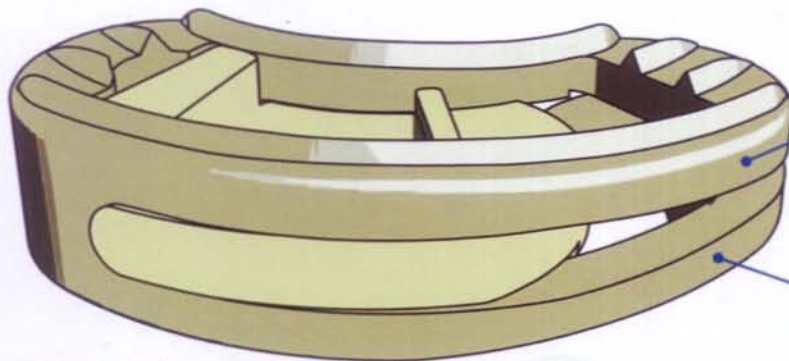


SmArtCage-L:

The expansible lumbar cage that simplifies spinal surgery



Transforaminal Lumbar Interbody Fusion

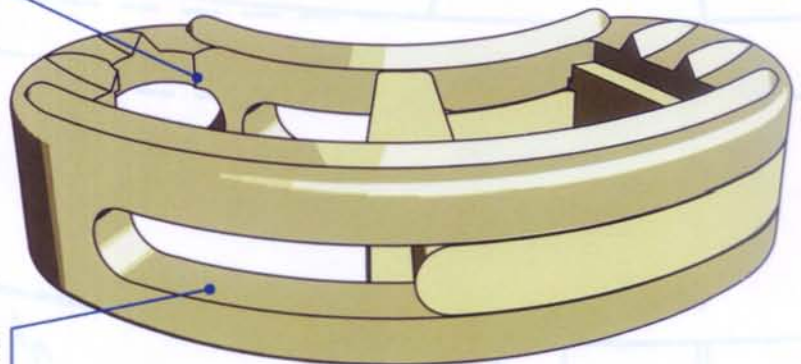


Unexpanded Cage

Minimize Dural Exposure. Reduce iatrogenic neurologic lesion risk due to excessive root traction. For revision surgery, avoid dissection of epidural scar. Minimize dural tears and symptomatic epidural fibrosis.

Unique Expansion Feature. One step cage insertion and expansion, even in severely collapsed disc spaces and controlled bone graft transfer to opposite side.

Anatomic Biconvex Shape. A single expansion and insertion tool uniquely engineered to precisely guide and reorient throughout the 80° spanned during insertion. This unique holder is designed to perfectly position the cage in the disc space.



Expanded Cage

Fusion. The large area available for bone graft (or bone) facilitates intervertebral fusion. Bone graft can be placed inside the posterior part of the cage and all around to fill the disc space.

Additional Benefits:

- Posterior pedicular fixation can be done at the same stage, performing a complete 360° fusion within a single approach,
- Restore disc height even in symmetric or asymmetric discopathy,
- Maintains or restore anatomically correct lordosis.



SmArtCage-L



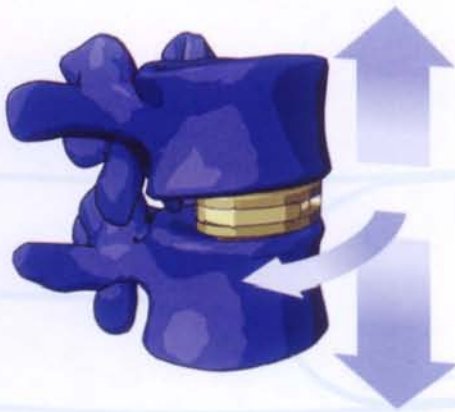
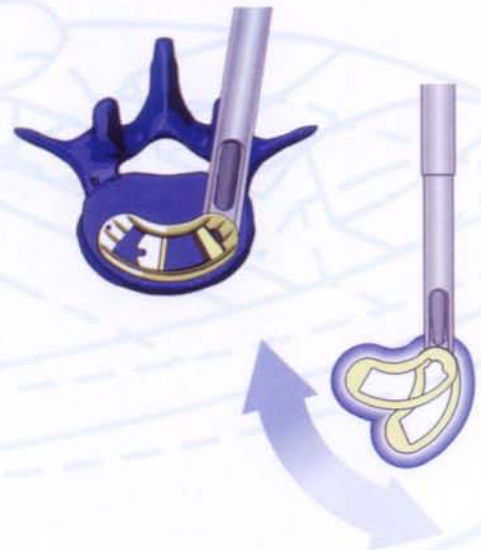
Insertion. The cage and the holder are initially lined up to facilitate entry. The cages' upper and lower surfaces gradually widens the disc space while delivering minimal additional stresses to the vertebrae endplates. The initial precise positioning phase - accomplished while the cage is partially engaged in the disc space - entails only minimal forces.

The holder is engineered to be used during all insertion phases: from initial entry trough expansion and progression, this ergonomic tool provides multiple functions that make the insertion process a comfortable experience. The cage is firmly held from its straight, initial configuration up to its 80° final position; yet in-between angular readjustments can be made freely to ease progression.



Positioning. The cage is gradually moved to its final location while the relative angular position with the holder is adjusted to maintain precise positioning during progression.

Progression on the vertebrae endplates is eased by the circular grooves and the wedge-like profile, which gradually widens the contralateral disc space.



Expansion. The cage holder pushes the slider and equally offset the upper and lower surfaces of the cage, releasing the opposite side roots and rebalancing the disc space in a strictly parallel configuration.

Bone graft is at the same time transferred to the opposed lateral space. Additional bone graft material can be inserted through the lateral window inside the remaining and all around the cage to entirely fill the disc space and ensure optimal fusion condition.

SmArtCage-L advantages:

Radiolucency and consistency:

The biocompatibility and mechanical properties of Peek-Optima® are perfectly suited for inter-body applications. Metallic markers are present to ensure correct positioning and expansion during insertion.

Sizes :

Available in 4 heights ranging from 7 to 13 mm, corresponding to all pathological situations.

Instruments set:

One step insertion and expansion cage holder.
Curved rasp for endplates refreshing.
Curved and straight curette (upward and downward versions).
4 Cages templates matching the unexpanded cages.
Complementary fixation system is also available

SmArt Spine

Türkiye Distribütörü

CANMED
SANAYİ ve TİCARET LTD. ŞTİ.

Hürriyet Caddesi No: 49/2
Dikmen-Çankaya/ANKARA

Tel: +90.312. 480 71 71 (pbx)

Fax: +90.312. 481 33 66

www.canmed.com.tr

e-mail: canmed@canmed.com.tr

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