

VERTICALE® POSTERIOR SPINAL FIXATION SYSTEM

INSTRUMENTATION GUIDE



TABLE OF CONTENTS

Preface	3
Indication / contraindication	4
Standard instrumentation	. 5
Instrumental reduction and correction options	18
Reduction with the VERTICALE Reduction Screws	23
Instrumentation with the VERTICALE Connectors	25
Removal of the implants	30
PRODUCT INFORMATION	31
VERTICALE Implants PI	02
VERTICALE Instruments PI	16
VERTICALE General Instruments PI	20
VERTICALE Accessories PI	20
VERTICALE Alphabetical Index PI	1 21

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 an opportunity to observe surgical procedures.





VERTICALE® – THE POSTERIOR SPINAL FIXATION SYSTEM

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

The system was developed in close cooperation with experienced and qualified spinal surgeons as well as specialist staff from OR and sterilization departments. As a result, the VERTICALE System 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 stabilized 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. Routine use of the system is facilitated by bi-functional 2-in-1 instruments and modular handle options, along with individually customizable screw trays.

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





Indications

The VERTICALE System is indicated for use in the thoracic and lumbar spine and for iliosacral fixation procedures (T1–S2 / ilium). This includes all kinds of thoracic and lumbar instabilities that require comprehensive posterior pedicle screw fixation:

- Degenerative disc diseases
- Spondylolisthesis of all etiologies
- Stenosis
- Deformities such as scoliosis and kyphosis
- Fractures
- Spondylitis
- Tumors
- Revisions
- Pseudarthrosis

Contraindications

Under certain circumstances, implantation is contraindicated or associated with substantial risks, even though it may be indicated. These include in particular:

- · Anticipated or documented allergy or intolerance to the materials used (e.g. titanium or cobalt chromium)
- · Any case in which the chosen implants would be too large or too small to achieve a success-
- Any patient for whom the use of the implant would conflict with anatomical structures
- Missing bony structures, which would render solid anchoring of the implant impossible (e.g., in the case of fractures, tumors, or osteoporosis).

NOTE: Anterior, interbody support in the form of an intervertebral implant device, such as a ROCCIA Cage, is recommended for treating instabilities of the anterior spine and is used at the discretion of the operating surgeon and in accordance with the respective indication.

NOTE: Please also note the Instructions for Use provided with each product. They may include additional advice that leads to exclusion of the implant procedure.

VERTICALE® STANDARD INSTRUMENTATION

In the following section, we begin by describing a monosegmental posterior VERTICALE standard instrumentation that forms the basis for all subsequent steps with additional instruments and implant devices. Multisegmental instrumentations are also performed according to these instructions.

Position and approach

The patient is positioned in the prone position, as is common for the posterior approach. The skin incision is performed medially above the spinous processes corresponding to the spinal segments to be 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 X-ray control. The cortex is subsequently opened with the VERTICALE Triangular Awl (Fig. 1). For safety reasons, the awl has a depth stop after 10 mm (Fig. 2).



Fig. 1 Pedicle screws trajectory

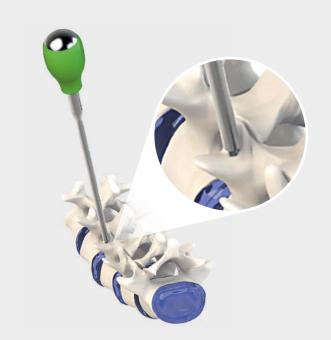


Fig. 2 Opening the pedicle with the VERTICALE Triangular Awl

VI-1020* **VERTICALE** Probe



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

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

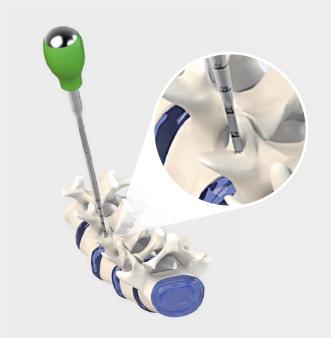
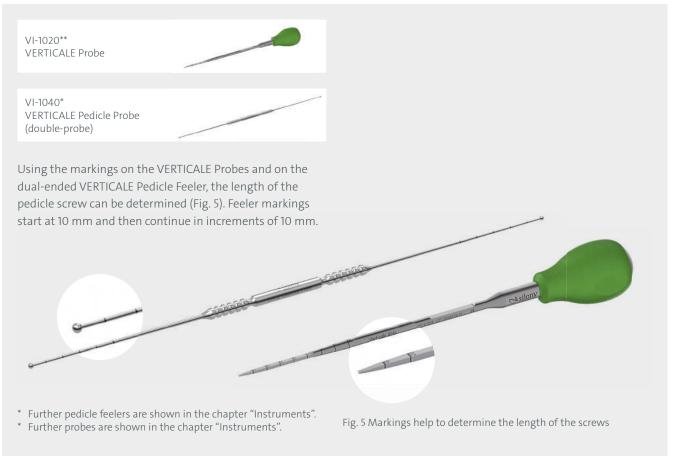


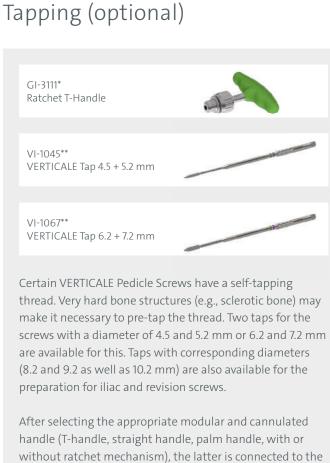
Fig. 3 Preparing the screw channel with the awl

Probing the pedicle

VI-1040* VERTICALE Pedicle Feeler (double-probe) The dual-ended VERTICALE Pedicle Feeler can be used to check the prepared screw channel for possible perforations (Fig. 4). * Further pedicle feeler are shown in the chapter "Instruments". Fig. 4 Probing the pedicle with the pedicle feeler

Determining the screw lengths





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

corresponding VERTICALE Tap by locking into place.

The thread on the VERTICALE Tap has a length of 25 mm. The laser markings start at 30 mm and 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 (less than 1.6 mm). See appendix with VERTICALE instruments.

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



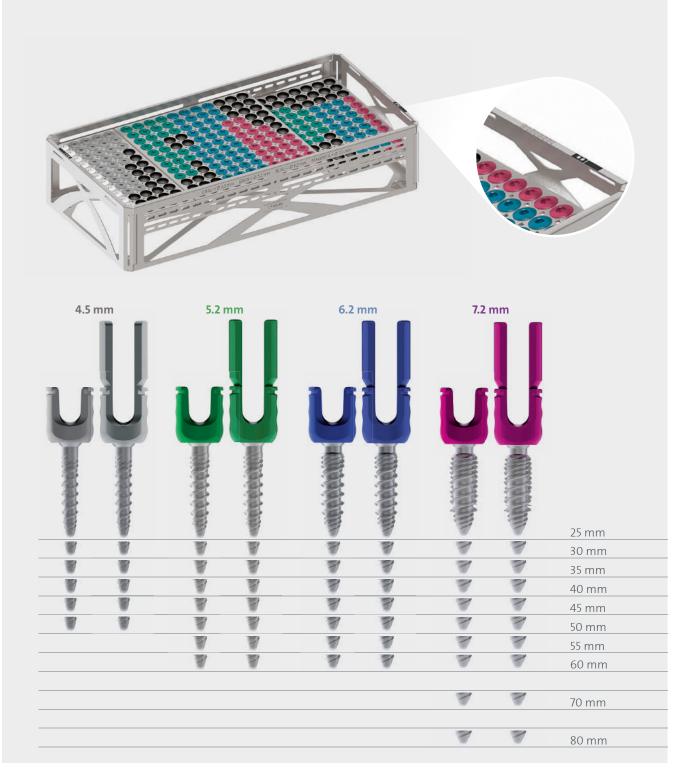


Selection of pedicle screws

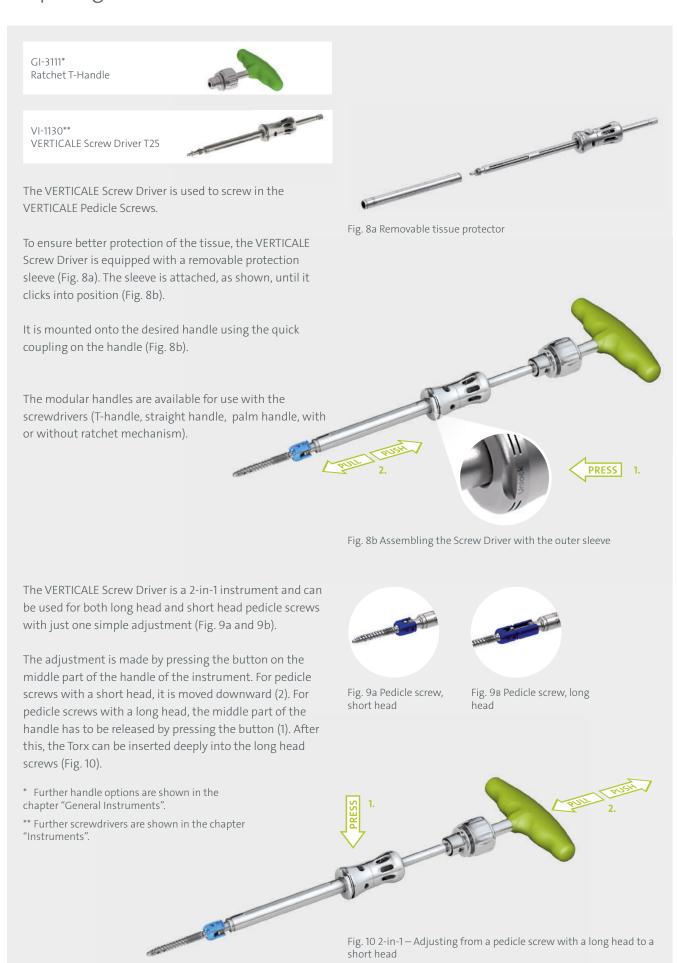
To enable faster and easier identification, all VERTICALE Pedicle Screws are color coded by diameter. The lengths vary by 5 mm increments.

The side of the VERTICALE Screw Tray has a scale to verify the correct length of the pedicle screw.

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).



Preparing the Screw Driver



Picking up the screws



The pedicle screws can be picked up inside or outside of the screw tray. Care must be taken to ensure an orthograde alignment between the screw head and screw shaft. When screws are picked up directly from the tray, orthograde alignment is generally assured. The VERTICALE Screw Driver 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 to the right and applying mild downward force with the instrument shaft (Fig. 11). Please make sure the connection is secure.

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

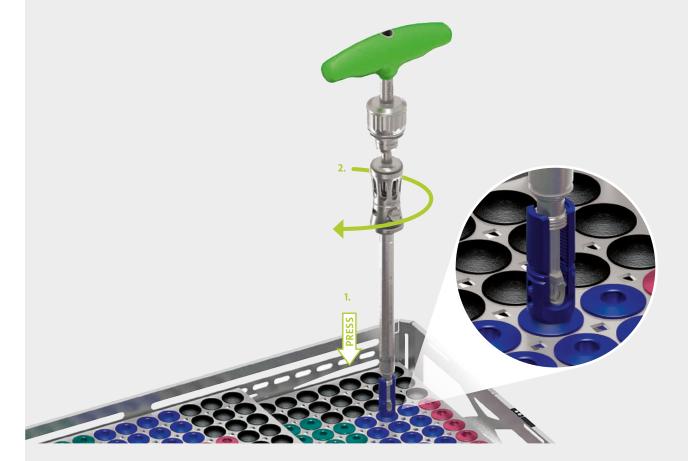


Fig. 11 Connecting the Screw Driver with a screw

Pedicle screw insertion

GI-3111* Ratchet T-Handle



VI-1130** VERTICALE Screw Driver T25



The VERTICALE Pedicle Screws are screwed into the prepared screw channel until the screw shaft is fully inserted into the pedicle (Fig. 12). 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. Verifying the correct positioning of the pedicle screws by means of an image intensifier in frontal and sagittal projection is strongly recommended.

