Surgical Technique

VERTAUX 5.5mm *Pedicle Screws System*

about us

Auxein Medical is an integrated, research based, orthopaedic Implants & instruments manufacturing company, producing a wide range of quality, affordable generic implants, trusted by healthcare professionals and patients across geographies. It is the Company's constant endeavor to provide a wide basket of generic and our innovator products that exceed the highest expectations of customers in term of quality and safety. The company has world-class manufacturing unit established in india and serves customers in over 75 countries worldwide.

Our Achievements

US FDA 510K   CE Class IIb   MDSAP   ISO ISO 13485:2016   CDSCO INDIAN MDR 2017

Guidelines

This publication sets forth detailed recommended procedures for using Auxein Medical devices and instruments.

It offers guidance that needs to be heeded. However, with any such technical guide, each surgeon must consider the unique needs of each patient and make appropriate adjustments when and as required.

A workshop training under DAIS Academy by Auxein will provide assistance prior to first surgery. It is vital to know that all non-sterile devices must be cleaned and sterilized before use.

Moreover, multi-component instruments must be disassembled for cleaning. The surgeon must discuss all relevant risks, including the finite lifetime of the device, with the patient, when necessary.

Please NOTE that all the bone screws referenced in this document here are not approved for screw attachment or fixation in the areas not mentioned in this publication.

Warning:
This description is not sufficient for immediate application of the instrumentation. Instruction by a surgeon experienced in handling this instrumentation is highly recommended.

DAIS
Division of Auxein Institute for Surgeons

Organised by: **Auxein**

The **AUXEIN MEDICAL'S** VERTAUX 5.5mm Pedicle screw System consists of a variety of shapes and sizes of rods, Pedicle screws, CROSS-LINK Connectors and connecting components which can be rigidly locked into a variety of configurations, with each construct being tailor-made for the individual case. It is intended to provide immobilization and stabilization of spinal segments as an adjunct to fusion of the thoracic, lumbar, and/or sacral spine

INDICATIONS:

The VERTAUX 5.5mm Pedicle screw system is intended for:

- Degenerative Disc disease (DDD)
- Spondylolisthesis
- Deformities or curvature (Scoliosis, Kyphosis, Lordosis)
- Trauma (Fracture or dislocation)
- Spinal stenosis
- Failed previous fusion
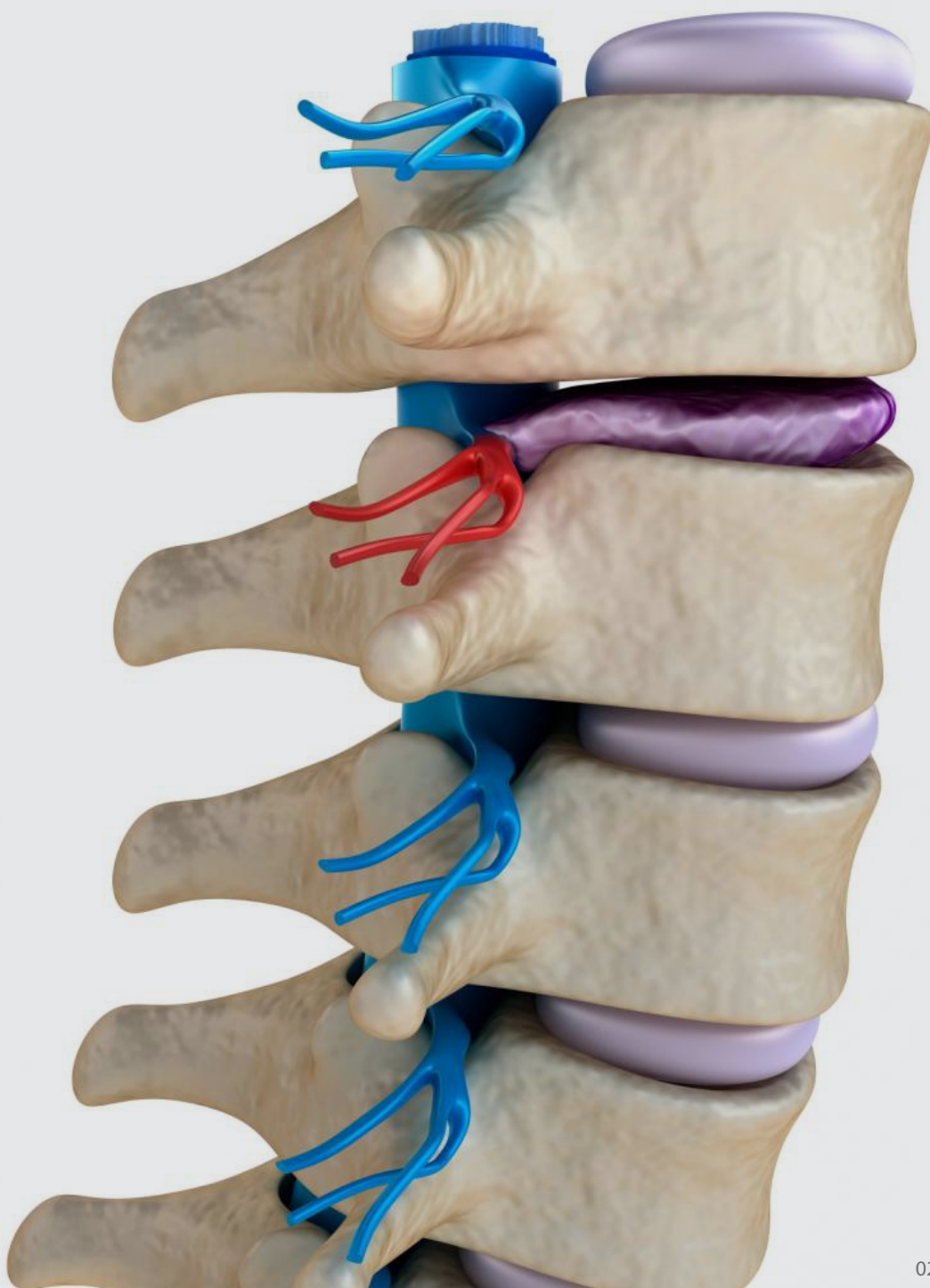
Patient positioning: The patient is positioned in a prone position on a radiolucent operating table. Drape the patient for posterior spinal fusion.
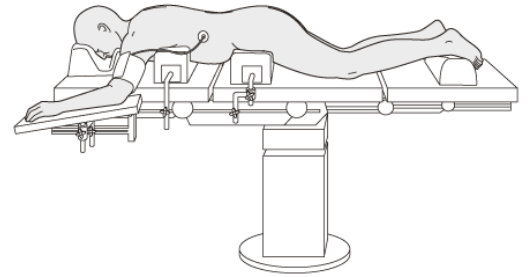

Pedicle preparation: The positioning of the pedicle entry is a very crucial part of the surgery. For screw insertion, it is necessary to first create a pilot hole. Awl **(SP-073)** is used to create an entry point in the pedicle for pilot hole.
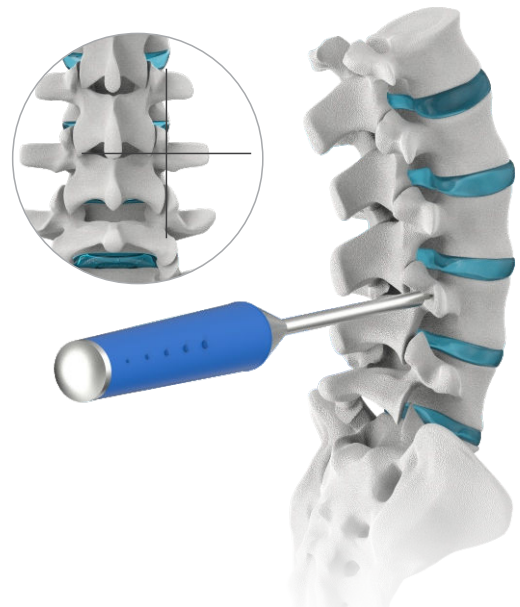
Once the hole is created using either Straight Awl **(SP-074)** or the Curved Awl **(SP-075)** is used to create a channel for pedicle screw. To advance the Awl, give it a to and fro motion along with rotation while inserting it into the anterior column. There are markings on the awl which could help in determining depth of the hole.
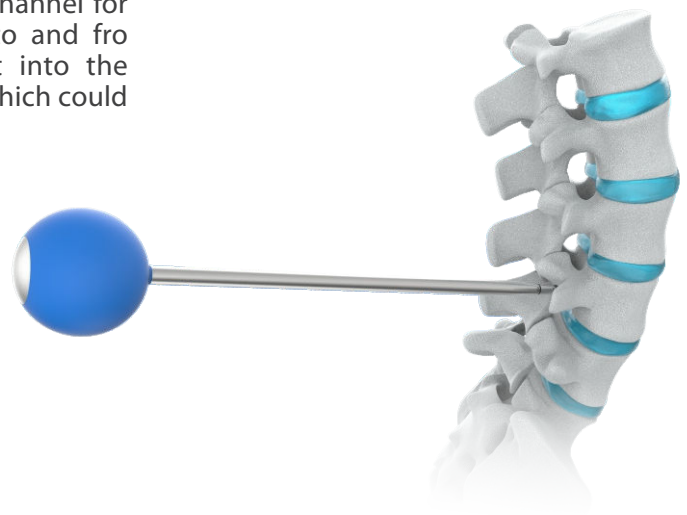
In order to verify the integrity of the pedicle wall, use either the pedicle straight probe **(SP-064)** or pedicle curved probe **(SP-065)** to palpate the created channel verifying that the anterior cortex of vertebral column is not penetrated.
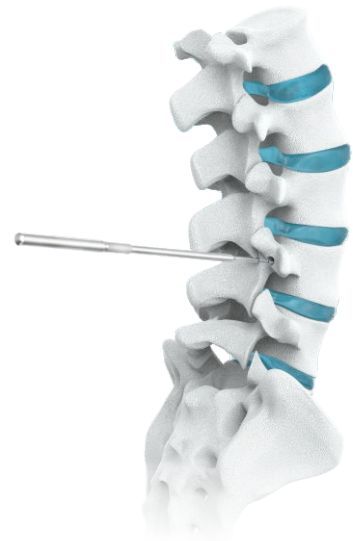
Tapping: All the screws are designed with the self-tapping capability and hence the tapping is not required. Although in case of a dense bone it would be necessary to use the tap of specific size as per the screw. Attach the selected tap to the ratchet handle **(SP-090)** and tap through the pedicle canal.

