UpSurgeOn

Making surgical excellence
universally accessible

Spine Series

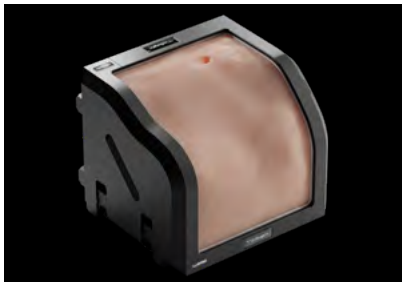
Surgical Training Technologies for Spine Surgery

Interactive Brochure 2025

Life-like as never before!

The modularity and compactness of this series enable advanced cadaver-free training in any setting, with optimized costs.

Tap here



Anterior CervicalBox

Multilevel Spondylotic Myelopathy and Radiculopathy | C3-C7

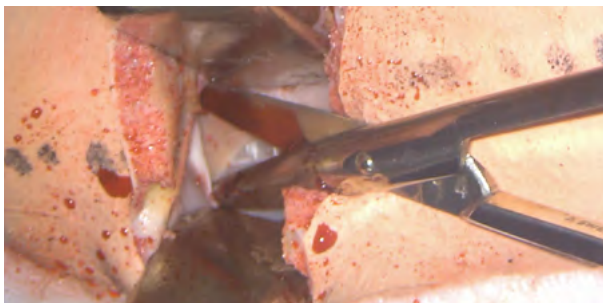
- Disposable Parts
- Hyperrealism
- Standard X-Ray and CT Scan
- Augmented Reality App
- Mobile X-Ray

What you can do

- Skin incision
- Layer by layer soft tissue dissection
- Platysma incision
- Detection of carotid artery
- Multilevel decompressions for spondylotic myelopathy
- Multiple discectomies and corpectomies
- Any kind of anterior cervical spine fixation
- Fluoroscopy and CT scans

Hyperrealism

Experience unparalleled surgical realism with Anterior CervicalBox. From the moment you make your incision to the intricate maneuvers around delicate structures, every aspect is meticulously crafted to mirror the complexities of real surgery.



Augmented Reality App

Get the Neurosurgery App to explore cases, navigate 3D models, and utilize Augmented Reality on the Box to strategize your procedure.

Standard Imaging

Scan the box with X-Ray and CT to verify the level and visualize the positioning of the fixation implants.

Mobile X-Ray

For the first time, surgical fluoroscopy is accessible through a user-friendly App*, marking a groundbreaking shift in training and courses.

Download the App

Use of the tools integrated with the simulator.

**Attention: Mobile X-Ray module works on Apple Devices only.*

Disposable Levels availaible

Designed to specifically mimic the properties of human tissues, such as softness, elasticity, and texture.

Box
Reusable

Spine Level
Disposable

Skin Level
Disposable

Composition of Anterior CervicalBox

Skin Level | *Disposable*

Bleeding skin and subcutaneous tissue
Platysma
Connective tissues
Sternocleidomastoid muscle
Trachea and esophagus (medial mass)
Carotid Artery

Spine Level | *Disposable*

Prevertebral fascia
Paravertebral muscles
Vertebral bodies and discs from C3 to C7
Spinal cord
Peridural fat

Box | *Reusable*

Base | *Reusable*

Endoscopic Posterior CervicalBox

Multilevel Posterior Cervical Compression From C2 to C6

- Disposable Parts
- Hyperrealistic
- Smart Water Management
- Mobile X-Ray
- Standard X-Ray and CT Scan*

What you can do

Posterior Laminectomies from C2 to C6 (5 laminectomies)

Posterior Laminoplasties from C2 to C6 (5 laminoplasties)

Screw fixations from C2 to C6

Endo Fusion

Smart Water Management

The simulator is equipped with an internal water drainage and outflow system, facilitating the management of high endoscopic flows anywhere and preventing any leakage during surgical procedures.

