stryker

Spine

LITe® TLIF

Stryker Spine's Less Invasive Transforaminal Lumbar Interbody Fusion

AccuLIF: Proprietary Expansion Mechanism

Three implant sizes offer a **6 - 16mm expansion range.**

The hydraulic expansion mechanism provides lift and features internal staircases for a **secure mechanical lock at six different points.**

AccuLIF offers both **tactile and visual feedback** during expansion for a **specific implant fit** for every patient.

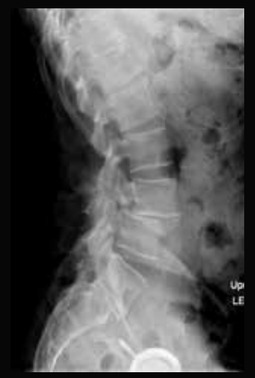
AccuLIF is designed to:

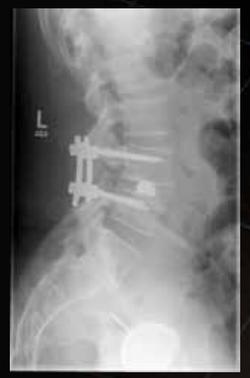
- Help protect the neural elements during insertion
- Help to preserve endplate structural integrity
- Minimize impaction forces during insertion
- Help reduce nerve root retraction
- Allow for fewer instrument passes into the disc space

AccuLIF can be used in a variety of techniques to treat degenerative disc disease with up to grade 1 spondylolisthesis and degenerative scoliosis.

Degenerative Scoliosis Correction

Reduction of Grade 1 Spondylolisthesis





Innovative Access

The LITe Pedicle Based Retractor allows for screw based & surgeon controlled retraction and distraction capabilities

Screw Pins lock ES2 tulip heads to allow for screw based pedicle distraction.

Three retraction points comprised of the ES2 screws and a medially placed blade create reproducible working portal

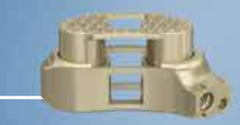
Compatibility with ES2 Integrated Blade Screw Technology helps maintain rigid retractor placement

