE Mono Screw 6.2 x 60 mm, can+fen	
S-VFS-7225-K1	VERTICALE Mono Screw 7.2 x 25 mm, can	
S-VFS-7230-K1	VERTICALE Mono Screw 7.2 x 30 mm, can	
S-VFS-7235-KF1	VERTICALE Mono Screw 7.2 x 35 mm, can+fen	
S-VFS-7240-KF1	VERTICALE Mono Screw 7.2 x 40 mm, can+fen	U
S-VFS-7245-KF1	VERTICALE Mono Screw 7.2 x 45 mm, can+fen	
S-VFS-7250-KF1	VERTICALE Mono Screw 7.2 x 50 mm, can+fen	
S-VFS-7255-KF1	VERTICALE Mono Screw 7.2 x 55 mm, can+fen	
S-VFS-7260-KF1	VERTICALE Mono Screw 7.2 x 60 mm, can+fen	₹
S-VFS-7270-KF1	VERTICALE Mono Screw 7.2 x 70 mm, can+fen	
S-VFS-7280-KF1	VERTICALE Mono Screw 7.2 x 80 mm, can+fen	

Article number	Description	Illustration
S-VFS-8240-KF1	VERTICALE Mono Screw 8.2 x 40 mm, can+fen	
S-VFS-8245-KF1	VERTICALE Mono Screw 8.2 x 45 mm, can+fen	3 6
S-VFS-8250-KF1	VERTICALE Mono Screw 8.2 x 50 mm, can+fen	U
S-VFS-8255-KF1	VERTICALE Mono Screw 8.2 x 55 mm, can+fen	
S-VFS-8260-KF1	VERTICALE Mono Screw 8.2 x 60 mm, can+fen	
S-VFS-8270-KF1	VERTICALE Mono Screw 8.2 x 70 mm, can+fen	
S-VFS-8280-KF1	VERTICALE Mono Screw 8.2 x 80 mm, can+fen	-
S-VFS-8290-KF1	VERTICALE Mono Screw 8.2 x 90 mm, can+fen	
S-VFS-8210-KF1	VERTICALE Mono Screw 8.2 x 100 mm, can+fen	
S-VFS-9240-KF1	VERTICALE Mono Screw 9.2 x 40 mm, can+fen	
S-VFS-9245-KF1	VERTICALE Mono Screw 9.2 x 45 mm, can+fen	3.6
S-VFS-9250-KF1	VERTICALE Mono Screw 9.2 x 50 mm, can+fen	U
S-VFS-9255-KF1	VERTICALE Mono Screw 9.2 x 55 mm, can+fen	
S-VFS-9260-KF1	VERTICALE Mono Screw 9.2 x 60 mm, can+fen	₹
S-VFS-9270-KF1	VERTICALE Mono Screw 9.2 x 70 mm, can+fen	
S-VFS-9280-KF1	VERTICALE Mono Screw 9.2 x 80 mm, can+fen	*
S-VFS-9290-KF1	VERTICALE Mono Screw 9.2 x 90 mm, can+fen	
S-VFS-9210-KF1	VERTICALE Mono Screw 9.2 x 100 mm, can+fen	
S-VFS-0240-KF1	VERTICALE Mono Screw 10.2 x 40 mm, can+fen	
S-VFS-0245-KF1	VERTICALE Mono Screw 10.2 x 45 mm, can+fen	3.5
S-VFS-0250-KF1	VERTICALE Mono Screw 10.2 x 50 mm, can+fen	U
S-VFS-0255-KF1	VERTICALE Mono Screw 10.2 x 55 mm, can+fen	
S-VFS-0260-KF1	VERTICALE Mono Screw 10.2 x 60 mm, can+fen	E
S-VFS-0270-KF1	VERTICALE Mono Screw 10.2 x 70 mm, can+fen	畫
S-VFS-0280-KF1	VERTICALE Mono Screw 10.2 x 80 mm, can+fen	*
S-VFS-0290-KF1	VERTICALE Mono Screw 10.2 x 90 mm, can+fen	_
S-VFS-0210-KF1	VERTICALE Mono Screw 10.2 x 100mm, can+fen	

System: VERTICALE

Implant type: Pedicle screw

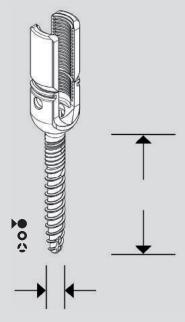
Configuration: Monoaxial, cannulated and fenestrated shaft



System: VERTICALE

Implant type: Pedicle screw

Configuration: Monoaxial, reduction, solid shaft



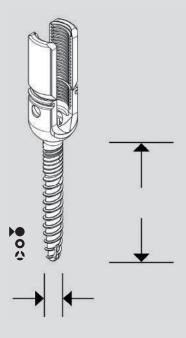
Article number	Description	Illustration
S-VFS-4525-RS2	VERTICALE Mono Reduction Screw 4.5 x 25 mm, solid	11
S-VFS-4530-RS2	VERTICALE Mono Reduction Screw 4.5 x 30 mm, solid	
S-VFS-4535-RS2	VERTICALE Mono Reduction Screw 4.5 x 35 mm, solid	Ų
S-VFS-4540-RS2	VERTICALE Mono Reduction Screw 4.5 x 40 mm, solid	
S-VFS-4545-RS2	VERTICALE Mono Reduction Screw 4.5 x 45 mm, solid	
S-VFS-4550-RS2	VERTICALE Mono Reduction Screw 4.5 x 50 mm, solid	*
S-VFS-5225-RS2	VERTICALE Mono Reduction Screw 5.2 x 25 mm, solid	
S-VFS-5230-RS2	VERTICALE Mono Reduction Screw 5.2 x 30 mm, solid	11
S-VFS-5235-RS2	VERTICALE Mono Reduction Screw 5.2 x 35 mm, solid	
S-VFS-5240-RS2	VERTICALE Mono Reduction Screw 5.2 x 40 mm, solid	Ų
S-VFS-5245-RS2	VERTICALE Mono Reduction Screw 5.2 x 45 mm, solid	
S-VFS-5250-RS2	VERTICALE Mono Reduction Screw 5.2 x 50 mm, solid	9999
S-VFS-5255-RS2	VERTICALE Mono Reduction Screw 5.2 x 55 mm, solid	*
S-VFS-5260-RS2	VERTICALE Mono Reduction Screw 5.2 x 60 mm, solid	
S-VFS-6225-RS2	VERTICALE Mono Reduction Screw 6.2 x 25 mm, solid	
S-VFS-6230-RS2	VERTICALE Mono Reduction Screw 6.2 x 30 mm, solid	11
S-VFS-6235-RS2	VERTICALE Mono Reduction Screw 6.2 x 35 mm, solid	<u> </u>
S-VFS-6240-RS2	VERTICALE Mono Reduction Screw 6.2 x 40 mm, solid	Ų
S-VFS-6245-RS2	VERTICALE Mono Reduction Screw 6.2 x 45 mm, solid	
S-VFS-6250-RS2	VERTICALE Mono Reduction Screw 6.2 x 50 mm, solid	
S-VFS-6255-RS2	VERTICALE Mono Reduction Screw 6.2 x 55 mm, solid	*
S-VFS-6260-RS2	VERTICALE Mono Reduction Screw 6.2 x 60 mm, solid	
S-VFS-7225-RS2	VERTICALE Mono Reduction Screw 7.2 x 25 mm, solid	
S-VFS-7230-RS2	VERTICALE Mono Reduction Screw 7.2 x 30 mm, solid	
S-VFS-7235-RS2	VERTICALE Mono Reduction Screw 7.2 x 35 mm, solid	- 11
S-VFS-7240-RS2	VERTICALE Mono Reduction Screw 7.2 x 40 mm, solid	
S-VFS-7245-RS2	VERTICALE Mono Reduction Screw 7.2 x 45 mm, solid	¥
S-VFS-7250-RS2	VERTICALE Mono Reduction Screw 7.2 x 50 mm, solid	
S-VFS-7255-RS2	VERTICALE Mono Reduction Screw 7.2 x 55 mm, solid	
S-VFS-7260-RS2	VERTICALE Mono Reduction Screw 7.2 x 60 mm, solid	#
S-VFS-7270-RS2	VERTICALE Mono Reduction Screw 7.2 x 70 mm, solid	
S-VFS-7280-RS2	VERTICALE Mono Reduction Screw 7.2 x 80 mm, solid	

