SURGICAL TECHNIQUE

VERTELIFT_C

Anterior Cervical

Corpectomy Cage





Anterior Cervical
Corpectomy Cage

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INTRODUCTION



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Anterior Cervical

Corpectomy Cage

INTRODUCTION



VERTELIFT Features

- Manufactured from Titanium Alloys
- Angled inferior and superior area allow a complete contact with vertebral surface and composed by one piece
- Allowing a complete contact with vertebral surface
- Provide a secure fixation with the feature of threaded surface
- Prevent any dislocation
- Efficient grafting space before distraction
- Provide one stage locking mechanism









Anterior Cervical
Corpectomy Cage

INTRODUCTION



Indications

Anterior cervical corpectomy and fusion is performed for patients with symptomatic, progressive cervical spinal stenosis and myelopathy. It is performed to remove the large, arthritic osteophytes (bone spurs) that are compressing the spinal cord and spinal nerves. However, in order to do so generally involves removing nearly the entire vertebral body and disc, which must be replaced with a piece of bone graft and mended (fused) together to maintain stability.

Contraindications

- Severe osteoporosis
- Reconstruction of more than three adjacent vertebral bodies





Anterior Cervical

Corpectomy Cage

SURGICAL TECHNIQUE

1

Patient positioning



Place the patient in a supine position. Proper positioning should be confirmed with a radiograph prior to draping. (Figure 1a)



Figure 1a

2

Exposure



Expose the vertebral bodies through a corresponding approach to the cervical spine. (Figure 2a)



Figure 2a

Anterior Cervical
Corpectomy Cage

SURGICAL TECHNIQUE

3

Perform Corpectomy





Excise the disc material and the superficial layers of the cartilaginous parts of the adjacent endplates. Adequate cleaning of the endplate (especially in the peripheral parts) is important for the vascular supply. (Figure 3a)



Anterior Cervical
Corpectomy Cage

SURGICAL TECHNIQUE

4

Determine Implant Size





The measurement should be confirmed in situ with an Length Guide (CC005). It is recommended to measure in situ from the posterior aspect of the inferior endplate of the vertebral body above the affected level to the posterior aspect of the superior endplate of the vertebral body below the affected level. (Figure 5a,5b)

Length Guide

Figure 4b

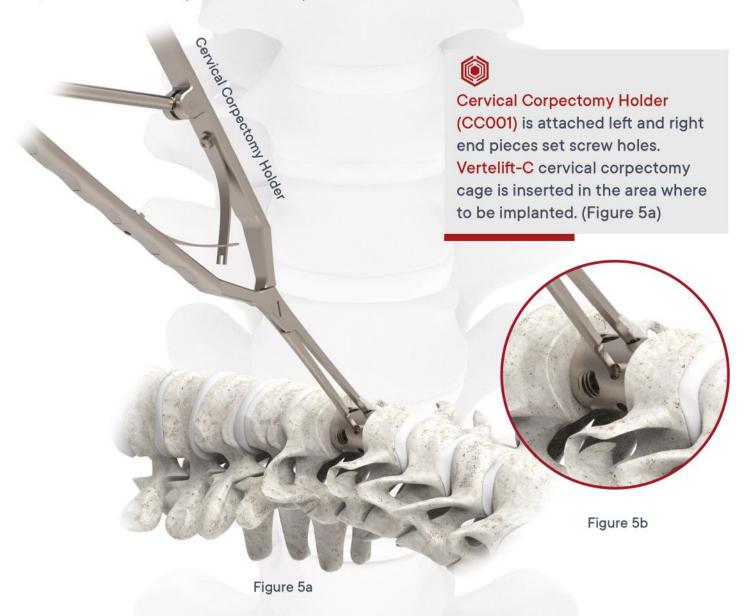


Anterior Cervical
Corpectomy Cage

SURGICAL TECHNIQUE

5

Implant Attachment (For One Sided)







Anterior Cervical
Corpectomy Cage

SURGICAL TECHNIQUE

6

Distraction (For One Sided)



