

Integrity Implants was born from a philosophy of solving the clinical challenges of spine surgery through innovation. Spinal fusion implant design requires reconciling somewhat conflicting clinical constraints:

- 01/ Respect the neural anatomy with a minimal insertion profile and technique
- 0 2 / Promote stability and fusion through large cage footprints and graft volume

Integrity Implants has managed to address both needs through Adaptive Geometry™. Its multidirectional interbody devices transform from a small insertion profile to an expanded cage that ensures stability and accommodates maximum graft delivery, and its robust instrument set allows surgeons to address complex pathology.

ADAPTIVE GEOMETRY



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MINIMALLY INVASIVE MAXIMALLY EFFECTIVE



Minimal Insertion Profile with Multidirectional Expansion

Maximum Graft Delivery

Endplate Conformity





- Implant expands in width, height, and lordosis for maximum stability and graft delivery
- Open architecture allows for continuous graft delivery through the implant and into the disc space
- Graft volume only restricted by the quantity of disc removed
- PEEK shell naturally conforms to the patient's endplate anatomy



- Ultra-low 7mm tall x 7mm wide insertion profile deploys with simultaneous cranialcaudal and medial-lateral expansion resulting in an 11mm tall x 12mm wide footprint
- Pencil-like insertion profile allows TLIF access within Kambin's Triangle
- Instrumentation facilitates surgeon's preferred technique, whether an MIS Kambin's TLIF or an endoscopically assisted TLIF with additional bony resection
- Helps maintain lordosis and foraminal height restoration



FlareHawk Retrospective Data

Bidirectional Expandable Technology for Transforaminal or Posterior Lumbar Interbody Fusion: A Retrospective Analysis of Safety and Performance

Domagoj Coric, Raphael R. Roybal, Mark Grubb, Vincent Rossi, Alex K. Yu, Isaac R. Swink, Jason Long, Boyle C. Cheng and Jason A. Inzana in *International Journal of Spine Surgery* October 2020, 7123; DOI: https://doi.org/10.14444/7123

STUDY DESIGN





STUDY SITES



SURGERIES UTILIZING AUTOGRAFT AND/OR ALLOGRAFT (NO BMP USED)



MINIMALLY INVASIVE APPROACH



 All the clinical benefits of the FlareHawk expandable interbody cage with a bonded titanium surface at the bone interface

Proprietary process intermixes the titanium and PEEK atoms at the bonding interface to provide strong adhesion and a resulting layer of titanium that is thick enough to provide the desired surface characteristics yet thin enough not to impair radiographic visualization of implant placement and assessment of fusion

 Ability to radiographically visualize implant positioning and fusion reduces the need for timeconsuming, costly, and radiation-exposing CT scans

 Reduced risk of delamination due to the proprietary bonding process

RESULTS

97.4%

OF LEVELS ACHIEVED FUSION BASED ON BRIDWELL-LENKE GRADING



0% NERVE INJURIES 0% EXPULSION 0% SUBSIDENCE 0% END-PLATE FRACTURE

LINESIDER

Maximize Surgical Efficiency While Minimizing Back-Table Processes

- Industry-leading design, quality, and versatility
- Available in Open, Cortical, and MIS sets, the system is designed to give the surgeon versatility in their surgical approach along with the ability to customize their construct to best address the patient's anatomy and pathology
- In order to optimize construct stiffness, rods in 5.0mm, 5.5mm, and 6.0mm diameters are available in CoCr and Ti Alloy. Rods are colorcoded and marked with a linear indicator for ease of use
- Tulips, available in Standard, Reduction, and MIS options, are compatible with all shanks and one single polyaxial screw driver

- Streamlined instrumentation eliminates compatibility issues across the system: one common screwdriver is utilized across all sets
- Self-drilling and self-tapping screw shanks feature a proprietary tip designed for strong purchase and ease of insertion and are available as dual-lead for accelerated insertion and a dualto-quad lead for additional purchase in cortical applications
- Adjacent Segment Fixation Tray is compatible with a multitude of constructs, minimizing the need to revise existing instrumentation in revision surgery



MONGOOSE

Mongoose is a one-pass screw delivery system designed to complement LineSider's MIS Fixation System. Using a single instrument, Mongoose facilitates the ability to set a K-wire trajectory followed immediately by screw advancement. By combining multiple instruments into one driver, Mongoose minimizes overall surgical time while streamlining screw delivery.





Toro expandable solutions are currently in development to meet the clinical needs for lateral, posterior, and anterior applications.*

Leveraging mechanical expansion, Toro devices feature multidirectional expansion and are designed to lift with the widest footprint to help minimize stress on the endplates. Toro seeks to directly address the design and production limitations often encountered with expandable cages, as well as to expand the range of clinical pathologies it can successfully treat.

*The Toro-L Interbody Fusion System has received FDA 510(k) clearance. Additional Toro products have not yet been cleared by the FDA.