Article number	Description	Illustration
S-VFS-8240-RS2	VERTICALE Mono Reduction Screw 8.2 x 40 mm, solid	
S-VFS-8245-RS2	VERTICALE Mono Reduction Screw 8.2 x 45 mm, solid	- 11
S-VFS-8250-RS2	VERTICALE Mono Reduction Screw 8.2 x 50 mm, solid	11
S-VFS-8255-RS2	VERTICALE Mono Reduction Screw 8.2 x 55 mm, solid	9
S-VFS-8260-RS2	VERTICALE Mono Reduction Screw 8.2 x 60 mm, solid	
S-VFS-8270-RS2	VERTICALE Mono Reduction Screw 8.2 x 70 mm, solid	
S-VFS-8280-RS2	VERTICALE Mono Reduction Screw 8.2 x 80 mm, solid	₹
S-VFS-8290-RS2	VERTICALE Mono Reduction Screw 8.2 x 90 mm, solid	
S-VFS-8210-RS2	VERTICALE Mono Reduction Screw 8.2 x 100 mm, solid	
S-VFS-9240-RS2	VERTICALE Mono Reduction Screw 9.2 x 40 mm, solid	
S-VFS-9245-RS2	VERTICALE Mono Reduction Screw 9.2 x 45 mm, solid	
S-VFS-9250-RS2	VERTICALE Mono Reduction Screw 9.2 x 50 mm, solid	- 11
S-VFS-9255-RS2	VERTICALE Mono Reduction Screw 9.2 x 55 mm, solid	11
S-VFS-9260-RS2	VERTICALE Mono Reduction Screw 9.2 x 60 mm, solid	
S-VFS-9270-RS2	VERTICALE Mono Reduction Screw 9.2 x 70 mm, solid	
S-VFS-9280-RS2	VERTICALE Mono Reduction Screw 9.2 x 80 mm, solid	
S-VFS-9290-RS2	VERTICALE Mono Reduction Screw 9.2 x 90 mm, solid	*
S-VFS-9210-RS2	VERTICALE Mono Reduction Screw 9.2 x 100 mm, solid	
S-VFS-0240-RS2	VERTICALE Mono Reduction Screw 10.2 x 40 mm, solid	
S-VFS-0245-RS2	VERTICALE Mono Reduction Screw 10.2 x 45 mm, solid	
S-VFS-0250-RS2	VERTICALE Mono Reduction Screw 10.2 x 50 mm, solid	III III
S-VFS-0255-RS2	VERTICALE Mono Reduction Screw 10.2 x 55 mm, solid	U
S-VFS-0260-RS2	VERTICALE Mono Reduction Screw 10.2 x 60 mm, solid	
S-VFS-0270-RS2	VERTICALE Mono Reduction Screw 10.2 x 70 mm, solid	■
S-VFS-0280-RS2	VERTICALE Mono Reduction Screw 10.2 x 80 mm, solid	•
S-VFS-0290-RS2	VERTICALE Mono Reduction Screw 10.2 x 90 mm, solid	₹.
S-VFS-0210-RS2	VERTICALE Mono Reduction Screw 10.2 x 100 mm, solid	

System: VERTICALE

Implant type: Pedicle screw

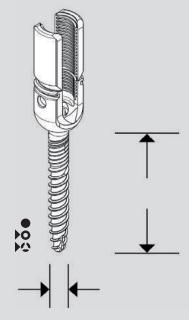
Configuration: Monoaxial, reduction, solid shaft



