

SURGICAL TECHNIQUE



CLINK-P

Anterior Cervical Plate System



CLINK-P
Anterior Cervical
Plate System

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CLINK-P

Anterior Cervical Plate System

INTRODUCTION

CLINK-P Features

- *Provide high strength with low thickness*
- *Provide effective and simple use*
- *Flexible blocking system securely lock screw*
- *Rounded peripheral rim lowers the aggressiveness of the implant over soft tissue*

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INTRODUCTION



Indications

The *Clink-P* is used in anterior plating of the cervical spine (C2 –T2) for the internal fixation in the treatment of instabilities associated with:

- Fractures/dislocations
- Degenerative diseases
- Tumours
- Partial or total spondylectomy

Contraindications

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



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1

Patient positioning



Patient is placed in a supine position with the head turned slightly away from the side of the approach. (Figure 1a)

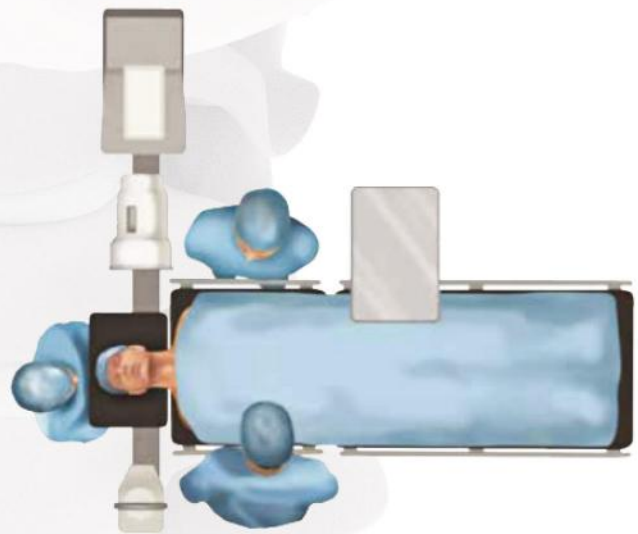


Figure 1a

2

Exposure



For one or two level procedures, a transverse incision parallel to the skin creases of the neck is recommended. For longer level procedures, one can choose to do a transverse or oblique incision placed along the anterior border of the sternocleidomastoid. (Figure 2a)



Figure 2a

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3

Polyaxial Screw Hole Preparation



A **Clink-P Holder (CP001)** is available to hold the plate next to the vertebral column to confirm size selection. (Figure 3a, 3b)

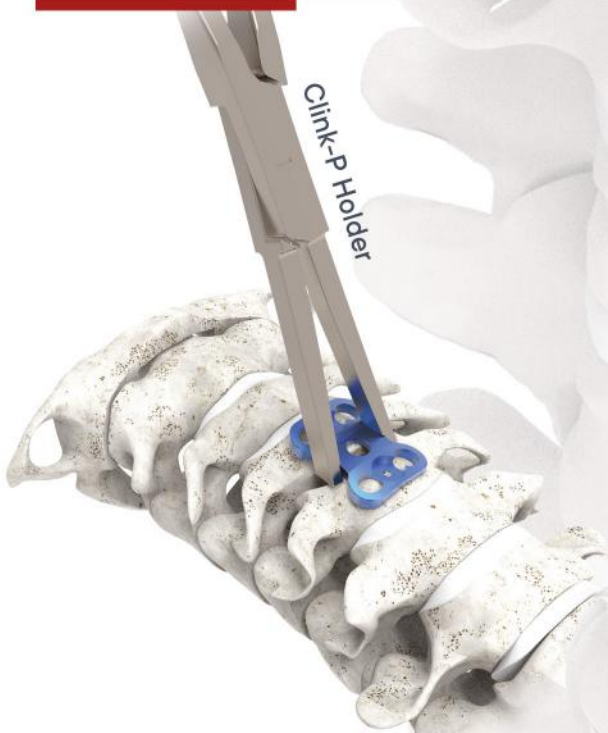


Figure 3a



Figure 3b

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Pin Insertion



Pins (CP010) are available to hold the plate during screw hole preparation (Figure 4a). Ensure the plate is properly aligned with respect to the endplates. Load the **Pin (CP010)** onto the **Pin Holder (CP009)**. Ensure the plate is properly aligned with respect to the endplates, then position the pin in the center of the screw hole. Apply slight downward pressure while threading the **Pin (CP010)** into the screw hole.