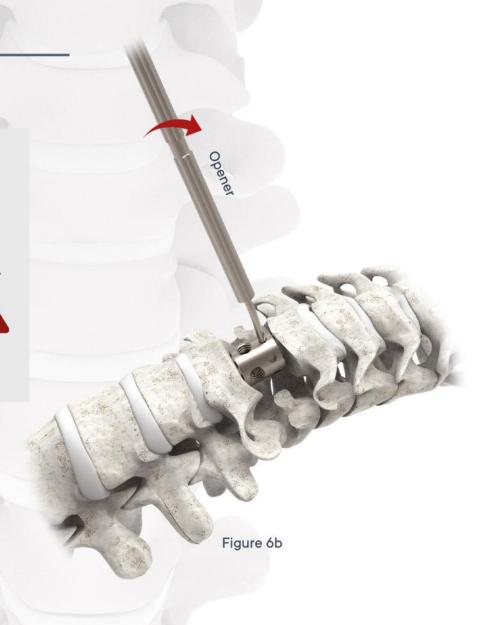
The Opener (CC003) is inserted into the rotation holes of the center piece. Distraction is achieved by turning the center piece as indicated by the arrows.

NOTE:

As soon as the blue portion becomes visible, the maximum distraction height is achieved.



Figure 6a







Anterior Cervical
Corpectomy Cage

SURGICAL TECHNIQUE

7

Implant Locking (For One Sided)



After the correct position of the implant has been checked the end pieces are locked to the center piece using a Lock Screw Fixer (CC002).



Lock Screw Fixer



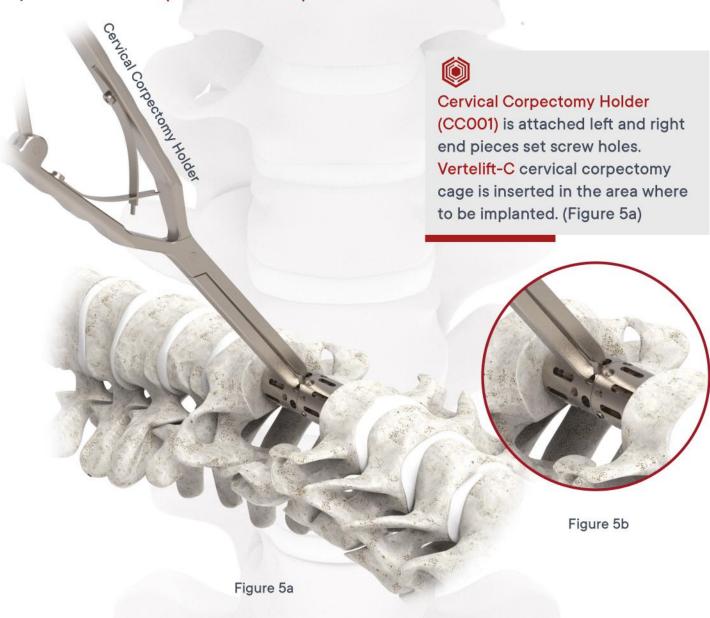


Anterior Cervical
Corpectomy Cage

SURGICAL TECHNIQUE

5

Implant Attachment (Dual Distractible)





Anterior Cervical Corpectomy Cage

SURGICAL TECHNIQUE

6

Distraction (Dual Distractible)



The Opener (CC003) is inserted into the rotation holes of the center piece. Distraction is achieved by turning the center piece as indicated by the arrows.

NOTE:

As soon as the blue portion becomes visible, the maximum distraction height is achieved.