System: VERTICALE

Implant type: Pedicle screw

Configuration: Monoaxial, reduction, cannulated and fenestrated shaft



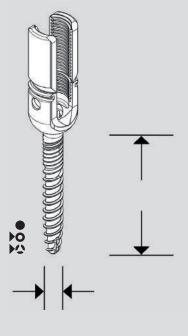
Article number	Description	Illustration
S-VFS-4525-RK2	VERTICALE Mono Reduction Screw Ø 4.5 x 25 mm, can	11
S-VFS-4530-RK2	VERTICALE Mono Reduction Screw Ø 4.5 x 30 mm, can	11
S-VFS-4535-RK2	VERTICALE Mono Reduction Screw Ø 4.5 x 35 mm, can	Ų
S-VFS-4540-RK2	VERTICALE Mono Reduction Screw Ø 4.5 x 40 mm, can	
S-VFS-4545-RK2	VERTICALE Mono Reduction Screw Ø 4.5 x 45 mm, can	
S-VFS-4550-RK2	VERTICALE Mono Reduction Screw Ø 4.5 x 50 mm, can	*
S-VFS-5225-RK2	VERTICALE Mono Reduction Screw Ø 5.2 x 25 mm, can	
S-VFS-5230-RK2	VERTICALE Mono Reduction Screw Ø 5.2 x 30 mm, can	- 11
S-VFS-5235-RF2	VERTICALE Mono Reduction Screw Ø 5.2 x 35 mm, can+fen	11
S-VFS-5240-RF2	VERTICALE Mono Reduction Screw Ø 5.2 x 40 mm, can+fen	Y
S-VFS-5245-RF2	VERTICALE Mono Reduction Screw Ø 5.2 x 45 mm, can+fen	
S-VFS-5250-RF2	VERTICALE Mono Reduction Screw Ø 5.2 x 50 mm, can+fen	
S-VFS-5255-RF2	VERTICALE Mono Reduction Screw Ø 5.2 x 55 mm, can+fen	1
S-VFS-5260-RF2	VERTICALE Mono Reduction Screw Ø 5.2 x 60 mm, can+fen	
S-VFS-6225-RK2	VERTICALE Mono Reduction Screw Ø 6.2 x 25 mm, can	
S-VFS-6230-RK2	VERTICALE Mono Reduction Screw Ø 6.2 x 30 mm, can	1.1
S-VFS-6235-RF2	VERTICALE Mono Reduction Screw Ø 6.2 x 35 mm, can+fen	
S-VFS-6240-RF2	VERTICALE Mono Reduction Screw Ø 6.2 x 40 mm, can+fen	U
S-VFS-6245-RF2	VERTICALE Mono Reduction Screw Ø 6.2 x 45 mm, can+fen	
S-VFS-6250-RF2	VERTICALE Mono Reduction Screw Ø 6.2 x 50 mm, can+fen	
S-VFS-6255-RF2	VERTICALE Mono Reduction Screw Ø 6.2 x 55 mm, can+fen	
S-VFS-6260-RF2	VERTICALE Mono Reduction Screw Ø 6.2 x 60 mm, can+fen	
S-VFS-7225-RK2	VERTICALE Mono Reduction Screw Ø 7.2 x 25 mm, can	
S-VFS-7230-RK2	VERTICALE Mono Reduction Screw Ø 7.2 x 30 mm, can	
S-VFS-7235-RF2	VERTICALE Mono Reduction Screw Ø 7.2 x 35 mm, can+fen	11
S-VFS-7240-RF2	VERTICALE Mono Reduction Screw Ø 7.2 x 40 mm, can+fen	11
S-VFS-7245-RF2	VERTICALE Mono Reduction Screw Ø 7.2 x 45 mm, can+fen	Ų
S-VFS-7250-RF2	VERTICALE Mono Reduction Screw Ø 7.2 x 50 mm, can+fen	
S-VFS-7255-RF2	VERTICALE Mono Reduction Screw Ø 7.2 x 55 mm, can+fen	
S-VFS-7260-RF2	VERTICALE Mono Reduction Screw Ø 7.2 x 60 mm, can+fen	Ŧ
S-VFS-7270-RF2	VERTICALE Mono Reduction Screw Ø 7.2 x 70 mm, can+fen	
S-VFS-7280-RF2	VERTICALE Mono Reduction Screw Ø 7.2 x 80 mm, can+fen	

Article number	Description	Illustration
S-VFS-8240-RF2	VERTICALE Mono Reduction Screw 8.2 x 40 mm, can+fen	
S-VFS-8245-RF2	VERTICALE Mono Reduction Screw 8.2 x 45 mm, can+fen	1.1
S-VFS-8250-RF2	VERTICALE Mono Reduction Screw 8.2 x 50 mm, can+fen	
S-VFS-8255-RF2	VERTICALE Mono Reduction Screw 8.2 x 55 mm, can+fen	Ų
S-VFS-8260-RF2	VERTICALE Mono Reduction Screw 8.2 x 60 mm, can+fen	
S-VFS-8270-RF2	VERTICALE Mono Reduction Screw 8.2 x 70 mm, can+fen	
S-VFS-8280-RF2	VERTICALE Mono Reduction Screw 8.2 x 80 mm, can+fen	
S-VFS-8290-RF2	VERTICALE Mono Reduction Screw 8.2 x 90 mm, can+fen	
S-VFS-8210-RF2	VERTICALE Mono Reduction Screw 8.2 x 100 mm, can+fen	
S-VFS-9240-RF2	VERTICALE Mono Reduction Screw 9.2 x 40 mm, can+fen	
S-VFS-9245-RF2	VERTICALE Mono Reduction Screw 9.2 x 45 mm, can+fen	1.1
S-VFS-9250-RF2	VERTICALE Mono Reduction Screw 9.2 x 50 mm, can+fen	11
S-VFS-9255-RF2	VERTICALE Mono Reduction Screw 9.2 x 55 mm, can+fen	U
S-VFS-9260-RF2	VERTICALE Mono Reduction Screw 9.2 x 60 mm, can+fen	
S-VFS-9270-RF2	VERTICALE Mono Reduction Screw 9.2 x 70 mm, can+fen	
S-VFS-9280-RF2	VERTICALE Mono Reduction Screw 9.2 x 80 mm, can+fen	*
S-VFS-9290-RF2	VERTICALE Mono Reduction Screw 9.2 x 90 mm, can+fen	•
S-VFS-9210-RF2	VERTICALE Mono Reduction Screw 9.2 x 100 mm, can+fen	
S-VFS-0240-RF2	VERTICALE Mono Reduction Screw 10.2 x 40 mm, can+fen	
S-VFS-0245-RF2	VERTICALE Mono Reduction Screw 10.2 x 45 mm, can+fen	11
S-VFS-0250-RF2	VERTICALE Mono Reduction Screw 10.2 x 50 mm, can+fen	!!
S-VFS-0255-RF2	VERTICALE Mono Reduction Screw 10.2 x 55 mm, can+fen	U
S-VFS-0260-RF2	VERTICALE Mono Reduction Screw 10.2 x 60 mm, can+fen	
S-VFS-0270-RF2	VERTICALE Mono Reduction Screw 10.2 x 70 mm, can+fen	
S-VFS-0280-RF2	VERTICALE Mono Reduction Screw 10.2 x 80 mm, can+fen	#
S-VFS-0290-RF2	VERTICALE Mono Reduction Screw 10.2 x 90 mm, can+fen	
S-VFS-0210-RF2	VERTICALE Mono Reduction Screw 10.2 x 100 mm, can+fen	

System: VERTICALE

Implant type: Pedicle screw

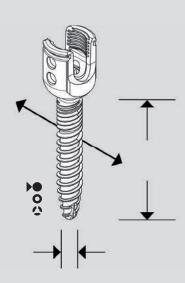
Configuration: Monoaxial, reduction, cannulated and fenestrated shaft