Mobile X-Ray

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Download the App

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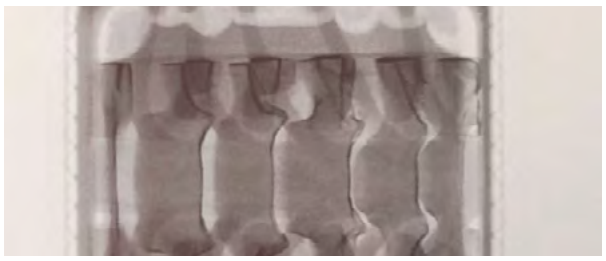
Attention: Mobile X-Ray module works on Apple Devices only.

Standard Imaging*

Scan the box with X-Ray and CT to verify the level and visualize the positioning of the fixation implants.

*Feature available upon request.



Disposable Levels availaible

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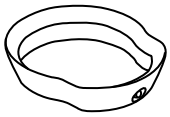
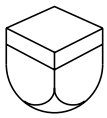

Collection Base
Reusable

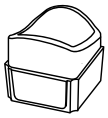
+

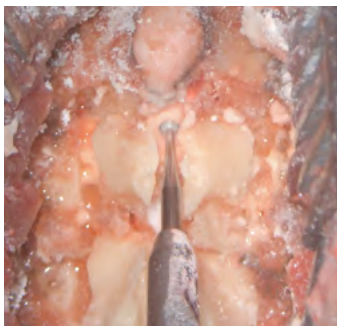

Box
Reusable

+


Spine Level
Disposable

+


Skin Level
Disposable



Composition of Endoscopic Posterior CervicalBox

Black Frame | *Reusable*

Skin & Spine Levels | *Disposable*

Skin Level:
Skin and subcutaneous tissue
Paravertebral muscles

Spine Level:
Ligaments
Vertebras from C2 to C6
Spinal cord
Peridural fat
Vertebral arteries

Black Box | *Reusable*

White Base | *Reusable*

Collection Base | *Reusable*

Water collection base

OccipitocervicalBox

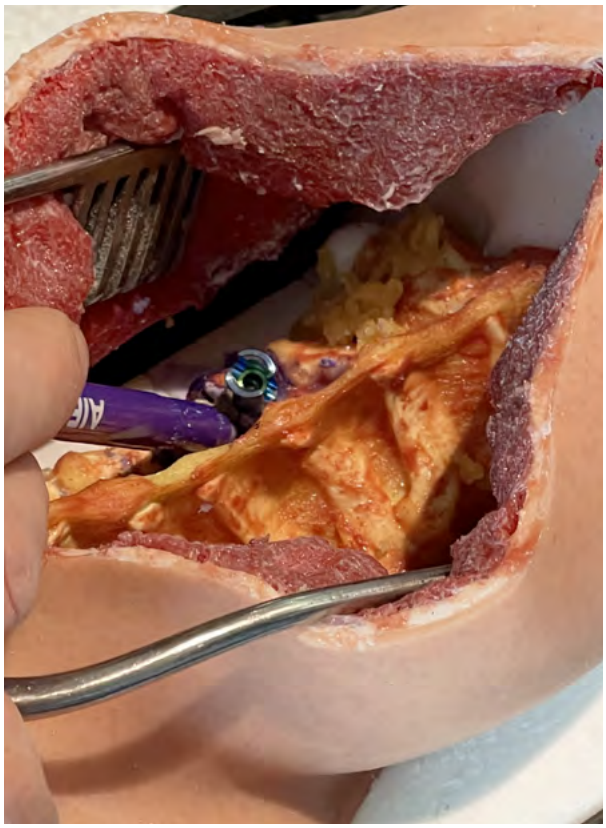
Posterior Approaches to the occipitocervical spine | C0-T3

- Disposable Parts
- Hyperrealism
- Mobile X-Ray
- Standard X-Ray and CT Scan
- Standard Navigation

What you can do

Multilevel posterior decompressions for spondylotic myelopathy through:

- Posterior Laminectomies from C1 to T3
- Posterior Laminoplasties from C1 to T3
- Flavectomies
- Any kind of Occipito fixations



Navigation*

Upload the CT scan on the navigator and start navigating the Box.