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

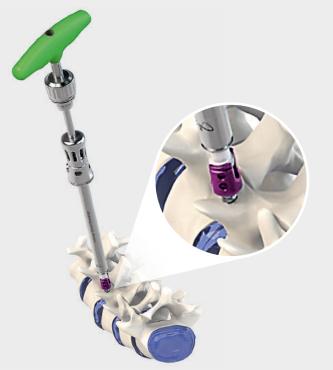


Fig. 12 Inserting the pedicle screw into the bone

NOTE: In the case of polyaxial screws, it is important that the polyaxiality of the screw head not be blocked. When using monoaxial screws, it must be ensured that the screw head is positioned in a superior-inferior direction. If necessary, the screw must be turned back a little.

Countersinking the pedicle screw

GI-3111* Ratchet T-Handle



VI-1445** VERTICALE T25 Screwdriver



The VERTICALE T25 Screwdriver Shaft with a handle is available for countersinking the pedicle screws (Fig. 13).

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



Fig. 13 Countersinking the pedicle screw

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. 14).

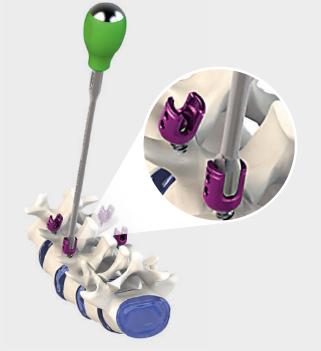


Fig. 14 Aligning the pedicle screw heads with the rod and tulip adjuster

Selecting and sizing the rods

VI-1270 **VERTICALE** French Bender



Various rod lengths with a diameter of 5.5 mm are available. Details can be found in the appended product information

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. 16). 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. 15). For 'Rotating the rod' and 'In-situ bending', see the chapter on VERTICALE instrumental reduction. Rods that are too long can be shortened using a rod cutter. When selecting the rod connection, make sure the rod length is adequate.

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. 15 Bending the rod with the VERTICALE French Bender

Fig. 16 Decagonal rod end for rotations



Inserting the rods



The rods are inserted using the VERTICALE Rod Holder

* 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 over the last pedicle screw head. The decagonal end must be fully visible. If necessary, a new rod length will have to be selected.

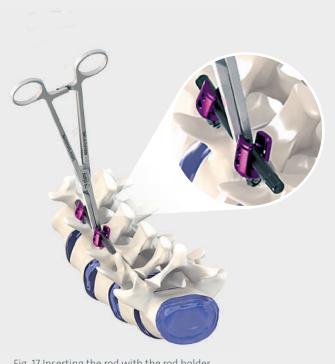


Fig. 17 Inserting the rod with the rod holder

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. 18).

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. 18 Positioning the rod with the rod and tulip adjuster and the set screw starter

Temporarily fixing the set screw

VI-1420* VERTICALE Set Screw Starter

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. 19a).

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. 19b) and fits onto both the pedicle screw head of the short head and long head screws.



Fig. 19a Set screw starter

Fig. 19b Set screw starter with protection sleeve

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.





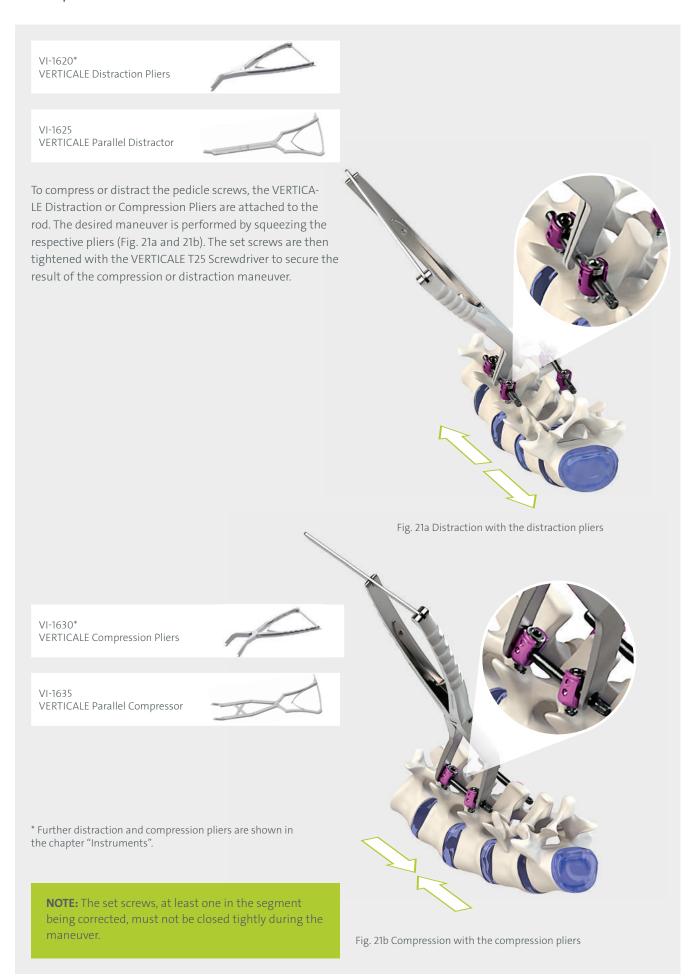
A VERTICALE Counter Torque is available to prevent rotation when tightening the set screw. The torque can be comfortably mounted parallel or at right angles to the rod (Fig. 20).

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



Fig. 20 Set screw starter with counter torque

Compression and distraction



Final tightening using the counter torque

VI-2440* VERTICALE T25 Torque Limiter



VI-1450 **VERTICALE** Counter Torque



The VERTICALE Counter Torque is used to stabilize 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. 22) 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 ensuring that the screw is correctly seated by repeatedly tightening with the torque limiter. This is confirmed by two clicking sounds.

* Other torque limiters are shown in the chapter "Instruments".



Fig. 22 Final tightening with the counter torque

VERIFICATION

The result of the instrumentation is verified using images in two planes from an image intensifier.





VERTICALE® INSTRUMENTAL REDUCTION AND CORRECTION OPTIONS

help of VERTICALE instruments in one or more segments. These instruments are described in the next

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. 23). 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. 23 Reduction with 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 because 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.

Reduction with the reduction instrument, compact

VI-1365 VERTICALE Reduction Instrument, compact



VI-1366 VERTICALE Reduction Insert, compact



The VERTICALE Reduction Instrument is first placed on the screw head. The upper end must be pressed downward which causes the clamp on the lower end to open (Fig. 1). Ensure that the instrument is correctly aligned before it is closed over the screw head. The VERTICALE Reduction Insert is then inserted into the VERTICALE Reduction Instrument

Turning the VERTICALE Reduction Insert (Fig. 3) creates a firm connection between the pedicle screw and the instrument, which is important for the reduction maneuver.



Fig. 1 Placement of the reduction instrument on the screw

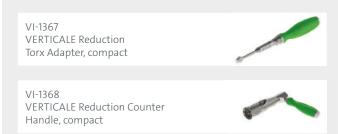


Fig. 2 Insertion of the reduction insert in the reduction instru-



Fig. 3 Screwing in of the reduction insert

Reduction with the reduction instrument, compact

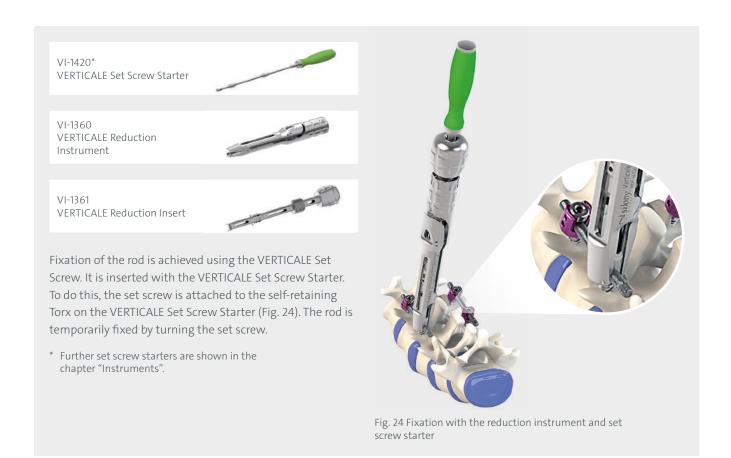


The VERTICALE Reduction Counter Handle is placed on the VERTICALE Reduction Instrument. More reduction force can be applied using the Torx adapter and the counter handle. The VERTICALE Reduction Torx Adapter grips into the insert and the rod is introduced into the screw head by turning the handle (Fig. 4). At the same time, the position of the vertebral body is corrected to posterior.



Fig. 4 Reduction maneuver with the reduction instrument using the counter handle

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. 25). 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.

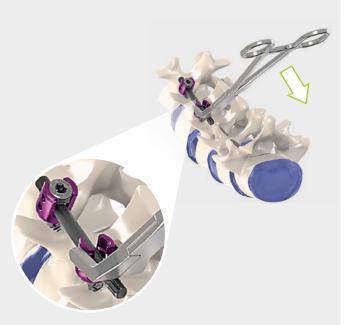


Fig. 25 Reduction with the rocker instrument

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 maneuvers using the VERTICALE Rod Grippers.

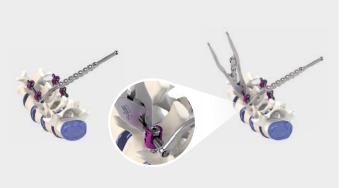


VERTICALE Rod Rotation Wrench



VERTICALE Rod Rotation Wrench

A rod rotation wrench is available for comfortable and gradual rotation of the rod (e.g., for derotation of scoliosis). This 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 insitu.



REDUCTION WITH THE VERTICALE® RE-**DUCTION SCREWS**

The extended head profile of the reduction screw (long head) facilitates reduction of the rod with no need

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 Screw Driver has to be brought into the position for reduction screws (see the section on preparing the Screw Driver).

They are particularly well suited for deformities and spondylolisthesis because 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. 26).

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

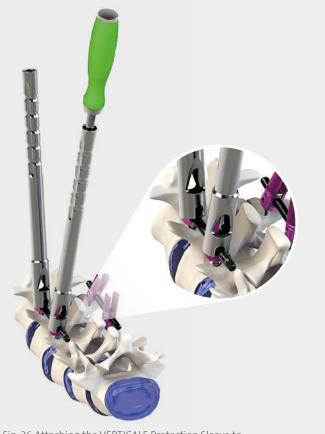


Fig. 26 Attaching the VERTICALE Protection Sleeve to protect the screw tabs.

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. 27). The break-off tool can hold up to six tabs in its reservoir before it has to be emptied.

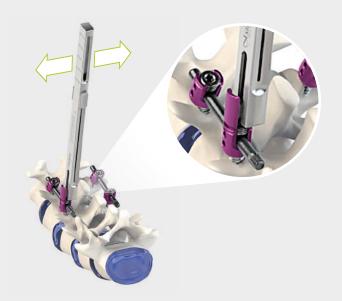


Fig. 27 Breaking off the tabs with the tab remover



Fig. 28 Tab remover with tab ejector

INSTRUMENTATION WITH THE VERTICALE® **CONNECTORS**

VERTICALE Cross Connectors are recommended to improve rotational stability, especially for

Inserting the cross connectors

VERTICALE T20 Screwdriver 7 Nm



VI-1830 VERTICALE Rod and Cross Connector Holder



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. 29).