System: VERTICALE

Implant type: Pedicle screw

Configuration: Uniplanar, solid shaft



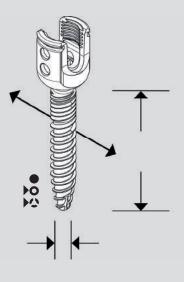
Article number	Description	Illustration
S-VUS-4525-S1	VERTICALE Uni Screw 4.5 x 25 mm, solid	3.5
S-VUS-4530-S1	VERTICALE Uni Screw 4.5 x 30 mm, solid	U
S-VUS-4535-S1	VERTICALE Uni Screw 4.5 x 35 mm, solid	
S-VUS-4540-S1	VERTICALE Uni Screw 4.5 x 40 mm, solid	80
S-VUS-4545-S1	VERTICALE Uni Screw 4.5 x 45 mm, solid	
S-VUS-4550-S1	VERTICALE Uni Screw 4.5 x 50 mm, solid	
S-VUS-5225-S1	VERTICALE Uni Screw 5.2 x 25 mm, solid	
S-VUS-5230-S1	VERTICALE Uni Screw 5.2 x 30 mm, solid	2.5
S-VUS-5235-S1	VERTICALE Uni Screw 5.2 x 35 mm, solid	U
S-VUS-5240-S1	VERTICALE Uni Screw 5.2 x 40 mm, solid	
S-VUS-5245-S1	VERTICALE Uni Screw 5.2 x 45 mm, solid	8
S-VUS-5250-S1	VERTICALE Uni Screw 5.2 x 50 mm, solid	88
S-VUS-5255-S1	VERTICALE Uni Screw 5.2 x 55 mm, solid	•
S-VUS-5260-S1	VERTICALE Uni Screw 5.2 x 60 mm, solid	
S-VUS-6225-S1	VERTICALE Uni Screw 6.2 x 25 mm, solid	
S-VUS-6230-S1	VERTICALE Uni Screw 6.2 x 30 mm, solid	3.6
S-VUS-6235-S1	VERTICALE Uni Screw 6.2 x 35 mm, solid	Ų
S-VUS-6240-S1	VERTICALE Uni Screw 6.2 x 40 mm, solid	
S-VUS-6245-S1	VERTICALE Uni Screw 6.2 x 45 mm, solid	1000
S-VUS-6250-S1	VERTICALE Uni Screw 6.2 x 50 mm, solid	100
S-VUS-6255-S1	VERTICALE Uni Screw 6.2 x 55 mm, solid	
S-VUS-6260-S1	VERTICALE Uni Screw 6.2 x 60 mm, solid	
S-VUS-7225-S1	VERTICALE Uni Screw 7.2 x 25 mm, solid	
S-VUS-7230-S1	VERTICALE Uni Screw 7.2 x 30 mm, solid	
S-VUS-7235-S1	VERTICALE Uni Screw 7.2 x 35 mm, solid	U
S-VUS-7240-S1	VERTICALE Uni Screw 7.2 x 40 mm, solid	
S-VUS-7245-S1	VERTICALE Uni Screw 7.2 x 45 mm, solid	
S-VUS-7250-S1	VERTICALE Uni Screw 7.2 x 50 mm, solid	
S-VUS-7255-S1	VERTICALE Uni Screw 7.2 x 55 mm, solid	竇
S-VUS-7260-S1	VERTICALE Uni Screw 7.2 x 60 mm, solid	
S-VUS-7270-S1	VERTICALE Uni Screw 7.2 x 70 mm, solid	
S-VUS-7280-S1	VERTICALE Uni Screw 7.2 x 80 mm, solid	

Article number	Description	Illustration
S-VUS-4525-K1	VERTICALE Uni Screw 4.5 x 25 mm, can	3.5
S-VUS-4530-K1	VERTICALE Uni Screw 4.5 x 30 mm, can	Ų
S-VUS-4535-K1	VERTICALE Uni Screw 4.5 x 35 mm, can	
S-VUS-4540-K1	VERTICALE Uni Screw 4.5 x 40 mm, can	9000
S-VUS-4545-K1	VERTICALE Uni Screw 4.5 x 45 mm, can	
S-VUS-4550-K1	VERTICALE Uni Screw 4.5 x 50 mm, can	
S-VUS-5225-K1	VERTICALE Uni Screw 5.2 x 25 mm, can	
S-VUS-5230-K1	VERTICALE Uni Screw 5.2 x 30 mm, can	3.5
S-VUS-5235-KF1	VERTICALE Uni Screw 5.2 x 35 mm, can+fen	U
S-VUS-5240-KF1	VERTICALE Uni Screw 5.2 x 40 mm, can+fen	
S-VUS-5245-KF1	VERTICALE Uni Screw 5.2 x 45 mm, can+fen	
S-VUS-5250-KF1	VERTICALE Uni Screw 5.2 x 50 mm, can+fen	3
S-VUS-5255-KF1	VERTICALE Uni Screw 5.2 x 55 mm, can+fen	-
S-VUS-5260-KF1	VERTICALE Uni Screw 5.2 x 60 mm, can+fen	
S-VUS-6225-K1	VERTICALE Uni Screw 6.2 x 25 mm, can	
S-VUS-6230-K1	VERTICALE Uni Screw 6.2 x 30 mm, can	
S-VUS-6235-KF1	VERTICALE Uni Screw 6.2 x 35 mm, can+fen	U
S-VUS-6240-KF1	VERTICALE Uni Screw 6.2 x 40 mm, can+fen	
S-VUS-6245-KF1	VERTICALE Uni Screw 6.2 x 45 mm, can+fen	
S-VUS-6250-KF1	VERTICALE Uni Screw 6.2 x 50 mm, can+fen	
S-VUS-6255-KF1	VERTICALE Uni Screw 6.2 x 55 mm, can+fen	3
S-VUS-6260-KF1	VERTICALE Uni Screw 6.2 x 60 mm, can+fen	
S-VUS-7225-K1	VERTICALE Uni Screw 7.2x25 mm, can	
S-VUS-7230-K1	VERTICALE Uni Screw 7.2x30 mm, can	
S-VUS-7235-KF1	VERTICALE Uni Screw 7.2x35 mm, can+fen	2.5
S-VUS-7240-KF1	VERTICALE Uni Screw 7.2x40 mm, can+fen	u
S-VUS-7245-KF1	VERTICALE Uni Screw 7.2x45 mm, can+fen	
S-VUS-7250-KF1	VERTICALE Uni Screw 7.2x50 mm, can+fen	
S-VUS-7255-KF1	VERTICALE Uni Screw 7.2x55 mm, can+fen	**
S-VUS-7260-KF1	VERTICALE Uni Screw 7.2x60 mm, can+fen	1000
S-VUS-7270-KF1	VERTICALE Uni Screw 7.2x70 mm, can+fen	
S-VUS-7280-KF1	VERTICALE Uni Screw 7.2x80 mm, can+fen	

