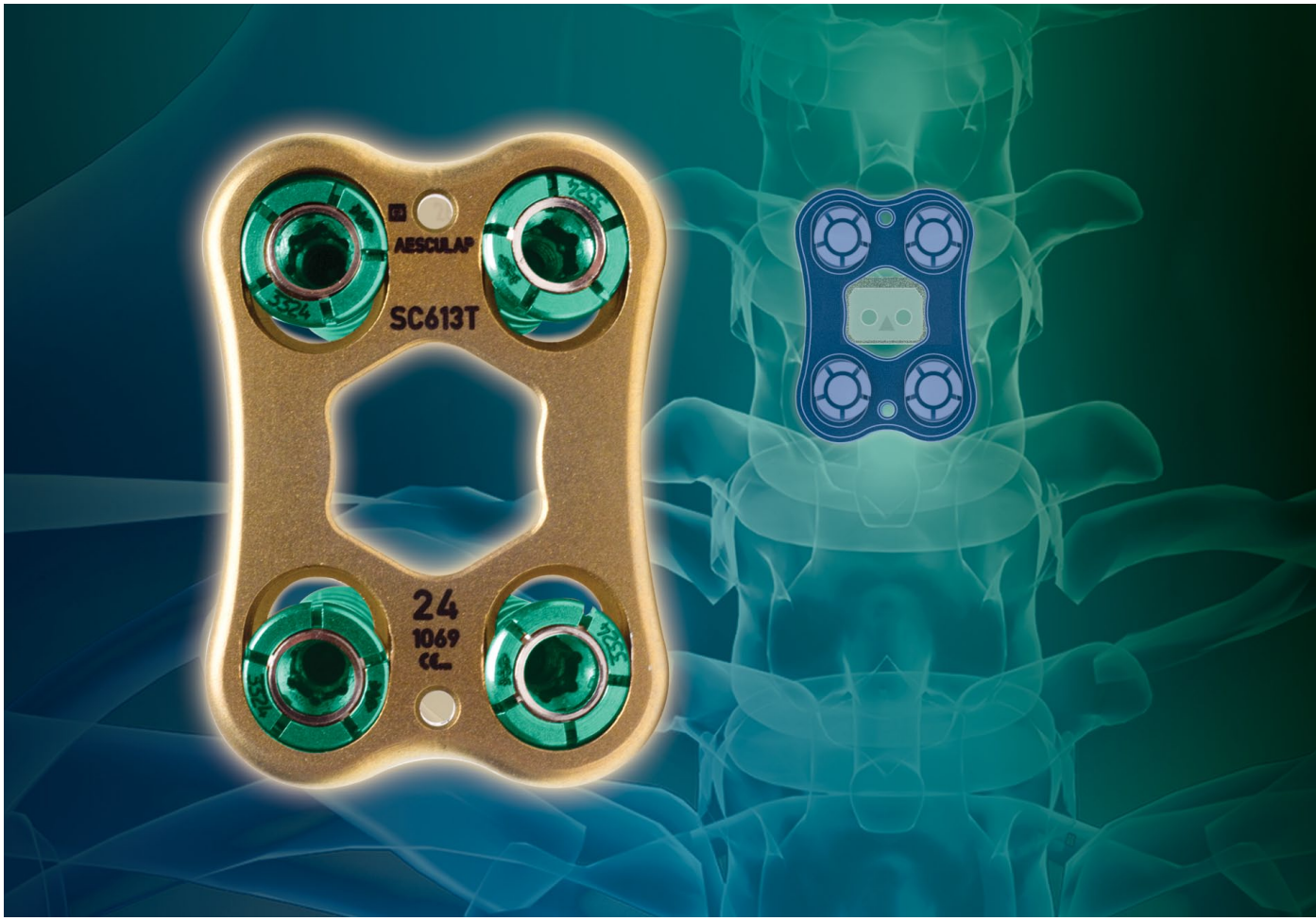
Quintex™ Cervical Plating System

Product Brochure



Aesculap Spine

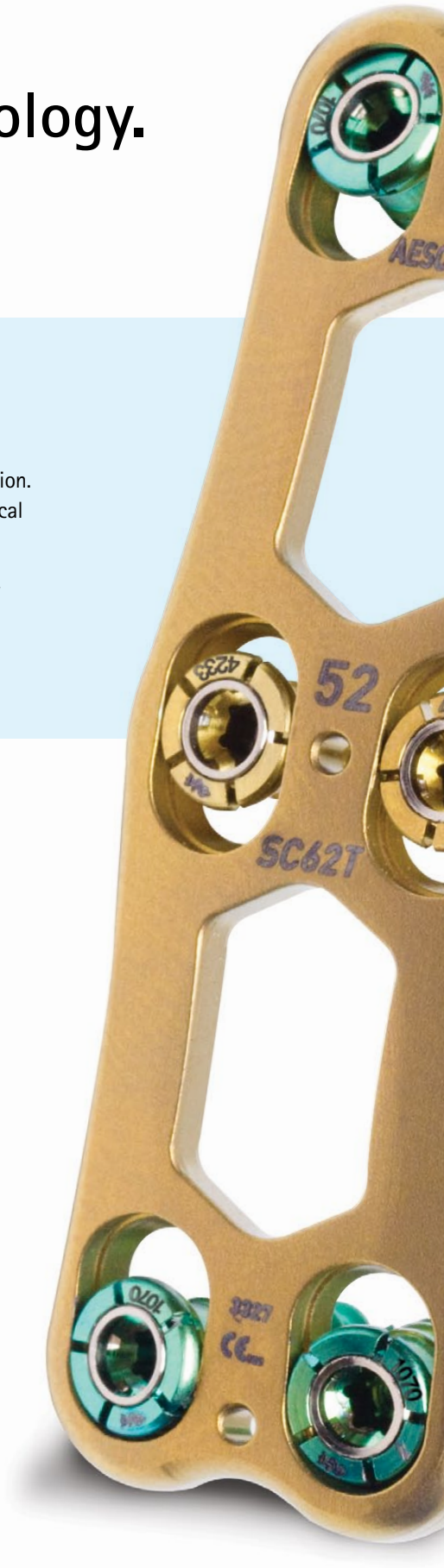
AESCULAP®
Implant Systems

Driven by proven plating technology. Inspired by the future of ACDF.

Quintex™ Cervical Plating System

Today's most versatile plating system, Quintex offers a low-profile plate design coupled with simple implantation and screw insertion, zero-step locking, and universal soft-feel instrumentation. Engineered around data-driven functionality, Quintex allows surgeons to customize biomechanical construct performance at each level based on unique patient needs.

Designed to address all plating philosophies, Quintex offers construct options ranging from fully rigid to dynamic, including the new Semidynamic™ construct. Semidynamic is a unique option that allows surgeons who are dynamic or nondynamic construct users to address very specific patient needs through precise tailoring of plating translation.



System Features & Benefits

- **Comprehensive Plating System:** One solution for all pathologies and ideologies
- **New Semidynamic Construct:** "Controlled motion" semiconstrained screws in a dynamic plate
- **Design Driven by Clinical Data:** Slot dimensions and orientation based on clinical subsidence data from Pitzen ABC study*
- **Exceptional Screw/Driver Interface:** "Stab and grab" taper fit between driver and screw; 2.5mm "torx"-style design maximizes torque transmission
- **Harmonized Instrumentation:** Strike plates on proximal end of instruments facilitate self-drilling screw placement; matte finish on shafts facilitates legibility

Passive Locking Mechanism: Designed for speed and ease of use; tactile feel and visual cues confirm that locking mechanism is engaged

Quintex is designed for anterior cervical intervertebral body screw fixation from levels C2 to T1. For complete indications and contraindication, see inside back cover.

*Pitzen TR, Chrobok J, Stulik J, Ruffing S, Drumm J, Sova L, Kucera R, Vyskocil T, Steudel WI. Implant Complications, Fusion, Loss of Lordosis, and Outcome After Anterior Cervical Plating With Dynamic or Rigid Plates: Two-year Results of a Multi-centric, Randomized, Controlled Study. Spine (Phila Pa 1976). 2009 Apr 1;34(7):641-6.