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 VERTICALE 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. 30).

We recommend ensuring that the screw is correctly seated by repeatedly tightening with the torque limiter. This is confirmed by two clicking sounds.



Fig. 29 Attaching the connector hook



Fig. 30 Inserting a cross connector

Inserting the lengthwise connectors

VI-1820 **VERTICALE** Domino Holder



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 cross connector 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. 31) while the VERTICALE Domino Holder is used to engage the VERTICALE Domino Rod Connector (Fig. 32). Before the set screws are tightened, the rods have to be inserted into the rod connectors as deeply as possible. This can be checked in the viewing panel 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. 31 Inserting a VERTICALE Inline Rod Connector



Fig. 32 Rod and cross connector holder with rod connector (side-to-side)

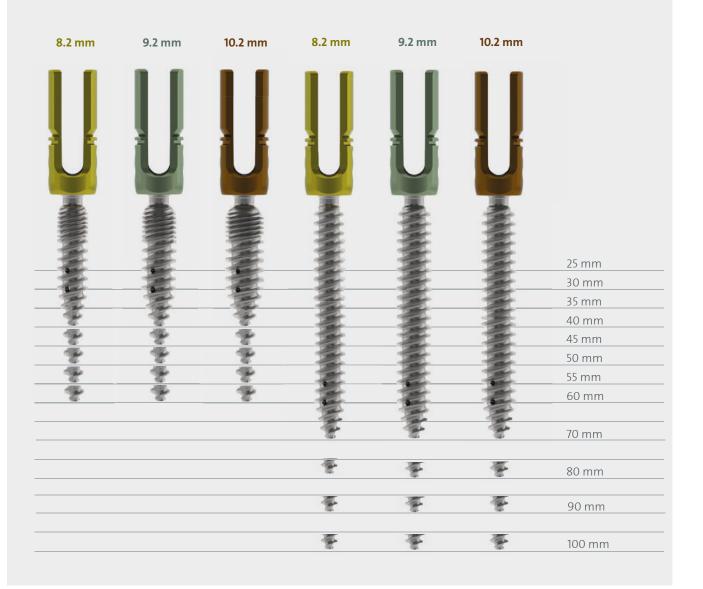
Selection of iliac screws

Using a large screw diameter can lead to torque forces during implantation that are too high and these may possibly affect the stability and use of the instruments, particularly the screwdriver. The following information highlights important details for implantation or explantation of screws with large diameters in order to eliminate potential problems.

Silony provides a comprehensive screw portfolio for spinal surgery, including large diameters of 8.2, 9.2, and 10.2 mm and lengths from 25 mm to 100 mm. These screws were specifically constructed for applications with large pedicles, iliac screw connections, and revisions.

The design includes the same product properties as for screw types with the smaller diameter, that is, self-tapping shaft tips and shaft cannulation for simplified positioning and insertion.

Larger screw diameters often require a higher torque during implantation compared to smaller screw types. Therefore, very high forces can be exerted on the instrument/implant connection which increase the risk of material wear or of a component defect developing in the screwdriver or screw head.



Preparation and explantation

Thread pre-tapping

Before the implantation of large screw diameters, it is recommended that the thread is prepared with the associated taps in the same manner as recommended for smaller diameters. If the screw requires unusually high forces for further screwing in after partial insertion, it is recommended to remove the screw using either the VI-1445 VERTICALE T25 Screwdriver Shaft or VI-1446 VERTICALE T25 SD Shaft Bullet Head. The thread should be cut again and the screw should then be implanted with the VI-1130 screwdriver. If necessary, selecting a better screw could be an alternative.

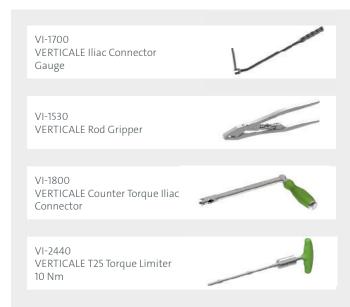
Explantation of large screw diameter

If a screw with a large diameter has to be removed, preferably use either the instrument VI-1445 or VI-1446. These instruments were specifically designed for higher torques and tolerate them much better. It should be noted that these instruments do not ensure mechanical stability for their instrument/implant connection as provided by the VI-1130 VERTICALE Screw Driver. These instruments are therefore optimally designed for the explantation of large screw diameters.

Handles

For screw implantation it is highly recommended to use the straight or palm handle. The use of T-handles (that is, GI-1TRK, GI-1TOK, GI-3111, GI-3101, GI-2111, or GI-2101) is not recommended because T-handles can generate a larger torque without providing the desired tactile feedback about the applied torque.

Inserting the iliac connector



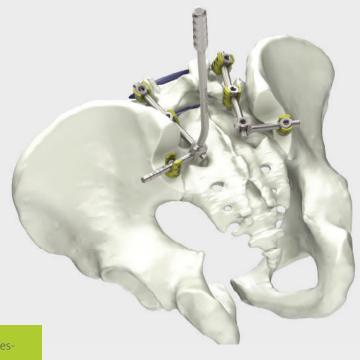
The iliac connector can be used to connect the iliac screw with the rod.

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.



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

Removing the implants

To remove an implant, carry out the following steps as described. Pay attention to the loosened implant and screws during the procedures.

STEP 1: Remove the cross connector

Use the VERTICALE T20 Screwdriver or the VI-1446 VERTICALE Screwdriver Shaft to loosen the set screws on both sides of the cross connector hook by turning the handle counterclockwise. As soon as the screws are 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: Remove the set screws

Insert the VERTICALE T25 Screwdriver or the VI-1446 VERTICALE Screwdriver Shaft and turn the set screw counterclockwise until it is loosened. The VERTICALE Counter Torque is used to stabilize the rotation when loosening the set screw. Repeat this step until all the set screws have been loosened.

Remove the VERTICALE T25 Screwdriver or the VI-1446 VERTICALE Screwdriver Shaft and place the VERTICALE Set Screw Starter into the screw. The set screw is tightened with the Torx of the basic core and secured using the internal groove. Repeat the procedure until all set screws have been removed.

STEP 3: Remove the rod and/or the rod connector

As soon as all set screws have been removed, grasp the rod with the VERTICALE Rod Holder and lift it to remove the rod from the screw heads. To remove a rod-to-rod connector, the VERTICALE Domino, use the VERTICALE T20 Screwdriver or the VI-1446 VERTICALE Screwdriver Shaft to loosen the fixation screws of 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 them.

STEP 4: Remove the pedicle screw

The VERTICALE T25 Screwdriver or the VI-1446 VERTICALE Screwdriver Shaft is used to remove the pedicle screws. The VERTICALE T25 Screwdriver is inserted deeply into the internal Torx of the screw for fixation and turned inward over the sleeve of the Screw Driver. Turn the screwdriver or the screwdriver shaft counterclockwise until the pedicle screw has been completely removed from the bone.

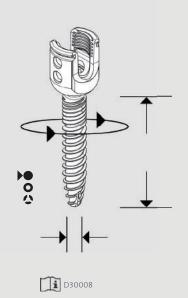
VERTICALE® PRODUCT INFORMATION

VERTICALE Implants by article number	PI 02 – 15
VERTICALE Instruments by article number	PI 16 – 20
VERTICALE General Instruments by article number	PI 20
VERTICALE Accessories by article num	PI 20
VERTICALE Alphabetical Index	PI 21-22

System: VERTICALE

Implant type: Pedicle screw

Typing: Polyaxial, solid shaft



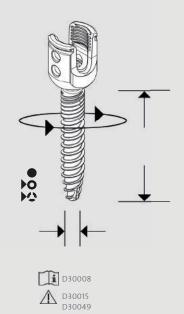
Article number	Description	Illustration
VPS-4525-S1	VERTICALE Poly Screw 4.5 x 25 mm, solid	2.5
VPS-4530-S1	VERTICALE Poly Screw 4.5 x 30 mm, solid	u
VPS-4535-S1	VERTICALE Poly Screw 4.5 x 35 mm, solid	
VPS-4540-S1	VERTICALE Poly Screw 4.5 x 40 mm, solid	9999
VPS-4545-S1	VERTICALE Poly Screw 4.5 x 45 mm, solid	900
VPS-4550-S1	VERTICALE Poly Screw 4.5 x 50 mm, solid	
VPS-5225-S1	VERTICALE Poly Screw 5.2 x 25 mm, solid	
VPS-5230-S1	VERTICALE Poly Screw 5.2 x 30 mm, solid	1.6
VPS-5235-S1	VERTICALE Poly Screw 5.2 x 35 mm, solid	Ų
VPS-5240-S1	VERTICALE Poly Screw 5.2 x 40 mm, solid	
VPS-5245-S1	VERTICALE Poly Screw 5.2 x 45 mm, solid	999
VPS-5250-S1	VERTICALE Poly Screw 5.2 x 50 mm, solid	200
VPS-5255-S1	VERTICALE Poly Screw 5.2 x 55 mm, solid	
VPS-5260-S1	VERTICALE Poly Screw 5.2 x 60 mm, solid	
VPS-6225-S1	VERTICALE Poly Screw 6.2 x 25 mm, solid	
VPS-6230-S1	VERTICALE Poly Screw 6.2 x 30 mm, solid	
VPS-6235-S1	VERTICALE Poly Screw 6.2 x 35 mm, solid	U
VPS-6240-S1	VERTICALE Poly Screw 6.2 x 40 mm, solid	
VPS-6245-S1	VERTICALE Poly Screw 6.2 x 45 mm, solid	8994
VPS-6250-S1	VERTICALE Poly Screw 6.2 x 50 mm, solid	9666
VPS-6255-S1	VERTICALE Poly Screw 6.2 x 55 mm, solid	₩.
VPS-6260-S1	VERTICALE Poly Screw 6.2 x 60 mm, solid	
VPS-7225-S1	VERTICALE Poly Screw 7.2 x 25 mm, solid	
VPS-7230-S1	VERTICALE Poly Screw 7.2 x 30 mm, solid	
VPS-7235-S1	VERTICALE Poly Screw 7.2 x 35 mm, solid	1.6
VPS-7240-S1	VERTICALE Poly Screw 7.2 x 40 mm, solid	Ų
VPS-7245-S1	VERTICALE Poly Screw 7.2 x 45 mm, solid	
VPS-7250-S1	VERTICALE Poly Screw 7.2 x 50 mm, solid	
VPS-7255-S1	VERTICALE Poly Screw 7.2 x 55 mm, solid	
VPS-7260-S1	VERTICALE Poly Screw 7.2 x 60 mm, solid	
VPS-7270-S1	VERTICALE Poly Screw 7.2 x 70 mm, solid	
VPS-7280-S1	VERTICALE Poly Screw 7.2 x 80 mm, solid	