Procedural Solution

Stryker's LITe TLIF

Access — LITe Pedicle Based Retractor

Fixation — ES2 Percutaneous Spinal System



Interbody — AccuLIF Expandable Interbody Device

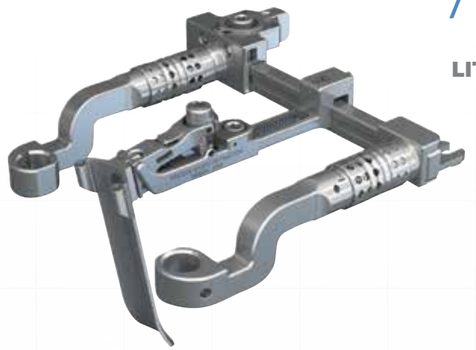
Instruments — LITe Decompression 2.0

Power — CD3 and RemB

Navigation — SpineMap 3D Software with SpineMask Non-Invasive Tracker

Fusion — BIO^4 Viable Bone Matrix

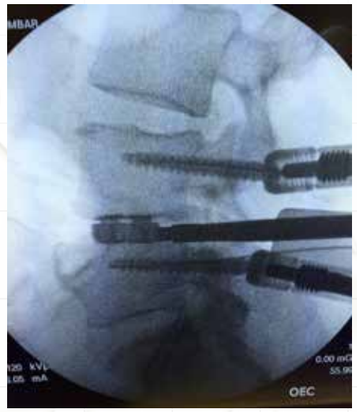
www.LITeTLIF.com

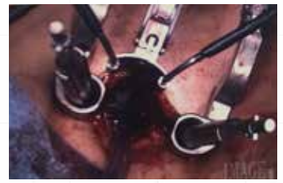


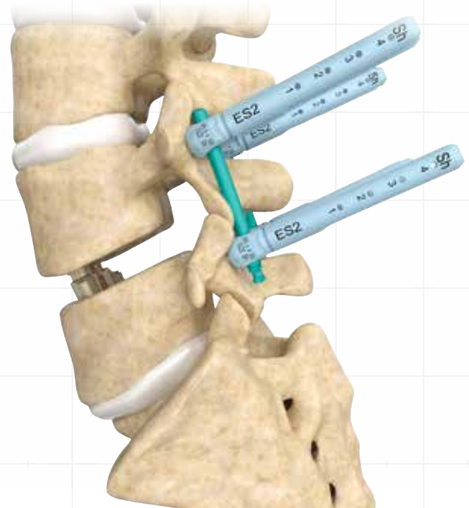
Access

LITe Pedicle Based Retractor

The LITe Pedicle Based Retractor System leverages the ES2 Screw technology by docking directly onto the ES2 screws, allowing for rigid placement and pedicle distraction capabilities. It provides surgeons with a less invasive access option designed to enhance visualization for simplified identification of anatomical structures. By placing the ES2 screw first and docking the retractor secondarily, key anatomical landmarks are preserved and can be used for anatomical orientation. This access option facilitates a less invasive approach to surgery, while minimizing the typical challenges of a minimally invasive approach.







Fixation

ES2 Percutaneous Spinal System

The ES2 Percutaneous Spinal System is designed to provide Efficiency, Simplicity, and Security during MIS procedures. Developed with Stryker's leading technology from over 20+ years of successful implant systems, ES2 offers a low profile integrated blade design with 15mm of built-in reduction threads, streamlined instrumentation and compatibility with navigational, powered, and neuromonitoring systems.

Interbody

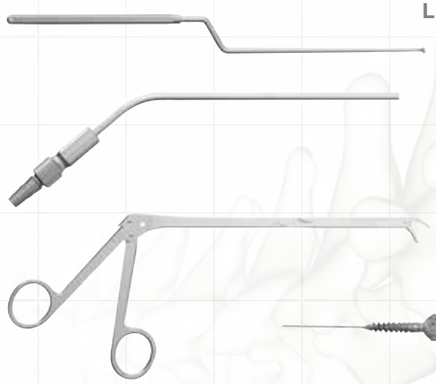
AccuLIF Expandable Interbody Device

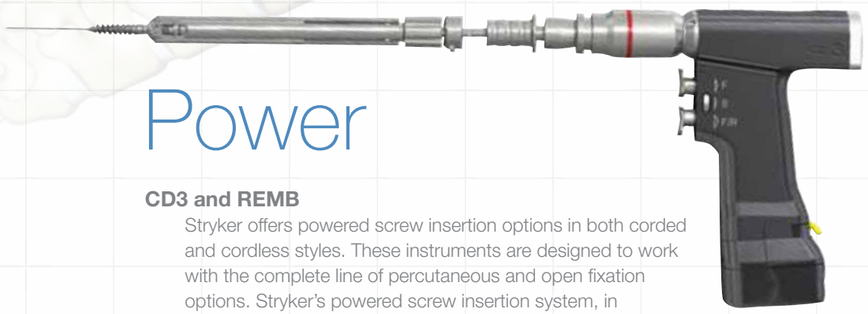
AccuLIF is an expandable cage utilizing a proprietary hydraulic-controlled expansion technology designed to help restore segmental lordosis and sagittal balance. The cage is offered in a steerable, banana-shaped style to facilitate anterior placement and permit cantilever technique for restoration of segmental lordosis, and a straight style with built-in lordosis for in-line insertion and positioning of the cage obliquely across the disc space.

Instruments

LITe Decompression 2.0

The LITe Decompression System offers a comprehensive set of instruments optimized for use in less invasive procedures, taking advantage of design features such as bayoneted working shafts, non-reflective coating, and minimized profile.





Power

CD3 and REMB

Stryker offers powered screw insertion options in both corded and cordless styles. These instruments are designed to work with the complete line of percutaneous and open fixation options. Stryker's powered screw insertion system, in collaboration with a comprehensive range of implants, is designed to reduce the repetitive stress and fatigue surgeons encounter when inserting screws manually.