*Contact us at support@upsurgeon.com to check the compatibility of your Navigation technology.

Standard Imaging

Scan the box with X-Ray and CT to verify the level and visualize the positioning of the fixation implants.

Mobile X-Ray

For the first time, surgical fluoroscopy is accessible through a user-friendly App*, marking a groundbreaking shift in training and courses.

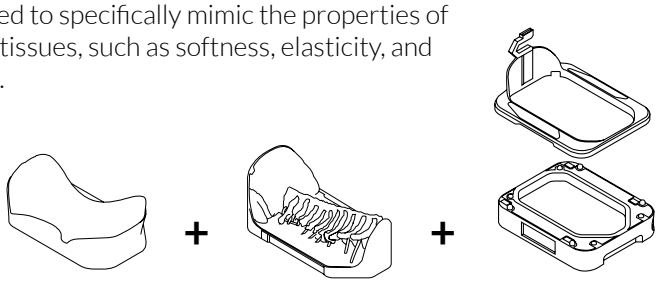
Download the App

Use of the tools integrated with the simulator.

Attention: Mobile X-Ray module works on Apple Devices only.

Disposable Levels availaible

Designed to specifically mimic the properties of human tissues, such as softness, elasticity, and texture.



Skin Level
Disposable

Spine Level
Disposable

Workstation
Reusable

Composition of Anterior-Lateral LumbarBox

Black Frame| *Reusable*

Skin Level | *Disposable*

The most durable Skin ever
Reusable multiple times.

Spine Level | *Disposable*

- Occipital Bone
- Mastoid Processes
- Atlas
- Vertebrae from C1 to T3
- Vertebral Artery
- Spinal Cord
- Nerve roots
- Ligament

Black Base | *Reusable*

Endoscopic LumbarBox

10 Operable Levels | L1-S1 Left/Right
3 Spine Levels Available

- Disposable Parts
- Hyperrealistic
- Smart Water Management
- Mobile X-Ray
- Standard X-Ray and CT Scan*

What you can do

PELD (Percutaneous Endoscopic Lumbar Discectomy)

TELD (Transforaminal Endoscopic Lumbar Discectomy)

Monoportal, **biportal** and more lateral procedures

Endo Fusion

Smart Water Management

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Mobile X-Ray

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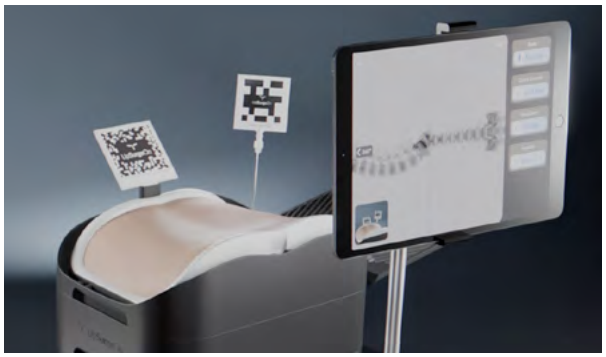
Use of the tools integrated with the simulator.

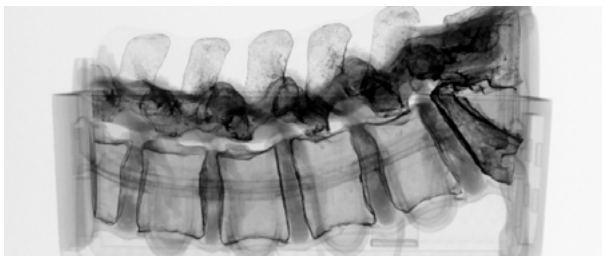


Attention: Mobile X-Ray module works on Apple Devices only.

