

S⁴ Spinal System



Aesculap Spine

S⁴ Spinal System

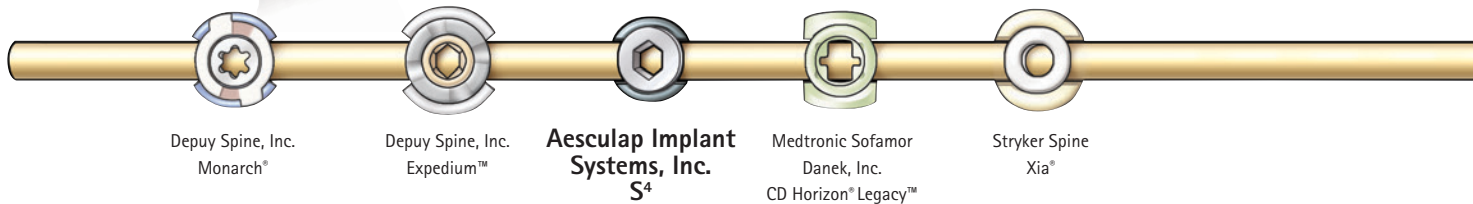
A benchmark from a leader in innovation and quality

Innovation Through Tabs

S⁴ is design engineered to maximize stability of the construct while providing easy implantation.

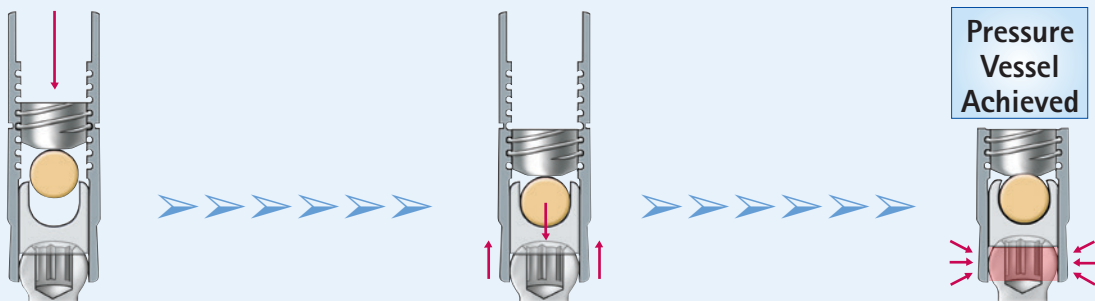


Features	Benefits
<ul style="list-style-type: none"> Extended tabs Set screw lead in Break off tabs 	<ul style="list-style-type: none"> Increase rod capture range of motion Minimize set screw cross threading Achieve low profile to minimize interference with anatomical structures
<ul style="list-style-type: none"> Patented interlocking thread design 	<ul style="list-style-type: none"> Minimize splaying of screw body



S⁴ Pressure Vessel Effect

S⁴ innovatively transfers energy throughout the entire polyaxial screw construct transforming it into a solid monoaxial construct.

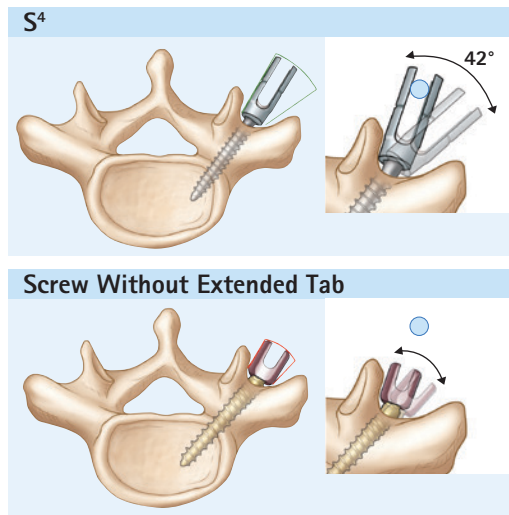


- As the set screw is engaged, the undercut threads direct the force inward to prevent splaying of the screw body.
- The set screw engages the rod forcing it into S⁴'s Commercially Pure Titanium (CPT) insert.
- CPT insert compresses against the bone screw creating a counterforce drawing the screw body upwards.
- As torque increases, the base of the set screw conforms to the rod while the softer insert contours around it maximizing rod grip.
- The screw head's ridges compress into the softer insert creating material embedment.
- The screw head is seated in the smaller diameter screw body creating a pressure vessel effect resulting in high interconnection strength.