The Markers **(SP-067 or SP-068)** in combination with Marker Inserter **(SP-069)** may be used to determine screw trajectory using the lateral fluoroscopy.
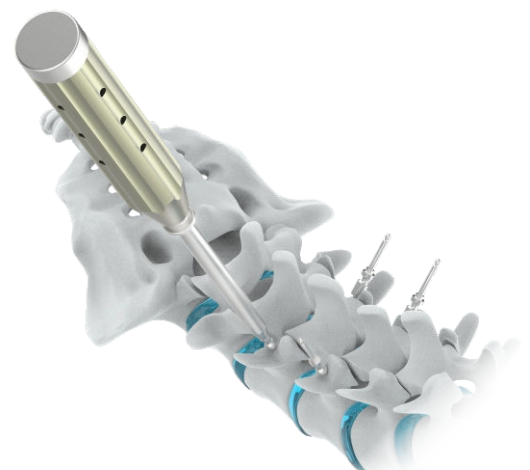
Screw insertion: There are four different types of screw which could be inserted as listed below:

- VERTAUX - Monoaxial Pedicle screw
- VERTAUX - Polyaxial Pedicle screw
- VERTAUX - Monoaxial Reduction Pedicle screw
- VERTAUX - Polyaxial Reduction Pedicle screw

Table -1

Screws	Compatible Screwdriver
VERTAUX - Monoaxial Pedicle Screw	Mono-Axial Pedicle Screwdriver **(SP-082)**
VERTAUX - Monoaxial Reduction Pedicle Screw	Mono-Axial Reduction Screwdriver **(SP-083)**
VERTAUX - Polyaxial Pedicle Screw	Poly-Axial Pedicle Screwdriver **(SP-084)**
VERTAUX - Polyaxial Reduction Pedicle Screw	Poly-Axial Reduction Screwdriver **(SP-085)**
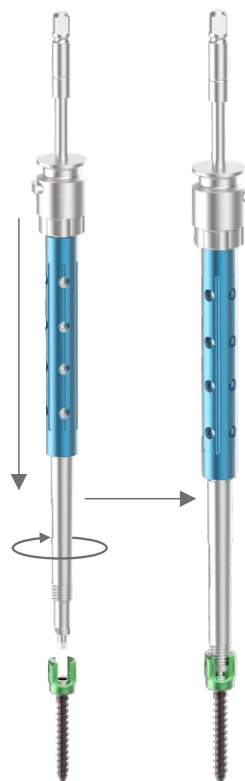
For each screw mentioned above there is a separate screw driver provided in the instrument set as listed in the Table 1. As per the selected screw use the appropriate screwdriver. Attach the screwdriver to the Ratchet handle **(SP-090)** and align the hex of screwdriver with the screw hex in case of Polyaxial pedicle screws. Now advance the screwdriver sleeve and screw in the threads on screwdriver sleeve into the screw head until tight.

Insert the screw into the prepared pedicle with the help of screwdriver and advance it until the head sits on the pedicle. After the pedicle screw has been placed in the pedicle verify its final position radiographically.

Rod Insertion: Before proceeding with rod insertion, use the appropriate template **(SP-087 or SP-1952)** depending on the length of rod to be used to obtain the bending curvature of the rod by placing the template through the pedicle screw heads.
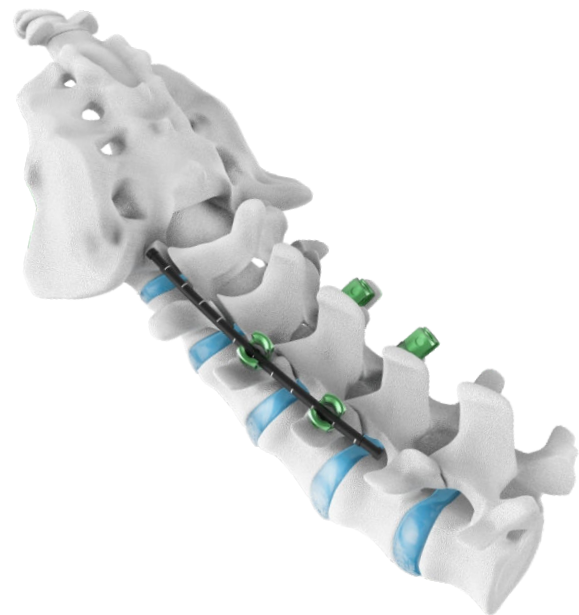
Using the Rod bender **(SP-053)** bend the VERTAUX Ø5.5mm rod keeping the template as reference for bending. Alternatively the In-Situ Bender **(SP-070 & SP-071)** could also be used for bending the rod.

Use the Rod holder curved **(SP-1953)** or the Power gripper **(SP-055)** for picking the pre-bent rod and insert into the pedicle screw heads.
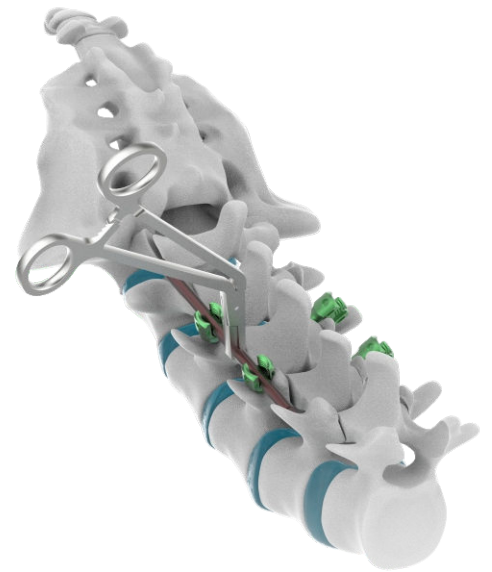
If the rod is not in correct position after insertion into the pedicle screw heads, the Hex rod rotation wrench **(SP-054)** could be used to rotate and bring back the rod in correct position.
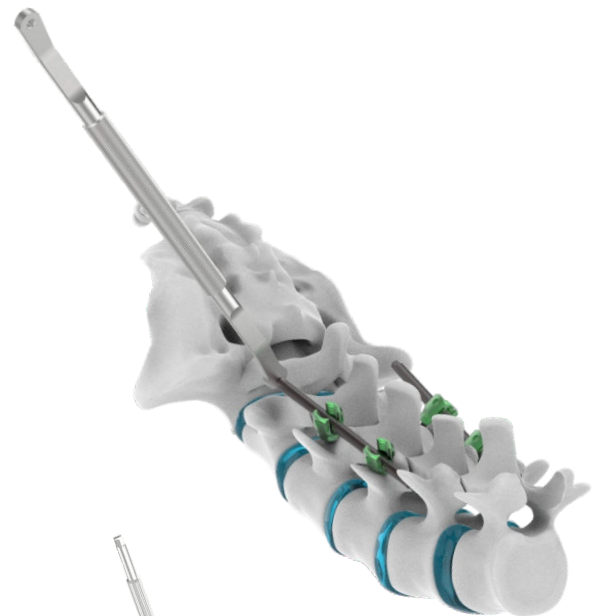
Use the Set screw Holder long **(SP-061)** to pick and insert the VETAUX Pedicle screw cap **(SP-303)** into the Pedicle screw head.
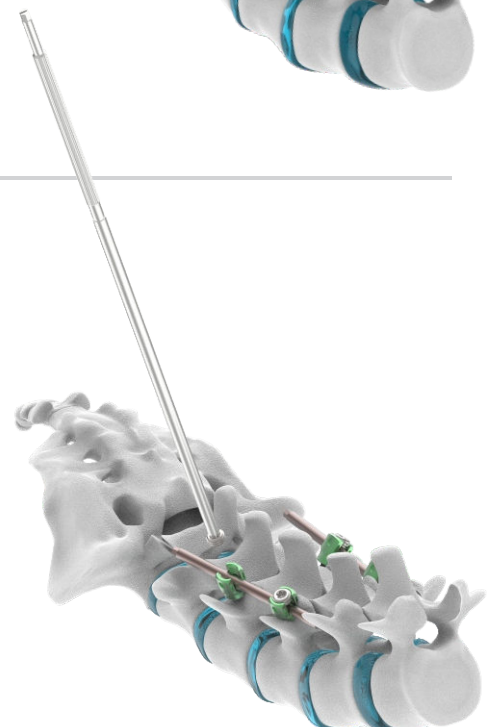
For final tightening of the pedicle screw cap, use the Counter Torque **(SP-089)** to hold the pedicle screw head in place and prevent any rotation during further tightening. Attach the Torque limiting Handle, 10Nm **(SP-1493)** to the Star set screwdriver with quick coupling **(SP-063)**. Insert this assembly through the counter torque and tighten the pedicle screw cap in place.

Note: During final tightening it is always advised to use the Torque limiting handle in order to prevent any damage to the threads due to excessive tightening.