Standard Imaging*

Scan the box with X-Ray and CT to verify the level and visualize the positioning of the fixation implants.

*Feature available upon request.



Disposable Levels availaible

Designed to specifically mimic the properties of human tissues, such as softness, elasticity, and texture.

Collection Box *Reusable* + Frame *Reusable* + Spine Level *Disposable* + Iliac Crests *Reusable* + Skin Level *Disposable*

Composition of Endoscopic LumbarBox

Skin Level | *Disposable*

The most durable Skin ever
Reusable multiple times

Iliac Crests | *Reusable*

Spine Level | *Disposable*

Spine Level Mixed Pathologies:
L1-2 Left | Paramedian Herniation
L1-2 Right | Extraforaminal Herniation
L2-3 | Central Herniation
L3-4 Left |Foraminal Herniation
L3-4 Right | Paramedian Herniation
L4-5 Right | Extraforaminal Herniation
L5-S1 Left | Foraminal Herniation
L5-S1 Right | Paramedian Herniation

Spine Level Paramedian Herniations:
L1-L2 | Bilateral paramedian herniation
L2-L3 | Bilateral paramedian herniation
L3-L4 | Bilateral paramedian herniation
L4-L5 | Bilateral paramedian herniation
L5-S1 | Bilateral paramedian herniation

Spine Level Bone Augmentation:
For Vertebroplasty
No Pathologies Available

Black Frame| *Reusable*

The frame with the drainage grid for the Water Management System

Collection Base | *Reusable*

Water collection base

Posterior LumbarBox

10 Operable Levels | L1-S1

3 Paramedian Herniations
2 Foraminal Herniations
2 Extraforaminal Herniations
1 Central Herniation
1 Canal Stenosis

- Disposable Parts
- Hyperrealism
- Mobile X-Ray
- Standard X-Ray and CT Scan
- Standard Navigation

What you can do

Laminectomies

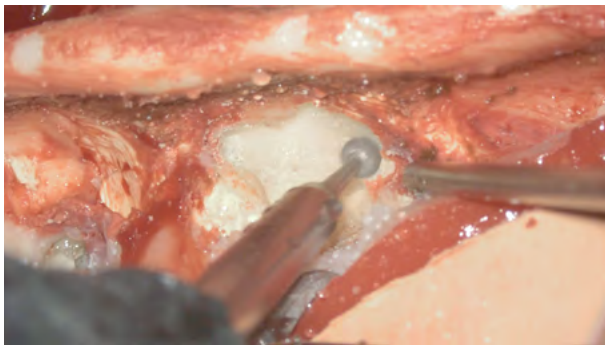
Flavectomies

Discectomies

Corpectomies

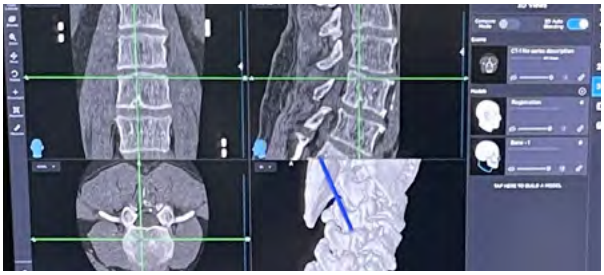
Any kind of posterior lumbar spine fixation

Fluoroscopy and CT scans



Navigation*

Upload the CT scan on the navigator and start navigating the Box.



*Contact us to check the compatibility of your Navigation technology.

Standard Imaging

Scan the box with X-Ray and CT to verify the level and visualize the positioning of the fixation implants.

Mobile X-Ray

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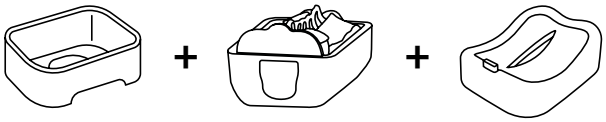
Download the App

Use of the tools integrated with the simulator.

