



Mediox

MSCTC Telescopic Corpectomy System

Surgical Technique

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Indications and contraindications

Indications

- Vertebral body tumors;
- Fraction of the anterior spine;
- Vertebral reconstruction following mono-segmental or multi-segmental total and partial corpectomy.

Contraindications

- Local infection or inflammation;
- Vertebral osteoporosis;
- Allergy or intolerance of titanium or its alloys;
- Incompatible age and physical condition of the patient.

Surgical protocol for the cervical spine

1. Patient position and exposure

Position the patient in a supine position on a radiolucent operating table. Locate the correct operative level under radiographic control and expose the affected segment through a standard anterior approach.



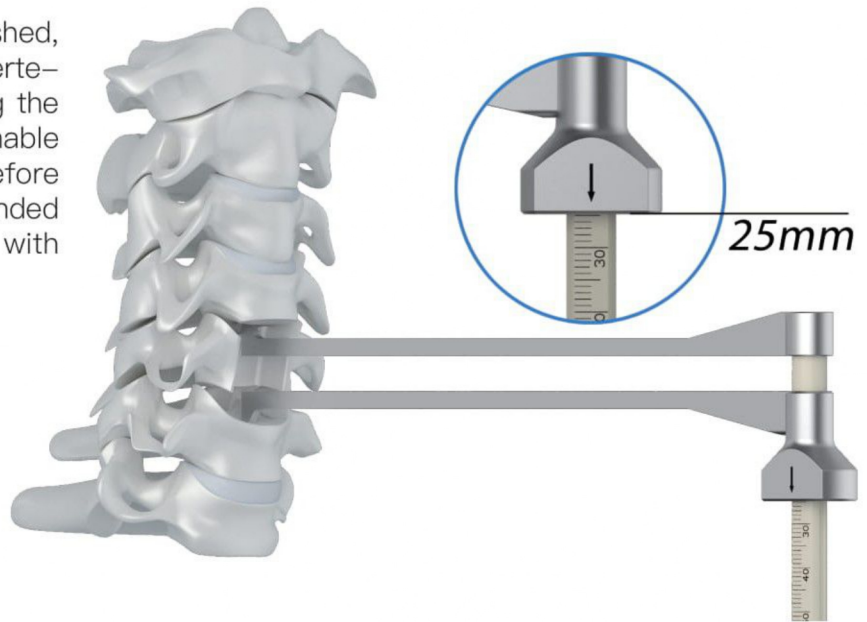
2. Discectomy and corpectomy

First, a discectomy above and below the affected area is performed, followed by a corpectomy using the usual instruments. According to the pathology, the posterior longitudinal ligament (PLL) may also be resected as well as posterior vertebral osteophytes adjacent to the corpectomy performed.