In case the rod reduction is required, the Reducer **(SP-072)** may be used before the insertion of the pedicle screw cap. Advance the reducer such that it sits on the screw head and release the lever pushing down the rod to the sit in the 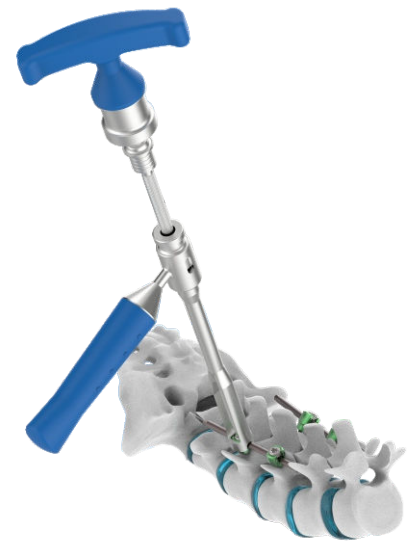screw head and providing reduction. Once the rod is in reduced position, the Set screw Holder long **(SP-061)** is used to pick and insert the VETAUX Pedicle screw cap **(SP-303)** through the reducer into the screw head to hold the rod in position. For provisionally tightening, the Star set screwdriver **(SP-063)** is attached the T Handle with quick coupling **(SP-086)** and the assembly is passed through the Reducer to tighten the pedicle screw cap. Final tightening is always performed using the 10Nm Torque limiting handle **(SP-1493)** ensuring no thread damage occurs due to excessive tightening.

While using Reduction pedicle screws, when all the implants are tightened and secured in place, secure the head with counter torque **(SP-089)** and using the Breaker **(SP-066)** break off the reduction head.

Compression

If the compression is required, then fully tighten the pedicle screw cap at one end leaving the screw caps in adjacent screws loose. The compression will be performed against the fully tightened screw using the Compressor **(SP-057)**. After the desirable compression is achieved, proceed with final tightening of screw caps in the adjacent screws.
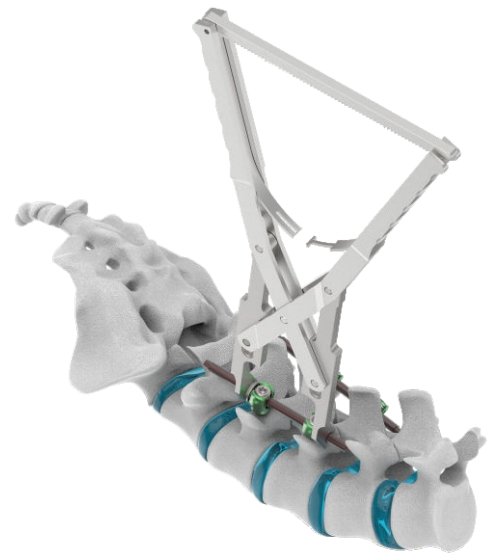
Distraction

If the distraction is required, then fully tighten the pedicle screw cap at one end leaving the screw caps in adjacent screws loose. The distraction will be performed against the fully tightened screw using the Distractor **(SP-056)**. After the desirable distraction is achieved, proceed with final tightening of screw caps in the adjacent screws.
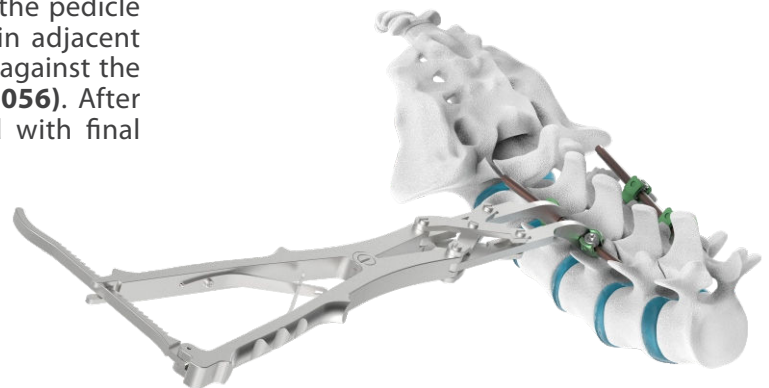
Connecting Rods with Crosslink Connector

There are three different variants of the crosslink as listed below which could be used for connect the two parallel rods:

1. VERTAUX - Crosslink-I
2. VERTAUX - Crosslink-II
3. VERTAUX - Crosslink-III

The Measuring Plate black **(SP-092)** is placed over the two rods and used to measure the required length of the crosslink.
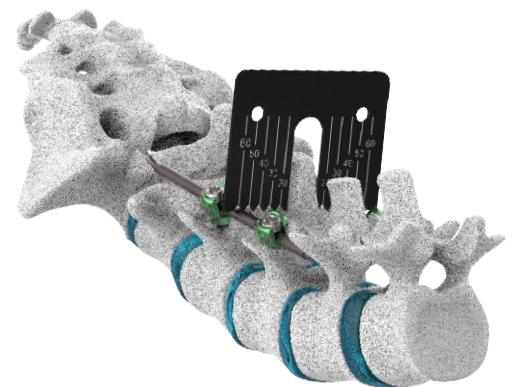
Once the length is determined, the selected crosslink is set to the predetermined length. Hold the crosslink using the crosslink hook holders **(SP-052)** and tightened it using the Hex screwdriver **(SP-081)**.
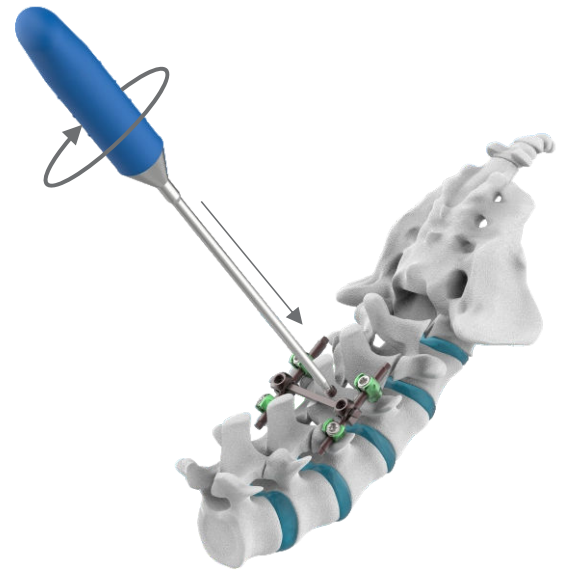
Implant Removal:
Using the Hex screwdriver (SP-081), the crosslink is loosened and removed from the construct using the crosslink hook holders **(SP-052)**.
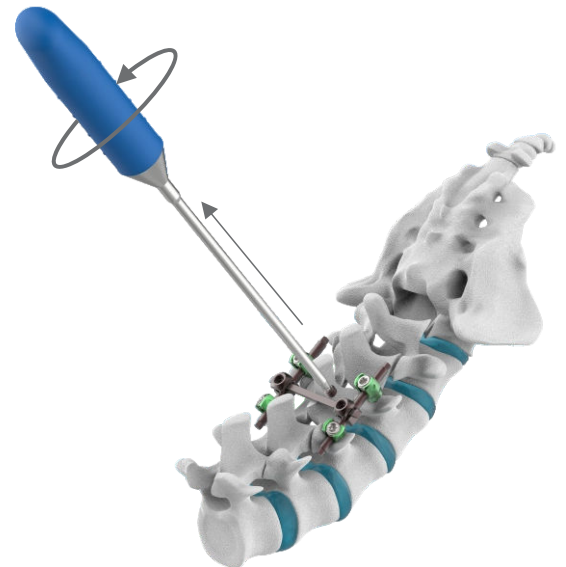
For removal of the pedicle screw caps, the Counter torque **(SP-089)** is used to hold the screw head in place while the pedicle screw cap is being removed.

Attach the Star screwdriver with quick coupling **(SP-063)** to the T handle with quick coupling **(SP-086)**. The assembly is then passed through the counter torque in order to loosen the pedicle screw cap for final removal.

Remove the 5.5mm VERTAUX rod using the Rod Holder curved **(SP-1953)**.
After the pedicle screw cap has been removed, proceed with the removal of the pedicle screw using the suitable screwdriver as listed in the Table 1.

