

Aesculap Spine

S⁴ Cervical System

Product Information



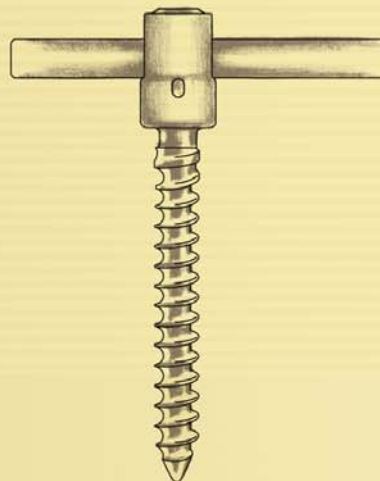
Posterior Cervical Stabilisation System

S⁴ Cervical System

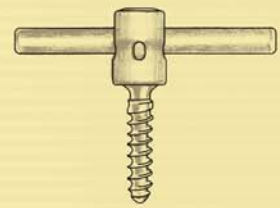
S⁴

Cervical

S⁴ lumbar



S⁴ Cervical



By combining the exceptionally small yet stable design of the screw construct with simple instrumentation, the S⁴ Spinal System succeeded as a remarkably safe system for posterior column fixation.

The S⁴ Spinal System and S⁴ Cervical System fulfill these aims with its four key features:

- small size
- stable screw rod connection
- simple insertion
 - which adds up to the fourth –
- safe procedure.

The S⁴ Cervical System efficiently transfers these features to its wide implant and instrument versatility to meet the special needs of the cervical spine.

S⁴mall

- Revolutionary undercut thread for minature size of the screw head
- Wide screw angle and low profile for adaptation of the construct to patient anatomy
- Minimal access instruments for percutaneous approach at C1-C2

S⁴table

- Unique S⁴ closure mechanism with undercut thread stabilises polyaxial construct
- Special shaped seat inside the screw body creates pressure vessel effect
- Provides high overall biomechanical stability



it's a challenge – posterior cervical surgery

The special needs of the cervical spine make posterior cervical stabilisation a challenging procedure. High construct stability combined with minimal implant size make the S⁴ Cervical System the partner to rely on.



S⁴imple

- Specialised instruments for easy screw and hook placement in various anatomical situations
- Color-coded implants and instruments for ease of use
- Guiding instruments for minimal access and soft tissue and nerve root protection

S⁴afe

- Small implant volume, overall biomechanical strength, and easy access instruments for a fast and efficient surgical procedure and optimal patient outcome

S⁴ Cervical System



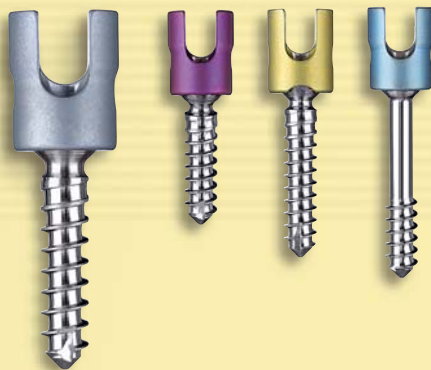


it's your choice – S4 Cervical implants

S4

Cervical

Choice of implants matters to match every possible anatomical situation. Small, top-loading implants, connecting options to the thoracolumbar spine and a wide range of implants provide solutions.



Variable screw options

- 3.5 and 4.0 mm minimipolyaxial screws
- 55° favorite angle screws
- Smooth shank screws in variable thread and shank lengths

Connector Diversity

- Fixed and variable Cross Connectors 22–58 mm
- Multiple rod-to-rod connectors
- Dual diameter rod 3.5 – 5.5 mm



Occiput plate

- Stability through midline fixation
- Self-locking occiput screws



Laminar hooks

- Small and large size options
- Unique S4 head design provides similar biomechanical force distribution comparable to screws

S⁴ Cervical System





it's a circle – S4 Cervical instruments

S4

Cervical

The S4 Cervical instruments close the circle between anatomical needs, wide implant range and simple insertion:

Basic instruments for simple insertion and additional support instruments for ease of use in challenging situations.

Basic instruments

- Bone preparation
- Screw/rod application and removal
- Rod bending and reconstruction

Guiding instruments for smooth shank screws

- Unique drill-tap-screw guide for nerve root protection and soft tissue retraction at C1
- Safe and fast handling of the insertion instruments while operating within the guiding instrument

Percutaneous minimal access instruments

- Extra-long instruments for percutaneous transarticular screw fixation at C1-C2
- Color-coding for ease of use





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