Figure 6a



Figure 6b



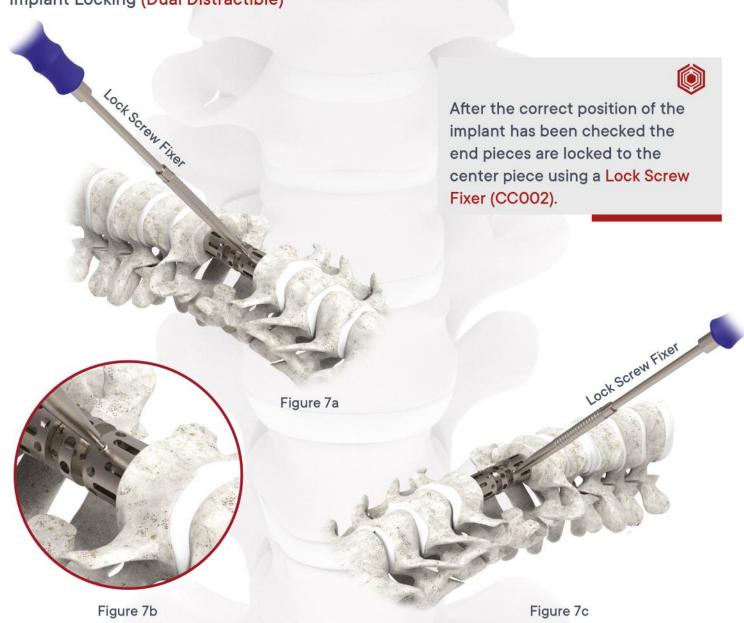


Anterior Cervical
Corpectomy Cage

SURGICAL TECHNIQUE

7

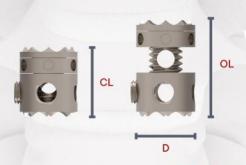
Implant Locking (Dual Distractible)





Anterior Cervical
Corpectomy Cage

IMPLANT SIZES





VERTELIFT-C CORPECTOMY CAGE

Catalogue No. Diameter Closed Length Open Lenghth

NCTC101013 10 mm NCTC101317 10 mm NCTC121013 12 mm NCTC121317 12 mm NCTC141013 14 mm NCTC141317 14 mm NCTC161013 16 mm NCTC161317 16 mm NCTC201013 20 mm NCTC201317 20 mm 10 mm 13 mm 10 mm 13 mm 10 mm 10 mm 13 mm 10 mm 13 mm

17 mm 13 mm 17 mm 13 mm 17 mm 13 mm 17 mm 13 mm 17 mm

13 mm



Anterior Cervical
Corpectomy Cage

IMPLANT SIZES





VERTELIFT-C CORPECTOMY CAGE

Catalogue No. Diameter Closed Length Open Lenghth Angle

7 10				
NCTC101625	10 mm	16 mm	25 mm	
NCTC121625	12 mm	16mm	25 mm	
NCTC1216256	12 mm	16 mm	25 mm	6°
NCTC122440	12 mm	24 mm	40 mm	
NCTC1224406	12 mm	24 mm	40 mm	6°
NCTC123965	12 mm	39 mm	65 mm	
NCTC1239656	12 mm	39 mm	65 mm	6°
NCTC141625	14 mm	16 mm	25 mm	
NCTC1416256	14 mm	16 mm	25 mm	6°
NCTC142440	14 mm	24 mm	40 mm	
NCTC1424406	14 mm	24 mm	40 mm	6°
NCTC143965	14 mm	39 mm	65 mm	
NCTC1439656	14 mm	39 mm	65 mm	6°
NCTC161625	16 mm	16 mm	25 mm	
NCTC162440	16 mm	24mm	40 mm	
NCTC163965	16 mm	39 mm	65 mm	
NCTC201625	20 mm	16 mm	25 mm	
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proof of innovative ideas ...