Attention: Mobile X-Ray module works on Apple Devices only.

Disposable Levels availaible

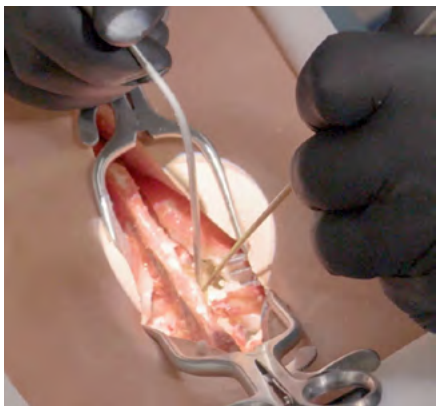
Designed to specifically mimic the properties of human tissues, such as softness, elasticity, and texture.



Box
Reusable

Spine Level
Disposable

Skin Level
Reusable



Open and Minimally Invasive Skin Level

Composition of Posterior LumbarBox

Skin Level | *Reusable*

Dissected Skin and subcutaneous tissue
(Open & MIS Skin)
Dissected paravertebral muscles

Spine Level | *Disposable*

L1-2 Left | Paramedian Herniation
L1-2 Right | Extraforaminal Herniation
L2-3 | Central Herniation
L3-4 Left |Foraminal Herniation
L3-4 Right | Paramedian Herniation
L4-5 Right | Extraforaminal Herniation
L5-S1 Left | Foraminal Herniation
L5-S1 Right | Paramedian Herniation

Base | *Reusable*

ThoracolumbarBox

10 operable levels | T8-S1

- Disposable Parts
- Hyperrealistic
- Mobile X-Ray
- Standard X-Ray and CT Scan
- Standard Navigation

What you can do

Posterior decompression and fixation of the lower thoracic and lumbosacral segments

PLIF (Posterior Lumbar Interbody Fusion)

TLIF (Transforaminal Lateral Interbody Fusion)

Open and **MIS** Approaches (using open Reusable Skin Level and MIS Disposable Skin Level, respectively)

Navigation*

Upload the CT scan on the navigator and start navigating the Box.

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Standard Imaging

Scan the box with X-Ray and CT to verify the level and visualize the positioning of the fixation implants.

Mobile X-Ray

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Download the App

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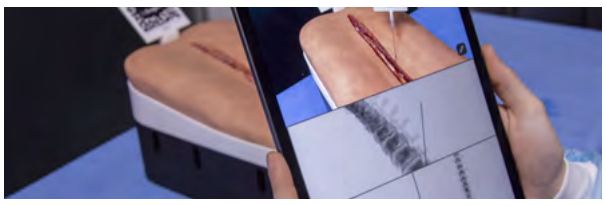
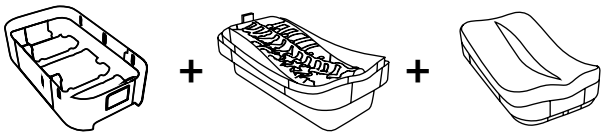


Attention: Mobile X-Ray module works on Apple Devices only.

