

# CSLP Quick Lock Screws.

Preassembled expansionhead screw and locking screw for use with Cervical Spine Locking Plates (CSLP).

Surgical Technique



This publication is not intended for distribution in the USA.

Instruments and implants approved by the AO Foundation.

---

 Image intensifier control

This description alone does not provide sufficient background for direct use of DePuy Synthes products. Instruction by a surgeon experienced in handling these products is highly recommended.

**Processing, Reprocessing, Care and Maintenance**

For general guidelines, function control and dismantling of multi-part instruments, as well as processing guidelines for implants, please contact your local sales representative or refer to:

<http://emea.depuyshnthes.com/hcp/reprocessing-care-maintenance>

For general information about reprocessing, care and maintenance of Synthes reusable devices, instrument trays and cases, as well as processing of Synthes non-sterile implants, please consult the Important Information leaflet (SE\_023827) or refer to:

<http://emea.depuyshnthes.com/hcp/reprocessing-care-maintenance>

# Table of Contents

---

<b>Introduction</b>	CSLP Quick Lock Screws	2
	AO Principles	3
	Indications and Contraindications	4

---

<b>Surgical Technique</b>	Preparation	5
	Screw Insertion	6
	Alternative Technique	7
	Screw Removal	7

---

<b>Product Information</b>	Instruments, Screws and Sets	8
----------------------------	------------------------------	---

**CSLP Quick Lock Screws.** Preassembled expansionhead screw and locking screw for use with Cervical Spine Locking Plates (CSLP).

The CSLP Quick Lock cancellous screw is compatible with Synthes CSLP plates (CSLP Classic, Narrow and Variable Angle) and integrates the locking screw into the expansion-head screw.

The CSLP Quick Lock screw eliminates the separate two-piece expansionhead bone screw and the additional 1.8 mm locking screw by combining the screws as a single preassembled piece.

Quick Lock screws reduce CSLP instrumentation time and save the additional steps of placing the locking screws.

**Features**

- Available in 12 mm, 14 mm, 16 mm, 18 mm, 20 mm lengths
- Like all CSLP screws, Quick Lock screws are color-coded by length
- Implants are made of titanium alloy (Ti-6Al-7Nb alloy)
- The CSLP Quick Lock screw set consists of:
  - Self-drilling and self-tapping screws
  - Cannulated self-retaining screwdriver
  - Screwdriver for Quick Lock Screws
  - Module for screw storage



Self-drilling screws



Self-tapping screws

**CSLP plate and quick lock screw compatibility**

	CSLP Classic plates	CSLP Narrow plates	CSLP Variable Angle
Self-tapping screws	12 mm, 14 mm and 16 mm	12 mm, 14 mm and 16 mm	12 mm–20 mm
Self-drilling screws	Not recommended for use	Not recommended for use	12 mm–20 mm

# AO Principles

---

In 1958, the AO formulated four basic principles, which have become the guidelines for internal fixation.<sup>1</sup> They are:

- Anatomical reduction
- Stable internal fixation
- Preservation of blood supply
- Early, active mobilization

The fundamental aims of fracture treatment in the limbs and fusion of the spine are the same. A specific goal in the spine is returning as much function as possible to the injured neural elements.<sup>1</sup>

## **AO Principles as applied to the spine<sup>2</sup>**

### **Anatomical alignment**

Restoration of normal spinal alignment to improve the biomechanics of the spine.

### **Stable internal fixation**

Stabilization of the spinal segment to promote bony fusion.

### **Preservation of blood supply**

Creation of an optimal environment for fusion.

### **Early, active mobilization**

Minimized damage to the spinal vasculature, dura, and neural elements, which may contribute to pain reduction and improved function for the patient.

<sup>1</sup> Müller ME, Allgöwer M, Schneider R, Willenegger H (1995) Manual of Internal Fixation. 3rd, exp. a. completely rev. ed. 1991. Corr. 3rd printing. Berlin, Heidelberg, New York: Springer

<sup>2</sup> Aebi M, Arlet V, Webb JK (2007) AOSPINE Manual (2 vols), Stuttgart, New York: Thieme

# Indications and Contraindications

---

## Indications

The CSLP Quick Lock screws are intended for anterior screw fixation to the cervical spine (C2–T2) for the following indications:

- Degenerative disc disease (DDD), defined as neck pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies.
- Spondylolisthesis
- Spinal stenosis
- Tumors (primary and metastatic)
- Failed previous fusions
- Pseudoarthrosis
- Deformity (i.e., kyphosis, lordosis, and/or scoliosis)
- Fractures/dislocations
- Partial or complete spondylectomy