Anterior Cervical
Corpectomy Cage

INSTRUMENT CONTAINER

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



Container





Anterior Cervical Corpectomy Cage

INSTRUMENT CONTAINER

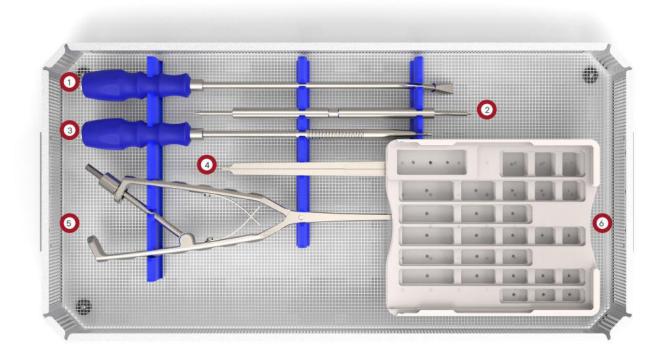






Anterior Cervical
Corpectomy Cage

INSTRUMENT TYPES







Anterior Cervical

Corpectomy Cage

INSTRUMENT TYPES

Set No. Catalogue No. Description Piece

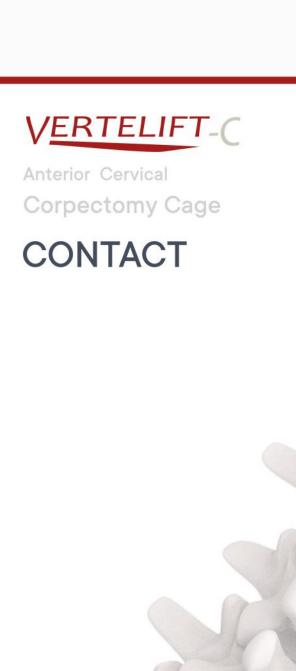














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Corpectomy Cage

INTRODUCTION



ZEK Features

- Full contact, full fusion through unique movable head technology
- Fit with the anatomy of patient
- · Adjustable easily with threaded mechanism
- Adjustable easily with threaded surface
- Include a pre-assembled locking screw which can be engagaed after distraction to lock mechanism
- Vertebral body replacement system to replace vertebral body







Corpectomy Cage

INTRODUCTION



Indications

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Corpectomy Cage

SURGICAL TECHNIQUE

1

Patient positioning



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Figure 1a

2

Exposure



Expose the vertebral bodies through a corresponding approach to the cervical spine. (Figure 2a)



Figure 2a

ZEK

Anterior Thoracolumbar

Corpectomy Cage

SURGICAL TECHNIQUE

3

Perform Corpectomy



Figure 3a



Excise the disc material and the superficial layers of the cartilaginous parts of the adjacent endplates. Adequate cleaning of the endplate (especially in the peripheral parts) is important for the vascular supply. (Figure 3a)



<u> ZEK</u>

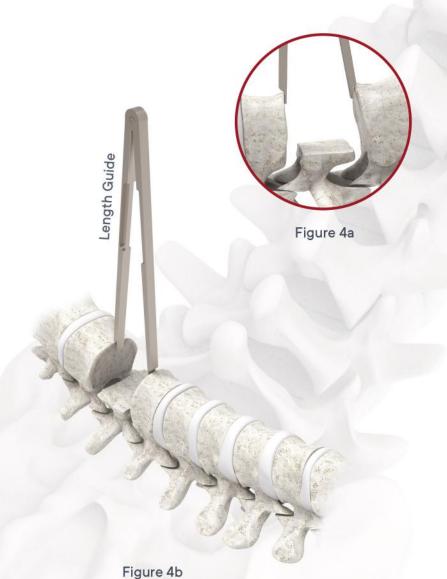
Anterior Thoracolumbar

Corpectomy Cage

SURGICAL TECHNIQUE

4

Determine Implant Size





The measurement should be confirmed in situ with an Length Guide (LC003). It is recommended to measure in situ from the posterior aspect of the inferior endplate of the vertebral body above the affected level to the posterior aspect of the superior endplate of the vertebral body below the affected level. (Figure 5a,5b)

Length Guide



Corpectomy Cage

SURGICAL TECHNIQUE

5

Implant Attachment



Zek Corpectomy Holder

(ALCOO1) is attached left and right end pieces set screw holes. Zek corpectomy cage is inserted in the area where to be implanted.



Figure 5a



ZEK

Anterior Thoracolumbar

Corpectomy Cage

SURGICAL TECHNIQUE

6

Implant Placement



The Zek corpectomy cage is brought into the correct position with the Corpectomy Pusher (LC004).