Step 2

Step 1



Figure 4a

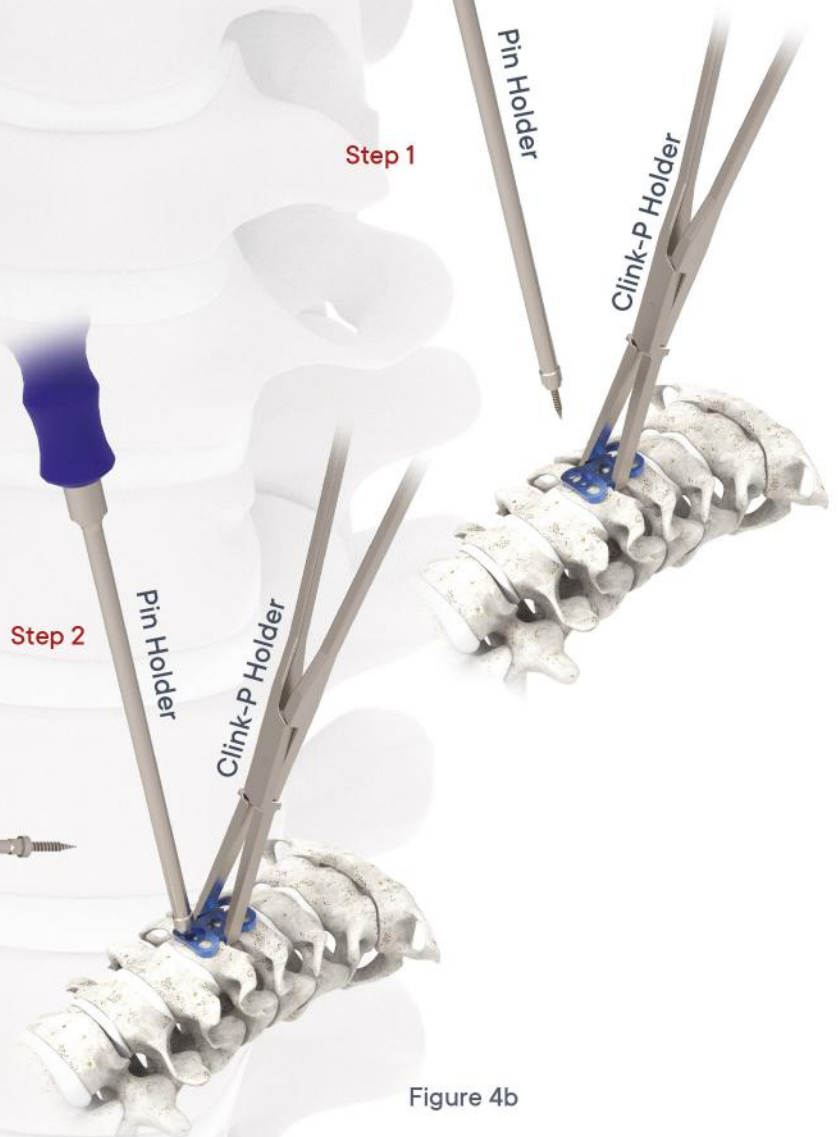


Figure 4b

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5

Setting Drill Guide Depth



Lightly tap **AwI (CP003)** until tip is through the cortical surface of the vertebral body to create a pilot hole .
(Figure 5a, 5b)



