

# REASONS

FOR A PHACON TRAINER

## /// PHACON CONCEPT LUMBAR SPINE PATIENT

Realistic anatomical patient combine the PHACON bone like material with various soft tissues. All structures and landmarks are based on real patients CT data. The Lumbar Spine Patient is usable with your common devices, instruments and implants, with realistic haptic and feel. Navigation within the included CT data set of the related model and in the anatomical 3D rendered model. Evaluate your training objectively.

## /// VARIOUS ANATOMIES AND PATHOLOGIES

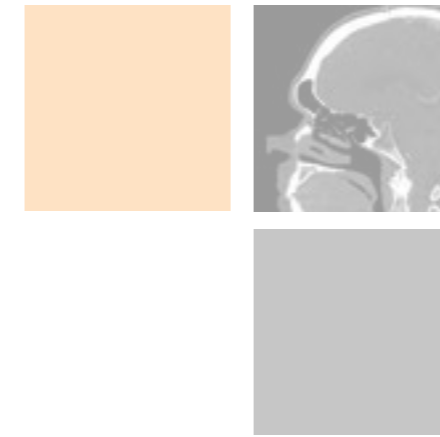
PHACON offers a variety of different anatomies of diverse ages and also diverse pathologies. The various patient contain different anatomical structures depending on your needs and course topics. Since our patient are based on CT data and most parts are 3D printed, we can produce our patient with an accuracy of 16 microns.

## /// MARKETING AND EDUCATION

Presenting your medical instruments at conferences and exhibitions for customers and internal training. Our PHACON anatomical patient allow you to explain the functions and features in a realistic context. Together we can find the right solutions for your needs.

## /// ACCESSIBLE QUANTITIES ANYTIME

PHACON has a series production of thousands of parts in which we combine bone material with soft mucosa tissue. All parts and products are produced and manufactured in Germany and updated routinely. Organize your course structure independent from location. Our patient are available in all quantities anytime.



**PHACON**

## THE PATIENTS FOR YOUR SURGICAL DEMONSTRATION AND EDUCATION

## LUMBAR SPINE

### EUROPE & ALL OTHER COUNTRIES

**PHACON GmbH**  
Druckereistrasse 11  
04159 Leipzig  
Germany

[www.phacon.de](http://www.phacon.de)

Phone: +49. (0)3 41. 47 83 97 32  
Fax: +49. (0)3 41. 47 83 91 74  
Mail: [info@phacon.de](mailto:info@phacon.de)

### USA

**PHACON Inc.**  
4470 Chamblee-Dunwoody Rd. /// Suite 463  
Dunwoody /// GA 30338 /// USA

[www.phacon.us](http://www.phacon.us)

Phone: 1-833-2 PHACON  
- 2 742266  
Fax: 470-243-0494  
Mail: [info@phacon.us](mailto:info@phacon.us)

VIRTUAL ASSISTANCE /// EFFECTIVE MARKETING TOOL /// REALISTIC PATIENT ///  
ANATOMICAL ACCURACY /// SENSOR TECHNOLOGY /// REALISTIC HAPTICAL /// HAND-  
MADE /// TIME-SAVING /// POSITION OF OWN INSTRUMENTS /// INDEPENDENT LOCATION

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THE PATIENTS FOR YOUR SURGICAL DEMONSTRATION AND EDUCATION

# LUMBAR SPINE TRAINER

## PERFORM YOUR SURGICAL TRAINING UNDER REALISTIC CONDITIONS

The PHACON Lumbar Spine Trainer is applicable for the training in the lumbar spine region e.g. minimal invasive surgical interventions. It provides a perfect orientation by the use of the integrated navigation system and indicates injuries of risk structures using an approach detection. Surgical techniques with your regular instruments can be trained. At the same time, orientation within the related patient CT-data in the navigation software can be practiced. Perform your surgical training under realistic conditions.

### /// PHACON Lumbar Spine Trainer

### /// PHACON Lumbar Spine Patient

Tracking camera



Laptop with navigation software    Trackers for your own medical instruments    Navigation Pointer    Calibration Tool    USB Foot Switch