VERTAUX
5.5mm PEDICLE SCREWS SYSTEM

Colour Parameters as per Ø

Pink Ø 4.5	Silver Ø 5.0	Green Ø 5.5	Blue Ø 6.0	Golden Ø 6.5	Brown Ø 7.0

VERTAUX - Monoaxial Pedicle Screw with Cap

Low Profile

Self Tapping
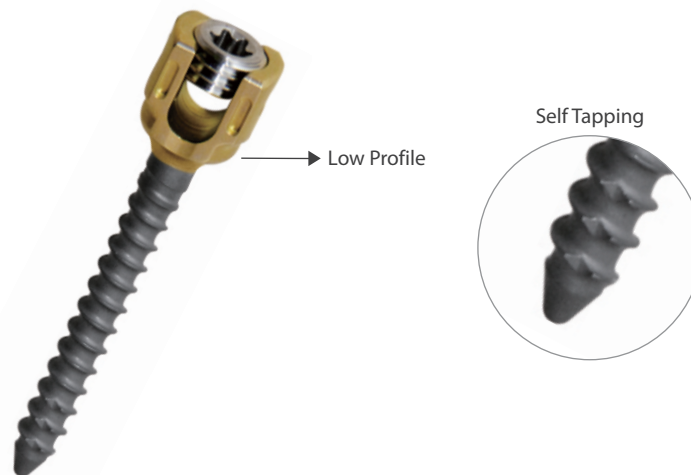
Code	Product Specification	Material	Code	Product Specification	Material
SP-1634	Dia. 4.5 x Length 25mm	TI	SP-1645	Dia. 6.0 x Length 25mm	TI
SP-924	Dia. 4.5 x Length 30mm	TI	SP-931	Dia. 6.0 x Length 30mm	TI
SP-207	Dia. 4.5 x Length 35mm	TI	SP-216	Dia. 6.0 x Length 35mm	TI
SP-208	Dia. 4.5 x Length 40mm	TI	SP-217	Dia. 6.0 x Length 40mm	TI
SP-925	Dia. 4.5 x Length 45mm	TI	SP-218	Dia. 6.0 x Length 45mm	TI
SP-903	Dia. 4.5 x Length 50mm	TI	SP-219	Dia. 6.0 x Length 50mm	TI
SP-1637	Dia. 5.0 x Length 25mm	TI	SP-220	Dia. 6.0 x Length 55mm	TI
SP-927	Dia. 5.0 x Length 30mm	TI	SP-1649	Dia. 6.5 x Length 25mm	TI
SP-209	Dia. 5.0 x Length 35mm	TI	SP-932	Dia. 6.5 x Length 30mm	TI
SP-210	Dia. 5.0 x Length 40mm	TI	SP-221	Dia. 6.5 x Length 35mm	TI
SP-211	Dia. 5.0 x Length 45mm	TI	SP-222	Dia. 6.5 x Length 40mm	TI
SP-928	Dia. 5.0 x Length 50mm	TI	SP-223	Dia. 6.5 x Length 45mm	TI
SP-904	Dia. 5.0 x Length 55mm	TI	SP-224	Dia. 6.5 x Length 50mm	TI
SP-1641	Dia. 5.5 x Length 25mm	TI	SP-225	Dia. 6.5 x Length 55mm	TI
SP-929	Dia. 5.5 x Length 30mm	TI	SP-1661	Dia. 7.0 x Length 25mm	TI
SP-212	Dia. 5.5 x Length 35mm	TI	SP-934	Dia. 7.0 x Length 30mm	TI
SP-213	Dia. 5.5 x Length 40mm	TI	SP-226	Dia. 7.0 x Length 35mm	TI
SP-214	Dia. 5.5 x Length 45mm	TI	SP-227	Dia. 7.0 x Length 40mm	TI
SP-215	Dia. 5.5 x Length 50mm	TI	SP-228	Dia. 7.0 x Length 45mm	TI
SP-930	Dia. 5.5 x Length 55mm	TI	SP-229	Dia. 7.0 x Length 50mm	TI
			SP-230	Dia. 7.0 x Length 55mm	TI

VERTAUX - Monoaxial Reduction Pedicle Screw with Cap

Low Profile

Self Tapping
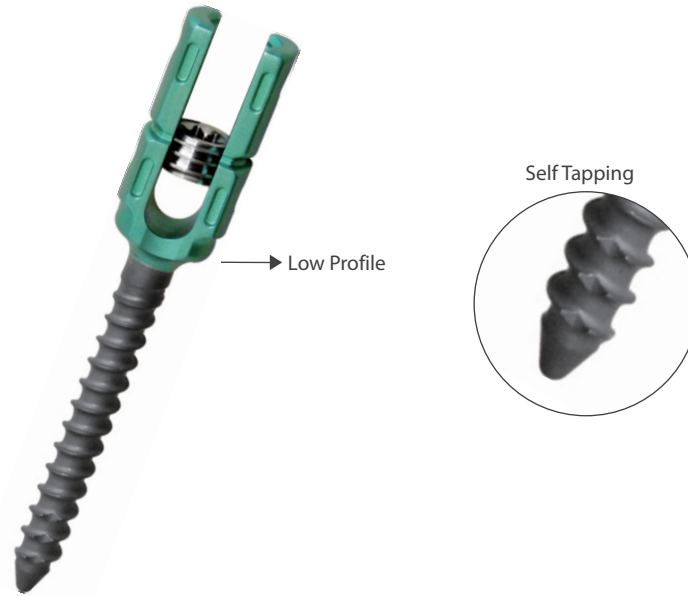
Code	Product Specification	Material
SP-1635	Dia. 4.5 x Length 25mm	TI
SP-255	Dia. 4.5 x Length 35mm	TI
SP-256	Dia. 4.5 x Length 40mm	TI
SP-1639	Dia. 5.0 x Length 25mm	TI
SP-690	Dia. 5.0 x Length 30mm	TI
SP-257	Dia. 5.0 x Length 35mm	TI
SP-258	Dia. 5.0 x Length 40mm	TI
SP-259	Dia. 5.0 x Length 45mm	TI
SP-1643	Dia. 5.5 x Length 25mm	TI
SP-260	Dia. 5.5 x Length 35mm	TI
SP-261	Dia. 5.5 x Length 40mm	TI
SP-262	Dia. 5.5 x Length 45mm	TI
SP-263	Dia. 5.5 x Length 50mm	TI
SP-1647	Dia. 6.0 x Length 25mm	TI
SP-691	Dia. 6.0 x Length 30mm	TI
SP-264	Dia. 6.0 x Length 35mm	TI
SP-265	Dia. 6.0 x Length 40mm	TI
SP-266	Dia. 6.0 x Length 45mm	TI
SP-267	Dia. 6.0 x Length 50mm	TI
SP-268	Dia. 6.0 x Length 55mm	TI

Code	Product Specification	Material
SP-1651	Dia. 6.5 x Length 25mm	TI
SP-269	Dia. 6.5 x Length 35mm	TI
SP-270	Dia. 6.5 x Length 40mm	TI
SP-271	Dia. 6.5 x Length 45mm	TI
SP-272	Dia. 6.5 x Length 50mm	TI
SP-273	Dia. 6.5 x Length 55mm	TI
SP-1663	Dia. 7.0 x Length 25mm	TI
SP-274	Dia. 7.0 x Length 35mm	TI
SP-275	Dia. 7.0 x Length 40mm	TI
SP-276	Dia. 7.0 x Length 45mm	TI
SP-277	Dia. 7.0 x Length 50mm	TI
SP-278	Dia. 7.0 x Length 55mm	TI

VERTAUX - Polyaxial Pedicle Screw with Cap

Low Profile

Self Tapping

60°
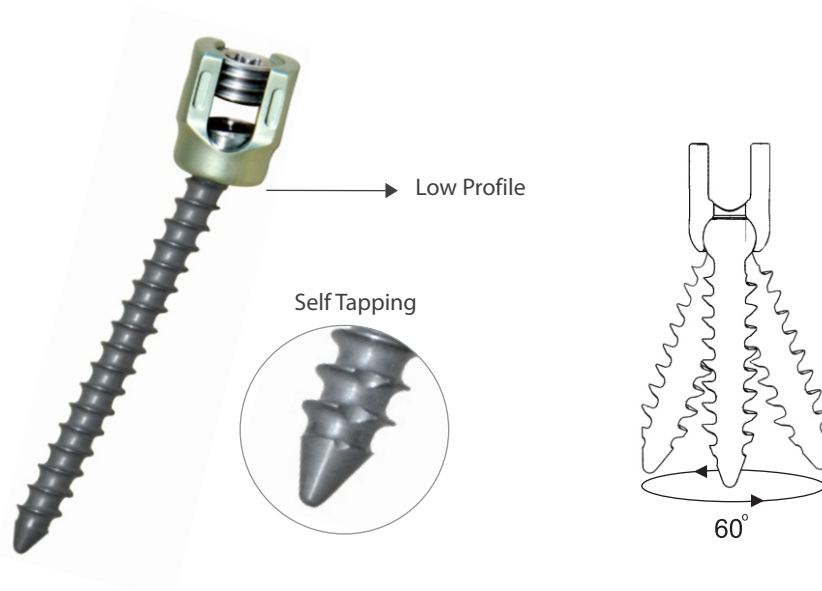
Code	Product Specification	Material	Code	Product Specification	Material
SP-472	Dia. 4.5 x Length 25mm	TI	SP-1646	Dia. 6.0 x Length 25mm	TI
SP-935	Dia. 4.5 x Length 30mm	TI	SP-943	Dia. 6.0 x Length 30mm	TI
SP-231	Dia. 4.5 x Length 35mm	TI	SP-240	Dia. 6.0 x Length 35mm	TI
SP-232	Dia. 4.5 x Length 40mm	TI	SP-241	Dia. 6.0 x Length 40mm	TI
SP-936	Dia. 4.5 x Length 45mm	TI	SP-242	Dia. 6.0 x Length 45mm	TI
SP-937	Dia. 4.5 x Length 50mm	TI	SP-243	Dia. 6.0 x Length 50mm	TI
SP-1638	Dia. 5.0 x Length 25mm	TI	SP-244	Dia. 6.0 x Length 55mm	TI
SP-938	Dia. 5.0 x Length 30mm	TI	SP-1650	Dia. 6.5 x Length 25mm	TI
SP-233	Dia. 5.0 x Length 35mm	TI	SP-944	Dia. 6.5 x Length 30mm	TI
SP-234	Dia. 5.0 x Length 40mm	TI	SP-245	Dia. 6.5 x Length 35mm	TI
SP-235	Dia. 5.0 x Length 45mm	TI	SP-246	Dia. 6.5 x Length 40mm	TI
SP-939	Dia. 5.0 x Length 50mm	TI	SP-247	Dia. 6.5 x Length 45mm	TI
SP-940	Dia. 5.0 x Length 55mm	TI	SP-248	Dia. 6.5 x Length 50mm	TI
SP-1642	Dia. 5.5 x Length 25mm	TI	SP-249	Dia. 6.5 x Length 55mm	TI
SP-941	Dia. 5.5 x Length 30mm	TI	SP-1662	Dia. 7.0 x Length 25mm	TI
SP-236	Dia. 5.5 x Length 35mm	TI	SP-945	Dia. 7.0 x Length 30mm	TI
SP-237	Dia. 5.5 x Length 40mm	TI	SP-250	Dia. 7.0 x Length 35mm	TI
SP-238	Dia. 5.5 x Length 45mm	TI	SP-251	Dia. 7.0 x Length 40mm	TI
SP-239	Dia. 5.5 x Length 50mm	TI	SP-252	Dia. 7.0 x Length 45mm	TI
SP-942	Dia. 5.5 x Length 55mm	TI	SP-253	Dia. 7.0 x Length 50mm	TI
			SP-254	Dia. 7.0 x Length 55mm	TI