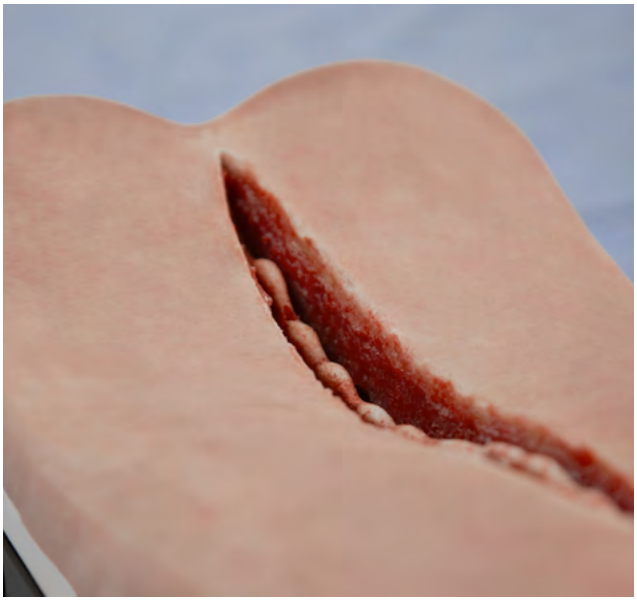
Disposable Levels availaible

Designed to specifically mimic the properties of human tissues, such as softness, elasticity, and texture.



Box *Reusable* + Spine Level *Disposable* + Skin Level *Reusable*

Open and Minimally Invasive Skin Level



Composition of ThoracolumbarBox

Skin Level | *Reusable/Disposable*

Reusable: Open Skin (Dissected Skin and subcutaneous tissue)
Disposable: Closed Skin - MIS (Minimally invasive surgery)

Spine Level | *Disposable*

Standard

Vertebras from T8 to S1

Ligaments
Cauda equina and lumbar nerve roots Peridural fat
Lumbar discs with herniations

Ideal for conventional approaches to the thoraco-lumbar region

Base | *Reusable*

Anterior-Lateral LumbarBox

Multilevel Discopathy | L2-S1

- Dual Surgical Position
- Standard X-Ray and CT Scan
- Mobile X-Ray

The simulator is designed to simulate both supine and lateral positions, facilitating the simulation of all oblique and lateral anterior approaches to the lumbosacral spine.

What you can do

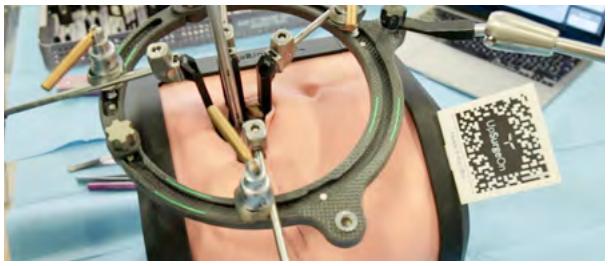
ALIF (Anterior Lumbar Interbody Fusion)

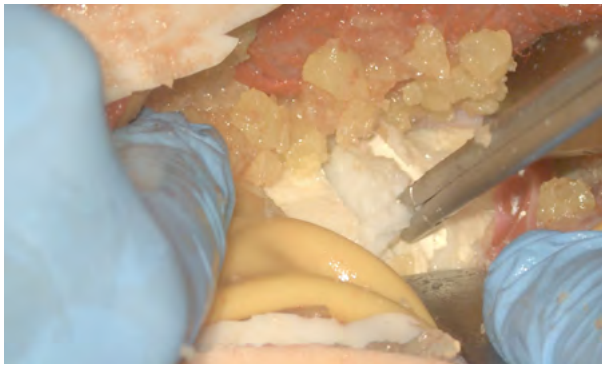
OLIF (Oblique Lumbar Interbody Fusion)

XLIF (Extreme Lumbar Interbody Fusion, aka LLIF, Lateral Lumbar Interbody Fusion)

Dual Surgical Position

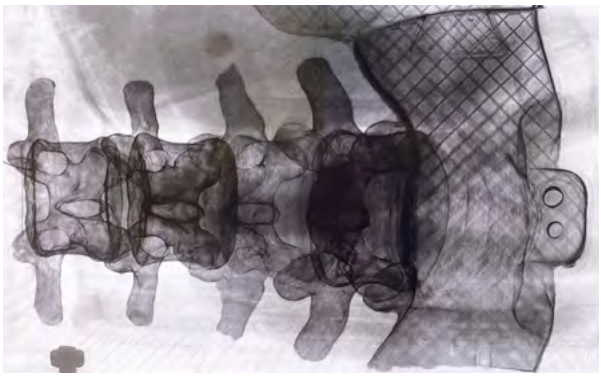
Anterior Lateral





Standard Imaging

Scan the box with X-Ray and CT to verify the level and visualize the positioning of the fixation implants.