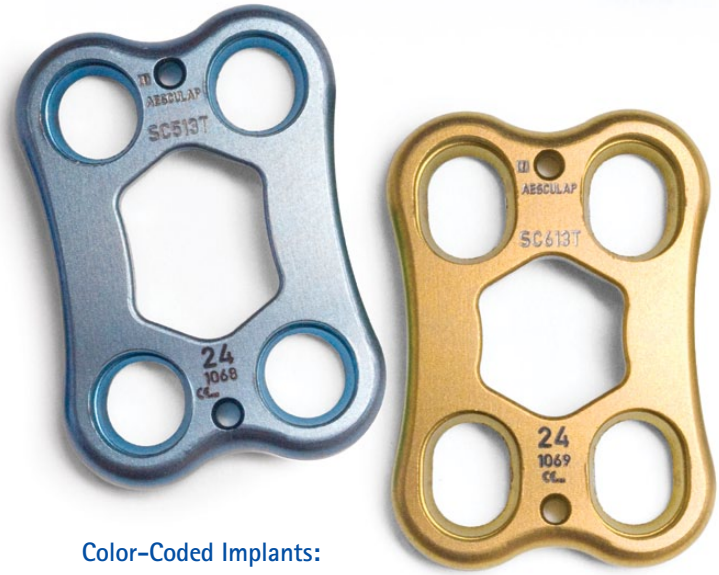
Performance and design. Hybridized.

Quintex™ plating and screw options allow for hybrid plating constructs that best meet patient needs. With Quintex, surgeons can:

- Tailor translation for dynamic constructs
- Control settling during fusion
- Address instability at specific levels with a more rigid construct

Low-Profile (2.0mm) Anatomic Design: Less anterior column height minimizes risk of dysphagia and dysphonia after surgery and approximates vertebrae curvature to minimize anterior profile

Oversized Graft Windows:
Excellent intraoperative graft and endplate visualization to confirm interbody placement



Color-Coded Implants:
Simple color scheme improves ease of use and minimizes risk of implant incompatibility

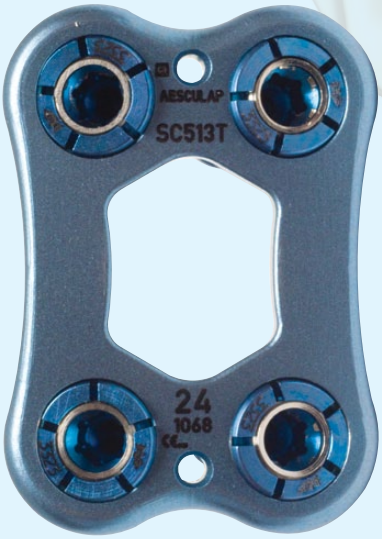
Quintex™ Hybrid/Dynamic Plating System

Designed to offer performance ranging from rigid to dynamic, the Quintex hybrid/dynamic plating system includes two plating styles with four construct options. This level of plating precision allows surgeons to accurately control the level of stress shielding or load sharing required by a specific ACDF procedure.

Hybrid Plate

Based on a screw hole design, the Quintex hybrid plate is available in constrained and semiconstrained constructs. Symmetrical plate design, large graft window; no added plate mechanisms.

Constrained



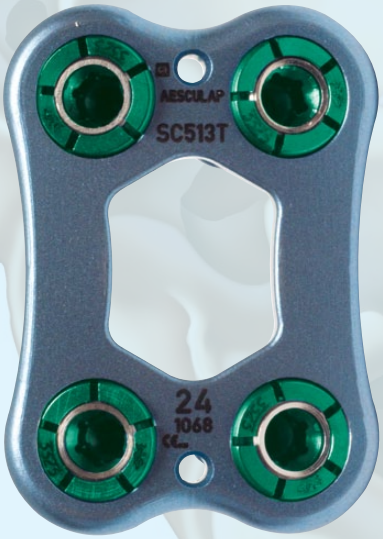
IMPLANT

Hybrid Plate (Blue)
Constrained Screws (Blue)

PERFORMANCE

Screws will not retain polyaxiality.
Screws will not angle or translate.

Semiconstrained



IMPLANT

Hybrid Plate (Blue)
Semiconstrained Screws (Green)

PERFORMANCE

Screws retain polyaxial motion
until fusion occurs.
Screws will not angle or translate.

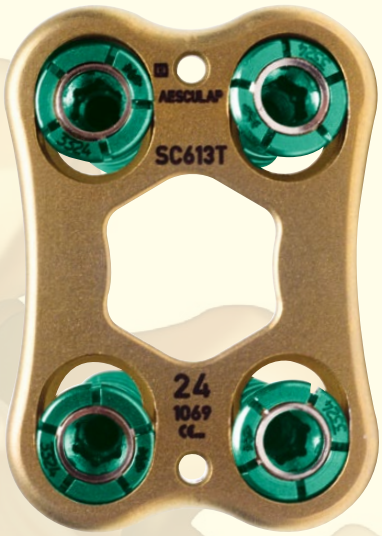
MORE RIGID

Each distinct Quintex™ implant combination offers unique performance characteristics. For both hybrid and constrained plating, constructs may be hybridized to customize the dynamic properties at each level and accommodate patient-specific anatomical or clinical considerations. The unique Semidynamic™ construct (resistive translation) may be applied across the entire construct or applied to a single level.