VERTAUX - Polyaxial Reduction Pedicle Screw with Cap

Low Profile

Self Tapping
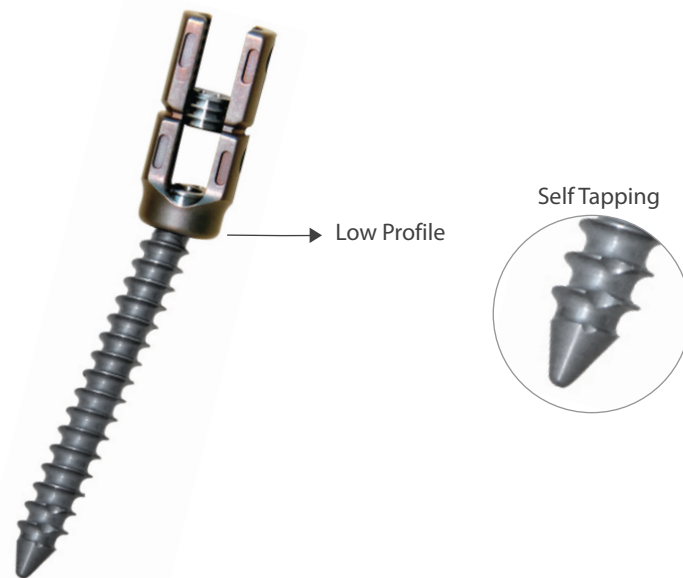
Code	Product Specification	Material	Code	Product Specification	Material
SP-1636	Dia. 4.5 x Length 25mm	TI	SP-1648	Dia. 6.0 x Length 25mm	TI
SP-946	Dia. 4.5 x Length 30mm	TI	SP-954	Dia. 6.0 x Length 30mm	TI
SP-279	Dia. 4.5 x Length 35mm	TI	SP-288	Dia. 6.0 x Length 35mm	TI
SP-280	Dia. 4.5 x Length 40mm	TI	SP-289	Dia. 6.0 x Length 40mm	TI
SP-947	Dia. 4.5 x Length 45mm	TI	SP-290	Dia. 6.0 x Length 45mm	TI
SP-901	Dia. 4.5 x Length 50mm	TI	SP-291	Dia. 6.0 x Length 50mm	TI
SP-1640	Dia. 5.0 x Length 25mm	TI	SP-292	Dia. 6.0 x Length 55mm	TI
SP-949	Dia. 5.0 x Length 30mm	TI	SP-1652	Dia. 6.5 x Length 25mm	TI
SP-281	Dia. 5.0 x Length 35mm	TI	SP-955	Dia. 6.5 x Length 30mm	TI
SP-282	Dia. 5.0 x Length 40mm	TI	SP-293	Dia. 6.5 x Length 35mm	TI
SP-283	Dia. 5.0 x Length 45mm	TI	SP-294	Dia. 6.5 x Length 40mm	TI
SP-950	Dia. 5.0 x Length 50mm	TI	SP-295	Dia. 6.5 x Length 45mm	TI
SP-951	Dia. 5.0 x Length 55mm	TI	SP-296	Dia. 6.5 x Length 50mm	TI
SP-1644	Dia. 5.5 x Length 25mm	TI	SP-297	Dia. 6.5 x Length 55mm	TI
SP-902	Dia. 5.5 x Length 30mm	TI	SP-1664	Dia. 7.0 x Length 25mm	TI
SP-284	Dia. 5.5 x Length 35mm	TI	SP-926	Dia. 7.0 x Length 30mm	TI
SP-285	Dia. 5.5 x Length 40mm	TI	SP-298	Dia. 7.0 x Length 35mm	TI
SP-286	Dia. 5.5 x Length 45mm	TI	SP-299	Dia. 7.0 x Length 40mm	TI
SP-287	Dia. 5.5 x Length 50mm	TI	SP-300	Dia. 7.0 x Length 45mm	TI
SP-953	Dia. 5.5 x Length 55mm	TI	SP-301	Dia. 7.0 x Length 50mm	TI
			SP-302	Dia. 7.0 x Length 55mm	TI

VERTAUX - Pedicle screw Cap, M9

Star Head

Code	Product Specification	Material
SP-303	M9	TI

IS-1162 : VERTAUX - Pedicle Hooks Implant Set

Code	Product Specification	Unit	Material
SP-959	Pedicle Hook, Standard, Titanium	4	TI
SP-960	Pedicle Hook, Downsized, Titanium	4	TI
SP-961	Laminar Hook, Narrow 5.0mm, Titanium	4	TI
SP-962	Laminar Hook, Narrow 6.5mm, Titanium	4	TI
SP-963	Laminar Hook, Narrow 8.0mm, Titanium	4	TI
SP-964	Laminar Hook, Narrow 9.5mm, Titanium	4	TI
SP-965	Laminar Hook, Wide 5.0mm, Titanium	4	TI
SP-966	Laminar Hook, Wide 6.5mm, Titanium	4	TI
SP-967	Laminar Hook, Wide 8.0mm, Titanium	4	TI
SP-968	Laminar Hook, Wide 9.5mm, Titanium	4	TI
SP-969	Laminar Hook, Angled Right, Titanium	4	TI
SP-970	Laminar Hook, Angled Left, Titanium	4	TI

VERTAUX - Crosslink-I

Code	Product Specification	Material
SP-321	Length 50mm	TI
SP-322	Length 55mm	TI
SP-323	Length 65mm	TI

VERTAUX - Crosslink-II

Code	Product Specification	Material
SP-304	Length 40mm	TI
SP-305	Length 45mm	TI
SP-306	Length 50mm	TI
SP-307	Length 55mm	TI
SP-308	Length 60mm	TI
SP-309	Length 65mm	TI
SP-310	Length 70mm	TI
SP-311	Length 75mm	TI
SP-312	Length 80mm	TI
SP-313	Length 85mm	TI
SP-314	Length 90mm	TI
SP-319	Length 95mm	TI
SP-315	Length 100mm	TI
SP-316	Length 105mm	TI
SP-317	Length 110mm	TI
SP-318	Length 115mm	TI
SP-320	Length 120mm	TI

VERTAUX - Crosslink-III

Code	Product Specification	Material
SP-800	36-39mm	TI
SP-801	39-45mm	TI
SP-802	45-57mm	TI
SP-803	58-81mm	TI
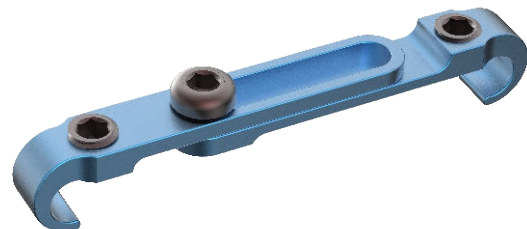
VERTAUX - Rod, Ø 5.5mm

Code	Product Specification	Material
SP-324	Ø5.5 x Length 50mm	TI
SP-325	Ø5.5 x Length 60mm	TI
SP-326	Ø5.5 x Length 70mm	TI
SP-327	Ø5.5 x Length 80mm	TI
SP-328	Ø5.5 x Length 90mm	TI
SP-329	Ø5.5 x Length 100mm	TI
SP-330	Ø5.5 x Length 110mm	TI
SP-331	Ø5.5 x Length 120mm	TI
SP-332	Ø5.5 x Length 130mm	TI
SP-333	Ø5.5 x Length 140mm	TI
SP-334	Ø5.5 x Length 150mm	TI
SP-335	Ø5.5 x Length 160mm	TI
SP-336	Ø5.5 x Length 170mm	TI
SP-337	Ø5.5 x Length 180mm	TI
SP-338	Ø5.5 x Length 200mm	TI
SP-339	Ø5.5 x Length 220mm	TI
SP-340	Ø5.5 x Length 240mm	TI
SP-341	Ø5.5 x Length 250mm	TI
SP-342	Ø5.5 x Length 260mm	TI
SP-343	Ø5.5 x Length 280mm	TI
SP-344	Ø5.5 x Length 300mm	TI
SP-345	Ø5.5 x Length 350mm	TI
SP-346	Ø5.5 x Length 400mm	TI
SP-347	Ø5.5 x Length 450mm	TI
SP-348	Ø5.5 x Length 500mm	TI

Hexagonal Head

Universal Connector

Code	Material
SP-1358	TI

5.5mm Rod for Vertaux Pedicle System

3.2mm Rod for Vertaux Occipital System
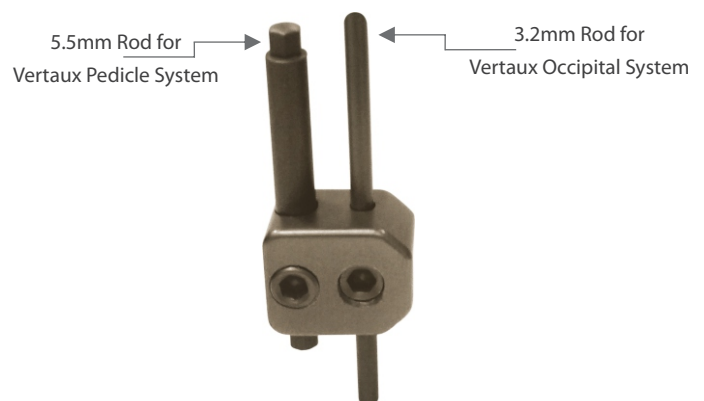
4-006-01 : VERTAUX - Monoaxial Pedicle Screw Implant Set

