



Mediox

EROS-C Cage Systems

Surgical Technique

CONTENTS

Technique

Features and benefits	01
Patient positioning	02
Exposure and decompression	02
Segment distraction	02
Endplate preparation	03
Implant size determination	03
Implant preparation	03
Implant insertion	04
Supplemental fixation	05

Implants	05
----------	----

Instruments	06
-------------	----

Features and benefits

- Biocompatible radiolucent PEEK allows clear assessment of bony fusion;
- Tantalum markers provide better visualization than titanium alloy;
- Large central canal to allow fusion to occur through the implant;
- Sharp teeth provides resistance to implant migration;
- Anatomic shapes to accommodate cervical anatomy.



Indications

- Cervical pathologies for which segmental arthrodesis is indicated:
- Degenerative disc diseases and instabilities;
- Ruptured and herniated discs;
- Pseudarthrosis or failed spondylodesis.

Contraindications

- Osteoporosis;
- Severe instabilities;
- Infections.
- Vertebral body fractures;
- Spinal tumors;

Surgical technique guide

Patient positioning

Position the patient in a supine position on a radiolucent operating table. Ensure that the neck of the patient is in a sagittally neutral position and supported by a cushion. When treating C6–C7 make sure that the shoulders do not limit the x-ray monitoring. For all cases, both vertebrae should be completely visible.



Exposure and decompression

Locate the correct operative level under radiographic control and incise. Expose the intervertebral disc and the adjacent vertebral bodies through a standard anterior approach to the cervical spine.

Prepare the fusion site following the appropriate technique for the given indication. The scraper can initially be used to ream out disc material and moderate distraction.



Segment distraction

Attach the distraction pin and distraction pin driver, and then insert the distraction pin into vertebral body. Amount the distractor onto the pin, and perform segmental distraction. Distraction of the segment is essential for restoring disc height and for providing good access to the intervertebral space.

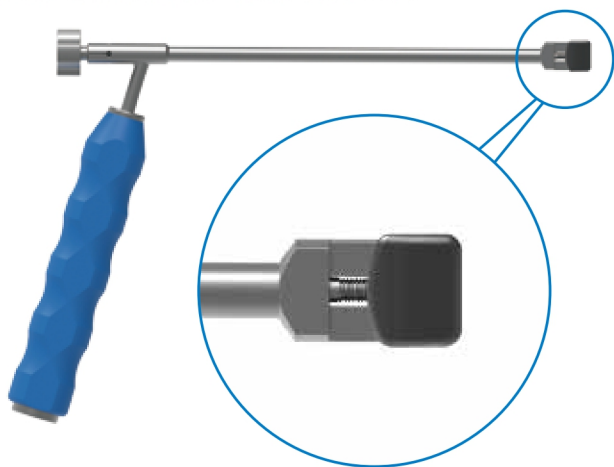


Endplate preparation

When the discectomy is completed, remove the superficial cartilaginous layers of the endplates to expose bleeding bone by using scalprum.

Implant size determination

Attach the measurer and implant inserter, insert the measurer into the intervertebral space. If necessary, controlled and light hammering with the mallet can be used to help advance the trial implant into the intervertebral disc space. It should be noted that the convex side of the trial implant must be pointed to the cranial side when insertion.



