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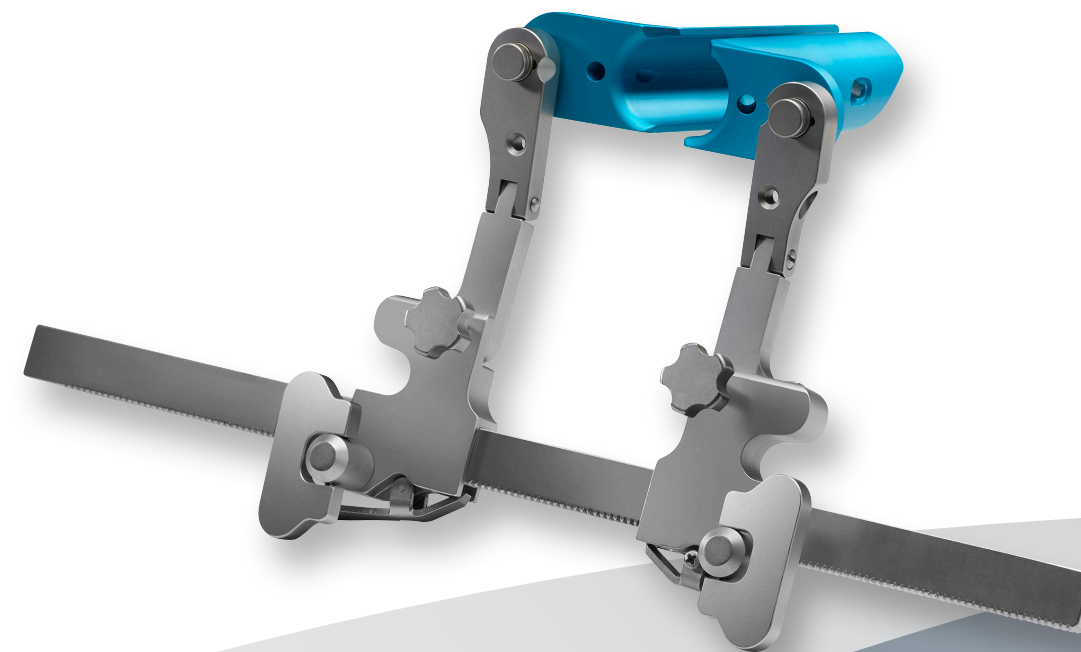
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Warning: Applicable laws restrict these products to sale by or on the order of a physician.

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DESIGN RATIONALE

The iPassage™ is a tissue sparing retraction system allowing smaller incisions that may lead to faster recovery time. iPassage™ creates a continuum for the surgeons to transition from open surgery to minimally invasive placement of interbody and other fusion devices. Reduction of incision size and tissue dissection potentially allows for patient benefits of reduced postoperative pain and faster rates of healing.

SYSTEM FEATURES

The iPassage™ Minimally Invasive Retractor adjusts to a variety of anatomical and surgical conditions. It offers a main retractor frame, a third blade option, and a counter retractor allowing for third and fourth blade attachment. Blade and hook options add flexibility and the ability to angulate up to 30° increases potential visibility to three spinal levels. Complemented by a light source and rigid arm, the iPassage™ retractor simplifies minimally invasive access.

Superior Blade Design

- Independent blade adjustment allows for precise adaptation to the patient's anatomy
 - Retraction infinitely adjustable
 - Angulation 0-30°



50mm to 120mm Aluminium Blades Multiple Blade Options

- Blades available from 50mm to 120mm
- Interchangeable blades may be used on any of the configured retractor arms

Reduce Muscle Creep

- Robust system construction maintains soft tissue working portal
- Fan blades flare to reduce potential for muscle creep

Optimal Visualization

- Low heat light source minimizes shadow and heat dissipated through the retractor blades
- Open retractor architecture provides optimum visualization and less interference with surgical field
- Hinged arm blades minimize profile at the surgical site

Complete Solution

- Versatile system that offers surgeons numerous intraoperative configurations
- 18mm or 22mm initial port diameters
- Retractor motion is independently adjustable
- Up to 250mm of total distraction possible
- Infinitely adjustable angulation up to 30°
- Optional configurations:
 - 3rd center blade can attach to center of the main rack
 - 3rd and 4th blade attachment options

Minimally Invasive Retractor



Blades

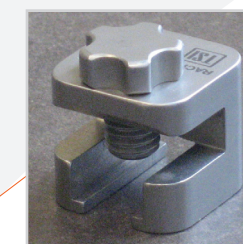
- 50mm-120mm radiolucent aluminum blades in 10mm increments
- Optional titanium blunt and "fan" blades
- Stainless steel hooks

Light Source

- Utilizes "cool" light technology
- Lower temperature light source
- Does not affect surrounding tissue



Low Temperature Light Source



Quick Connect for Easy Extension

Blades

Aluminum	Stainless Steel	Titanium
18mm and 22mm (closed diameter) 50mm-120mm	Hook 50mm-120mm	Blunt and Fanned 50mm-120mm

Light Source

Proprietary cool light technology

Dilators

Stainless Steel	Radiolucent Aluminum
8mm	13mm, 18mm, 22mm

Retractor Frames (Hinged Arms, Stainless Steel)

Main Retractor	Counter Retractor
250mm	200mm