Sterilization Container

4-006-01 : VERTAUX - Monoaxial Pedicle Screw Implant Set

Item Code	Item Name	Unit
SP-924	VERTAUX - Monoaxial Pedicle Screw, Ø4.5mm x Length 30mm, Titanium	4
SP-207	VERTAUX - Monoaxial Pedicle Screw, Ø4.5mm x Length 35mm, Titanium	4
SP-208	VERTAUX - Monoaxial Pedicle Screw, Ø4.5mm x Length 40mm, Titanium	4
SP-925	VERTAUX - Monoaxial Pedicle Screw, Ø4.5mm x Length 45mm, Titanium	4
SP-903	VERTAUX - Monoaxial Pedicle Screw, Ø4.5mm x Length 50mm, Titanium	4
SP-927	VERTAUX - Monoaxial Pedicle Screw, Ø 5.0mm x Length 30mm, Titanium	4
SP-209	VERTAUX - Monoaxial Pedicle Screw, Ø 5.0mm x Length 35mm, Titanium	4
SP-210	VERTAUX - Monoaxial Pedicle Screw, Ø 5.0mm x Length 40mm, Titanium	4
SP-211	VERTAUX - Monoaxial Pedicle Screw, Ø 5.0mm x Length 45mm, Titanium	4
SP-928	VERTAUX - Monoaxial Pedicle Screw, Ø 5.0mm x Length 50mm, Titanium	4
SP-904	VERTAUX - Monoaxial Pedicle Screw, Ø 5.0mm x Length 55mm, Titanium	4
SP-929	VERTAUX - Monoaxial Pedicle Screw, Ø 5.5mm x Length 30mm, Titanium	4
SP-212	VERTAUX - Monoaxial Pedicle Screw, Ø 5.5mm x Length 35mm, Titanium	4
SP-213	VERTAUX - Monoaxial Pedicle Screw, Ø 5.5mm x Length 40mm, Titanium	4
SP-214	VERTAUX - Monoaxial Pedicle Screw, Ø 5.5mm x Length 45mm, Titanium	4
SP-215	VERTAUX - Monoaxial Pedicle Screw, Ø 5.5mm x Length 50mm, Titanium	4
SP-930	VERTAUX - Monoaxial Pedicle Screw, Ø 5.5mm x Length 55mm, Titanium	4
SP-931	VERTAUX - Monoaxial Pedicle Screw, Ø 6.0mm x Length 30mm, Titanium	4
SP-216	VERTAUX - Monoaxial Pedicle Screw, Ø 6.0mm x Length 35mm, Titanium	4
SP-217	VERTAUX - Monoaxial Pedicle Screw, Ø 6.0mm x Length 40mm, Titanium	4
SP-218	VERTAUX - Monoaxial Pedicle Screw, Ø 6.0mm x Length 45mm, Titanium	4
SP-219	VERTAUX - Monoaxial Pedicle Screw, Ø 6.0mm x Length 50mm, Titanium	4
SP-220	VERTAUX - Monoaxial Pedicle Screw, Ø 6.0mm x Length 55mm, Titanium	4
SP-932	VERTAUX - Monoaxial Pedicle Screw, Ø 6.5mm x Length 30mm, Titanium	4
SP-221	VERTAUX - Monoaxial Pedicle Screw, Ø 6.5mm x Length 35mm, Titanium	4
SP-222	VERTAUX - Monoaxial Pedicle Screw, Ø 6.5mm x Length 40mm, Titanium	4
SP-223	VERTAUX - Monoaxial Pedicle Screw, Ø 6.5mm x Length 45mm, Titanium	4
SP-224	VERTAUX - Monoaxial Pedicle Screw, Ø 6.5mm x Length 50mm, Titanium	4
SP-225	VERTAUX - Monoaxial Pedicle Screw, Ø 6.5mm x Length 55mm, Titanium	4
SP-934	VERTAUX - Monoaxial Pedicle Screw, Ø 7.0mm x Length 30mm, Titanium	4
SP-226	VERTAUX - Monoaxial Pedicle Screw, Ø 7.0mm x Length 35mm, Titanium	4
SP-227	VERTAUX - Monoaxial Pedicle Screw, Ø 7.0mm x Length 40mm, Titanium	4
SP-228	VERTAUX - Monoaxial Pedicle Screw, Ø 7.0mm x Length 45mm, Titanium	4
SP-229	VERTAUX - Monoaxial Pedicle Screw, Ø 7.0mm x Length 50mm, Titanium	4
SP-230	VERTAUX - Monoaxial Pedicle Screw, Ø 7.0mm x Length 55mm, Titanium	4
4-006-05	Tray	1
4-006-06	Sterilization Container	1

4-006-02 : VERTAUX - Polyaxial Pedicle Screw Implant Set

Sterilization Container

4-006-02 : VERTAUX - Polyaxial Pedicle Screw Implant Set

| Item Code	Item Name	Unit
SP-935	VERTAUX - Polyaxial Pedicle Screw, Ø 4.5mm x Length 30mm, Titanium	4
SP-231	VERTAUX - Polyaxial Pedicle Screw, Ø 4.5mm x Length 35mm, Titanium	4
SP-232	VERTAUX - Polyaxial Pedicle Screw, Ø 4.5mm x Length 40mm, Titanium	4
SP-936	VERTAUX - Polyaxial Pedicle Screw, Ø 4.5mm x Length 45mm, Titanium	4
SP-937	VERTAUX - Polyaxial Pedicle Screw, Ø 4.5mm x Length 50mm, Titanium	4
SP-938	VERTAUX - Polyaxial Pedicle Screw, Ø 5.0mm x Length 30mm, Titanium	4
SP-233	VERTAUX - Polyaxial Pedicle Screw, Ø 5.0mm x Length 35mm, Titanium	4
SP-234	VERTAUX - Polyaxial Pedicle Screw, Ø 5.0mm x Length 40mm, Titanium	4
SP-235	VERTAUX - Polyaxial Pedicle Screw, Ø 5.0mm x Length 45mm, Titanium	4
SP-939	VERTAUX - Polyaxial Pedicle Screw, Ø 5.0mm x Length 50mm, Titanium	4
SP-940	VERTAUX - Polyaxial Pedicle Screw, Ø 5.0mm x Length 55mm, Titanium	4
SP-941	VERTAUX - Polyaxial Pedicle Screw, Ø 5.5mm x Length 30mm, Titanium	4
SP-236	VERTAUX - Polyaxial Pedicle Screw, Ø 5.5mm x Length 35mm, Titanium	4
SP-237	VERTAUX - Polyaxial Pedicle Screw, Ø 5.5mm x Length 40mm, Titanium	4
SP-238	VERTAUX - Polyaxial Pedicle Screw, Ø 5.5mm x Length 45mm, Titanium	4
SP-239	VERTAUX - Polyaxial Pedicle Screw, Ø 5.5mm x Length 50mm, Titanium	4
SP-942	VERTAUX - Polyaxial Pedicle Screw, Ø 5.5mm x Length 55mm, Titanium	4
SP-943	VERTAUX - Polyaxial Pedicle Screw, Ø 6.0mm x Length 30mm, Titanium	4
SP-240	VERTAUX - Polyaxial Pedicle Screw, Ø 6.0mm x Length 35mm, Titanium	4
SP-241	VERTAUX - Polyaxial Pedicle Screw, Ø 6.0mm x Length 40mm, Titanium	4
SP-242	VERTAUX - Polyaxial Pedicle Screw, Ø 6.0mm x Length 45mm, Titanium	4
SP-243	VERTAUX - Polyaxial Pedicle Screw, Ø 6.0mm x Length 50mm, Titanium	4
SP-244	VERTAUX - Polyaxial Pedicle Screw, Ø 6.0mm x Length 55mm, Titanium	4
SP-944	VERTAUX - Polyaxial Pedicle Screw, Ø 6.5mm x Length 30mm, Titanium	4
SP-245	VERTAUX - Polyaxial Pedicle Screw, Ø 6.5mm x Length 35mm, Titanium	4
SP-246	VERTAUX - Polyaxial Pedicle Screw, Ø 6.5mm x Length 40mm, Titanium	4
SP-247	VERTAUX - Polyaxial Pedicle Screw, Ø 6.5mm x Length 45mm, Titanium	4
SP-248	VERTAUX - Polyaxial Pedicle Screw, Ø 6.5mm x Length 50mm, Titanium	4
SP-249	VERTAUX - Polyaxial Pedicle Screw, Ø 6.5mm x Length 55mm, Titanium	4
SP-945	VERTAUX - Polyaxial Pedicle Screw, Ø 7.0mm x Length 30mm, Titanium	4
SP-250	VERTAUX - Polyaxial Pedicle Screw, Ø 7.0mm x Length 35mm, Titanium	4
SP-251	VERTAUX - Polyaxial Pedicle Screw, Ø 7.0mm x Length 40mm, Titanium	4
SP-252	VERTAUX - Polyaxial Pedicle Screw, Ø 7.0mm x Length 45mm, Titanium	4
SP-253	VERTAUX - Polyaxial Pedicle Screw, Ø 7.0mm x Length 50mm, Titanium	4
SP-254	VERTAUX - Polyaxial Pedicle Screw, Ø 7.0mm x Length 55mm, Titanium	4
4-006-07	Tray	1
4-006-08	Sterilization Container	1

