Aesculap® S4® Cervical System

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

By combining the exceptionally small yet stable design of the screw construct with simple instrumentation, the S4 Cervical System is a remarkably innovative system for posterior cervical column stabilization.

The S4 Cervical System fulfills these aims with its four key features:

- **Small size**
- **Stable construct**
- **Simple insertion**
- **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 and thoracic spine.

### S4 mall
- Revolutionary undercut thread for miniature size of the screw head, especially important in small bony structures
- Wide screw angle and low profile for adaptation of the construct to patient anatomy
- Minimal access instruments for subcutaneous approach

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

- Specialized 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

**S4 afe**

- Small implant volume, overall biomechanical strength, and easy access instruments help to achieve a fast and efficient surgical procedure and excellent patient outcome
A big variety of implants is important to match every possible anatomical situation. Small, top-loading implants, connecting options to the thoracolumbar spine and a wide range of implants provide all thinkable solutions.

**Occiput Plate**
- Stability through midline fixation
- Self-locking occiput screws

**Multiple Screw Options**
- Standard
- Rescue
- Favoured Angle
- Smooth Shank

- Ø 3.5 and Ø 4.0 mm polyaxial screws, +/- 35°
- +/-45° favored angle screws
- Smooth shank screws in variable thread and shank lengths

**Various Connecting Options**
- Fixed and variable cross connectors 22 – 58 mm
- Rod to rod connectors
- Lateral offset connectors straight and L-shaped

**Laminar Hooks**
- Small and large size options

**Rod Diversity**
- Straight
- Prebent rod for occipital plate
- Dual diameter rod Ø 3.5 - 5.5 mm to connect to thoracolumbar construct
The S⁴ Cervical instruments address the anatomical needs, and allow simple implant insertion. Additional support instruments are available for ease of use in challenging situations.

Guiding Instruments for C1 Screw Insertion
- Unique drill-tap-screw guide for nerve root and soft tissue protection at C1
- Secure handling of the insertion instruments while operating within the guiding sleeve

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

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