Dynamic Plate

Based on a screw slot design, the Quintex hybrid plate is available in dynamic and the new Semidynamic constructs. Symmetrical plate design, large graft window.

Semidynamic™



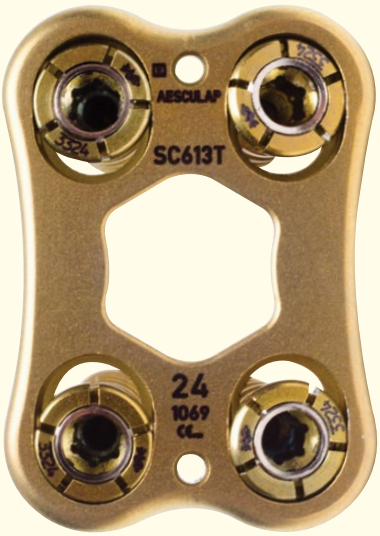
IMPLANT

Dynamic Plate (Gold)
Semiconstrained Screws (Green)

PERFORMANCE

Screws retain polyaxial motion until fusion occurs. Screws angle and translate with resistance in a controlled manner until fusion occurs. Screws should be inserted at the distal ends of each slot.

Dynamic



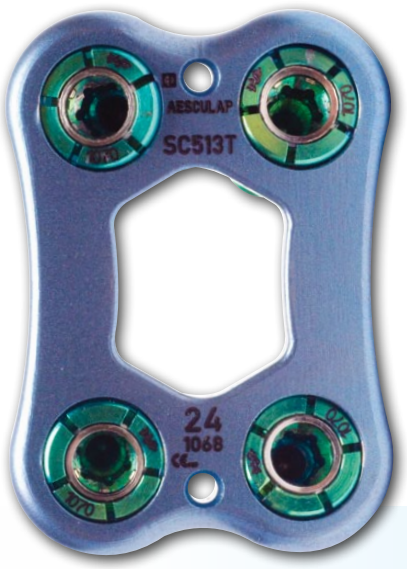
IMPLANT

Dynamic Plate (Gold)
Dynamic Screws (Gold)

PERFORMANCE

Screws retain polyaxial motion until fusion occurs. Screws are free to angle and translate without resistance until fusion occurs. Screws should be inserted at the distal ends of each slot. Allows full implementation of Wolf's Law.

Versatile. Easy. Intuitive.

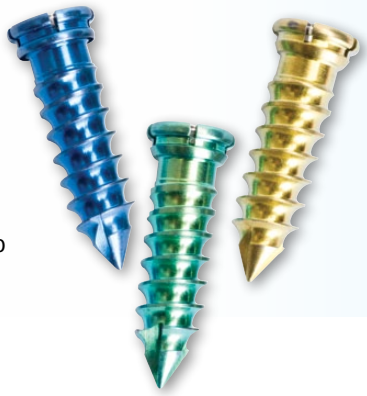


Plating Versatility

Comprised of two plating styles, the Quintex™ system allows surgeons to precisely control the level of stress shielding and load sharing that will most benefit a patient's needs:

- **Hybrid Plate:** Available in constrained and semiconstrained constructs, hybrid plate features screw holes. Plate lengths from 18 to 112mm.
- **Dynamic Plate:** Available in dynamic and the new Semidynamic™ constructs, dynamic plate features screw slots. Plate lengths from 20 to 112mm.
- **Anatomical Design:** Slot length and orientation driven by clinical data*
- **Large Graft Windows:** Facilitates intraoperative and post-operative visualization
- **Optimized Design:** Quintex plates are made from a Ti6A14V material with a low < 2.0mm profile; plates are available in 1-level to 5-level configurations