4-006-03 : VERTAUX - Polyaxial Reduction Pedicle Screw Implant Set

Sterilization Container

4-006-03 : VERTAUX - Polyaxial Reduction Pedicle Screw Implant Set

Item Code	Item Name	Unit
SP-946	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 4.5mm x Length 30mm, Titanium	4
SP-279	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 4.5mm x Length 35mm, Titanium	4
SP-280	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 4.5mm x Length 40mm, Titanium	4
SP-947	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 4.5mm x Length 45mm, Titanium	4
SP-901	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 4.5mm x Length 50mm, Titanium	4
SP-949	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 5.0mm x Length 30mm, Titanium	4
SP-281	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 5.0mm x Length 35mm, Titanium	4
SP-282	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 5.0mm x Length 40mm, Titanium	4
SP-283	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 5.0mm x Length 45mm, Titanium	4
SP-950	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 5.0mm x Length 50mm, Titanium	4
SP-951	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 5.0mm x Length 55mm, Titanium	4
SP-902	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 5.5mm x Length 30mm, Titanium	4
SP-284	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 5.5mm x Length 35mm, Titanium	4
SP-285	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 5.5mm x Length 40mm, Titanium	4
SP-286	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 5.5mm x Length 45mm, Titanium	4
SP-287	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 5.5mm x Length 50mm, Titanium	4
SP-953	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 5.5mm x Length 55mm, Titanium	4
SP-954	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 6.0mm x Length 30mm, Titanium	4
SP-288	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 6.0mm x Length 35mm, Titanium	4
SP-289	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 6.0mm x Length 40mm, Titanium	4
SP-290	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 6.0mm x Length 45mm, Titanium	4
SP-291	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 6.0mm x Length 50mm, Titanium	4
SP-292	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 6.0mm x Length 55mm, Titanium	4
SP-955	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 6.5mm x Length 30mm, Titanium	4
SP-293	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 6.5mm x Length 35mm, Titanium	4
SP-294	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 6.5mm x Length 40mm, Titanium	4
SP-295	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 6.5mm x Length 45mm, Titanium	4
SP-296	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 6.5mm x Length 50mm, Titanium	4
SP-297	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 6.5mm x Length 55mm, Titanium	4
SP-926	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 7.0mm x Length 30mm, Titanium	4
SP-298	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 7.0mm x Length 35mm, Titanium	4
SP-299	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 7.0mm x Length 40mm, Titanium	4
SP-300	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 7.0mm x Length 45mm, Titanium	4
SP-301	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 7.0mm x Length 50mm, Titanium	4
SP-302	VERTAUX - Polyaxial Reduction Pedicle Screw, Ø 7.0mm x Length 55mm, Titanium	4
4-006-09	Tray	1
4-006-10	Sterilization Container	1

4-006-04 : VERTAUX - Crosslink & Rods Implant Set

Mesh Tray for Rods

Implant Tray for Crosslink Connectors
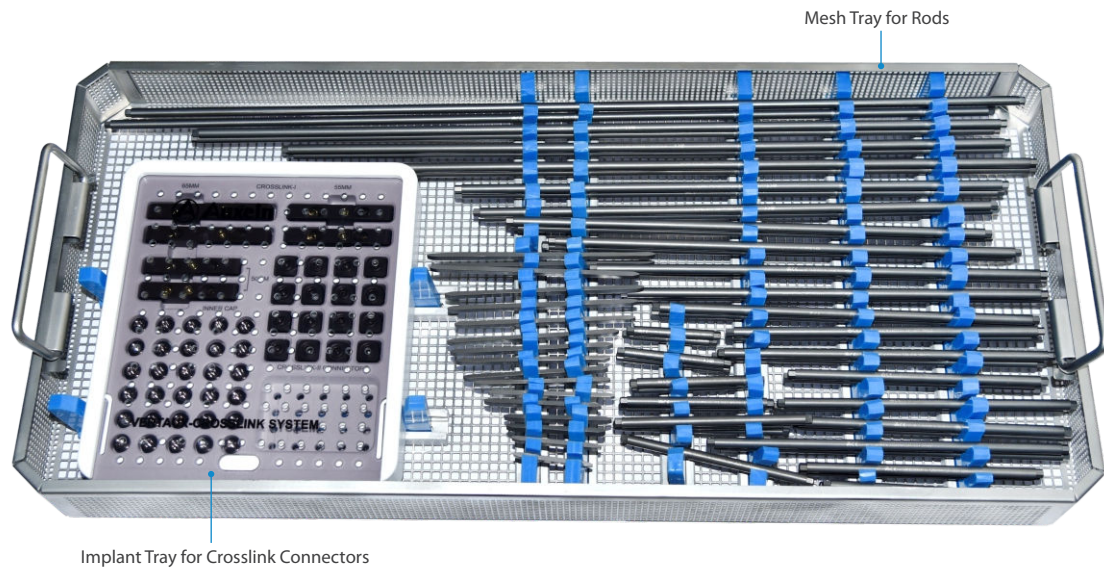
Code	Product Specification	Qty.
SP-303	VERTAUX - Pedice Screw Cap, M9	30
SP-321	VERTAUX - Crosslink-I, Length 50mm, Titanium	2
SP-322	VERTAUX - Crosslink-I, Length 55mm, Titanium	2
SP-323	VERTAUX - Crosslink-I, Length 65mm, Titanium	2
SP-304	VERTAUX - Crosslink-II, Length 40mm, Titanium	1
SP-305	VERTAUX - Crosslink-II, Length 45mm, Titanium	1
SP-306	VERTAUX - Crosslink-II, Length 50mm, Titanium	1
SP-307	VERTAUX - Crosslink-II, Length 55mm, Titanium	1
SP-308	VERTAUX - Crosslink-II, Length 60mm, Titanium	1
SP-309	VERTAUX - Crosslink-II, Length 65mm, Titanium	1
SP-310	VERTAUX - Crosslink-II, Length 70mm, Titanium	1
SP-311	VERTAUX - Crosslink-II, Length 75mm, Titanium	1
SP-312	VERTAUX - Crosslink-II, Length 80mm, Titanium	1
SP-313	VERTAUX - Crosslink-II, Length 85mm, Titanium	1
SP-314	VERTAUX - Crosslink-II, Length 90mm, Titanium	1
SP-319	VERTAUX - Crosslink-II, Length 95mm, Titanium	1
SP-315	VERTAUX - Crosslink-II, Length 100mm, Titanium	1
SP-316	VERTAUX - Crosslink-II, Length 105mm, Titanium	1
SP-317	VERTAUX - Crosslink-II, Length 110mm, Titanium	1
SP-318	VERTAUX - Crosslink-II, Length 115mm, Titanium	1
SP-320	VERTAUX - Crosslink-II, Length 120mm, Titanium	1

Code	Product Specification	Qty.
SP-324	VERTAUX - Rod, Ø 5.5mm x Length 50mm, Titanium	2
SP-325	VERTAUX - Rod, Ø 5.5mm x Length 60mm, Titanium	2
SP-326	VERTAUX - Rod, Ø 5.5mm x Length 70mm, Titanium	2
SP-327	VERTAUX - Rod, Ø 5.5mm x Length 80mm, Titanium	2
SP-328	VERTAUX - Rod, Ø 5.5mm x Length 90mm, Titanium	2
SP-329	VERTAUX - Rod, Ø 5.5mm x Length 100mm, Titanium	2
SP-330	VERTAUX - Rod, Ø 5.5mm x Length 110mm, Titanium	2
SP-331	VERTAUX - Rod, Ø 5.5mm x Length 120mm, Titanium	2
SP-332	VERTAUX - Rod, Ø 5.5mm x Length 130mm, Titanium	2
SP-333	VERTAUX - Rod, Ø 5.5mm x Length 140mm, Titanium	2
SP-334	VERTAUX - Rod, Ø 5.5mm x Length 150mm, Titanium	2
SP-335	VERTAUX - Rod, Ø 5.5mm x Length 160mm, Titanium	2
SP-336	VERTAUX - Rod, Ø 5.5mm x Length 170mm, Titanium	2
SP-337	VERTAUX - Rod, Ø 5.5mm x Length 180mm, Titanium	2
SP-338	VERTAUX - Rod, Ø 5.5mm x Length 200mm, Titanium	2
SP-339	VERTAUX - Rod, Ø 5.5mm x Length 220mm, Titanium	2
SP-340	VERTAUX - Rod, Ø 5.5mm x Length 240mm, Titanium	2
SP-341	VERTAUX - Rod, Ø 5.5mm x Length 250mm, Titanium	2
SP-342	VERTAUX - Rod, Ø 5.5mm x Length 260mm, Titanium	2
SP-343	VERTAUX - Rod, Ø 5.5mm x Length 280mm, Titanium	2
SP-344	VERTAUX - Rod, Ø 5.5mm x Length 300mm, Titanium	2
SP-345	VERTAUX - Rod, Ø 5.5mm x Length 350mm, Titanium	2
SP-346	VERTAUX - Rod, Ø 5.5mm x Length 400mm, Titanium	2
SP-347	VERTAUX - Rod, Ø 5.5mm x Length 450mm, Titanium	2
SP-348	VERTAUX - Rod, Ø 5.5mm x Length 500mm, Titanium	2
4-006-11	Implant Tray for Crosslink Connectors	1
4-006-12	Mesh Tray for Rods	1

SP-061   Set Screw Holder - Long

SP-052   Crosslink Hook Holder

SP-053   Rod Bender

SP-063   Star Screwdriver with Quick Coupling - Long

SP-064   Pedicle Sounding Probe, Straight

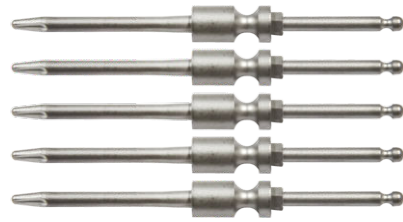

SP-065   Pedicle Sounding Probe, Curved

SP-066   Breaker

SP-067   Marker(L)

SP-068   Marker(R)

SP-069   Marker Inserter

SP-070   In-Situ Bender (L)

SP-071   In-Situ Bender (R)