Mobile X-Ray

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Download the App

Use of the tools integrated with the simulator.

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Disposable Levels availaible

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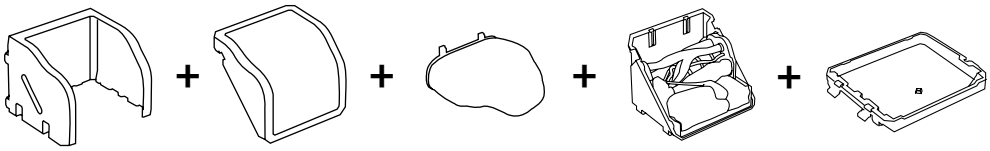
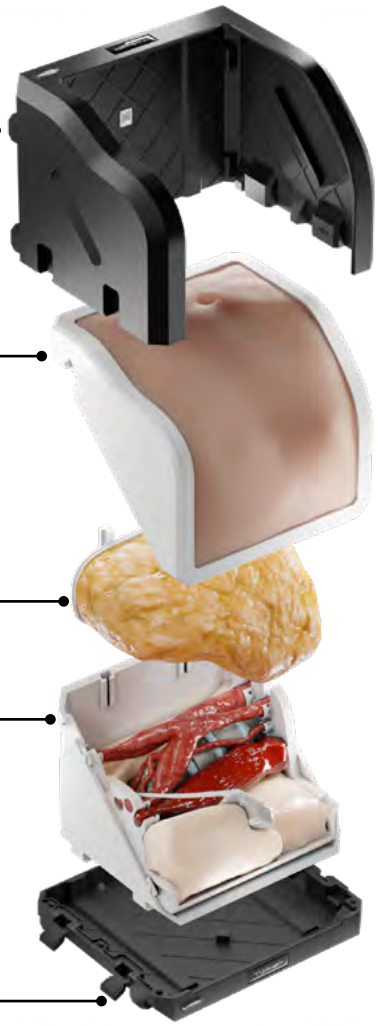


Clossing Cap *Reusable* + Skin Level *Disposable* + Peritoneal Sac *Reusable* + Spine Level *Disposable* + Base *Reusable*

Composition of Anterior-Lateral LumbarBox



Workstation Cap | *Reusable*

Skin Level | *Disposable*

Features:
- Skin
- Fat of the superficial fascia
- Superficial Fascia
- Muscles
- Trasversalis Fascia
- Extraperitoneal Fat

Pterioneal Sac | *Reusable*

Spine Level | *Disposable*

- **ALIF** (Anterior Lumbar Interbody Fusion)
- **OLIF** (Oblique Lumbar Interbody Fusion)
- **XLIF** (Extreme Lumbar Interbody Fusion, AKA LLIF, Lateral Lumbar Interbody Fusion)

Workstation Base | *Reusable*

UpSurgeOn

Reach out to us

If you wish to acquire further information, please contact us at the following contact details according to your country of origin.

Europe
excluding UK & Ireland

UpSurgeOn
upsurgeon.com
info@upsurgeon.com

USA, UK & Ireland

Inovus Medical
inovus.org
info@inovus.org

Mexico

Artimedica
artimedica.com.mx
artimedica@artimedica.com.mx

Brasil

Spinetech
spinetech.com.br
mozart@spinetech.com.br

Hong Kong

Montsmed
monstmed.com
timothykong@montsmedhk.com

South Korea

C.M. Blue
cmblue.co.kr
thjosephkim@cmblue.co.kr

Rest of the world

UpSurgeOn
upsurgeon.com
info@upsurgeon.com

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UpSurgeOn is a hi-tech company specialized in psychomotor skill augmentation in microsurgeries through the use of bleeding-edge virtual andphysical simulation technologies.

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