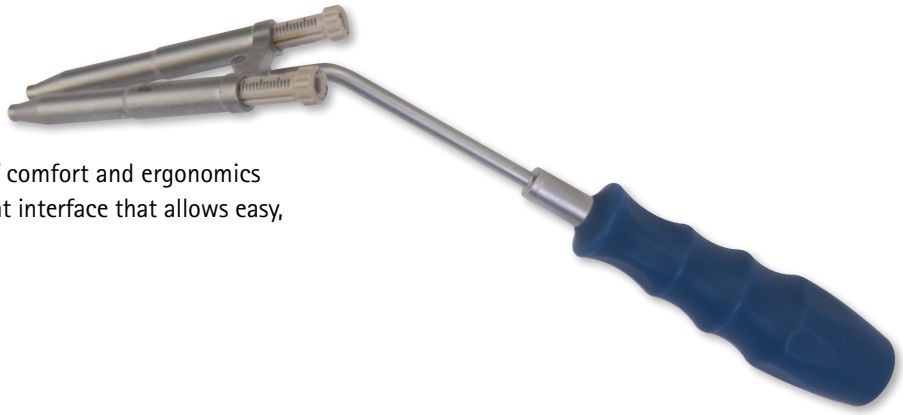
Easy-Use Bone Screws



Quintex screw bodies are made from the same Ti6A14V material as Quintex plating; screw inserts are made from Phynox.

- **4.0mm Screws:** Pointed tips; Blue, Green, Gold; 10 to 18mm lengths
- **4.5mm Screws:** Blunt tips; Magenta shaft, colored heads; 11 to 17mm lengths
- **Automatic Locking Mechanism:** Convenient automatic locking system means zero additional steps for surgeons
- **Conically Tapered Core Diameter:** Increases bone purchase**
- **Progressive Thread Pattern™:** Thread width increases as screw is inserted, maximizing bone purchase
- **Triple-Fluted Self-Drilling Screws:** Designed for speed; won't "walk" or cut bone laterally when screw is starting

Intuitive Instrumentation



Aesculap Implant Systems adds another layer of comfort and ergonomics to the Quintex system with a soft-feel instrument interface that allows easy, confident plating placement and screw insertion:

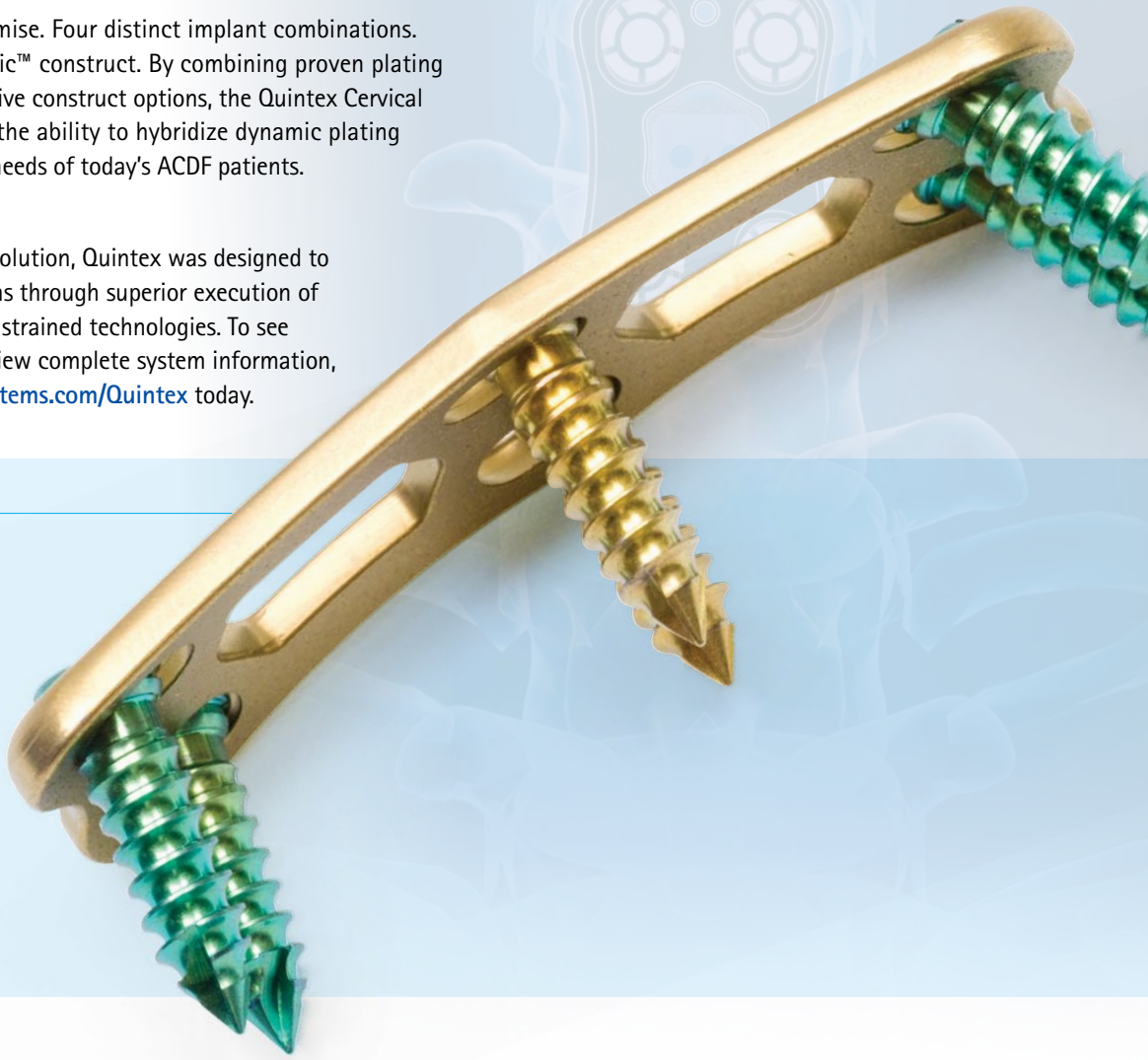
- Rubberized, ergonomic handle designs
- 2.5mm "torx"-style drive
- "Stab and grab" self-retaining driver
- Instruments optimized to maximize torque transmission and revision capability