System: VERTICALE

Implant type: Pedicle screw

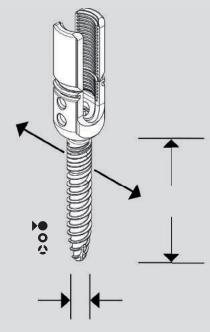
Configuration: Uniplanar, cannulated and fenestrated shaft



System: VERTICALE

Implant type: Pedicle screw

Configuration: Uniplanar, reduction, solid shaft



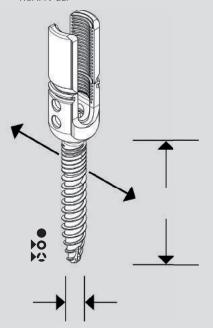
Article number	Description	Illustration
S-VUS-4525-RS2	VERTICALE Uni Reduction Screw 4.5 x 25 mm, solid	
S-VUS-4530-RS2	VERTICALE Uni Reduction Screw 4.5 x 30 mm, solid] [
S-VUS-4535-RS2	VERTICALE Uni Reduction Screw 4.5 x 35 mm, solid	U
S-VUS-4540-RS2	VERTICALE Uni Reduction Screw 4.5 x 40 mm, solid	
S-VUS-4545-RS2	VERTICALE Uni Reduction Screw 4.5 x 45 mm, solid	
S-VUS-4550-RS2	VERTICALE Uni Reduction Screw 4.5 x 50 mm, solid	
S-VUS-5225-RS2	VERTICALE Uni Reduction Screw 5.2 x 25 mm, solid	
S-VUS-5230-RS2	VERTICALE Uni Reduction Screw 5.2 x 30 mm, solid	11
S-VUS-5235-RS2	VERTICALE Uni Reduction Screw 5.2 x 35 mm, solid	
S-VUS-5240-RS2	VERTICALE Uni Reduction Screw 5.2 x 40 mm, solid	¥
S-VUS-5245-RS2	VERTICALE Uni Reduction Screw 5.2 x 45 mm, solid	
S-VUS-5250-RS2	VERTICALE Uni Reduction Screw 5.2 x 50 mm, solid	100 mg
S-VUS-5255-RS2	VERTICALE Uni Reduction Screw 5.2 x 55 mm, solid	8
S-VUS-5260-RS2	VERTICALE Uni Reduction Screw 5.2 x 60 mm, solid	
S-VUS-6225-RS2	VERTICALE Uni Reduction Screw 6.2 x 25 mm, solid	
S-VUS-6230-RS2	VERTICALE Uni Reduction Screw 6.2 x 30 mm, solid	
S-VUS-6235-RS2	VERTICALE Uni Reduction Screw 6.2 x 35 mm, solid	
S-VUS-6240-RS2	VERTICALE Uni Reduction Screw 6.2 x 40 mm, solid	
S-VUS-6245-RS2	VERTICALE Uni Reduction Screw 6.2 x 45 mm, solid	
S-VUS-6250-RS2	VERTICALE Uni Reduction Screw 6.2 x 50 mm, solid	
S-VUS-6255-RS2	VERTICALE Uni Reduction Screw 6.2 x 55 mm, solid	1
S-VUS-6260-RS2	VERTICALE Uni Reduction Screw 6.2 x 60 mm, solid	
S-VUS-7240-RS2	VERTICALE Uni Reduction Screw 7.2 x 40 mm, solid	
S-VUS-7245-RS2	VERTICALE Uni Reduction Screw 7.2 x 45 mm, solid	l II
S-VUS-7250-RS2	VERTICALE Uni Reduction Screw 7.2 x 50 mm, solid	U
S-VUS-7255-RS2	VERTICALE Uni Reduction Screw 7.2 x 55 mm, solid	
S-VUS-7260-RS2	VERTICALE Uni Reduction Screw 7.2 x 60 mm, solid	
S-VUS-7270-RS2	VERTICALE Uni Reduction Screw 7.2 x 70 mm, solid	1000000
S-VUS-7280-RS2	VERTICALE Uni Reduction Screw 7.2 x 80 mm, solid	
S-VMS-2025	VERTICALE Set Screw 1S Torx 25	

Article number	Description	Illustration
S-VUS-4525-RK2	VERTICALE Uni Reduction Screw 4.5 x 25 mm, can	
S-VUS-4530-RK2	VERTICALE Uni Reduction Screw 4.5 x 30 mm, can	II.
S-VUS-4535-RK2	VERTICALE Uni Reduction Screw 4.5 x 35 mm, can	U
S-VUS-4540-RK2	VERTICALE Uni Reduction Screw 4.5 x 40 mm, can	
S-VUS-4545-RK2	VERTICALE Uni Reduction Screw 4.5 x 45 mm, can	
S-VUS-4550-RK2	VERTICALE Uni Reduction Screw 4.5 x 50 mm, can	I.
S-VUS-5225-RK2	VERTICALE Uni Reduction Screw 5.2 x 25 mm, can	
S-VUS-5230-RK2	VERTICALE Uni Reduction Screw 5.2 x 30 mm, can	1.1
S-VUS-5235-RF2	VERTICALE Uni Reduction Screw 5.2 x 35 mm, can+fen	
S-VUS-5240-RF2	VERTICALE Uni Reduction Screw 5.2 x 40 mm, can+fen	U
S-VUS-5245-RF2	VERTICALE Uni Reduction Screw 5.2 x 45 mm, can+fen	
S-VUS-5250-RF2	VERTICALE Uni Reduction Screw 5.2 x 50 mm, can+fen	0000
S-VUS-5255-RF2	VERTICALE Uni Reduction Screw 5.2 x 55 mm, can+fen	1
S-VUS-5260-RF2	VERTICALE Uni Reduction Screw 5.2 x 60 mm, can+fen	
S-VUS-6225-RK2	VERTICALE Uni Reduction Screw 6.2 x 25 mm, can	
S-VUS-6230-RK2	VERTICALE Uni Reduction Screw 6.2 x 30 mm, can	
S-VUS-6235-RF2	VERTICALE Uni Reduction Screw 6.2 x 35 mm, can+fen	4 4
S-VUS-6240-RF2	VERTICALE Uni Reduction Screw 6.2 x 40 mm, can+fen	Ų
S-VUS-6245-RF2	VERTICALE Uni Reduction Screw 6.2 x 45 mm, can+fen	
S-VUS-6250-RF2	VERTICALE Uni Reduction Screw 6.2 x 50 mm, can+fen	90
S-VUS-6255-RF2	VERTICALE Uni Reduction Screw 6.2 x 55 mm, can+fen	99
S-VUS-6260-RF2	VERTICALE Uni Reduction Screw 6.2 x 60 mm, can+fen	
S-VUS-7240-RF2	VERTICALE Uni Reduction Screw 7.2 x 40 mm, can+fen	
S-VUS-7245-RF2	VERTICALE Uni Reduction Screw 7.2 x 45 mm, can+fen	
S-VUS-7250-RF2	VERTICALE Uni Reduction Screw 7.2 x 50 mm, can+fen	U
S-VUS-7255-RF2	VERTICALE Uni Reduction Screw 7.2 x 55 mm, can+fen	
S-VUS-7260-RF2	VERTICALE Uni Reduction Screw 7.2 x 60 mm, can+fen	1000
S-VUS-7270-RF2	VERTICALE Uni Reduction Screw 7.2 x 70 mm, can+fen	1000
S-VUS-7280-RF2	VERTICALE Uni Reduction Screw 7.2 x 80 mm, can+fen	
S-VMS-2025	VERTICALE Set Screw 1S Torx 25	