Figure 5a

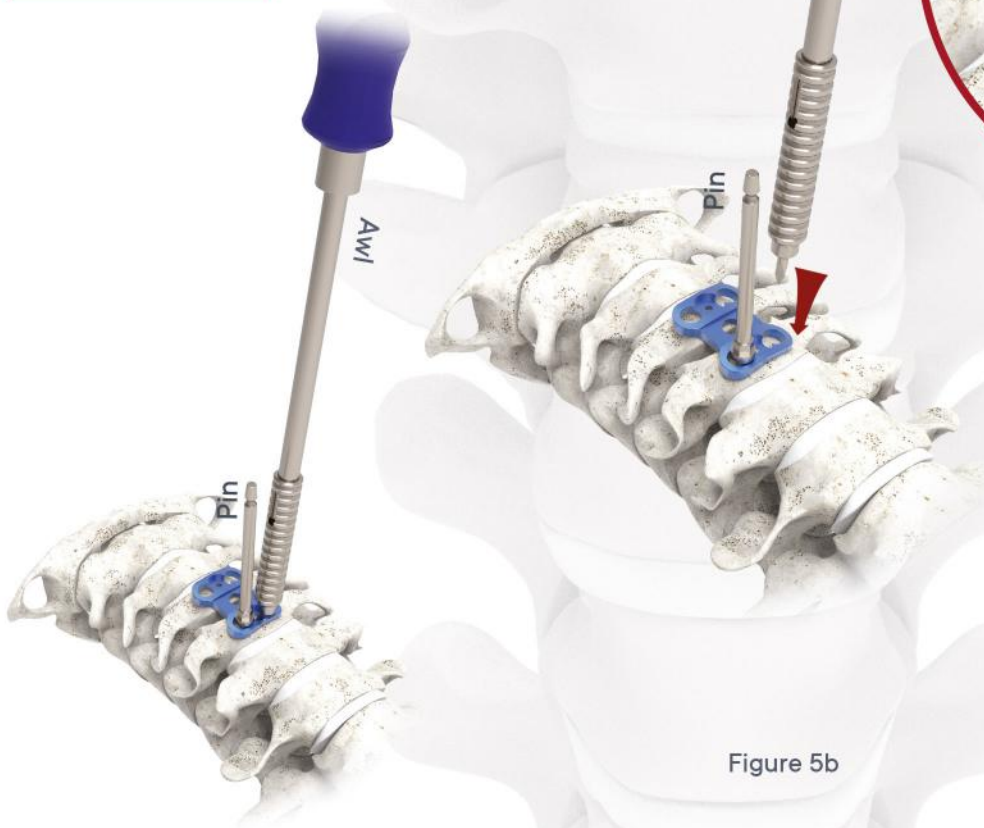


Figure 5b

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Tapping



Figure 6b



Figure 6a



Once the drill bit is advanced to the preselected depth, a positive stop will prohibit the drill bit from advancing any farther. **Drill Guide (PCS013)**

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Drilling



Select the appropriate length **Drill (CP004)**. Insert the Drill into the **Tap & Drill Sleeve (CP011)** and rotate the handle in a clockwise direction to create the pilot hole for the screw. (Figure 7a, 7b, 7c)



Figure 7a



Figure 7b

NOTE:

The depth stop will limit the drilling depth by contacting the **Tap & Drill Sleeve (CP011)**.



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Optional Instrument

Tap & Drill Sleeve Double Entry



Tap & Drill Sleeve Double Entry (CP012) allow awling with the Awl for use with Drill Guide, drilling, tapping with the all in one Tap and variable screw insertion through the sleeves.

