

# Aesculap Spine

Expertise in Spinal Instrumentation



# CLR

## Caspar Lumbar Retractor System

Strength and Versatility



### Perfect fit



- Advantages of the CCR System have been transferred to the CLR system
- Adjust precisely to the anatomical situations of the lumbar spine

### Gentle and safe grip



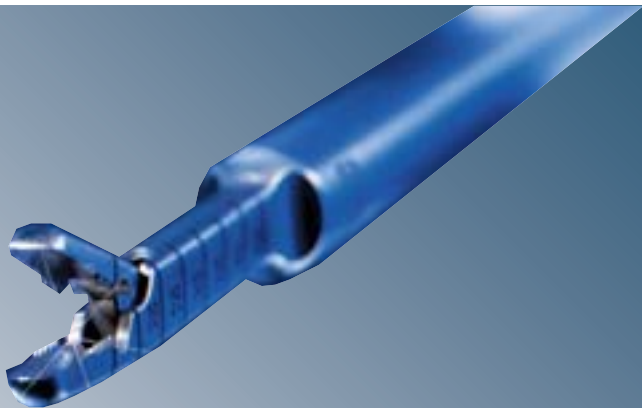
- Solid tissue retraction with toothed and fenestrated blades
- Side load mechanism ensures comfortable handling

### Modular system

- Different blade sizes used for mono-, bi- and multisegmental access

# Miaspas TL

## Spinal Microsurgical Endoscopy



### Minimal patient trauma



- Designed to facilitate spinal microsurgical endoscopic procedures
- Microsurgical endoscopic technique promotes minimal patient trauma
- Suitable for both laparoscopic and thoracoscopic procedures

### Thought-out instrument design



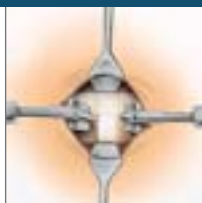
- Well balanced instrument design ensures easy handling
- Depth marks on instruments allow the surgeon full control of the working depth at any time
- Special design makes the instrumentation suitable for microsurgical tasks and at the same time strong enough to work on bone

# Miaspas mini ALIF

## Microsurgical Anterior Lumbar Approach

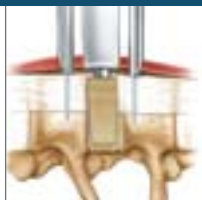


### Atraumatic procedure



- Compromises two different microsurgical approaches to the lumbar segments, the retroperitoneal approach to L2/3, L3/4, L4/5 and the transperitoneal approach to L5/S1
- Consists of a retractor system and special instruments for approach and fusion
- Blunt muscle dissection with preservation of abdominal muscles

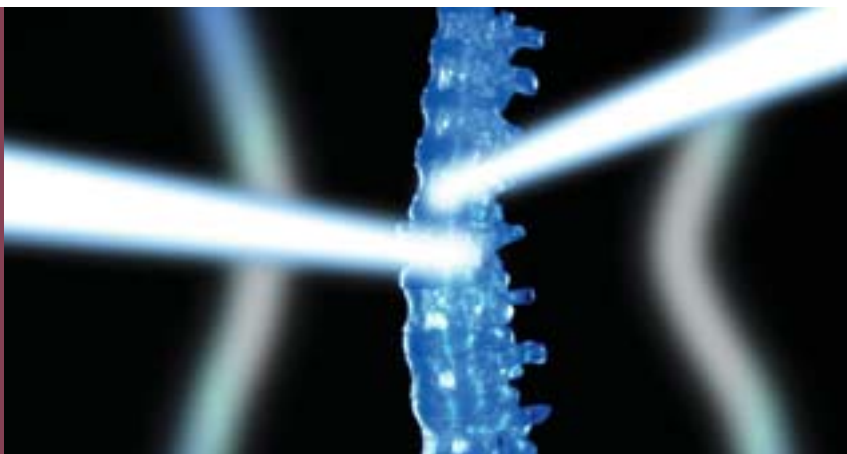
### High flexibility



- Open exposure can be achieved rapidly in case of emergency
- Fusion of surgeon's choice
- Laparoscopic equipment unnecessary

# Miaspas mini TTA

## Microsurgical Anterior Trans-Thoracic Approach

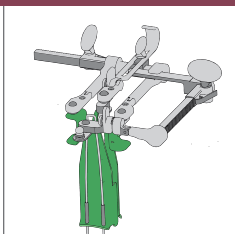


### Thoracic extension



- Extension of the proven microsurgical mini ALIF technique to approach the thoracolumbar and thoracic spine region Th5 to L2
- Consists of a retractor system and special instruments for the approach

### Fast patient mobilization



- Reduced perioperative morbidity
- Reduced ICU-Stay and hospitalisation
- Less complications and blood loss

## Expertise in Spinal Instrumentation



Aesculap Spine, part of the B. Braun Group, has been developing spinal systems since the 1980's starting with the Caspar cervical plating system. In close collaboration with clinical authors, implants and handling orientated instruments are designed. Aesculap combines its core competence in surgical instrument manufacturing with unique ideas and innovative engineering to create high quality spinal systems.

Expertise in Spinal Instrumentation is more than just a good product portfolio. Dedicated to patients and surgeons needs our products are designed for safe surgical procedures and best clinical results.

Aesculap Spine offers complete solutions for the spinal column. High quality instrumentation, innovative implants and purpose-orientated training.

# activ O

## Lumbar Retractor System

The First Lumbar Retractor System with Radiolucent Blades



### Complete radiolucent blades



- X-ray transparent material TECAmox presenting an optimal visibility
- No artefacts and no shadows disturbing the clear view

### One stop for maximum flexibility



- Modular construction as a (part-) ringsystem or via a surgical table fixation
- Blades optional attachable with pins to the vertebral body avoiding dislocation to minimize the risk of vessel injuries
- Easy, fast and tight fixation of the adjustable arms by means of clamps

### Multiple options

- For all anterior, antero-lateral and lateral approaches to the thoracolumbar spine
- Interesting combination with activ L, A-Space, Macs TL and Hydrolift
- Option to connect with optic system and light source

# CCR-XX

## Radiolucent Cervical Retractor System

For Better Fluoroscopic Imaging



### Complete radiolucent blades



- 19mm PEEK blades for microsurgical techniques in toothed and blunt version
- Better fluoroscopic imaging of the vertebral bodies and the anatomical landmarks for easy and correct placement of implants

### Thought-out design



- Side load mechanism allows easy and fast intra-operative handling
- Double hinge for optimal intra-operative adaption
- Ridges in the blades provide for a firm yet gentle grip with secure fit

### Integrated compatibility

- 100 % compatible to previous ball snap closure
- 100 % compatible to the standard CCR stainless steel retractor
- Interesting combination with implant systems like CeSpace, ABC2, Caspar Plate and activ C



# Spine Classics

## Micro Lumbar Disectomy System

MIS – Minimally Invasive Approach to the Lumbar Spine

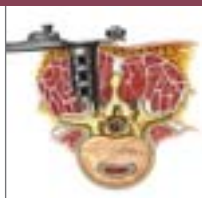


### Clearly arranged components



- Optimized basic set composed by experts with a long term experience in thousands of surgeries
- User-friendly retractor is ready for use in few steps

### Intelligent development



- Rapid ball snap closure for easy and fast handling
- Non-slip-fenestrated retractor ensures an exact fit in muscles

### Minimally invasive access

- Proven in hundreds of surgeries by using the mini-open technique
- Ideal for additional insertion of the full line of Aesculap interbody fusion implants

## Expertise in Spinal Instrumentation

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