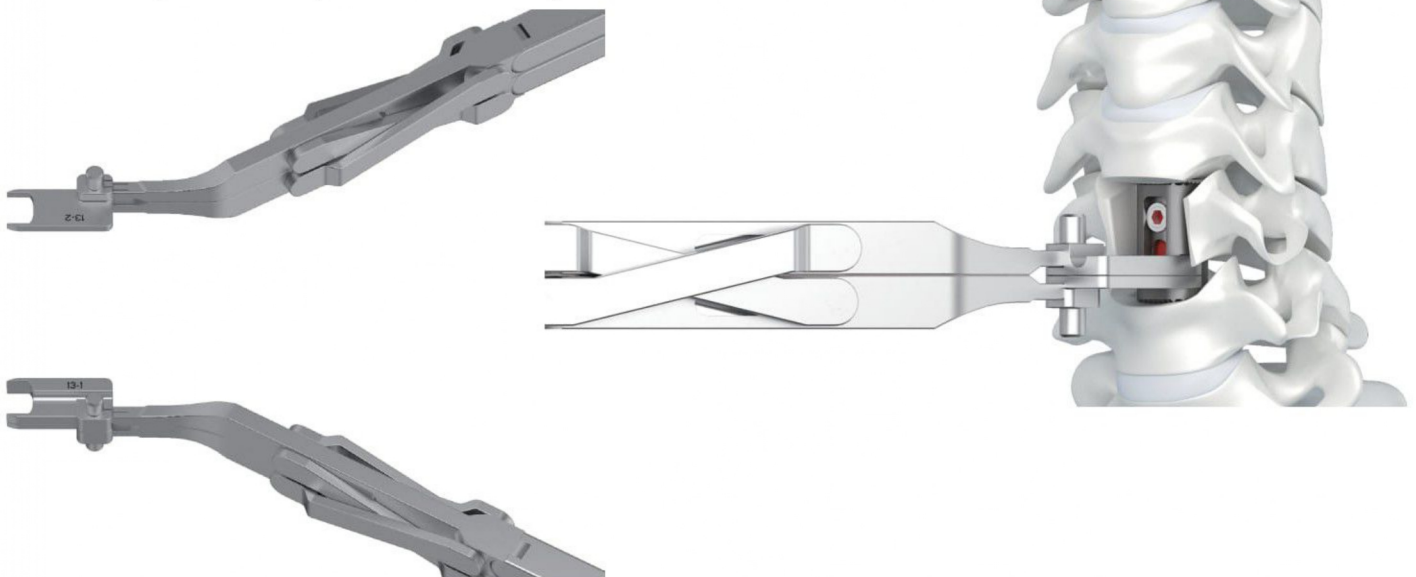
3. Implant size determination

Once the decompression is finished, the measurement of the intervertebral distance is estimated using the measuring device. This will enable implant height to be chosen. Before implant insertion, it's recommended to fill the implant central hole with bone.



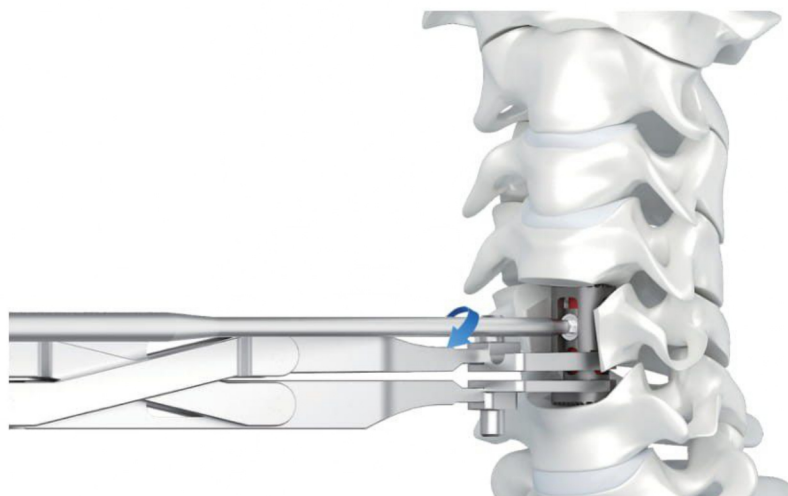
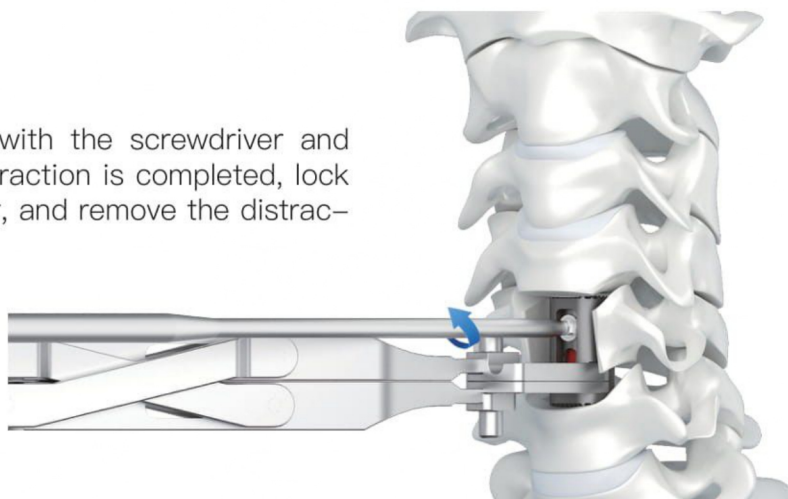
4. Implant insertion

Place the tips 13-1 and 13-2 on to the parallel distractor, and make sure the laser lines match each other, and then amount the implant into the slot of the tips. The chosen implant is placed into the space created by the corpectomy and correctly positioned. Before positioning the implant on the parallel distractor it is important to lock the implant. This secures the implant on the parallel distractor prior to insertion.