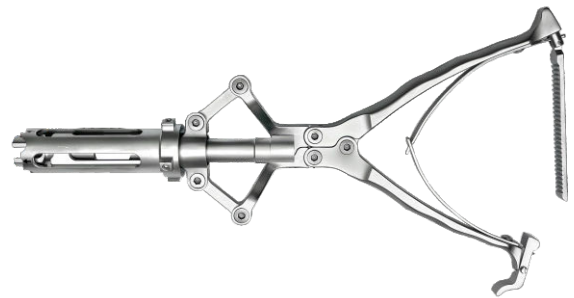**SP-054**   Hex Rod Rotation Wrench

SP-055   Power Gripper

7-116-01   Rod Reduction Forcep - Frog Type

SP-056   Distractor for 5.5mm Pedicle Screw

SP-057   Compressor for 5.5mm Pedicle Screw

SP-073   Awl for 5.5mm Pedicle Screw

SP-074   Straight Probe

SP-075   Curved Probe

SP-077   Tap, Ø4.5mm

SP-1950   Tap, Ø5.0mm

SP-078   Tap, Ø5.5mm

SP-079   Tap, Ø6.0mm

SP-080   Tap, Ø6.5mm

SP-1951   Tap, Ø7.0mm

SP-081   Screwdriver, Hex 3.5mm, for 5.5mm Pedicle Screw

SP-082   Mono-Axial Pedicle Screwdriver

SP-083   Mono-Axial Reduction Pedicle Screwdriver

SP-084   Poly-Axial Pedicle Screwdriver

SP-085 Poly-Axial Reduction Pedicle Screwdriver

SP-086 T-Handle with Quick Coupling for 5.5mm Pedicle Screw

SP-087 Template 120mm

SP-1952 Template 450mm

SP-088 Rod Pusher

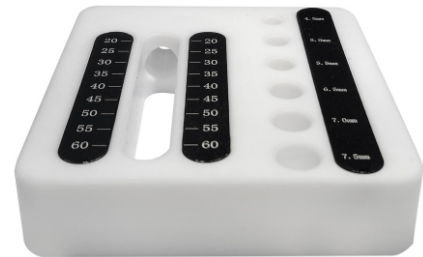**SP-089** Counter Torque

SP-090   Ratchet Handle for 5.5mm Pedicle Screw

SP-091   Pedicle Screw Measuring Device (White)

SP-092   Measuring Plate for Crosslink (Black)

SP-1953   Rod Holder, Curved

SP-093   Hex Rod Rotation Forcep

SP-094   Rod Push Forcep

SP-1493   Torque Limiter Handle, 10.0Nm

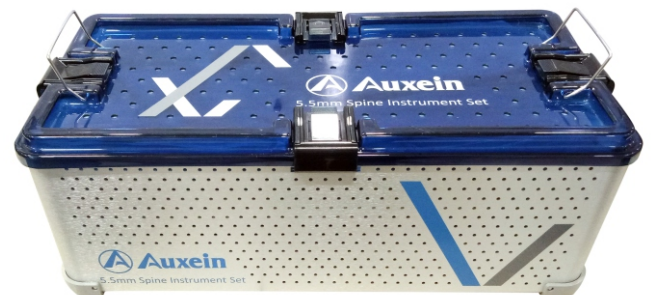**7-116-02**   Ratchet Handle T-Type for 5.5mm Pedicle Screw

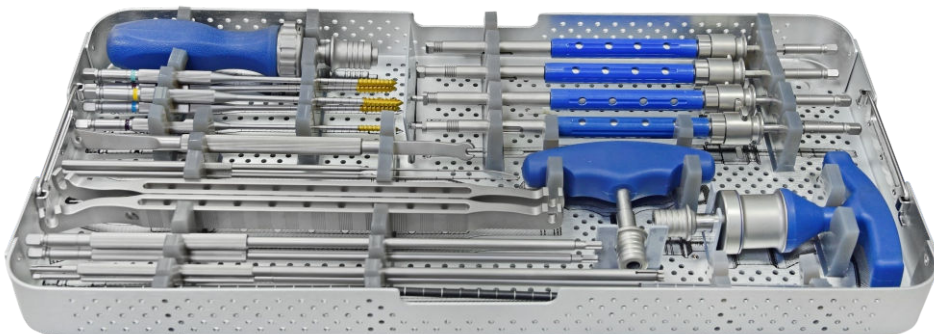**4-106-01**   Screwdriver, Hex 3.0mm for Crosslink Connector Type-III
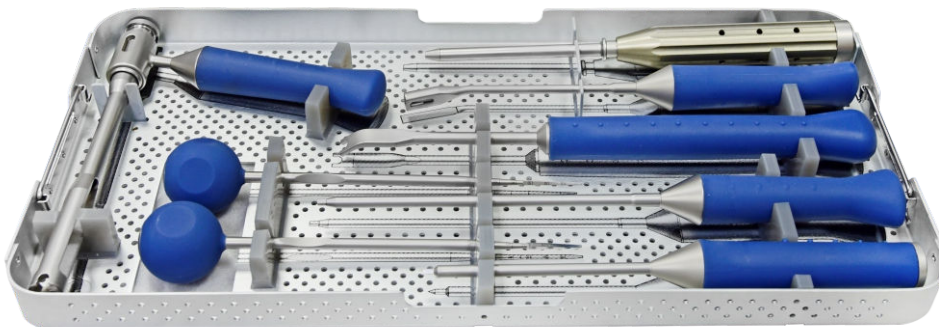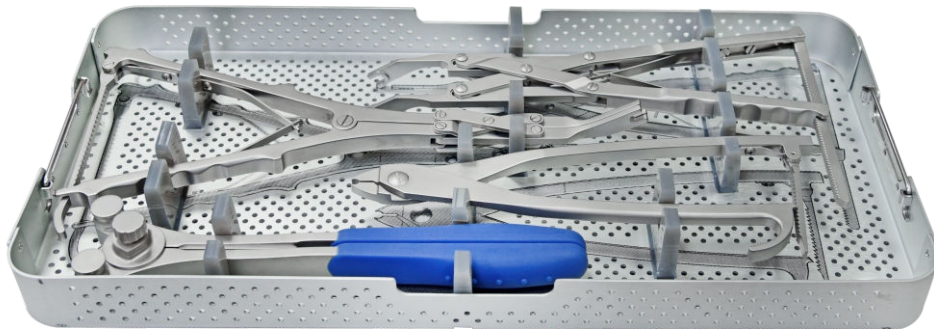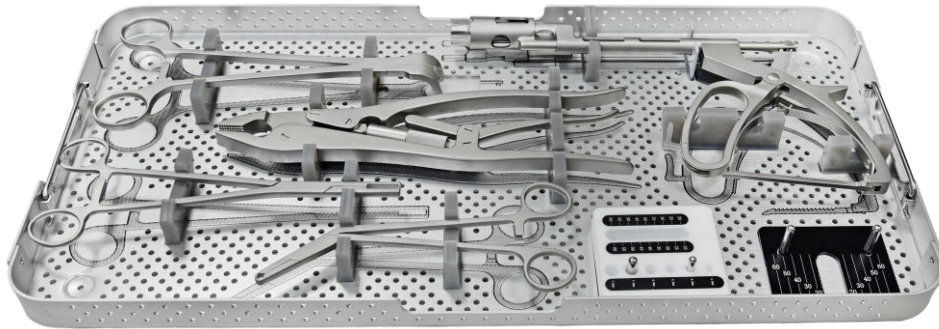
SP-468   Instrument Trays for Vertaux 5.5 Pedicle Screw Instrument Set

SP-059   Container with PPSU Lid for Vertaux 5.5 Pedicle Screw Instrument Set

SP-058 VERTAUX 5.5mm Pedicle Screw Instrument Set

Code	Set Consisting of	Qty.
SP-061	Set Screw Holder - Long	2
SP-052	Crosslink Hook Holder	1
SP-053	Rod Bender	1
SP-063	Star Screwdriver with Quick Coupling - Long	2
SP-064	Pedicle Sounding Probe, Straight	1
SP-065	Pedicle Sounding Probe, Curved	1
SP-066	Breaker	1
SP-067	Marker(L)	5
SP-068	Marker(R)	5
SP-069	Marker Inserter	1
SP-070	In-Situ Bender (L)	1
SP-071	In-Situ Bender (R)	1
SP-054	Hex Rod Rotation Wrench	1
SP-055	Power Gripper	1
7-116-01	Rod Reduction Forcep - Frog Type	1
SP-056	Distractor for 5.5mm Pedicle Screw	1
SP-057	Compressor for 5.5mm Pedicle Screw	1
SP-073	Awl for 5.5mm Pedicle Screw	1
SP-074	Straight Probe	1
SP-075	Curved Probe	1
SP-077	Tap, Ø4.5mm	1
SP-1950	Tap, Ø5.0mm	1
SP-078	Tap, Ø5.5mm	1
SP-079	Tap, Ø6.0mm	1
SP-080	Tap, Ø6.5mm	1
SP-1951	Tap, Ø7.0mm	1
SP-081	Screwdriver, Hex 3.5mm, for 5.5mm Pedicle Screw	1
SP-082	Mono-Axial Pedicle Screwdriver	1
SP-083	Mono-Axial Reduction Pedicle Screwdriver	1
SP-084	Poly-Axial Pedicle Screwdriver	1
SP-085	Poly-Axial Reduction Pedicle Screwdriver	1
SP-086	T-Handle with Quick Coupling for 5.5mm Pedicle Screw	1
SP-087	Template 120mm	1
SP-1952	Template 450mm	1
SP-088	Rod Pusher	1
SP-089	Counter Torque	1
SP-090	Ratchet Handle for 5.5mm Pedicle Screw	1
SP-091	Pedicle Screw Measuring Device (White)	1
SP-092	Measuring Plate for Crosslink (Black)	1
SP-1953	Rod Holder, Curved	1
SP-093	Hex Rod Rotation Forcep	1
SP-094	Rod Push Forcep	1
SP-1493	Torque Limiter Handle, 10.0Nm	1
7-116-02	Ratchet Handle T-Type for 5.5mm Pedicle Screw	1
4-106-01	Screwdriver, Hex 3.0mm for Crosslink Connector Type-III	1
SP-468	Instrument Trays for Vertaux 5.5 Pedicle Screw Instrument Set	4
SP-059	Container with PPSU Lid for Vertaux 5.5 Pedicle Screw Instrument Set	1

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