VariLift®-L
Expandable Interbody Fusion Device

The Only FDA Cleared Stand-Alone Device that Expands In Situ

Patented Zero-Profile Design:
Expands from Cylindrical to Wedge Shape
VariLift-L Expandable Interbody Fusion Device
Simple, dependable, and proven solution for lumbar fusion

Proven.
In over 15 years of clinical use, the VariLift-L has demonstrated excellent clinical outcomes.1,2,3,4,5,6,7

Stand-Alone.
The VariLift system is the only FDA-cleared stand-alone interbody device that expands in situ.

MIS/Mini-Open.
Avoiding the use of pedicle screws allows a shorter, less invasive procedure and preservation of the native anatomy.

Designed for Immediate Stability and to Resist Migration and Subsidence
As the VariLift device is expanded, surface ridges grip into the vertebral endplates, providing strong primary fixation, as demonstrated in laboratory pushout testing.8 This immediate post-operative stability is crucial to early ambulation and shorter recovery.

The wedge shape and ridged surface also provide resistance to migration over time, with a low rate of subsidence demonstrated clinically.6,7

Avoids “Flat Back” Syndrome
Lack of lordosis at the fused segment is a recognized source of early pain and accelerated degeneration in adjacent segments.10,11,12 The 12° posterior-to-anterior wedge angle of the expanded VariLift device provides lordosis while not overstretching the neighboring tissue.

Expands In Situ.
The design allows the device to be easily inserted as a cylinder and, once in place, to be expanded in situ into the shape of a wedge, creating immediate stability and fixation.

Large Fenestrations and Hollow Graft Chamber

Unexpanded Cylinder

Self-locking Expansion Plate

Expanded Wedge
Stand-alone capability means a straight-forward, minimally invasive procedure
The VariLift device was designed to achieve primary stability in stand-alone use, without the need for pedicle screws, creating more MIS and mini-open procedure opportunities.

Preserves Native Anatomy
Destruction of the facet joints has been shown to transfer additional loads to the adjacent discs, possibly accelerating adjacent level disease (ALD). The VariLift procedure preserves much of the native posterior anatomy, including the facets.

Aggressive removal of cortical bone from the endplates is a known cause of subsidence. The VariLift technique emphasizes endplate preservation, providing a solid foundation for device fixation.

Minimal Retraction, No Impaction
The small semi-circular dura-retractor minimizes retraction against the nerve root and allows mobility within the small incision.

The small pre-expanded size of the VariLift device provides ease of implantation, with no impaction required.
The VariLift Expandable Interbody Fusion System is a simplified approach to spinal fixation—with no impact insertion and innovative anatomic design that preserves the native anatomy. The strong body of clinical evidence—including over a decade of experience in thousands of patients—shows that stand-alone interbody fusion is a proven surgical option.

References