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The implant is then unlocked with the screwdriver and distracted in situ. Once the distraction is completed, lock the implant with the screwdriver, and remove the distractor.



5. Supplemental fixation

Fill the area around the implant with bone, and use cervical plate as supplemental fixation.



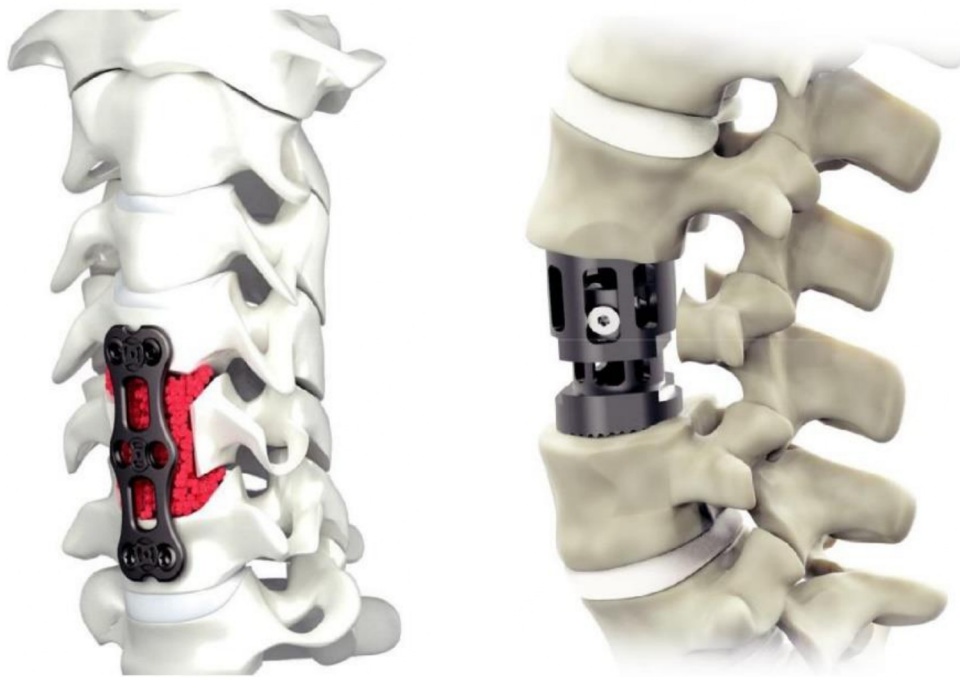
Surgical protocol for the thoracic and lumbar spine

The thoracic and lumbar vertebral reconstruction is technically similar to cervical except for the approach. It's recommended to use pedicle screw or plate as supplemental fixation.