Article number	Description	Illustration
VPS-4525-K1	VERTICALE Poly Screw 4.5 x 25 mm, can	3.6
VPS-4530-K1	VERTICALE Poly Screw 4.5 x 30 mm, can	U
VPS-4535-K1	VERTICALE Poly Screw 4.5 x 35 mm, can	
VPS-4540-K1	VERTICALE Poly Screw 4.5 x 40 mm, can	96666
VPS-4545-K1	VERTICALE Poly Screw 4.5 x 45 mm, can	0,000
VPS-4550-K1	VERTICALE Poly Screw 4.5 x 50 mm, can	
VPS-5225-K1	VERTICALE Poly Screw 5.2 x 25 mm, can	
VPS-5230-K1	VERTICALE Poly Screw 5.2 x 30 mm, can	
VPS-5235-KF1	VERTICALE Poly Screw 5.2 x 35 mm, can+fen	u
VPS-5240-KF1	VERTICALE Poly Screw 5.2 x 40 mm, can+fen	I
VPS-5245-KF1	VERTICALE Poly Screw 5.2 x 45 mm, can+fen	8855
VPS-5250-KF1	VERTICALE Poly Screw 5.2 x 50 mm, can+fen	
VPS-5255-KF1	VERTICALE Poly Screw 5.2 x 55 mm, can+fen	
VPS-5260-KF1	VERTICALE Poly Screw 5.2 x 60 mm, can+fen	
VPS-6225-K1	VERTICALE Poly Screw 6.2 x 25 mm, can	·
VPS-6230-K1	VERTICALE Poly Screw 6.2 x 30 mm, can	
VPS-6235-KF1	VERTICALE Poly Screw 6.2 x 35 mm, can+fen	U
VPS-6240-KF1	VERTICALE Poly Screw 6.2 x 40 mm, can+fen	
VPS-6245-KF1	VERTICALE Poly Screw 6.2 x 45 mm, can+fen	999
VPS-6250-KF1	VERTICALE Poly Screw 6.2 x 50 mm, can+fen	9
VPS-6255-KF1	VERTICALE Poly Screw 6.2 x 55 mm, can+fen	*
VPS-6260-KF1	VERTICALE Poly Screw 6.2 x 60 mm, can+fen	
VPS-7225-K1	VERTICALE Poly Screw 7.2 x 25 mm, can	
VPS-7230-K1	VERTICALE Poly Screw 7.2 x 30 mm, can	
VPS-7235-KF1	VERTICALE Poly Screw 7.2 x 35 mm, can+fen	
VPS-7240-KF1	VERTICALE Poly Screw 7.2 x 40 mm, can+fen	
VPS-7245-KF1	VERTICALE Poly Screw 7.2 x 45 mm, can+fen	
VPS-7250-KF1	VERTICALE Poly Screw 7.2 x 50 mm, can+fen	86
VPS-7255-KF1	VERTICALE Poly Screw 7.2 x 55 mm, can+fen	2
VPS-7260-KF1	VERTICALE Poly Screw 7.2 x 60 mm, can+fen	₹
VPS-7270-KF1	VERTICALE Poly Screw 7.2 x 70 mm, can+fen	
VPS-7280-KF1	VERTICALE Poly Screw 7.2 x 80 mm, can+fen	

System: VERTICALE

Implant type: Pedicle screw

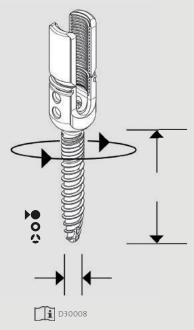
Typing: Polyaxial, cannulated and fenestrated shaft



System: VERTICALE

Implant type: Pedicle screw

Typing: Polyaxial, reduction, solid shaft



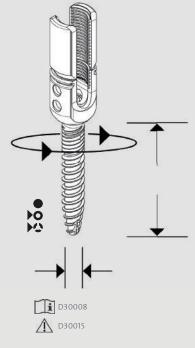
Article number	Description	Illustration
VPS-4525-RS2	VERTICALE Reduction Screw 4.5 x 25 mm, solid	1.1
VPS-4530-RS2	VERTICALE Reduction Screw 4.5 x 30 mm, solid	
VPS-4535-RS2	VERTICALE Reduction Screw 4.5 x 35 mm, solid	Ų
VPS-4540-RS2	VERTICALE Reduction Screw 4.5 x 40 mm, solid	
VPS-4545-RS2	VERTICALE Reduction Screw 4.5 x 45 mm, solid	
VPS-4550-RS2	VERTICALE Reduction Screw 4.5 x 50 mm, solid	age .
VPS-5225-RS2	VERTICALE Reduction Screw 5.2 x 25 mm, solid	
VPS-5230-RS2	VERTICALE Reduction Screw 5.2 x 30 mm, solid	11
VPS-5235-RS2	VERTICALE Reduction Screw 5.2 x 35 mm, solid	
VPS-5240-RS2	VERTICALE Reduction Screw 5.2 x 40 mm, solid	U
VPS-5245-RS2	VERTICALE Reduction Screw 5.2 x 45 mm, solid	
VPS-5250-RS2	VERTICALE Reduction Screw 5.2 x 50 mm, solid	3
VPS-5255-RS2	VERTICALE Reduction Screw 5.2 x 55 mm, solid	₹
VPS-5260-RS2	VERTICALE Reduction Screw 5.2 x 60 mm, solid	
VPS-6225-RS2	VERTICALE Reduction Screw 6.2 x 25 mm, solid	
VPS-6230-RS2	VERTICALE Reduction Screw 6.2 x 30 mm, solid	11
VPS-6235-RS2	VERTICALE Reduction Screw 6.2 x 35 mm, solid	
VPS-6240-RS2	VERTICALE Reduction Screw 6.2 x 40 mm, solid	Ų
VPS-6245-RS2	VERTICALE Reduction Screw 6.2 x 45 mm, solid	
VPS-6250-RS2	VERTICALE Reduction Screw 6.2 x 50 mm, solid	999
VPS-6255-RS2	VERTICALE Reduction Screw 6.2 x 55 mm, solid	*
VPS-6260-RS2	VERTICALE Reduction Screw 6.2 x 60 mm, solid	
VPS-7225-RS2	VERTICALE Reduction Screw 7.2 x 25 mm, solid	
VPS-7230-RS2	VERTICALE Reduction Screw 7.2 x 30 mm, solid	
VPS-7235-RS2	VERTICALE Reduction Screw 7.2 x 35 mm, solid	
VPS-7240-RS2	VERTICALE Reduction Screw 7.2 x 40 mm, solid	
VPS-7245-RS2	VERTICALE Reduction Screw 7.2 x 45 mm, solid	u
VPS-7250-RS2	VERTICALE Reduction Screw 7.2 x 50 mm, solid	
VPS-7255-RS2	VERTICALE Reduction Screw 7.2 x 55 mm, solid	8
VPS-7260-RS2	VERTICALE Reduction Screw 7.2 x 60 mm, solid	8
VPS-7270-RS2	VERTICALE Reduction Screw 7.2 x 70 mm, solid	
VPS-7280-RS2	VERTICALE Reduction Screw 7.2 x 80 mm, solid	

Article number	Description	Illustration
VPS-4525-RK2	VERTICALE Reduction Screw 4.5 x 25 mm, can	1.1
VPS-4530-RK2	VERTICALE Reduction Screw 4.5 x 30 mm, can	I I
VPS-4535-RK2	VERTICALE Reduction Screw 4.5 x 35 mm, can	U
VPS-4540-RK2	VERTICALE Reduction Screw 4.5 x 40 mm, can	
VPS-4545-RK2	VERTICALE Reduction Screw 4.5 x 45 mm, can	
VPS-4550-RK2	VERTICALE Reduction Screw 4.5 x 50 mm, can	-
VPS-5225-RK2	VERTICALE Reduction Screw 5.2 x 25 mm, can	
VPS-5230-RK2	VERTICALE Reduction Screw 5.2 x 30 mm, can	
VPS-5235-RF2	VERTICALE Reduction Screw 5.2 x 35 mm, can+fen	
VPS-5240-RF2	VERTICALE Reduction Screw 5.2 x 40 mm, can+fen	Ų
VPS-5245-RF2	VERTICALE Reduction Screw 5.2 x 45 mm, can+fen	
VPS-5250-RF2	VERTICALE Reduction Screw 5.2 x 50 mm, can+fen	9
VPS-5255-RF2	VERTICALE Reduction Screw 5.2 x 55 mm, can+fen	-
VPS-5260-RF2	VERTICALE Reduction Screw 5.2 x 60 mm, can+fen	
VPS-6225-RK2	VERTICALE Reduction Screw 6.2 x 25 mm, can	
VPS-6230-RK2	VERTICALE Reduction Screw 6.2 x 30 mm, can	11
VPS-6235-RF2	VERTICALE Reduction Screw 6.2 x 35 mm, can+fen	
VPS-6240-RF2	VERTICALE Reduction Screw 6.2 x 40 mm, can+fen	Ų
VPS-6245-RF2	VERTICALE Reduction Screw 6.2 x 45 mm, can+fen	
VPS-6250-RF2	VERTICALE Reduction Screw 6.2 x 50 mm, can+fen	***
VPS-6255-RF2	VERTICALE Reduction Screw 6.2 x 55 mm, can+fen	*
VPS-6260-RF2	VERTICALE Reduction Screw 6.2 x 60 mm, can+fen	
VPS-7225-RK2	VERTICALE Reduction Screw 7.2 x 25 mm, can	
VPS-7230-RK2	VERTICALE Reduction Screw 7.2 x 30 mm, can	
VPS-7235-RF2	VERTICALE Reduction Screw 7.2 x 35 mm, can+fen	11
VPS-7240-RF2	VERTICALE Reduction Screw 7.2 x 40 mm, can+fen	11
VPS-7245-RF2	VERTICALE Reduction Screw 7.2 x 45 mm, can+fen	Å
VPS-7250-RF2	VERTICALE Reduction Screw 7.2 x 50 mm, can+fen	
VPS-7255-RF2	VERTICALE Reduction Screw 7.2 x 55 mm, can+fen	
VPS-7260-RF2	VERTICALE Reduction Screw 7.2 x 60 mm, can+fen	₹
VPS-7270-RF2	VERTICALE Reduction Screw 7.2 x 70 mm, can+fen	
VPS-7280-RF2	VERTICALE Reduction Screw 7.2 x 80 mm, can+fen	