Implant preparation

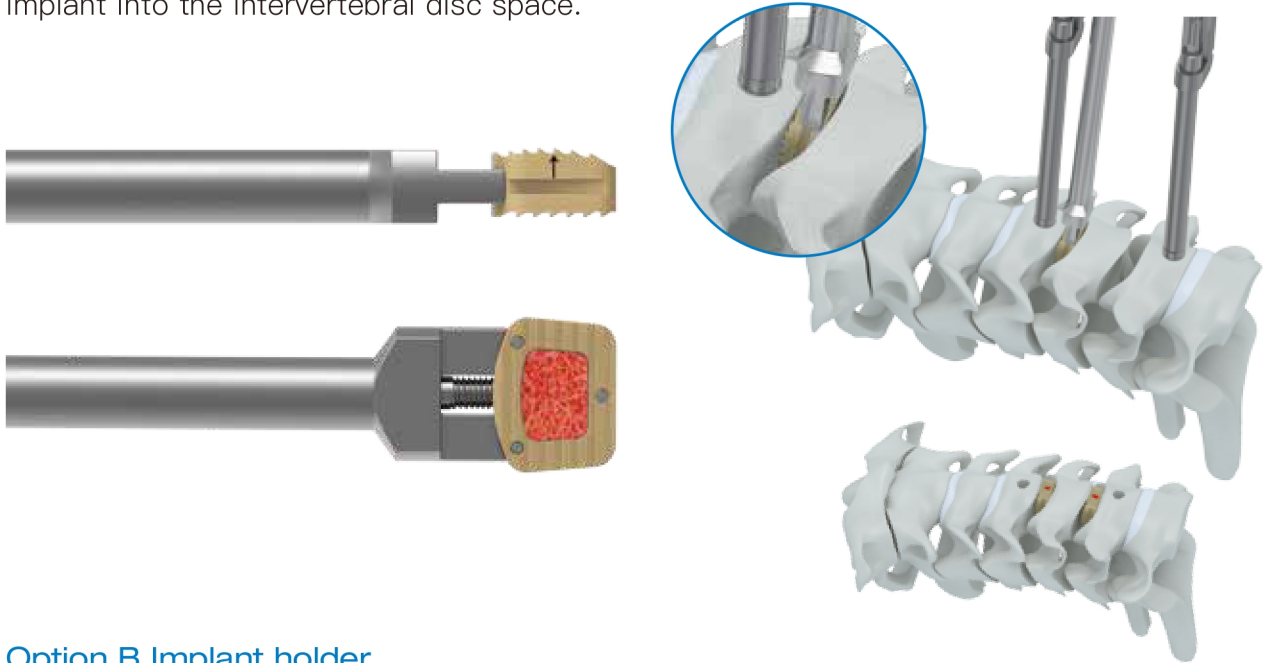
Attach the implant to the inserter and fill the cage with autologous bone or bone graft substitute. The cancellous bone impactor can be used to firmly pack the autologous or bone graft substitute into the implant cavity.



Implant insertion

Option A Implant inserter

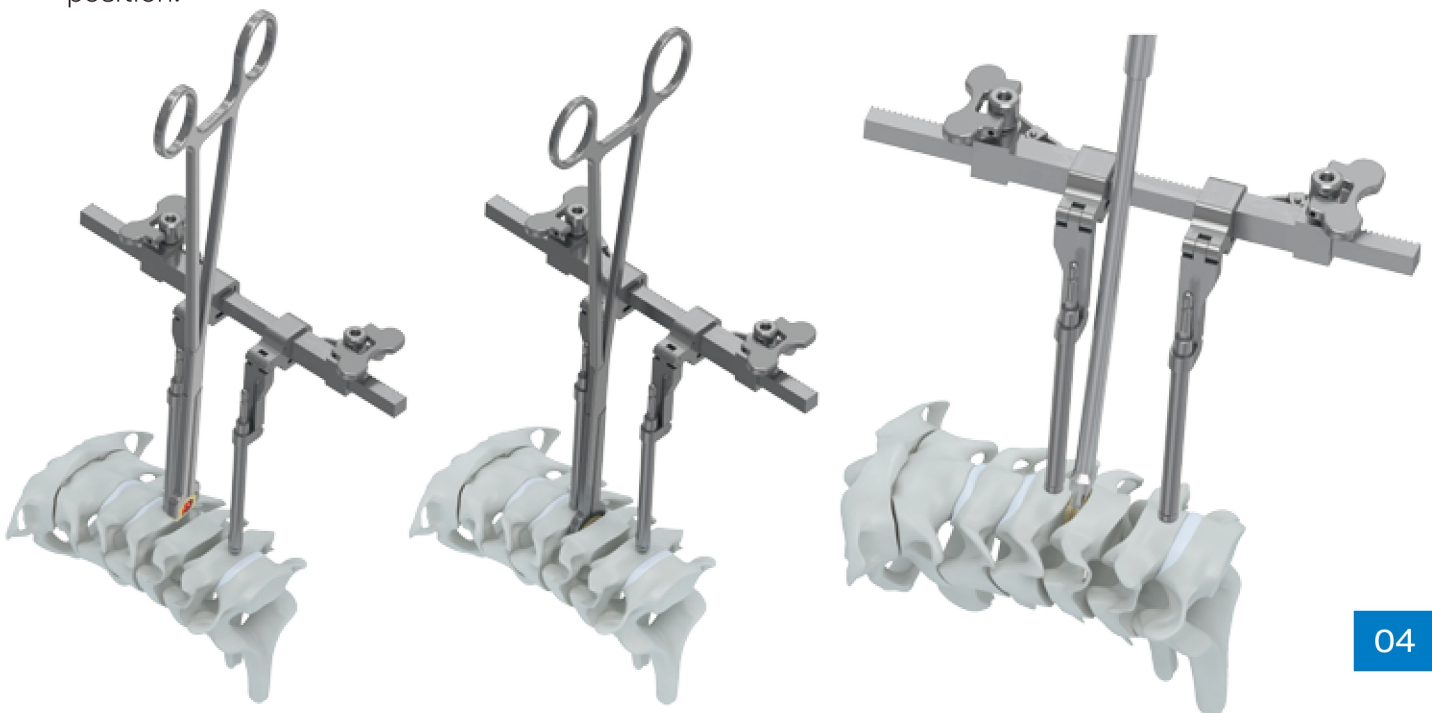
Confirm the implant is securely attached. Carefully insert the implant into the distracted segment, ensuring that the orientation of the implant is correct. The implant is etched with an arrow pointing cranially on lateral wall to indicate the correct cranial/caudal alignment. If necessary, controlled and light hammering with the mallet can be used to help advance the implant into the intervertebral disc space.