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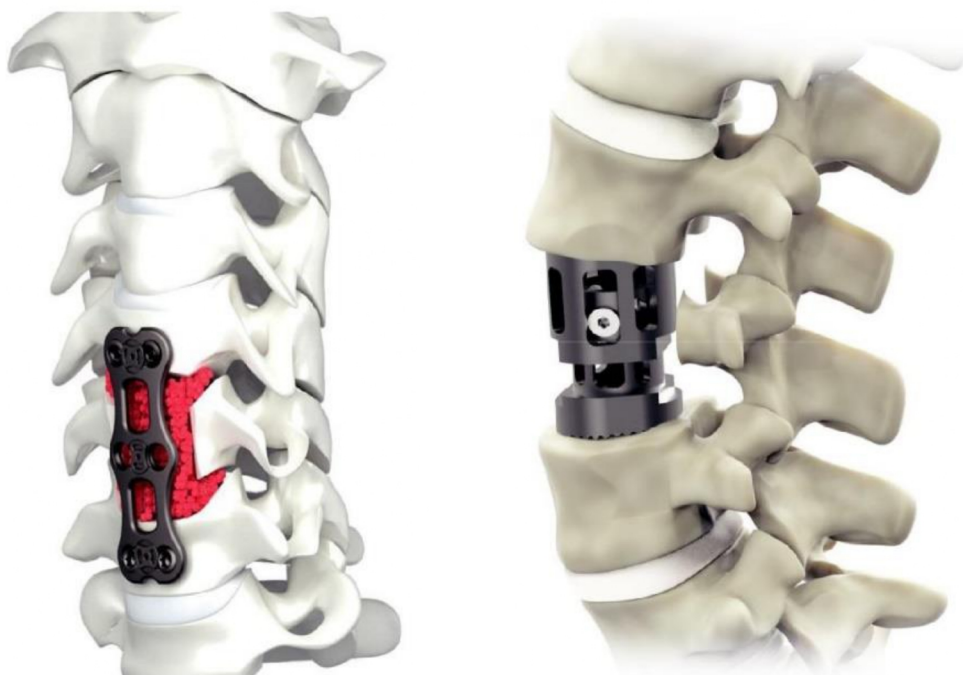
- Material: Titanium.
- Oval cylindrical shape.
- Diameter 13mm, includes 3 sizes:
 - + Size S: minimum height 23mm, maximum height 28mm.
 - + Size M: minimum height 28mm, maximum height 38mm.
 - + Size L: minimum height 38mm, maximum height 60mm.
- Self-adjusting according to the length of the spine, turn the force to tighten the cage when adjusted to the full length.
- Simple design, has a hollow frame for stuffing bones.
- There is a locking screw on the body.
- Suitable for anterior cervical spine replacement surgery.



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Material: Titanium

- Oval cylindrical shape.
- Increased stiffness along the length of the lumbar vertebrae body.
- Diameter 17mm, includes 3 sizes:
 - + Short: minimum height 23mm, maximum height 28mm.
 - + Medium: minimum height 28mm, maximum height 38mm.
 - + Length: minimum height 38mm, maximum height extension 60mm.
- Diameter 21mm, includes 3 sizes:
 - + Short: minimum height 31mm, maximum height 36mm.
 - + Average: minimum height 36mm, maximum height 47mm.
 - + Length: minimum height 47mm, maximum height 71mm.
- Diameter 27mm, includes 3 sizes:
 - + Short: minimum height 36mm, maximum height 41mm.
 - + Average: minimum height 41mm, maximum height 51mm.
 - + Length: minimum height 51mm, maximum height 73mm.
- Tighten with the locking screw to tighten and secure when adjusted to the correct length with the lumbar vertebrae body.
- Simple design, has a hollow frame for stuffing bones.
- Suitable for lumbar and thoracic spine replacement surgery.












Implant Size

MSCTC Telescopic Corpectomy System all size



Product Code	D	H
951601301	13	S(23-28)
951601302	13	M(28-38)
951601303	13	L(38-60)
951601701	17	S(23-28)
951601702	17	M(28-38)
951601703	17	L(38-60)
951602101	21	S(31-36)
951602102	21	M(36-47)
951602103	21	L(47-71)
951602701	27	S(36-41)
951602702	27	M(41-51)
951602703	27	L(51-73)



Instrument

Product Code	Parts Description	Pieces	Picture
12018010	Intervertebral Measuring Device	1	
12018020	Parallel Distractor	1	
12018030	Tips 13-1	1	
12018040	Tips 13-2	1	
12018050	Tips 21-1	1	
12018060	Tips 21-2	1	
12018070	Tips 27-1	1	
12018080	Tips 27-2	1	
12008030	Graft Impactor	1	

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Product Code	Parts Description	Pieces	Picture
12018090	Locking Screwdriver	1	
12018991	Instrument Case	1	



MEDIOX Orvosi Műszergyártó Kft

3324 Felsőtárkány, 2473 Hrsz. HUNGARY

Fax: 0036 36 431 132

Tel: 0036 36 431 132