Tap & Drill Sleeve
Double Entry



Figure A



Figure B

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Screw Insertion



Figure 8a



Figure 8b



Attach the screws to a **Plate Screw Driver (CP006)**, then load the appropriate length screw. Screws should be inserted to the point where they are just above the blocking mechanism. Inserting the screws sequentially at opposite corners of the plate helps keep the plate flat against the bone. (Figure 8a, 8b)

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Plate Locking



Ensure that both screws are fully seated and underneath the blocking mechanism. Rotate the locking mechanism to the secured position using the **Plate Locker Double Tooth (CP008)**. (Figure 9a, 9b)

Plate Locker
Double Tooth

Plate Locker
Double Tooth



Figure 9b



Figure 9a

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Final Position



Check the final position of the plate and screws both visually and radiographically. Ensure that all screws are flush or recessed relative to the anterior surface of the plate, covered by the blocking mechanism and that the locking mechanism is in the horizontal position. (Figure 10a)



Figure 10a

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IMPLANT TYPES



 **CLINK-P ANTERIOR CERVICAL
PLATE SYSTEM**

 **CERVICAL ANTERIOR
PLATE SCREW**



Catalogue No.

NNCAP17
NNCAP20
NNCAP25
NNCAP30
NNCAP33
NNCAP36
NNCAP45
NNCAP50
NNCAP60
NNCAP70
NNCAP80
NNCAP90

Length

17 mm
20 mm
25 mm
30 mm
33 mm
36 mm
45 mm
50 mm
60 mm
70 mm
80 mm
90 mm

Holes

4
4
4
6
6
6
8
8
8
10
12
14

Thickness

2 mm
2 mm
2 mm
2 mm
2 mm
2 mm
2 mm
2 mm
2 mm
2 mm
2 mm
2 mm

Catalogue No.


NNCAPS12
NNCAPS14
NNCAPS16
NNCAPS18
NNCAPS20

Length

12 mm
14 mm
16 mm
18 mm
20 mm

Diameter

4 mm
4 mm
4 mm
4 mm
4 mm

 **CERVICAL ANTERIOR
PLATE SCREW REVISION**



Catalogue No.

NNCAPSR12
NNCAPSR14
NNCAPSR16
NNCAPSR18
NNCAPSR20

Length

12 mm
14 mm
16 mm
18 mm
20 mm

Diameter

4,5 mm
4,5 mm
4,5 mm
4,5 mm
4,5 mm

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INSTRUMENT CONTAINER



This container is made of wiremesh stainless steel. It has a high stability, low weight and good sterilization feature.



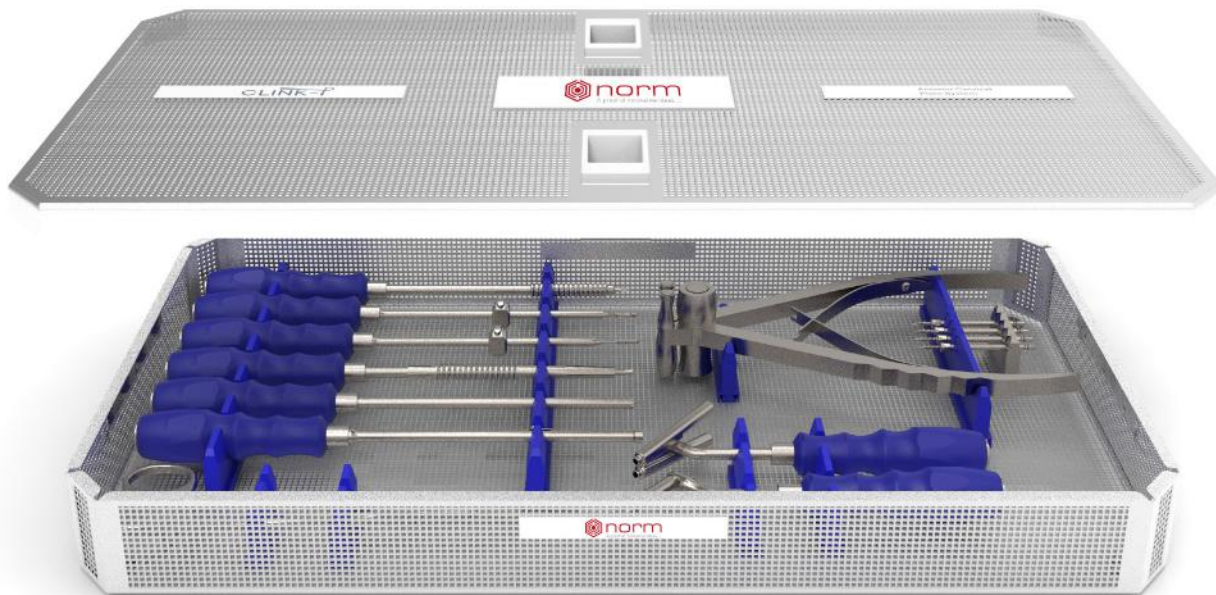
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INSTRUMENT CONTAINER