System: VERTICALE

Implant type: Pedicle screw

Typing: Polyaxial, reduction, cannulated and fenestrated shaft



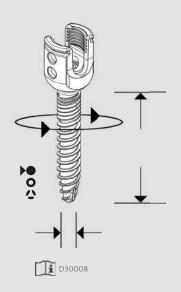
System: VERTICALE

Implant type: Pedicle screw

Typing: Polyaxial ST, solid shaft

Material: Ti6Al4V ELI

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



Article number	Description	Illustration
VPS-4525-S2	VERTICALE Poly screw ST 4.5 x 25 mm, solid	3.5
VPS-4530-S2	VERTICALE Poly screw ST 4.5 x 30 mm, solid	u
VPS-4535-S2	VERTICALE Poly screw ST 4.5 x 35 mm, solid	
VPS-4540-S2	VERTICALE Poly screw ST 4.5 x 40 mm, solid	
VPS-4545-S2	VERTICALE Poly screw ST 4.5 x 45 mm, solid	9999
VPS-4550-S2	VERTICALE Poly screw ST 4.5 x 50 mm, solid	
VPS-5225-S2	VERTICALE Poly screw ST 5.2 x 25 mm, solid	
VPS-5230-S2	VERTICALE Poly screw ST 5.2 x 30 mm, solid	11
VPS-5235-S2	VERTICALE Poly screw ST 5.2 x 35 mm, solid	¥
VPS-5240-S2	VERTICALE Poly screw ST 5.2 x 40 mm, solid	
VPS-5245-S2	VERTICALE Poly screw ST 5.2 x 45 mm, solid	999
VPS-5250-S2	VERTICALE Poly screw ST 5.2 x 50 mm, solid	8900
VPS-5255-S2	VERTICALE Poly screw ST 5.2 x 55 mm, solid	- ¥
VPS-5260-S2	VERTICALE Poly screw ST 5.2 x 60 mm, solid	
VPS-6225-S2	VERTICALE Poly screw ST 6.2 x 25 mm, solid	
VPS-6230-S2	VERTICALE Poly screw ST 6.2 x 30 mm, solid	20.70
VPS-6235-S2	VERTICALE Poly screw ST 6.2 x 35 mm, solid	u
VPS-6240-S2	VERTICALE Poly screw ST 6.2 x 40 mm, solid	
VPS-6245-S2	VERTICALE Poly screw ST 6.2 x 45 mm, solid	950
VPS-6250-S2	VERTICALE Poly screw ST 6.2 x 50 mm, solid	999
VPS-6255-S2	VERTICALE Poly screw ST 6.2 x 55 mm, solid	- Miles
VPS-6260-S2	VERTICALE Poly screw ST 6.2 x 60 mm, solid	
VPS-7225-S2	VERTICALE Poly screw ST 7.2 x 25 mm, solid	
VPS-7230-S2	VERTICALE Poly screw ST 7.2 x 30 mm, solid	
VPS-7235-S2	VERTICALE Poly screw ST 7.2 x 35 mm, solid	11
VPS-7240-S2	VERTICALE Poly screw ST 7.2 x 40 mm, solid	
VPS-7245-S2	VERTICALE Poly screw ST 7.2 x 45 mm, solid	
VPS-7250-S2	VERTICALE Poly screw ST 7.2 x 50 mm, solid	300
VPS-7255-S2	VERTICALE Poly screw ST 7.2 x 55 mm, solid	*
VPS-7260-S2	VERTICALE Poly screw ST 7.2 x 60 mm, solid	
VPS-7270-S2	VERTICALE Poly screw ST 7.2 x 70 mm, solid	
VPS-7280-S2	VERTICALE Poly screw ST 7.2 x 80 mm, solid	

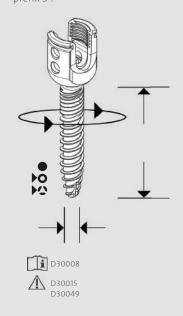
Article number	Description	Illustration
VPS-4525-K2	VERTICALE Poly Screw ST 4.5 x 25 mm, can	
VPS-4530-K2	VERTICALE Poly Screw ST 4.5 x 30 mm, can	U
VPS-4535-K2	VERTICALE Poly Screw ST 4.5 x 35 mm, can	T
VPS-4540-K2	VERTICALE Poly Screw ST 4.5 x 40 mm, can	8000
VPS-4545-K2	VERTICALE Poly Screw ST 4.5 x 45 mm, can	9999
VPS-4550-K2	VERTICALE Poly Screw ST 4.5 x 50 mm, can	8
VPS-5225-K2	VERTICALE Poly Screw ST 5.2 x 25 mm, can	
VPS-5230-K2	VERTICALE Poly Screw ST 5.2 x 30 mm, can	1.1
VPS-5235-KF2	VERTICALE Poly Screw ST 5.2 x 35 mm, can+fen	
VPS-5240-KF2	VERTICALE Poly Screw ST 5.2 x 40 mm, can+fen	888
VPS-5245-KF2	VERTICALE Poly Screw ST 5.2 x 45 mm, can+fen	0000
VPS-5250-KF2	VERTICALE Poly Screw ST 5.2 x 50 mm, can+fen	general contract of the contra
VPS-5255-KF2	VERTICALE Poly Screw ST 5.2 x 55 mm, can+fen	
VPS-5260-KF2	VERTICALE Poly Screw ST 5.2 x 60 mm, can+fen	
VPS-6225-K2	VERTICALE Poly Screw ST 6.2 x 25 mm, can	
VPS-6230-K2	VERTICALE Poly Screw ST 6.2 x 30 mm, can	3 6
VPS-6235-KF2	VERTICALE Poly Screw ST 6.2 x 35 mm, can+fen	<u>U</u>
VPS-6240-KF2	VERTICALE Poly Screw ST 6.2 x 40 mm, can+fen	
VPS-6245-KF2	VERTICALE Poly Screw ST 6.2 x 45 mm, can+fen	999
VPS-6250-KF2	VERTICALE Poly Screw ST 6.2 x 50 mm, can+fen	95
VPS-6255-KF2	VERTICALE Poly Screw ST 6.2 x 55 mm, can+fen	3
VPS-6260-KF2	VERTICALE Poly Screw ST 6.2 x 60 mm, can+fen	
VPS-7225-K2	VERTICALE Poly Screw ST 7.2 x 25 mm, can	
VPS-7230-K2	VERTICALE Poly Screw ST 7.2 x 30 mm, can	
VPS-7235-KF2	VERTICALE Poly Screw ST 7.2 x 35 mm, can+fen	11
VPS-7240-KF2	VERTICALE Poly Screw ST 7.2 x 40 mm, can+fen	¥
VPS-7245-KF2	VERTICALE Poly Screw ST 7.2 x 45 mm, can+fen	
VPS-7250-KF2	VERTICALE Poly Screw ST 7.2 x 50 mm, can+fen	
VPS-7255-KF2	VERTICALE Poly Screw ST 7.2 x 55 mm, can+fen	
VPS-7260-KF2	VERTICALE Poly Screw ST 7.2 x 60 mm, can+fen	
VPS-7270-KF2	VERTICALE Poly Screw ST 7.2 x 70 mm, can+fen	
VPS-7280-KF2	VERTICALE Poly Screw ST 7.2 x 80 mm, can+fen	

System: VERTICALE

Implant type: Pedicle screw

Typing: Polyaxial ST, cannulated and fenestrated shaft

Material: Ti6Al4V ELI

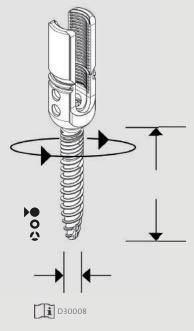


System: VERTICALE

Implant type: Pedicle screw

Typing: Polyaxial ST, reduction, solid shaft

Material: Ti6Al4V ELI



Article number	Description	Illustration
VPS-4525-RS3	VERTICALE Reduction Screw ST 4.5 x 25 mm, solid	
VPS-4530-RS3	VERTICALE Reduction Screw ST 4.5 x 30 mm, solid	
VPS-4535-RS3	VERTICALE Reduction Screw ST 4.5 x 35 mm, solid	Ų
VPS-4540-RS3	VERTICALE Reduction Screw ST 4.5 x 40 mm, solid	
VPS-4545-RS3	VERTICALE Reduction Screw ST 4.5 x 45 mm, solid	8
VPS-4550-RS3	VERTICALE Reduction Screw ST 4.5 x 50 mm, solid	9
VPS-5225-RS3	VERTICALE Reduction Screw ST 5.2 x 25 mm, solid	
VPS-5230-RS3	VERTICALE Reduction Screw ST 5.2 x 30 mm, solid	
VPS-5235-RS3	VERTICALE Reduction Screw ST 5.2 x 35 mm, solid	
VPS-5240-RS3	VERTICALE Reduction Screw ST 5.2 x 40 mm, solid	U
VPS-5245-RS3	VERTICALE Reduction Screw ST 5.2 x 45 mm, solid	T
VPS-5250-RS3	VERTICALE Reduction Screw ST 5.2 x 50 mm, solid	96
VPS-5255-RS3	VERTICALE Reduction Screw ST 5.2 x 55 mm, solid	88900
VPS-5260-RS3	VERTICALE Reduction Screw ST 5.2 x 60 mm, solid	
VPS-6225-RS3	VERTICALE Reduction Screw ST 6.2 x 25 mm, solid	
VPS-6230-RS3	VERTICALE Reduction Screw ST 6.2 x 30 mm, solid	
VPS-6235-RS3	VERTICALE Reduction Screw ST 6.2 x 35 mm, solid	
VPS-6240-RS3	VERTICALE Reduction Screw ST 6.2 x 40 mm, solid	U
VPS-6245-RS3	VERTICALE Reduction Screw ST 6.2 x 45 mm, solid	
VPS-6250-RS3	VERTICALE Reduction Screw ST 6.2 x 50 mm, solid	9
VPS-6255-RS3	VERTICALE Reduction Screw ST 6.2 x 55 mm, solid	8
VPS-6260-RS3	VERTICALE Reduction Screw ST 6.2 x 60 mm, solid	
VPS-7225-RS3	VERTICALE Reduction Screw ST 7.2 x 25 mm, solid	
VPS-7230-RS3	VERTICALE Reduction Screw ST 7.2 x 30 mm, solid	
VPS-7235-RS3	VERTICALE Reduction Screw ST 7.2 x 35 mm, solid	11
VPS-7240-RS3	VERTICALE Reduction Screw ST 7.2 x 40 mm, solid	
VPS-7245-RS3	VERTICALE Reduction Screw ST 7.2 x 45 mm, solid	¥
VPS-7250-RS3	VERTICALE Reduction Screw ST 7.2 x 50 mm, solid	
VPS-7255-RS3	VERTICALE Reduction Screw ST 7.2 x 55 mm, solid	999
VPS-7260-RS3	VERTICALE Reduction Screw ST 7.2 x 60 mm, solid	#
VPS-7270-RS3	VERTICALE Reduction Screw ST 7.2 x 70 mm, solid	
VPS-7280-RS3	VERTICALE Reduction Screw ST 7.2 x 80 mm, solid	

Article number	Description	Illustration
VPS-4525-RK3	VERTICALE Reduction Screw ST 4.5 x 25 mm, can	
VPS-4530-RK3	VERTICALE Reduction Screw ST 4.5 x 30 mm, can] [
VPS-4535-RK3	VERTICALE Reduction Screw ST 4.5 x 35 mm, can	Ų
VPS-4540-RK3	VERTICALE Reduction Screw ST 4.5 x 40 mm, can	
VPS-4545-RK3	VERTICALE Reduction Screw ST 4.5 x 45 mm, can	00000
VPS-4550-RK3	VERTICALE Reduction Screw ST 4.5 x 50 mm, can	8
VPS-5225-RK3	VERTICALE Reduction Screw ST 5.2 x 25 mm, can	
VPS-5230-RK3	VERTICALE Reduction Screw ST 5.2 x 30 mm, can	- 11
VPS-5235-RF3	VERTICALE Reduction Screw ST 5.2 x 35 mm, can+fen	
VPS-5240-RF3	VERTICALE Reduction Screw ST 5.2 x 40 mm, can+fen	Ų
VPS-5245-RF3	VERTICALE Reduction Screw ST 5.2 x 45 mm, can+fen	
VPS-5250-RF3	VERTICALE Reduction Screw ST 5.2 x 50 mm, can+fen	
VPS-5255-RF3	VERTICALE Reduction Screw ST 5.2 x 55 mm, can+fen	•
VPS-5260-RF3	VERTICALE Reduction Screw ST 5.2 x 60 mm, can+fen	
VPS-6225-RK3	VERTICALE Reduction Screw ST 6.2 x 25 mm, can	
VPS-6230-RK3	VERTICALE Reduction Screw ST 6.2 x 30 mm, can	11
VPS-6235-RF3	VERTICALE Reduction Screw ST 6.2 x 35 mm, can+fen	
VPS-6240-RF3	VERTICALE Reduction Screw ST 6.2 x 40 mm, can+fen	¥
VPS-6245-RF3	VERTICALE Reduction Screw ST 6.2 x 45 mm, can+fen	
VPS-6250-RF3	VERTICALE Reduction Screw ST 6.2 x 50 mm, can+fen	
VPS-6255-RF3	VERTICALE Reduction Screw ST 6.2 x 55 mm, can+fen	*
VPS-6260-RF3	VERTICALE Reduction Screw ST 6.2 x 60 mm, can+fen	
VPS-7225-RK3	VERTICALE Reduction Screw ST 7.2 x 25 mm, can	
VPS-7230-RK3	VERTICALE Reduction Screw ST 7.2 x 30 mm, can	
VPS-7235-RF3	VERTICALE Reduction Screw ST 7.2 x 35 mm, can+fen	- 11
VPS-7240-RF3	VERTICALE Reduction Screw ST 7.2 x 40 mm, can+fen	U
VPS-7245-RF3	VERTICALE Reduction Screw ST 7.2 x 45 mm, can+fen	
VPS-7250-RF3	VERTICALE Reduction Screw ST 7.2 x 50 mm, can+fen	
VPS-7255-RF3	VERTICALE Reduction Screw ST 7.2 x 55 mm, can+fen	
VPS-7260-RF3	VERTICALE Reduction Screw ST 7.2 x 60 mm, can+fen	*
VPS-7270-RF3	VERTICALE Reduction Screw ST 7.2 x 70 mm, can+fen	
VPS-7280-RF3	VERTICALE Reduction Screw ST 7.2 x 80 mm, can+fen	