System: VERTICALE

Implant type: Pedicle screw

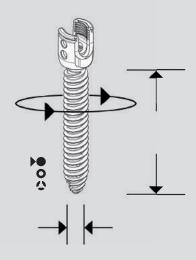
Configuration: Uniplanar, reduction, cannulated and fenestrated shaft



System: VERTICALE

Implant type: Iliac screw

Configuration: Iliac, solid shaft



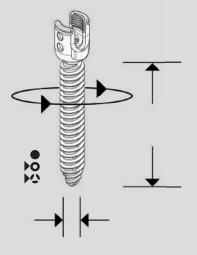
Article number	Description	Illustration
S-VIS-8240-S1	VERTICALE Iliac Screw 8.2 x 40 mm, solid	
S-VIS-8250-S1	VERTICALE Iliac Screw 8.2 x 50 mm, solid	U
S-VIS-8260-S1	VERTICALE Iliac Screw 8.2 x 60 mm, solid	*
S-VIS-8270-S1	VERTICALE Iliac Screw 8.2 x 70 mm, solid	
S-VIS-8280-S1	VERTICALE Iliac Screw 8.2 x 80 mm, solid	3
S-VIS-8290-S1	VERTICALE Iliac Screw 8.2 x 90 mm, solid	
S-VIS-8210-S1	VERTICALE Iliac Screw 8.2 x 100mm, solid	Ŧ
S-VIS-9240-S1	VERTICALE Iliac Screw 9.2 x 40 mm, solid	1.6
S-VIS-9250-S1	VERTICALE Iliac Screw 9.2 x 50 mm, solid	¥
S-VIS-9260-S1	VERTICALE Iliac Screw 9.2 x 60 mm, solid	
S-VIS-9270-S1	VERTICALE Iliac Screw 9.2 x 70 mm, solid	
S-VIS-9280-S1	VERTICALE Iliac Screw 9.2 x 80 mm, solid	
S-VIS-9290-S1	VERTICALE Iliac Screw 9.2 x 90 mm, solid	*
S-VIS-9210-S1	VERTICALE Iliac Screw 9.2 x 100mm, solid	*
S-VIS-0240-S1	VERTICALE Iliac Screw 10.2 x 40 mm, solid	11
S-VIS-0250-S1	VERTICALE Iliac Screw 10.2 x 50 mm, solid	
S-VIS-0260-S1	VERTICALE Iliac Screw 10.2 x 60mm, solid	#
S-VIS-0270-S1	VERTICALE Iliac Screw 10.2 x 70mm, solid	
S-VIS-0280-S1	VERTICALE Iliac Screw 10.2 x 80mm, solid	
S-VIS-0290-S1	VERTICALE Iliac Screw 10.2 x 90mm, solid	#
S-VIS-0210-S1	VERTICALE Iliac Screw 10.2 x 100mm, solid	事
S-VIV-5535-S1	Verticale Iliac Connector 5.5 x 35 mm, solid	-
S-VIV-5545-S1	Verticale Iliac Connector 5.5 x 45 mm, solid	

Article number	Description	Illustration
S-VIS-8240-KF1	VERTICALE Iliac Screw 8.2 x 40 mm, can+fen	
S-VIS-8250-KF1	VERTICALE Iliac Screw 8.2 x 50 mm, can+fen	U
S-VIS-8260-KF1	VERTICALE Iliac Screw 8.2 x 60 mm, can+fen	-
S-VIS-8270-KF1	VERTICALE Iliac Screw 8.2 x 70 mm, can+fen	***
S-VIS-8280-KF1	VERTICALE Iliac Screw 8.2 x 80 mm, can+fen	
S-VIS-8290-KF1	VERTICALE Iliac Screw 8.2 x 90 mm, can+fen	
S-VIS-8210-KF1	VERTICALE Iliac Screw 8.2 x 100 mm, can+fen	7
S-VIS-9240-KF1	VERTICALE Iliac Screw 9.2 x 40 mm, can+fen	3.5
S-VIS-9250-KF1	VERTICALE Iliac Screw 9.2 x 50 mm, can+fen	U
S-VIS-9260-KF1	VERTICALE Iliac Screw 9.2 x 60 mm, can+fen	1
S-VIS-9270-KF1	VERTICALE Iliac Screw 9.2 x 70 mm, can+fen	-
S-VIS-9280-KF1	VERTICALE Iliac Screw 9.2 x 80 mm, can+fen	3
S-VIS-9290-KF1	VERTICALE Iliac Screw 9.2 x 90 mm, can+fen	-
S-VIS-9210-KF1	VERTICALE Iliac Screw 9.2 x 100 mm, can+fen	Ŧ
S-VIS-0240-KF1	VERTICALE Iliac Screw 10.2 x 40 mm, can+fen	1.1
S-VIS-0250-KF1	VERTICALE Iliac Screw 10.2 x 50 mm, can+fen	T
S-VIS-0260-KF1	VERTICALE Iliac Screw 10.2 x 60 mm, can+fen	1
S-VIS-0270-KF1	VERTICALE Iliac Screw 10.2 x 70 mm, can+fen	
S-VIS-0280-KF1	VERTICALE Iliac Screw 10.2 x 80 mm, can+fen	
S-VIS-0290-KF1	VERTICALE Iliac Screw 10.2 x 90 mm, can+fen	1
S-VIS-0210-KF1	VERTICALE Iliac Screw 10.2 x 100 mm, can+fen	事
S-VIV-5535-S1	Verticale Iliac Connector 5.5 x 35 mm, solid	- W
S-VIV-5545-S1	Verticale Iliac Connector 5.5 x 45 mm, solid	L

