

# Expandable, Non-Fusion Corpectomy Device

ID: 2024-059

## Executive Statement:

An innovative device designed to maintain natural spine biomechanics during corpectomy procedures.

## Technology Overview:

This device represents a significant advancement in spinal surgery technology, incorporating the I-CORE compliant mechanism for mimicking natural intervertebral disc motion and providing vertical expandability. It is engineered to replace traditional rigid corpectomy constructs, offering a solution that supports healthy spine biomechanics by enabling motion and reducing the need for spinal fusion.

## Key Advantages:

- Mimics the natural motion of intervertebral discs
- Provides vertical expandability for easier placement during surgery
- Designed to reduce the risk of adjacent disc degeneration
- Applicable for both cervical and lumbar spinal procedures
- Offers a more stable alternative to multilevel disc replacements

## Problems Addressed:

- Limitations of rigid mechanical constructs in traditional corpectomy
- Risk of degeneration in adjacent spinal discs post-surgery
- Challenges in maintaining healthy spine biomechanics after corpectomy

## Market Applications:

- Treatment of degenerative disc disease
- Correction of spinal deformities
- Stabilization of spinal segments post-trauma
- Advanced surgical alternatives to traditional spinal fusion techniques