Illustrations are depictions of named screws based off of product images published by the listed companies. Illustrations may not be drawn precisely to scale.

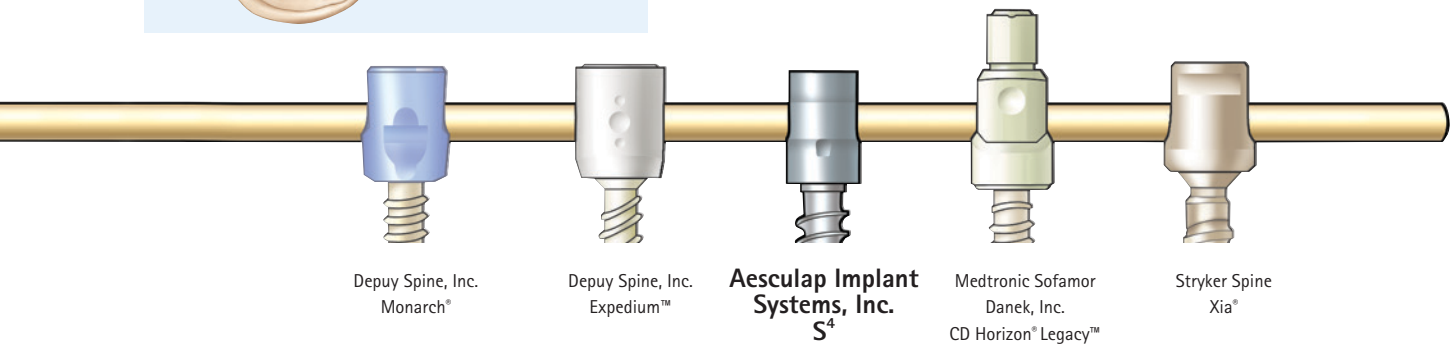
S⁴ Spinal System Maximizes Rod Capture Range of Motion*

The extended tabs, small diameter (10.5 mm), and the 42 degree polyaxicity maximizes the range of the screw body to ease rod capture without the use of additional instruments.



Features	Benefits
<ul style="list-style-type: none"> Small implant Extended tabs 	<ul style="list-style-type: none"> Maximize screw head range of motion volume Simplify rod insertion due to low run on the rod on screw head Increase rod capture distance of the screw virtually eliminating need for extra instrumentation (i.e. rocker, rod persuader)

*Rod Capture Range of Motion – the zone in which the rod can be effectively inserted into the screw head.

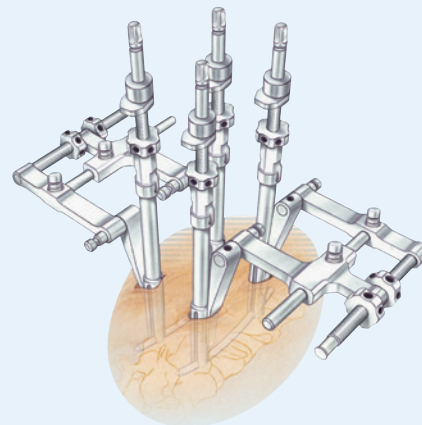


S⁴ Versatility

S⁴ offers access to a unique set of specialty instruments that reduce spondylolisthesis or fractures using a posterior approach.



SRI (Spondylolisthesis Reduction Instrument)
 The only solution for simultaneous translational and rotational correction of spondylolisthesis.



FRI (Fracture Reduction Instrument)
 A posterior fracture reduction system that offers precision control with a minimum amount of force for compression, distraction and curvature correction.

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DOC521 Rev C 500 11/16