## Contraindications

- Severe osteoporosis and indications not listed above
- Any indication where fusion is not required

# Preparation

---

## Required Sets

68.610.116	Insert, size 1/2, for Quick Lock, for Vario Case No. 687.065
68.610.122	Insert, size 1/2 for Quick Lock, for Vario Case No. 687.070
687.065	Vario Case for Cervical Spine Locking Plates with variable angle, with Lid, without Contents (CSLP Variable Angle)
or	
687.070	Vario Case for Cervical Spine Locking Plates 4.0/4.35, with Lid, without Contents (CSLP Classic/Narrow)

---



# Screw Insertion

## 1

### Insert the CSLP Quick Lock screw

---

#### Instrument

---

03.610.602      Screwdriver for Quick Lock Screws

---

Insert the appropriate length screw using the screwdriver for Quick Lock screws and advance until the screw lags to the bone.



## 2

### Tighten the locking screw

---

#### Instrument

---

03.610.601      Screwdriver for Locking of Quick Lock  
Screws

---

When the screw is appropriately lagged, engage the screwdriver for locking of Quick Lock screws and tighten the locking screw.





# Alternative Technique/ Screw Removal

---

## Alternative technique

---

### Instruments

---

03.610.601	Screwdriver for Locking of Quick Lock Screws
------------	--

---

03.610.602	Screwdriver for Quick Lock Screws
------------	-----------------------------------

---

Insert the appropriate length screw using the screwdriver for Quick Lock screws and advance until the screw lags to the bone.

When the screw is appropriately lagged, place the screwdriver for locking of Quick Lock screws through the barrel of the screwdriver for Quick Lock screws, and tighten the locking screw, using the screwdriver for Quick Lock screws as a counter torque sleeve.



---

## Screw removal

---

### Instruments

---

03.610.601	Screwdriver for Locking of Quick Lock Screws
------------	--

---

03.610.602	Screwdriver for Quick Lock Screws
------------	-----------------------------------

---

To remove the Quick Lock screw, place the screwdriver for locking of Quick Lock screws into the locking screw and turn the handle counterclockwise until it stops. The locking screw will not separate from the bone screw. When the locking screw is fully loosened, place the screwdriver for Quick Lock screws into the screw and turn the handle counterclockwise until the screw is extracted.

# Instruments, Screws and Sets

## Instruments

03.610.601 Screwdriver for locking of Quick Lock Screws



03.610.602 Screwdriver for Quick Lock Screws



## Screws\*

Quick Lock Screws, Ø 4.0 mm, self-drilling, Titanium Alloy (TAN)

Art. No.	Length	Color
04.610.112	12 mm	light blue
04.610.114	14 mm	gold
04.610.116	16 mm	violet
04.610.118	18 mm	light green
04.610.120	20 mm	light green



Quick Lock Screws, Ø 4.5 mm, self-drilling, Titanium Alloy (TAN)

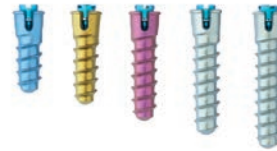
Art. No.	Length	Color
04.610.212	12 mm	light blue
04.610.214	14 mm	gold
04.610.216	16 mm	violet
04.610.218	18 mm	light green
04.610.220	20 mm	light green



\* All screws are also available sterile packed.  
Add suffix "S" to article number.

Quick Lock Screws, Ø 4.0 mm, self-tapping,  
Titanium Alloy (TAN)

Art. No.	Length	Color
04.610.512	12 mm	light blue
04.610.514	14 mm	gold
04.610.516	16 mm	violet
04.610.518	18 mm	light green
04.610.520	20 mm	light green



Quick Lock Screws, Ø 4.5 mm, self-tapping,  
Titanium Alloy (TAN)

Art. No.	Length	Color
04.610.612	12 mm	light blue
04.610.614	14 mm	gold
04.610.616	16 mm	violet
04.610.618	18 mm	light green
04.610.620	20 mm	light green



### Required Sets

68.610.116	Insert, size 1/2, for Quick Lock, for Vario Case No. 687.065
68.610.122	Insert, size 1/2 for Quick Lock, for Vario Case No. 687.070
687.065	Vario Case for Cervical Spine Locking Plates with variable angle, with Lid, without Contents (CSLP Variable Angle)
or	
687.070	Vario Case for Cervical Spine Locking Plates 4.0/4.35, with Lid, without Contents (CSLP Classic/Narrow)