/// (Art-No.: S-00080)  
PHACON Lumbar Spine



DISCOVER THE INTRODUCTION  
IN OUR PHACON TRAINER

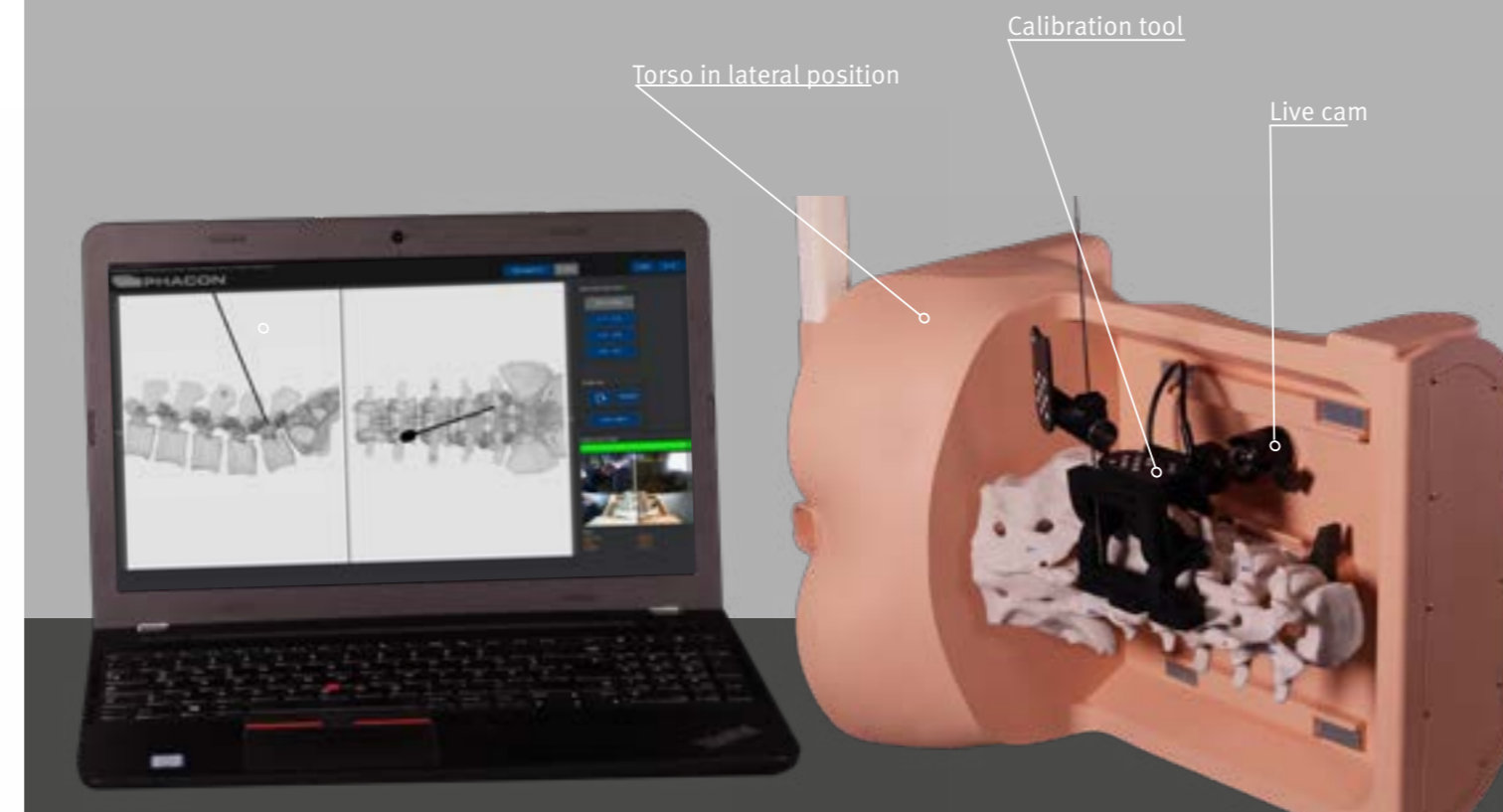


ORDER YOUR PHACON  
LUMBAR SPINE TRAINER

# CHARACTERISTICS

## YOUR RIGHT PRODUCT PACKAGE FOR YOUR PERFECT PRESENTATION

PHACON provides a variety of different functions and tools to fit your needs. Instrument calibration with calibration tool ensures optimal navigation results. The instruments can be seen in the classic, endoscopic or live mode. The system indicates injuries of risk structures by the use of an approach detection on the spinal cord. Changable position of torso makes the training in prone or in lateral patient position possible.