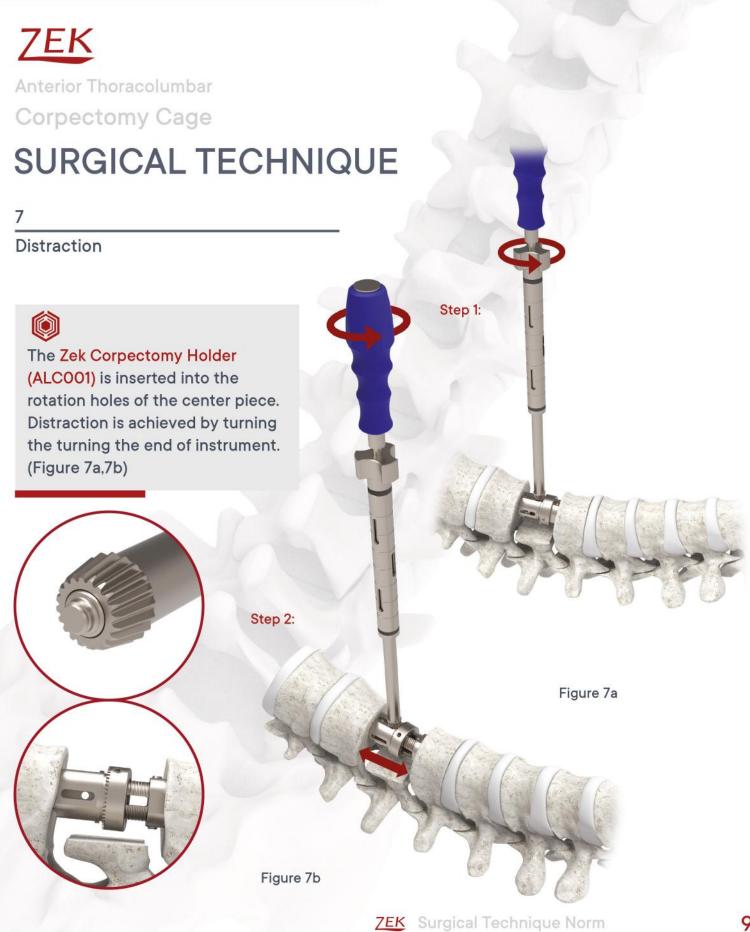


Figure 6a



Figure 6b







ZEK

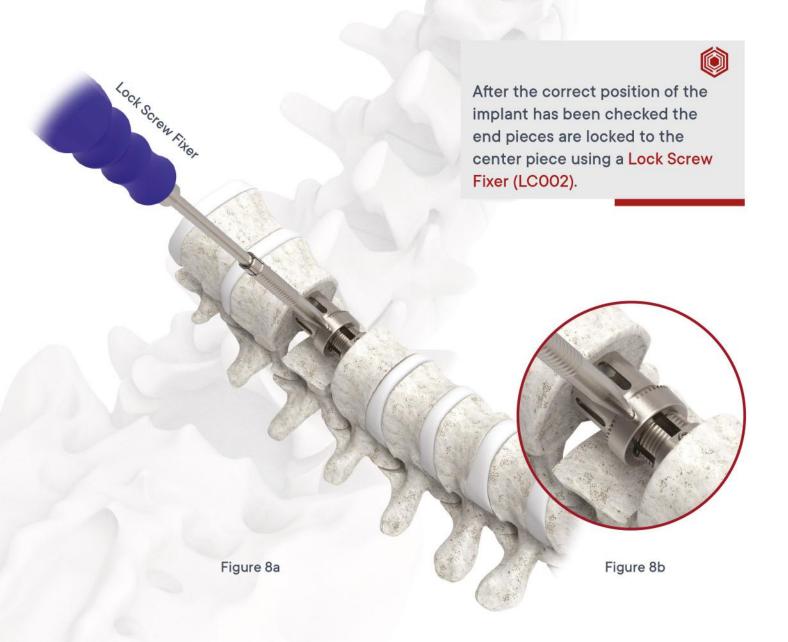
Anterior Thoracolumbar

Corpectomy Cage

SURGICAL TECHNIQUE

8

Locking The Implant





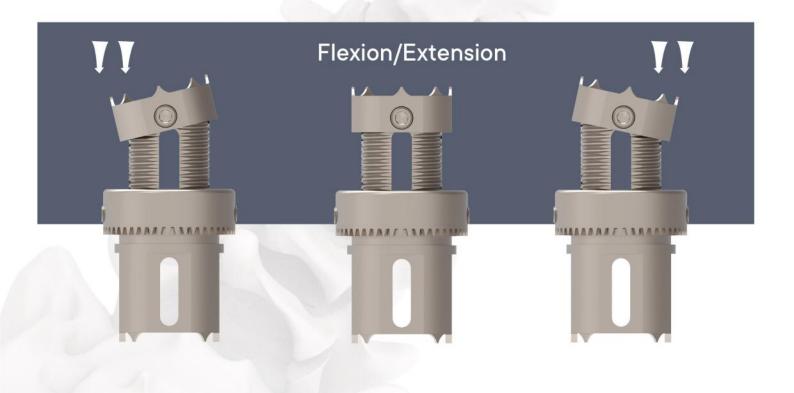


Corpectomy Cage

KINEMATICS



ZEK CORPECTOMY CAGE







Corpectomy Cage

IMPLANT SIZES





ZEK CORPECTOMY CAGE

Catalogue No. Diameter Closed Length Open Lenghth

NVTCZ202534
NVTCZ203244
NVTCZ204258
NVTCZ205684
NVTCZ242329
NVTCZ242840
NVTCZ243854
NVTCZ245276
NVTCZ2474114
NVTCZ283244
NVTCZ284258
NVTCZ285684

20	mm
20	mm
20	mm
20	mm
24	mm
28	mm
28	mm
28	mm

25 mm
32 mm
42 mm
56 mm
23 mm
28 mm
38 mm
52 mm
74 mm
32 mm
42 mm
56 mm