System: VERTICALE

Implant type: Iliac screw

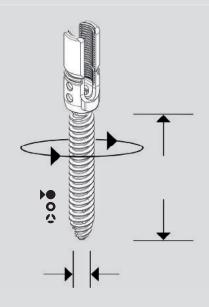
Configuration: Iliac, cannulated and fenestrated shaft



System: VERTICALE

Implant type: Iliac screw

Configuration: Iliac reduction, solid shaft



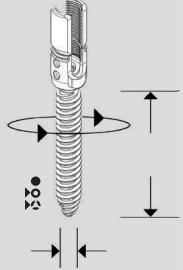
Article number	Description	Illustration
S-VIS-8240-RS2	VERTICALE Iliac Reduction Screw 8.2 x 40 mm, solid	11
S-VIS-8250-RS2	VERTICALE Iliac Reduction Screw 8.2 x 50 mm, solid	
S-VIS-8260-RS2	VERTICALE Iliac Reduction Screw 8.2 x 60 mm, solid	4
S-VIS-8270-RS2	VERTICALE Iliac Reduction Screw 8.2 x 70 mm, solid	
S-VIS-8280-RS2	VERTICALE Iliac Reduction Screw 8.2 x 80 mm, solid	
S-VIS-8290-RS2	VERTICALE Iliac Reduction Screw 8.2 x 90 mm, solid	
S-VIS-8210-RS2	VERTICALE Iliac Reduction Screw 8.2 x 100mm, solid	Ŧ
S-VIS-9240-RS2	VERTICALE Iliac Reduction Screw 9.2 x 40 mm, solid	11
S-VIS-9250-RS2	VERTICALE Iliac Reduction Screw 9.2 x 50 mm, solid] [
S-VIS-9260-RS2	VERTICALE Iliac Reduction Screw 9.2 x 60 mm, solid	¥
S-VIS-9270-RS2	VERTICALE Iliac Reduction Screw 9.2 x 70 mm, solid	
S-VIS-9280-RS2	VERTICALE Iliac Reduction Screw 9.2 x 80 mm, solid	
S-VIS-9290-RS2	VERTICALE Iliac Reduction Screw 9.2 x 90 mm, solid	1
S-VIS-9210-RS2	VERTICALE Iliac Reduction Screw 9.2 x 100mm, solid	Ŧ
S-VIS-0240-RS2	VERTICALE Iliac Reduction Screw 10.2 x 40 mm, solid	11
S-VIS-0250-RS2	VERTICALE Iliac Reduction Screw 10.2 x 50 mm, solid	
S-VIS-0260-RS2	VERTICALE Iliac Reduction Screw 10.2 x 60 mm, solid	*
S-VIS-0270-RS2	VERTICALE Iliac Reduction Screw 10.2 x 70 mm, solid	
S-VIS-0280-RS2	VERTICALE Iliac Reduction Screw 10.2 x 80 mm, solid	
S-VIS-0290-RS2	VERTICALE Iliac Reduction Screw 10.2 x 90 mm, solid	
S-VIS-0210-RS2	VERTICALE Iliac Reduction Screw 10.2 x 100 mm, solid	季
S-VIV-5535-S1	Verticale Iliac Reduction Connector 5.5 x 35 mm, solid	- Lu
S-VIV-5545-S1	Verticale Iliac Reduction Connector 5.5 x 45 mm, solid	

Illustration	Description	Article number
- 11	VERTICALE Iliac Reduction Screw 8.2 x 40 mm, can+fen	S-VIS-8240-RF2
] [VERTICALE Iliac Reduction Screw 8.2 x 50 mm, can+fen	S-VIS-8250-RF2
Ų	VERTICALE Iliac Reduction Screw 8.2 x 60 mm, can+fen	S-VIS-8260-RF2
	VERTICALE Iliac Reduction Screw 8.2 x 70 mm, can+fen	S-VIS-8270-RF2
	VERTICALE Iliac Reduction Screw 8.2 x 80 mm, can+fen	S-VIS-8280-RF2
1	VERTICALE Iliac Reduction Screw 8.2 x 90 mm, can+fen	S-VIS-8290-RF2
#	VERTICALE Iliac Reduction Screw 8.2 x 100 mm, can+fen	S-VIS-8210-RF2
1.1	VERTICALE Iliac Reduction Screw 9.2 x 40 mm, can+fen	S-VIS-9240-RF2
11	VERTICALE Iliac Reduction Screw 9.2 x 50 mm, can+fen	S-VIS-9250-RF2
Ų	VERTICALE Iliac Reduction Screw 9.2 x 60 mm, can+fen	S-VIS-9260-RF2
1	VERTICALE Iliac Reduction Screw 9.2 x 70 mm, can+fen	S-VIS-9270-RF2
1	VERTICALE Iliac Reduction Screw 9.2 x 80 mm, can+fen	S-VIS-9280-RF2
E	VERTICALE Iliac Reduction Screw 9.2 x 90 mm, can+fen	S-VIS-9290-RF2
華	VERTICALE Iliac Reduction Screw 9.2 x 100 mm, can+fen	S-VIS-9210-RF2
11	VERTICALE Iliac Reduction Screw 10.2 x 40 mm, can+fen	S-VIS-0240-RF2
- 11	VERTICALE Iliac Reduction Screw 10.2 x 50 mm, can+fen	S-VIS-0250-RF2
*	VERTICALE Iliac Reduction Screw 10.2 x 60 mm, can+fen	S-VIS-0260-RF2
	VERTICALE Iliac Reduction Screw 10.2 x 70 mm, can+fen	S-VIS-0270-RF2
1	VERTICALE Iliac Reduction Screw 10.2 x 80 mm, can+fen	S-VIS-0280-RF2
#	VERTICALE Iliac Reduction Screw 10.2 x 90 mm, can+fen	S-VIS-0290-RF2
零	VERTICALE Iliac Reduction Screw 10.2 x 100 mm, can+fen	S-VIS-0210-RF2
	Verticale Iliac Connector 5.5 x 35 mm, solid	S-VIV-5535-S1
	·	
0	Verticale Iliac Connector 5.5 x 45 mm, solid	S-VIV-5545-S1