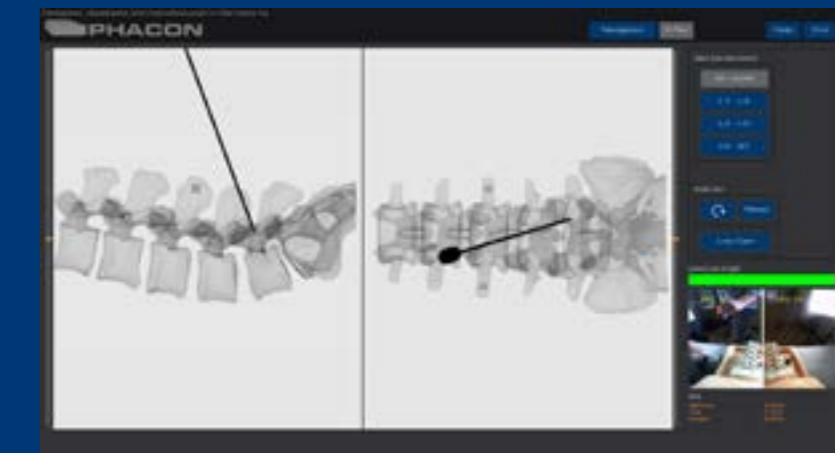
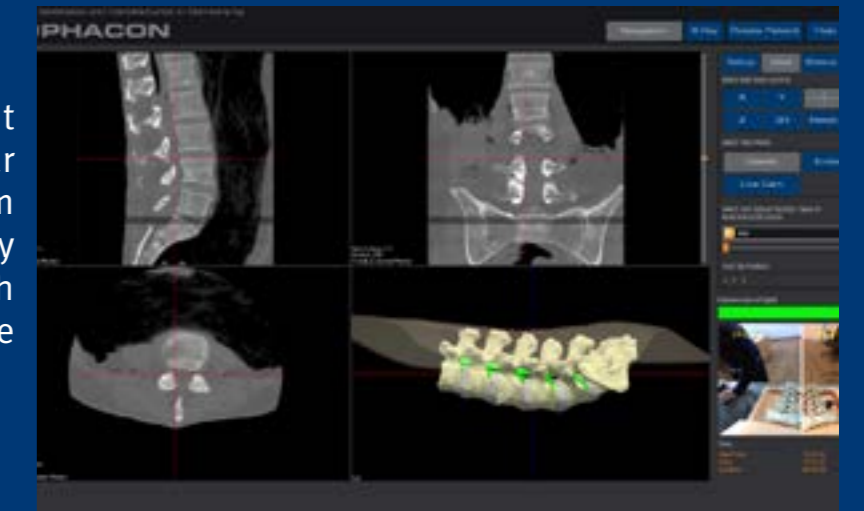
### THE TRAINER AND THE PATIENTS ARE CONCEPTUALIZED FOR THE TRAINING OF:

- Decompression, e.g. Laminectomy and Hemilaminectomy
- Removal of bone with milling cutter and drill
- Treatment of fractures using osteosynthesis by ankle screws
- Placing internal fixation
- Placing pediclescrews, spongiform screws, etc.
- Disc operations, e.g. tissue extraction

# FEATURES

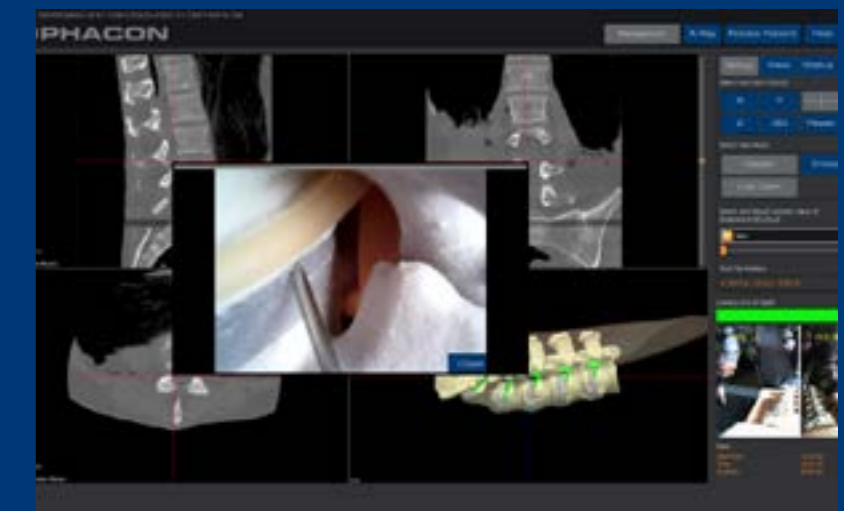
Special features of the trainer allow to navigate with arbitrary instruments through 3 CT views and a 3D-view, easily switch to an X-ray photograph with display of your instrument or to a live view mode.

3 CT views from different positions and 3D lumbar spine. The system signals a risk of injury of risk structures with yellow or red color of the spinal cord.



This trainer has a virtual X-ray function that enables the user to create an X-ray image of the exact location of the instrument in relation to the spine structure.

Live view mode shows the position of your instrument. The camera is freely positionable and inclinable by using the ball-head.



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LUMBAR SPINE PATIENT