*Pitzen TR, Chrobok J, Stulik J, Ruffing S, Drumm J, Sova L, Kucera R, Vyskocil T, Steudel WI. Implant Complications, Fusion, Loss of Lordosis, and Outcome After Anterior Cervical Plating With Dynamic or Rigid Plates: Two-year Results of a Multi-centric, Randomized, Controlled Study. Spine (Phila Pa 1976). 2009 Apr 1;34(7):641-6.

**Zhang QH, Tan SH, Chou SM: Investigation of fixation screw pull-out strength on human spine. J Biomech 37:479-485, 2004.

Design without compromise. Four distinct implant combinations. The all-new Semidynamic™ construct. By combining proven plating technology with innovative construct options, the Quintex Cervical Plating System delivers the ability to hybridize dynamic plating properties to the exact needs of today's ACDF patients.

A comprehensive ACDF solution, Quintex was designed to maximize surgical options through superior execution of constrained and semiconstrained technologies. To see Quintex in motion and view complete system information, visit aesculapimplantsystems.com/Quintex today.



Indications & Contraindications

Indications & Intended Use

The Quintex™ Cervical Plating System is intended for the treatment of cervical spinal instability resulting from:

- Degenerative disc disease (DDD) (defined as neck pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies)
- Spondylolisthesis
- Trauma (i.e. fracture or dislocation)
- Spinal Stenosis
- Deformity (i.e., scoliosis, kyphosis, and/or lordosis)
- Tumors
- Pseudoarthrosis as a result of failed spine surgery
- Failed previous fusions
- Symptomatic cervical spondylosis
- Instability following surgery for the above indications

Levels of anterior cervical intervertebral body screw fixation for this indication are from C2-T1.

Contraindications

Do not apply in the presence of:

- Fever
- Infection
  - Systemic
  - In the spine
  - Local
- Pregnancy
- Acute osteopenia
- Medical or surgical conditions that could negatively affect the success of the implantation
- Foreign body sensitivity to the implant materials
- Inadequate patient compliance
- Severe osteoporosis or similar loss of bone density
- Severe damage to bone structures that would prevent the stable implantation of system components
- Bone tumor in the region of implant fixation
- Anticipated excessive load on the joint implant
- Dependency on pharmaceutical drugs, drug abuse, or alcoholism
- Systemic or metabolic disease(s)
- Morbid obesity (adiposity)
- Generally poor condition of the patient
- Wound healing disorders
- Neuromuscular diseases or disorders
- Mental illness

Use only within the indicated levels of the spine and for applications outlined within Indications.

Aesculap Implant Systems, LLC | 3773 Corporate Parkway | Center Valley, PA | 18034
Phone 866-229-3002 | Fax 610-984-9096 | www.aesculapimplantsystems.com

Aesculap Implant Systems, LLC - a B. Braun company

DOC1110 2M 06/13