34 mm
44 mm
58 mm
84 mm
29 mm
40 mm
54 mm
76 mm
114 mm
44 mm
58 mm
84 mm





Corpectomy Cage

INSTRUMENT CONTAINER

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



Container





Corpectomy Cage

INSTRUMENT CONTAINER



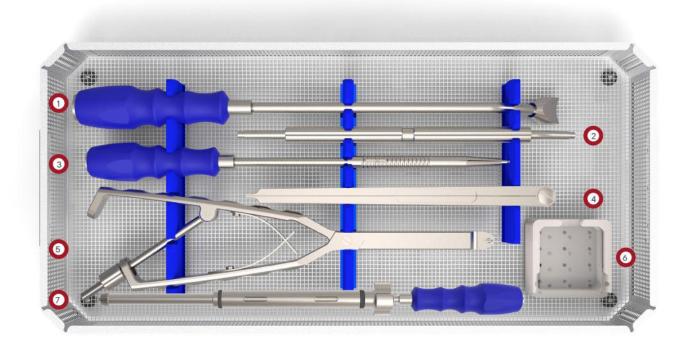
Container





Corpectomy Cage

INSTRUMENT TYPES







ZEK

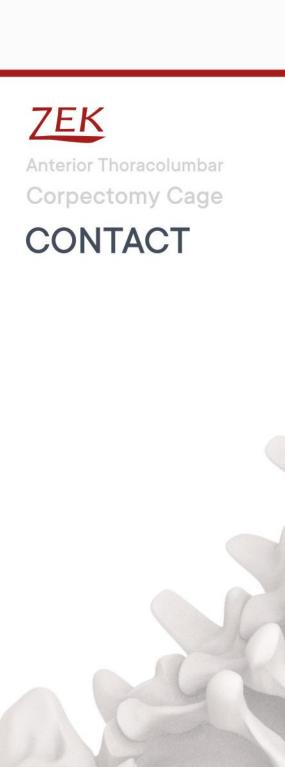
Anterior Thoracolumbar

Corpectomy Cage

INSTRUMENT TYPES

Set No. Catalogue No. Description Piece LC002 03 Lock Screw Fixer LC003 04 Length Guide **Lumbar Corpectomy** LC001 05 Holder 06 CSK58x25 Corpectomy Screw Box Zek Corpectomy ALC001 Holder







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