System: VERTICALE

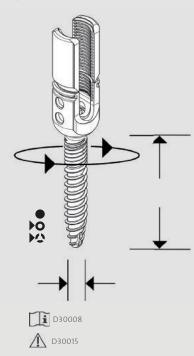
Implant type: Pedicle screw

Typing: Polyaxial ST, reduction, cannulated and fenestrated shaft

Material: Ti6Al4V ELI

All articles are also available as a sterile variant.

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



System: VERTICALE

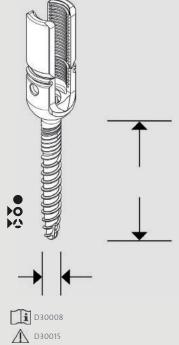
Implant type: Pedicle screw

Typing: Monoaxial, reduction, cannulated and fenestrated shaft

Material: Ti6Al4V ELI

All articles are also available as a sterile variant.

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



Article number	Description	Illustration
VFS-4525-RK2	VERTICALE Mono Reduction Screw 4.5 x 25 mm, can	
VFS-4530-RK2	VERTICALE Mono Reduction Screw 4.5 x 30 mm, can] [
VFS-4535-RK2	VERTICALE Mono Reduction Screw 4.5 x 35 mm, can	Ų
VFS-4540-RK2	VERTICALE Mono Reduction Screw 4.5 x 40 mm, can	
VFS-4545-RK2	VERTICALE Mono Reduction Screw 4.5 x 45 mm, can	8
VFS-4550-RK2	VERTICALE Mono Reduction Screw 4.5 x 50 mm, can	*
VFS-5225-RK2	VERTICALE Mono Reduction Screw 5.2 x 25 mm, can	
VFS-5230-RK2	VERTICALE Mono Reduction Screw 5.2 x 30 mm, can	11
VFS-5235-RF2	VERTICALE Mono Reduction Screw 5.2 x 35 mm, can+fen	- 11
VFS-5240-RF2	VERTICALE Mono Reduction Screw 5.2 x 40 mm, can+fen	Ų
VFS-5245-RF2	VERTICALE Mono Reduction Screw 5.2 x 45 mm, can+fen	
VFS-5250-RF2	VERTICALE Mono Reduction Screw 5.2 x 50 mm, can+fen	
VFS-5255-RF2	VERTICALE Mono Reduction Screw 5.2 x 55 mm, can+fen	•
VFS-5260-RF2	VERTICALE Mono Reduction Screw 5.2 x 60 mm, can+fen	
VFS-6225-RK2	VERTICALE Mono Reduction Screw 6.2 x 25 mm, can	
VFS-6230-RK2	VERTICALE Mono Reduction Screw 6.2 x 30 mm, can	1.1
VFS-6235-RF2	VERTICALE Mono Reduction Screw 6.2 x 35 mm, can+fen	
VFS-6240-RF2	VERTICALE Mono Reduction Screw 6.2 x 40 mm, can+fen	U
VFS-6245-RF2	VERTICALE Mono Reduction Screw 6.2 x 45 mm, can+fen	
VFS-6250-RF2	VERTICALE Mono Reduction Screw 6.2 x 50 mm, can+fen	
VFS-6255-RF2	VERTICALE Mono Reduction Screw 6.2 x 55 mm, can+fen	*
VFS-6260-RF2	VERTICALE Mono Reduction Screw 6.2 x 60 mm, can+fen	
VFS-7225-RK2	VERTICALE Mono Reduction Screw 7.2 x 25 mm, can	
VFS-7230-RK2	VERTICALE Mono Reduction Screw 7.2 x 30 mm, can	
VFS-7235-RF2	VERTICALE Mono Reduction Screw 7.2 x 35 mm, can+fen	- 11
VFS-7240-RF2	VERTICALE Mono Reduction Screw 7.2 x 40 mm, can+fen	11
VFS-7245-RF2	VERTICALE Mono Reduction Screw 7.2 x 45 mm, can+fen	Ų
VFS-7250-RF2	VERTICALE Mono Reduction Screw 7.2 x 50 mm, can+fen	
VFS-7255-RF2	VERTICALE Mono Reduction Screw 7.2 x 55 mm, can+fen	
VFS-7260-RF2	VERTICALE Mono Reduction Screw 7.2 x 60 mm, can+fen	Ŧ
VFS-7270-RF2	VERTICALE Mono Reduction Screw 7.2 x 70 mm, can+fen	
VFS-7280-RF2	VERTICALE Mono Reduction Screw 7.2 x 80 mm, can+fen	

Article number	Description	Illustration
VFS-8225-RK2	VERTICALE Mono Reduction Screw 8.2 x 25 mm, can+fen	
VFS-8230-RK2	VERTICALE Mono Reduction Screw 8.2 x 30 mm, can+fen	
VFS-8235-RF2	VERTICALE Mono Reduction Screw 8.2 x 35 mm, can+fen	
VFS-8240-RF2	VERTICALE Mono Reduction Screw 8.2 x 40 mm, can+fen	l II
VFS-8245-RF2	VERTICALE Mono Reduction Screw 8.2 x 45 mm, can+fen	U
VFS-8250-RF2	VERTICALE Mono Reduction Screw 8.2 x 50 mm, can+fen	
VFS-8255-RF2	VERTICALE Mono Reduction Screw 8.2 x 55 mm, can+fen	
VFS-8260-RF2	VERTICALE Mono Reduction Screw 8.2 x 60 mm, can+fen	
VFS-8270-RF2	VERTICALE Mono Reduction Screw 8.2 x 70 mm, can+fen	•
VFS-8280-RF2	VERTICALE Mono Reduction Screw 8.2 x 80 mm, can+fen	
VFS-8290-RF2	VERTICALE Mono Reduction Screw 8.2 x 90 mm, can+fen	
VFS-8210-RF2	VERTICALE Mono Reduction Screw 8.2 x 100 mm, can+fen	
VFS-9225-RK2	VERTICALE Mono Reduction Screw 9.2 x 25 mm, can+fen	
VFS-9230-RK2	VERTICALE Mono Reduction Screw 9.2 x 30 mm, can+fen	
VFS-9235-RF2	VERTICALE Mono Reduction Screw 9.2 x 35 mm, can+fen	- 11
VFS-9240-RF2	VERTICALE Mono Reduction Screw 9.2 x 40 mm, can+fen	11
VFS-9245-RF2	VERTICALE Mono Reduction Screw 9.2 x 45 mm, can+fen	
VFS-9250-RF2	VERTICALE Mono Reduction Screw 9.2 x 50 mm, can+fen	
VFS-9255-RF2	VERTICALE Mono Reduction Screw 9.2 x 55 mm, can+fen	
VFS-9260-RF2	VERTICALE Mono Reduction Screw 9.2 x 60 mm, can+fen	*
VFS-9270-RF2	VERTICALE Mono Reduction Screw 9.2 x 70 mm, can+fen	
VFS-9280-RF2	VERTICALE Mono Reduction Screw 9.2 x 80 mm, can+fen	
VFS-9290-RF2	VERTICALE Mono Reduction Screw 9.2 x 90 mm, can+fen	
VFS-9210-RF2	VERTICALE Mono Reduction Screw 9.2 x 100 mm, can+fen	
VFS-0225-RF2	VERTICALE Mono Reduction Screw 10.2 x 25 mm, can+fen	
VFS-0230-RF2	VERTICALE Mono Reduction Screw 10.2 x 30 mm, can+fen	
VFS-0235-RF2	VERTICALE Mono Reduction Screw 10.2 x 35 mm, can+fen	
VFS-0240-RF2	VERTICALE Mono Reduction Screw 10.2 x 40 mm, can+fen	- 11
VFS-0245-RF2	VERTICALE Mono Reduction Screw 10.2 x 45 mm, can+fen	11
VFS-0250-RF2	VERTICALE Mono Reduction Screw 10.2 x 50 mm, can+fen	
VFS-0255-RF2	VERTICALE Mono Reduction Screw 10.2 x 55 mm, can+fen	=
VFS-0260-RF2	VERTICALE Mono Reduction Screw 10.2 x 60 mm, can+fen	*
VFS-0270-RF2	VERTICALE Mono Reduction Screw 10.2 x 70 mm, can+fen	₹
VFS-0280-RF2	VERTICALE Mono Reduction Screw 10.2 x 80 mm, can+fen	
VFS-0290-RF2	VERTICALE Mono Reduction Screw 10.2 x 90 mm, can+fen	
VFS-0210-RF2	VERTICALE Mono Reduction Screw 10.2 x 100 mm, can+fen	

System: VERTICALE

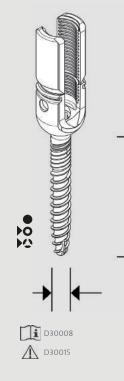
Implant type: Pedicle screw

Typing: Monoaxial, reduction, cannulated and fenestrated shaft

Material: Ti6Al4V ELI

All articles are also available as a sterile variant.