Option B Implant holder

Attach the implant to the implant holder; confirm the implant is securely attached. Carefully insert the implant into the distracted segment, ensuring that the orientation of the implant is correct.

If the implant is not at the ideal position, the pusher could be used to help to adjust the final position.



Peek Cage System MSC-C

- Material: Biomedical PEEK (Polyether Ether Ketone).
- Height: 5mm - 12mm, 1mm increments.
- Length: 12mm.
- Width: 13mm.
- Tilt angle: 5°.
- The inclined pyramid-shaped serrated surface prevents displacement, has at least 3 Tantalum marking lines for positioning, and has a middle cavity for bone grafting.

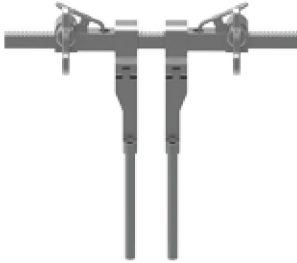



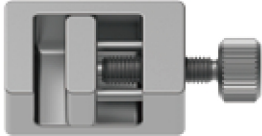



Implants






Product Code	H
991500005	5
991500006	6
991500007	7
991500008	8
991500009	9
991500010	10
991500011	11
991500012	12



Instruments

Product Code	Parts Description	Pieces	Picture
12006016	Distractor	1	
12009002	Pusher	1	
12009003	Scraper 5mm	1	
12009004	Scraper 6mm	1	
12009005	Scraper 7mm	1	
12009006	Scraper 8mm	1	
12009007	Scraper 9mm	1	
12009008	Scraper 10mm	1	
12009009	Scraper 11mm	1	
12009010	Scraper 12mm	1	
12009020	Implant Inserter	1	
12009019	Implant Support	1	
12009021	Cancellous Bone Impactor	1	

EROS-C Cage Systems

Product Code	Parts Description	Pieces	Picture
12009011	Measurer 5mm	1	
12009012	Measurer 6mm	1	
12009013	Measurer 7mm	1	
12009014	Measurer 8mm	1	
12009015	Measurer 9mm	1	
12009016	Measurer 10mm	1	
12009017	Measurer 11mm	1	
12009018	Measurer 12mm	1	
12009022	Implant Holder	1	
12006019	Distraction Pin Driver	1	
12006020	Distraction Pin	2	
12008010	Quick Handle	1	
12009001	Scalprum	1	
12009991	Instrument Case	1	



MEDIOX Orvosi Műszergyártó Kft

3324 Felsőtárkány, 2473 Hrsz. HUNGARY

Fax: 0036 36 431 132

Tel: 0036 36 431 132