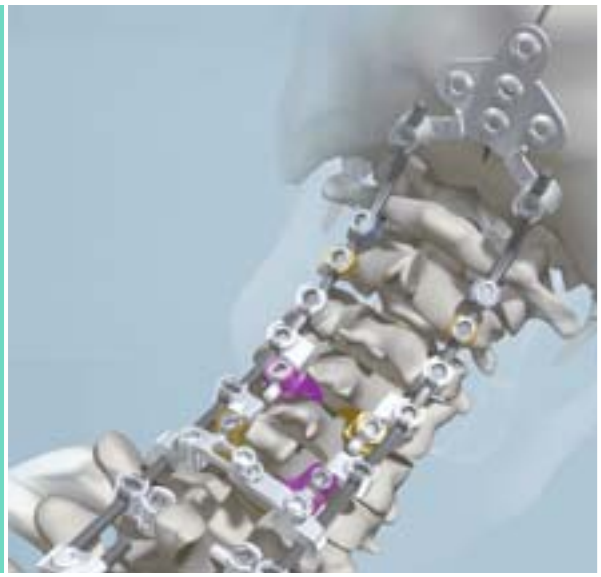
Aesculap® S4® Cervical System

Posterior Occipital Cervical Thoracic Stabilization System



Aesculap Spine

B BRAUN
SHARING EXPERTISE

Aesculap® S4® Cervical System

Meeting the Challenge – Posterior Cervical Spine Surgery

S4 C

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

Aesculap® S4® Cervical System

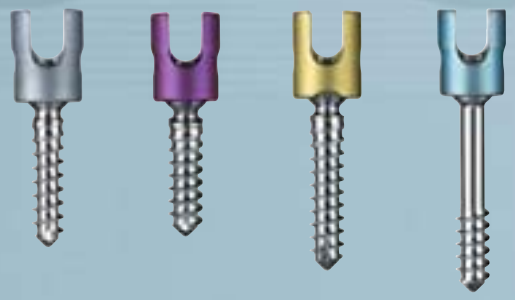
S4® Cervical Implants

S4 C

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.

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

Occiput Plate

- Stability through midline fixation
- Self-locking occiput screws

Laminar Hooks

- Small and large size options

Various Connecting Options

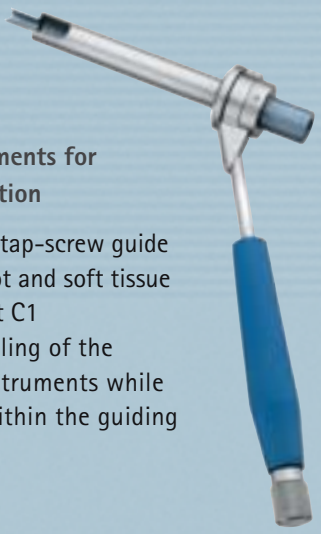
- Fixed and variable cross connectors 22 - 58 mm
- Rod to rod connectors
- Lateral offset connectors straight and L-shaped

Rod Diversity

- Straight
- Prebent rod for occipital plate
- Dual diameter rod ø 3.5 - 5.5 mm to connect to thoracolumbar construct

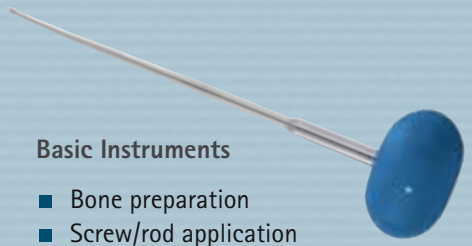
S4® Cervical Instruments

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.



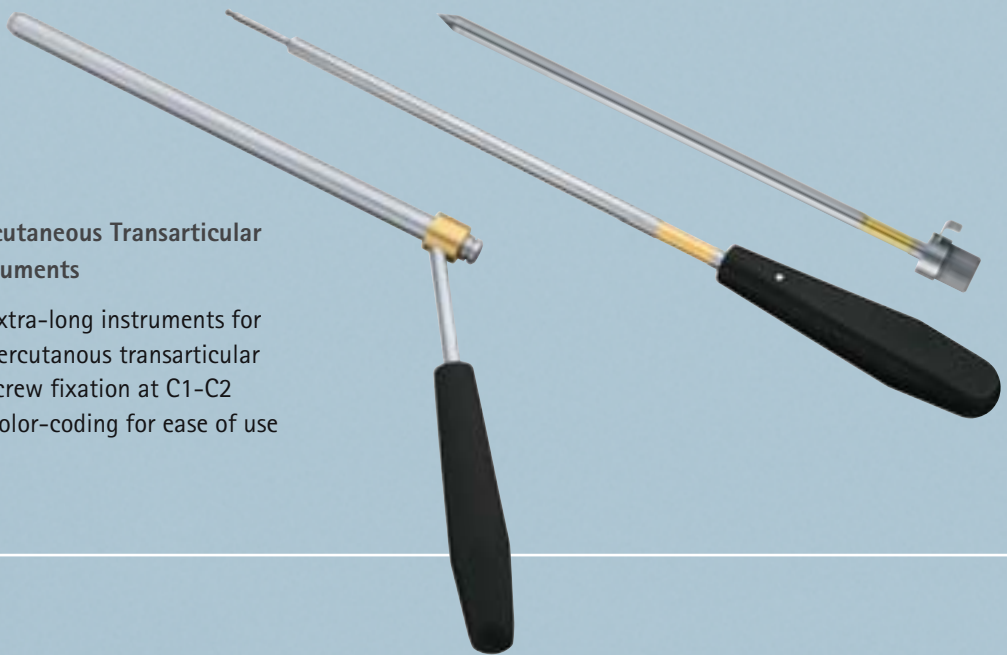
Guiding Instruments for C1 Screw Insertion

- 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 percutanous transarticular screw fixation at C1-C2
- Color-coding for ease of use

Aesculap® S4® Cervical System

S4®C Construct Overview

S4C

1. Occiput Plate
2. Pre-Bent-Rod
3. Smooth Shank Screw
4. Favored Angle Screw
5. L-shaped Offset Connector
6. Hook
7. Cross Connector
8. Offset Connector
9. Rod-to-Rod Connector
10. S4 Cervical Polyaxial Screw
11. S4 Thoracolumbar Screw
12. Dual Diameter Rod

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