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



System: VERTICALE

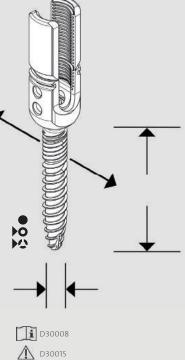
Implant type: Pedicle screw

Typing: Uniplanar, reduction, cannulated and fenestrated shaft

Material: Ti6Al4V ELI

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

All articles are also



	Article number	Description	Illustration
	VUS-4525-RK2	VERTICALE Uni Reduction Screw 4.5 x 25 mm, can	
	VUS-4530-RK2	VERTICALE Uni Reduction Screw 4.5 x 30 mm, can	IJ
	VUS-4535-RK2	VERTICALE Uni Reduction Screw 4.5 x 35 mm, can	U
	VUS-4540-RK2	VERTICALE Uni Reduction Screw 4.5 x 40 mm, can	
	VUS-4545-RK2	VERTICALE Uni Reduction Screw 4.5 x 45 mm, can	8
	VUS-4550-RK2	VERTICALE Uni Reduction Screw 4.5 x 50 mm, can	*
	VUS-5225-RK2	VERTICALE Uni Reduction Screw 5.2 x 25 mm, can	
	VUS-5230-RK2	VERTICALE Uni Reduction Screw 5.2 x 30 mm, can	
	VUS-5235-RF2	VERTICALE Uni Reduction Screw 5.2 x 35 mm, can+fen	
	VUS-5240-RF2	VERTICALE Uni Reduction Screw 5.2 x 40 mm, can+fen	U
	VUS-5245-RF2	VERTICALE Uni Reduction Screw 5.2 x 45 mm, can+fen	
	VUS-5250-RF2	VERTICALE Uni Reduction Screw 5.2 x 50 mm, can+fen	000
	VUS-5255-RF2	VERTICALE Uni Reduction Screw 5.2 x 55 mm, can+fen	8000
	VUS-5260-RF2	VERTICALE Uni Reduction Screw 5.2 x 60 mm, can+fen	
	VUS-6225-RK2	VERTICALE Uni Reduction Screw 6.2 x 25 mm, can	
	VUS-6230-RK2	VERTICALE Uni Reduction Screw 6.2 x 30 mm, can	
eć.	VUS-6235-RF2	VERTICALE Uni Reduction Screw 6.2 x 35 mm, can+fen	
	VUS-6240-RF2	VERTICALE Uni Reduction Screw 6.2 x 40 mm, can+fen	¥
	VUS-6245-RF2	VERTICALE Uni Reduction Screw 6.2 x 45 mm, can+fen	
	VUS-6250-RF2	VERTICALE Uni Reduction Screw 6.2 x 50 mm, can+fen	98
-1	VUS-6255-RF2	VERTICALE Uni Reduction Screw 6.2 x 55 mm, can+fen	100
	VUS-6260-RF2	VERTICALE Uni Reduction Screw 6.2 x 60 mm, can+fen	
	VUS-7225-RF2	VERTICALE Uni Reduction Screw 7.2 x 25 mm, can+fen	
	VUS-7230-RF2	VERTICALE Uni Reduction Screw 7.2 x 30 mm, can+fen	
	VUS-7235-RF2	VERTICALE Uni Reduction Screw 7.2 x 35 mm, can+fen	
	VUS-7240-RF2	VERTICALE Uni Reduction Screw 7.2 x 40 mm, can+fen	
	VUS-7245-RF2	VERTICALE Uni Reduction Screw 7.2 x 45 mm, can+fen	
	VUS-7250-RF2	VERTICALE Uni Reduction Screw 7.2 x 50 mm, can+fen	
	VUS-7255-RF2	VERTICALE Uni Reduction Screw 7.2 x 55 mm, can+fen	100
	VUS-7260-RF2	VERTICALE Uni Reduction Screw 7.2 x 60 mm, can+fen	要
	VUS-7270-RF2	VERTICALE Uni Reduction Screw 7.2 x 70 mm, can+fen	
	VUS-7280-RF2	VERTICALE Uni Reduction Screw 7.2 x 80 mm, can+fen	

Article number	Description	Illustration
VPS-8225-RF3	VERTICALE Reduction Screw ST 8.2 x 25 mm, can+fen	
VPS-8230-RF3	VERTICALE Reduction Screw ST 8.2 x 30 mm, can+fen	
VPS-8235-RF3	VERTICALE Reduction Screw ST 8.2 x 35 mm, can+fen	
VPS-8240-RF3	VERTICALE Reduction Screw ST 8.2 x 40 mm, can+fen	
VPS-8245-RF3	VERTICALE Reduction Screw ST 8.2 x 45 mm, can+fen	- Committee of the Comm
VPS-8250-RF3	VERTICALE Reduction Screw ST 8.2 x 50 mm, can+fen	
VPS-8255-RF3	VERTICALE Reduction Screw ST 8.2 x 55 mm, can+fen	
VPS-8260-RF3	VERTICALE Reduction Screw ST 8.2 x 60 mm, can+fen	
VPS-9225-RF3	VERTICALE Reduction Screw ST 9.2 x 25 mm, can+fen	
VPS-9230-RF3	VERTICALE Reduction Screw ST 9.2 x 30 mm, can+fen	
VPS-9235-RF3	VERTICALE Reduction Screw ST 9.2 x 35 mm, can+fen	
VPS-9240-RF3	VERTICALE Reduction Screw ST 9.2 x 40 mm, can+fen	
VPS-9245-RF3	VERTICALE Reduction Screw ST 9.2 x 45 mm, can+fen	
VPS-9250-RF3	VERTICALE Reduction Screw ST 9.2 x 50 mm, can+fen	
VPS-9255-RF3	VERTICALE Reduction Screw ST 9.2 x 55 mm, can+fen	
VPS-9260-RF3	VERTICALE Reduction Screw ST 9.2 x 60 mm, can+fen	
VPS-0225-RF3	VERTICALE Reduction Screw ST 10.2 x 25 mm, can+fen	
VPS-0230-RF3	VERTICALE Reduction Screw ST 10.2 x 30 mm, can+fen	
VPS-0235-RF3	VERTICALE Reduction Screw ST 10.2 x 35 mm, can+fen	
VPS-0240-RF3	VERTICALE Reduction Screw ST 10.2 x 40 mm, can+fen	
VPS-0245-RF3	VERTICALE Reduction Screw ST 10.2 x 45 mm, can+fen	
VPS-0250-RF3	VERTICALE Reduction Screw ST 10.2 x 50 mm, can+fen	
VPS-0255-RF3	VERTICALE Reduction Screw ST 10.2 x 55 mm, can+fen	
VPS-0260-RF3	VERTICALE Reduction Screw ST 10.2 x 60 mm, can+fen	

System: VERTICALE

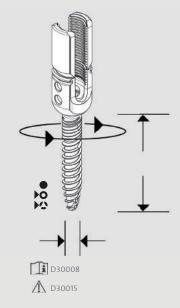
Implant type: Pedicle screw

Typing: Polyaxial ST, reduction, cannulated and fenestrated shaft

Material: Ti6Al4V ELI

All articles are also available as a sterile variant. The article number is

then preceded by the prefix S-.

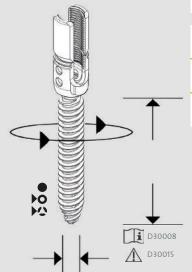


System: VERTICALE

Implant type: Iliac screw

Typing: Ilium reduction, solid, cannulated and fenestrated shaft

Material: Ti6Al4V ELI



	Article number	Description	Illustration
	VIS-8270-RF2	VERTICALE Iliac Reduction Screw 8.2 x 70 mm, can+fen	
	VIS-8280-RF2	VERTICALE Iliac Reduction Screw 8.2 x 80 mm, can+fen	
	VIS-8290-RF2	VERTICALE Iliac Reduction Screw 8.2 x 90 mm, can+fen	
	VIS-8210-RF2	VERTICALE Iliac Reduction Screw 8.2 x 100 mm, can+fen	
	VIS-9270-RF2	VERTICALE Iliac Reduction Screw 9.2 x 70 mm, can+fen	
	VIS-9280-RF2	VERTICALE Iliac Reduction Screw 9.2 x 80 mm, can+fen	
	VIS-9290-RF2	VERTICALE Iliac Reduction Screw 9.2 x 90 mm, can+fen	*imminimizin*
	VIS-9210-RF2	VERTICALE Iliac Reduction Screw 9.2 x 100 mm, can+fen	
	VIS-0270-RF2	VERTICALE Iliac Reduction Screw 10.2 x 70 mm, can+fen	
	VIS-0280-RF2	VERTICALE Iliac Reduction Screw 10.2 x 80 mm, can+fen	
	VIS-0290-RF2	VERTICALE Iliac Reduction Screw 10.2 x 90 mm, can+fen	***************************************
	VIS-0210-RF2	VERTICALE Iliac Reduction Screw 10.2 x 100 mm, can+fen	
	VIV-5535-S1	VERTICALE Iliac Connector 5.5 x 35 mm, solid	W
	VIV-5545-S1	VERTICALE Iliac Connector 5.5 x 45 mm, solid	-
-	VMS-2025	VERTICALE Set Screw 1S Torx 25	

Article number	Description	Illustration	System: VERTICALE
VST-0040-T	VERTICALE Rod curved 5.5 / 40 mm Ti		Implant type:
VST-0045-T	VERTICALE Rod curved 5.5 / 45 mm Ti		Rod
VST-0050-T	VERTICALE Rod curved 5.5 / 50 mm Ti		Typing:
VST-0055-T	VERTICALE Rod curved 5.5 / 55 mm Ti	11111111	curved
VST-0065-T	VERTICALE Rod curved 5.5 / 65 mm Ti	1111111	Material:
VST-0075-T	VERTICALE Rod curved 5.5 / 75 mm Ti	/	Ti6Al4V ELI
VST-0085-T	VERTICALE Rod curved 5.5 / 85 mm Ti		All articles are also
VST-0095-T	VERTICALE Rod curved 5.5 / 95 mm Ti		variant.
			The article number is then preceded by the
VST-0200-T	VERTICALE Rod straight 5.5 / 200 mm Ti		prefix S
VST-0300-T	VERTICALE Rod straight 5.5 / 300 mm Ti		Material:
VST-0470-T	VERTICALE Rod straight 5.5 / 470 mm Ti		Ti6Al4V ELI
VST-0300-C	VERTICALE Rod straight 5.5 / 300 mm CoCr		Material: CoCr
VST-0470-C	VERTICALE Rod straight 5.5 / 470 mm CoCr		

Note:

All curved VERTICALE Rods have a decagonal end on one side. The straight VERTICALE Rods have decagonal ends on both sides.

Article number	Description	Illustration
VQV-0001	VERTICALE Cross Connector incl. Set Screw	3
VQS-0050	VERTICALE CC Rod 50 mm	
VQS-0060	VERTICALE CC Rod 60 mm	
VQS-0070	VERTICALE CC Rod 70 mm	
VQS-0080	VERTICALE CC Rod 80 mm	
VQS-0090	VERTICALE CC Rod 90 mm	
VSV-5555-INK	VERTICALE RC Inline short 5.5 / 5.5 mm*	
VSV-5555-INL	VERTICALE RC Inline long 5.5 / 5.5 mm*	
VSV-5555-DO	VERTICALE RC Domino 5.5 / 5.5 mm*	
VSV-5555-INM	VERTICALE RC Inline medium 5.5 / 5.5 mm*	
VSV-5555-KM	VERTICALE RC Kyphosis medium 5.5 / 5.5 mm*	
	* includes VMS-7020 Set Screws	
VMS-2025	VERTICALE Set Screw 1S Torx 20	

System: VERTICALE

Implant type: Connector

Typing: Cross connector, rod connector

Material: Ti6Al4V ELI

Article number	Description	Illustration	Page
VI-1010	VERTICALE Triangular Awl		8
VI-1020	VERTICALE Probe		8,9
VI-1022	VERTICALE Probe, blunt		8,9
VI-1024	VERTICALE Probe, blunt + curved		8,9
VI-1025	VERTICALE Probe, narrow		8,9
VI-1026	VERTICALE Probe, square end + straight		8,9
VI-1027	VERTICALE Probe, heptagon end + straight		8,9
VI-1028	VERTICALE Probe, square end + curved		8,9
VI-1029	VERTICALE Probe, heptagon end + curved		8,9
VI-1030	VERTICALE Iliac Probe		8, 9, 29
VI-1034	VERTICALE Tap 4.5 mm		10
VI-1035	VERTICALE Tap 5.2 mm		10
VI-1036	VERTICALE Tap 6.2 mm		10
VI-1037	VERTICALE Tap 7.2 mm		10
VI-1040	VERTICALE Pedicle Feeler (double-probe)		9
VI-1043	VERTICALE Pedicle Feeler 2.3 mm		9
VI-1045	VERTICALE Tap 4.5 + 5.2 mm		10