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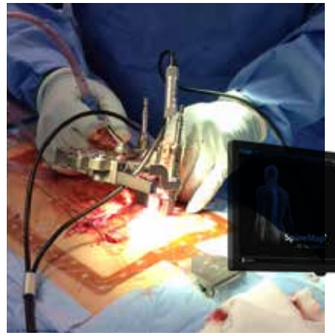

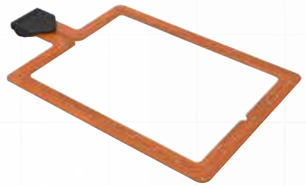

Navigation

SpineMap 3D Software with SpineMask Non-Invasive Tracker

The Stryker NAV3i Platform is Stryker's next-generation of platform solutions. Designed with the surgeon in mind, rigorous testing and usability engineering have been applied to ensure confidence in relying on Stryker Navigation. From its sleek design and powerful computing capabilities to the enhanced visualization provided by its monitors, the Stryker NAV3i easily integrates into the operating room to deliver the ultimate surgical navigation experience.

Fusion

BIO⁴ Viable Bone Matrix

The innovative principle behind BIO⁴ is to provide the next generation viable bone matrix that retains not only osteoconductive, osteoinductive and osteogenic properties of bone, which are provided by bone allograft products, but also preserves the endogenous signals (growth factors) to support angiogenesis.

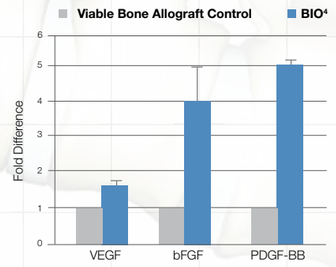

Figure 1. In comparison to other bone graft materials, BIO⁴ and autograft are the only ones to contain all four characteristics supporting bone formation.[1,2,3,4]

	OSTEOCONDUCTIVE = **SCAFFOLD**	OSTEOINDUCTIVE = **SIGNALS** (Growth Factors)	OSTEOGENIC = **Viable Cells**	ANGIOGENIC = **SIGNALS** (Growth Factors)
Synthetic Ceramics	•			
Cancellous Bone (Allograft)	•			
Demineralized Bone	•	•		
BMPs		•		
Platelet-Derived Growth Factor (+TCP)[5]	•			•
Allogeneic Morphogenetic Protein[6]	•	•		
Cellular Bone Allografts[7,8,9]	•	•	•	
Autograft	•	•	•	•
BIO⁴	✔	✔	✔	✔

Osiris Report – Data on File.

stryker®

Reconstructive

Hips

Knees

Trauma & Extremities

Foot & Ankle

Joint Preservation

Orthobiologics & Biosurgery

MedSurg

Power Tools & Surgical Accessories

Computer Assisted Surgery

Endoscopic Surgical Solutions

Integrated Communications

Beds, Stretchers & EMS

Reprocessing & Remanufacturing

Neurotechnology & Spine

Craniomaxillofacial

Interventional Spine

Neurosurgical, Spine & ENT

Neurovascular

Spinal Implants

References
1. Osiris Report – Data on File
2. Roberts and Rosenbaum, "Bone grafts, bone substitutes and orthobiologics", Organogenesis (2012)
3. Stevenson et al., "Factors affecting bone graft incorporation", Clin Orthop Relat Res. (1996)
4. Dimitriou et al., "Current concepts of molecular aspects of bone healing", Injury (2005)
5. Augment® Bone Graft Package Insert - LBS114-00 2/201
6. OsteoAMP Regulatory Information – 46-21000
7. Osteocel Plus – Nuvasive brochure
8. Trinity Evolution – TE-1005 PL-US - Orthofix
9. Cellentra package insert

A surgeon must always rely on his or her own professional clinical judgment when deciding whether to use a particular product when treating a particular patient. Stryker does not dispense medical advice and recommends that surgeons be trained in the use of any particular product before using it in surgery.

The information presented is intended to demonstrate the breadth of Stryker product offerings. A surgeon must always refer to the package insert, product label and/or instructions for use before using any Stryker product. Products may not be available in all markets because product availability is subject to the regulatory and/or medical practices in individual markets. Please contact your Stryker representative if you have questions about the availability of Stryker products in your area.

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Printed in USA

Stryker Spine
2 Pearl Court
Allendale, New Jersey 07401
Phone: +1 201 760 8000
Web: www.stryker.com