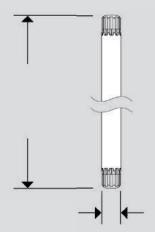
System: VERTICALE

Implant type: Iliac screw

Configuration: Iliac reduction, cannulated and fenestrated shaft



rstem: ERTICALE	Article number	Description	Illustration
plant type:	S-VST-0040-T	VERTICALE Rod curved 5.5 / 40 mm Ti	
d	S-VST-0045-T	VERTICALE Rod curved 5.5 / 45 mm Ti	
nfiguration:	S-VST-0050-T	VERTICALE Rod curved 5.5 / 50 mm Ti	
ved	S-VST-0055-T	VERTICALE Rod curved 5.5 / 55 mm Ti	111111
cerial:	S-VST-0065-T	VERTICALE Rod curved 5.5 / 65 mm Ti	"""
Al4V ELI	S-VST-0075-T	VERTICALE Rod curved 5.5 / 75 mm Ti	
	S-VST-0085-T	VERTICALE Rod curved 5.5 / 85 mm Ti	
	S-VST-0095-T	VERTICALE Rod curved 5.5 / 95 mm Ti	
			,
terial: Al4V ELI	S-VST-0200-T	VERTICALE Rod straight 5.5 / 200 mm Ti	
	S-VST-0300-T	VERTICALE Rod straight 5.5 / 300 mm Ti	
	S-VST-0470-T	VERTICALE Rod straight 5.5 / 470 mm Ti	
			'
terial: Cr	S-VST-0200-C	VERTICALE Rod straight 5.5 / 200 mm Ti	
\a	S-VST-0285-C	VERTICALE Rod straight 5.5 / 285 mm Ti	
	S-VST-0300-C	VERTICALE Rod straight 5.5 / 300 mm Ti	
	S-VST-0400-C	VERTICALE Rod straight 5.5 / 400 mm Ti	
	S-VST-0470-C	VERTICALE Rod straight 5.5 / 470 mm Ti	



Article number	Description	Illustration
S-VPH-1000	VERTICALE Pedicle Hook, small	
S-VPH-1005	VERTICALE Pedicle Hook, large	
S-VPH-1010	VERTICALE Lamina Hook, small	
S-VPH-1015	VERTICALE Lamina Hook, large	US
S-VPH-1020	VERTICALE Supra-Lamina Hook, small	
S-VPH-1025	VERTICALE Supra-Lamina Hook, large	
S-VPH-1030	VERTICALE Offset Hook, left	4
S-VPH-1035	VERTICALE Offset Hook, right	
S-VPH-1040	VERTICALE Sub-Lamina Hook, small	V
S-VPH-1045	VERTICALE Sub-Lamina Hook, large	
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S-VQV-0001	VERTICALE Cross Connector incl. Set Screw	3
S-VQS-0050	VERTICALE CC Rod 50 mm	
S-VQS-0050 S-VQS-0060	VERTICALE CC Rod 50 mm VERTICALE CC Rod 60 mm	
S-VQS-0060	VERTICALE CC Rod 60 mm	
S-VQS-0060 S-VQS-0070	VERTICALE CC Rod 60 mm VERTICALE CC Rod 70 mm	
S-VQS-0060 S-VQS-0070 S-VQS-0080	VERTICALE CC Rod 60 mm VERTICALE CC Rod 70 mm VERTICALE CC Rod 80 mm	
S-VQS-0060 S-VQS-0070 S-VQS-0080	VERTICALE CC Rod 60 mm VERTICALE CC Rod 70 mm VERTICALE CC Rod 80 mm	Sill Sill Sill Sill Sill Sill Sill Sill
S-VQS-0060 S-VQS-0070 S-VQS-0080 S-VQS-0090	VERTICALE CC Rod 60 mm VERTICALE CC Rod 70 mm VERTICALE CC Rod 80 mm VERTICALE CC Rod 90 mm	
S-VQS-0060 S-VQS-0070 S-VQS-0080 S-VQS-0090	VERTICALE CC Rod 60 mm VERTICALE CC Rod 70 mm VERTICALE CC Rod 80 mm VERTICALE CC Rod 90 mm VERTICALE RC Inline short 5.5 / 5.5 mm*	
S-VQS-0060 S-VQS-0070 S-VQS-0080 S-VQS-0090 S-VSV-5555-INK S-VSV-5555-INL	VERTICALE CC Rod 60 mm VERTICALE CC Rod 70 mm VERTICALE CC Rod 80 mm VERTICALE CC Rod 90 mm VERTICALE RC Inline short 5.5 / 5.5 mm*	
S-VQS-0060 S-VQS-0070 S-VQS-0080 S-VQS-0090 S-VSV-5555-INK S-VSV-5555-INL S-VSV-5555-INM S-VSV-5555-KM	VERTICALE CC Rod 60 mm VERTICALE CC Rod 70 mm VERTICALE CC Rod 80 mm VERTICALE CC Rod 90 mm VERTICALE RC Inline short 5.5 / 5.5 mm* VERTICALE RC Inline long 5.5 / 5.5 mm* VERTICALE RC Domino 5.5 / 5.5 mm* VERTICALE SV Inline middle 5.5 / 5.5 mm*	
S-VQS-0060 S-VQS-0070 S-VQS-0080 S-VQS-0090 S-VSV-5555-INK S-VSV-5555-INL S-VSV-5555-INM	VERTICALE CC Rod 60 mm VERTICALE CC Rod 70 mm VERTICALE CC Rod 80 mm VERTICALE CC Rod 90 mm VERTICALE RC Inline short 5.5 / 5.5 mm* VERTICALE RC Inline long 5.5 / 5.5 mm* VERTICALE RC Domino 5.5 / 5.5 mm* VERTICALE SV Inline middle 5.5 / 5.5 mm*	
S-VQS-0060 S-VQS-0070 S-VQS-0080 S-VQS-0090 S-VSV-5555-INK S-VSV-5555-INL S-VSV-5555-INM S-VSV-5555-KM	VERTICALE CC Rod 60 mm VERTICALE CC Rod 70 mm VERTICALE CC Rod 80 mm VERTICALE CC Rod 90 mm VERTICALE RC Inline short 5.5 / 5.5 mm* VERTICALE RC Inline long 5.5 / 5.5 mm* VERTICALE RC Domino 5.5 / 5.5 mm* VERTICALE SV Inline middle 5.5 / 5.5 mm*	

System: VERTICALE

Implant type: Hook

Material: Ti6Al4V ELI

System: VERTICALE

Implant type: Connector

Configuration: Cross connector, rod connector

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VI-1189	VERTICALE Tap 8.2 and 9.2 mm, can		8
VI-1202	VERTICALE Tap 10.2 mm, can		8
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VERTICALE® Hook Instruments

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