Article number	Description	Illustration	Page
VI-1048	VERTICALE Pedicle Feeler 2.8 mm		9
VI-1060	VERTICALE Guide Wire Diamand Tip	No image	
VI-1067	VERTICALE Tap 6.2 + 7.2 mm		10
VI-1070	VERTICALE Guide Wire Round Tip	No image	
VI-1089	VERTICALE Tap 8.2 + 9.2 mm		10
VI-1102	VERTICALE Tap 10.2 mm		10
VI-1110	VERTICALE Polyaxial Screwdriver		12, 13, 14
VI-1130	VERTICALE Screw Driver T25	1.3	12, 13, 14
VI-1135	VERTICALE SD Disassembly Tool		See D30030
VI-1145	VERTICALE Tap 4.5 + 5.2 mm, cannulated	N. C.	10
VI-1160	VERTICALE Break-Off Tool		26
VI-1167	VERTICALE Tap 6.2 + 7.2 mm, cannulated		10
VI-1189	VERTICALE Tap 8.2 + 9.2 mm, cannulated		10, 29
VI-1202	VERTICALE Tap 10.2 mm, cannulated		10, 29
VI-1260	VERTICALE Rod Cutter, compact, 5.5 mm		17
VI-1270	VERTICALE French Bender	n.i.	15
VI-1320	VERTICALE Rod Holder	300	18

Article number	Description	Illustration	Page
VI-1330	VERTICALE Rod Holder, short	260	18
VI-1340	VERTICALE Rod and Tulip Adjuster		15, 18, 24
VI-1360	VERTICALE Reduction Instrument		22, 23
VI-1361	VERTICALE Reduction Insert		22, 23
VI-1362	VERTICALE Reduction Torx Adapter		22, 23
VI-1363	VERTICALE Reduction Counter Handle	3	22
VI-1365	VERTICALE Reduction Instrument, compact		22
VI-1366	VERTICALE Reduction Insert, compact	3.100	22
VI-1367	VERTICALE Reduction Torx Adapter, compact		22
VI-1368	VERTICALE Reduction Counter Handle, compact		22
VI-1370	VERTICALE Rocker	Ro	23
VI-1410	VERTICALE Protection Sleeve		19, 25
VI-1420	VERTICALE Set Screw Starter		18,19, 23, 25
VI-1430	VERTICALE Set Screw Starter, short, AO		18, 19, 23, 25
VI-1431	VERTICALE Set Screw Starter, long, AO		18,19, 23,25
VI-1445	VERTICALE T25 Screwdriver Shaft		14
VI-1446	VERTICALE T25 SD Shaft bullet head		14

Article number	Description	Illustration	Page
VI-1450	VERTICALE Counter Torque		19, 21
VI-1510	VERTICALE Rod Rotation Wrench	- interest of	24
VI-1530	VERTICALE Rod Gripper		26
VI-1610	VERTICALE Rod Bender	1	15, 24
VI-1620	VERTICALE Distraction Pliers		22
VI-1622	VERTICALE Distraction Pliers, sym. tips		20
VI-1625	VERTICALE Parallel Distractor		20
VI-1630	VERTICALE Compression Pliers	1	20
VI-1632	VERTICALE Compression Pliers, sym. tips	1	20
VI-1635	VERTICALE Parallel Compressor		20
VI-1700	VERTICALE Iliac Connector Gauge	1	29
VI-1800	VERTICALE Counter Torque Iliac Connector		29
VI-1810	VERTICALE T20 Screwdriver 7 Nm		27, 28
VI-1820	VERTICALE Domino Holder	***	28
VI-1830	VERTICALE Rod and Cross Connector Holder	200	27, 28
VI-2440	VERTICALE T25 Torque Limiter 10 Nm		21
VI-2442	VERTICALE T25 Torque Limiter 10 Nm, Org		21

VERTICALE® General Instruments

Article number	Description	Illustration	Page
GI-3111	Ratchet T-Handle		10, 12, 13, 14
GI-3101	T-Handle		10, 12, 13, 14
GI-3211	Ratchet Straight Handle		10, 12, 13, 14
GI-3201	Straight Handle		10, 12, 13, 14
GI-3311	Ratchet Palm Handle		10, 12, 13, 14
GI-3301	Palm Handle		10, 12, 13, 14
GI-2111	Ratchet T-Handle, short		10, 12, 13, 14
GI-2101	T-Handle, short	00	10, 12, 13, 14
GI-2311	Ratchet Palm Handle, short		10, 12, 13, 14
GI-2301	Palm Handle, short		10, 12, 13, 14

VERTICALE® Accessories

Article number	Description
KG.065.01*	Hand Drilling Chuck Ergo small, free passage 2.5 mm
P-1215.001_A**	Power Grip Pliers
P-1216.001_A**	Pistol Approximator

^{*} Manufacturer: MEDE Technik ** Manufacturer: BAAT Medical GmbH

VERTICALE® Alphabetical Index

A–Z	Description	Article number	Page
	Probe	VI-1020	6, 7, PI 16
	Probe, heptagon tip, straight	VI-1027	PI 16
	Probe, heptagon tip, curved	VI-1029	PI 16
	Probe, narrow	VI-1025	6, 7, PI 16
A	Probe, blunt	VI-1022	6, 7, PI 16
B C D F G H	Probe, blunt + curved	VI-1024	6, 7, PI 16
	Probe, square end + curved	VI-1028	6, 7, PI 16
	Probe, square end + straight	VI-1026	6, 7, PI 16
В	Break-off tool	VI-1160	24, PI 17
	Compression Pliers	VI-1630	16, PI 19
	Compression Pliers, sym. tips	VI-1632	16, PI 19
C	Counter Torque	VI-1450	15, 17, PI 19
	Counter Torque Counter Torque Iliac Connector Distraction Pliers Distraction Pliers, sym. tips Domino Holder F French Bender Guide Wire Round Tip Guide Wire Awl Tip V H Straight Handl Iliac Probe Iliac Connector Gauge Palm Handle, short	VI-1800	29, PI 19
	Distraction Pliers	VI-1620	16, PI 19
D	Distraction Pliers, sym. tips	VI-1622	16, PI 19
U	Domino Holder	VI-1820	26, PI 06, PI 19
F	French Bender	VI-1270	13, PI 17
	Guide Wire Round Tip	VI-1070	PI 17
G	Guide Wire Awl Tip	VI-1060	PI 17
н	Straight Handl	GI-3201	8, 10, 11, 12, 22, PI 20
	Iliac Probe	VI-1030	6, 7, PI 16
1	Iliac Connector Gauge	VI-1700	29, PI 19
	Palm Handle	GI-3301	8, 10, 11, 22, PI 20
	Palm Handle, short	GI-2301	8, 10, 11, 22, PI 20
	Parallel Distractor	VI-1625	16, PI 19
	Parallel Compressor	VI-1635	16, PI 19
	Pedicle Feeler 2.3 mm	VI-1043	7, PI 16
P	Pedicle Feeler 2.8 mm	VI-1048	7, PI 17
	Pedicle Feeler (double-probe)	VI-1040	7, PI 16
	Screw Driver T25	VI-1130	10, 11, 12, PI 17
	Polyaxial Screwdriver	VI-1110	10, 11, 12, PI 17
	Protection Sleeve	VI-1410	15, 23, PI 18
	Reduction Counter Handle	VI-1363	18, PI 18
	Reduction Counter Handle, compact	VI-1368	20, PI 18
	Reduction Insert	VI-1361	18, 21, PI 18
	Reduction Insert, compact	VI-1366	19, PI 18
	Reduction Instrument	VI-1360	18, 21, PI 18
R	Reduction Instrument, compact	VI-1365	19, PI 18
	Reduction Torx Adapter	VI-1362	18, PI 18
	Reduction Torx Adapter, compact	VI-1367	20, PI 18
	Ratchet Straight Handle	GI-3211	8, 10, 11, 12, 22, PI 20
	Ratchet Palm Handle	GI-3311	8, 10, 11, 22, PI 20

VERTICALE® Alphabetical Index

A-Z	Description	Article number	Page
	Ratchet Palm Handle, short	GI-2311	8, 10, 11, 22, PI 20
	Ratchet T-Handle	GI-3111	8, 10, 11, 22, PI 20
	Ratchet T-Handle, short	GI-2111	8, 10, 11, 22, PI 20
	Rocker	VI-1370	21, PI 18
	Rod Bender	VI-1610	22, PI 19
	Rod + Cross Connector Holder	VI-1830	25, 26, PI 19
R	Rod + Tulip Adjuster	VI-1340	13, 14, 22, PI 18
	VERTICALE Rod Cutter, compact, 5.5 mm	VI-1260	17
	Rod Holder, short	VI-1330	14, PI 18
	Rod gripper	VI-1530	22, PI 19
	Rod Holder	VI-1320	14, PI 17
	Rod Rotation Wrench	VI-1510	22, PI 19
	SD Disassembly Tool	VI-1135	see D30030
	T25 SD Shaft bullet head	VI-1446	12, PI 18
S	Set Screw Starter	VI-1420	14, 15, 21, 23, PI 18
	Set Screw Starter, short, AO	VI-1430	14, 15, 21, 23, PI 18
	Set Screw Starter, long, AO	VI-1431	14, 15, 21, 23, PI 18
	Tap 4.5 + 5.2 mm	VI-1045	8, PI 16
	Tap 6.2 + 7.2 mm	VI-1067	8, PI 17
	Tap 4.5 + 5.2 mm, cannulated	VI-1145	8, PI 17
	Tap 6.2 + 7.2 mm, cannulated	VI-1167	8, 27, PI 17
	Tap 8.2 + 9.2 mm, cannulated	VI-1189	8, 27, PI 17
	Tap 10.2 mm, cannulated	VI-1202	8, PI 17
	Tap 4.5 mm	VI-1034	8, PI 16
	Tap 5.2 mm	VI-1035	8, PI 16
т	Tap 6.2 mm	VI-1036	8, PI 16
	Tap 7.2 mm	VI-1037	8, PI 16
	T20 Screwdriver 7 Nm	VI-1810	25, 26, PI 19
	T25 Torque Limiter 10 Nm	VI-2440	29, PI 19
	T25 Torque Limiter 10 Nm, Org	VI-2442	29, PI 19
	T25 Screwdriver Shaft	VI-1445	12, PI 18
	T-Handle	GI-3101	8, 10, 11, 22, PI 20
	T-Handle, short	GI-2101	8, 10, 11, 22, PI 20
	Triangular Awl	VI-1010	6, PI 16

Notes

Notes

Distributed in:

Germany, Netherlands and Belgium

Silony Medical Europe GmbH

Bahnhofstraße 1 28195 Bremen, Germany Phone +49 421 24 69 56 0 Fax +49 421 24 69 56 55 United Kingdom

Silony Medical Ltd.

5 The Beacons Beaconsfield Road

Hatfield, Herts, AL10 8RS, UK Phone +44 (0)1707 32 84 77 Fax +44 (0)1707 37 60 73



www.silony-medical.com

Silony Medical International AG
Bahnhofplatz 75a
8500 Frauenfeld, Switzerland
Phone +41 52 72 83 000
Fax +41 52 72 83 009

Silony Medical GmbH
Leinfelder Strasse 60
70771 Leinfelden-Echterdingen, Germany
Phone +49 711 78 25 25 0