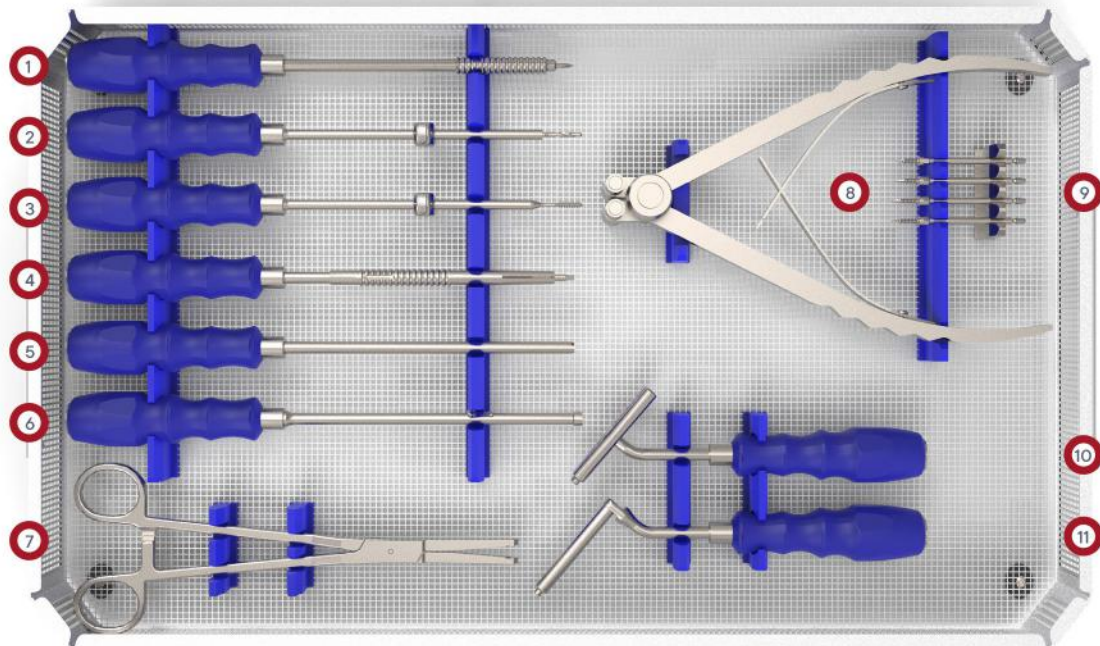
This container is made of wiremesh stainless steel. It has a high stability, low weight and good sterilization feature.



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INSTRUMENT TYPES





	Set No.	Catalogue No.	Description
	01	CP003	Awl
	02	CP004	Drill
	03	CP005	Tap

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INSTRUMENT TYPES

	Set No.	Catalogue No.	Description
	04	CP006	Plate Screw Driver
	05	CP008	Plate Locker Double Tooth
	06	CP009	Pin Holder
	07	CP001	Clink-P Holder
	08	CP002	Clink-P Bender
	09	CP010	Pin
	10	CP012	Tap & Drill Sleeve Double Entry
	11	CP011	Tap & Drill Sleeve

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CONTACT



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CLINK-P Surgical Technique Norm

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