

AESCULAP®



CASPAR Revolution

Anterior Cervical Plating System

B | BRAUN



Semi-rigid interfaces

incorporated into the high technology designs of today ensure

airplanes

fly, bridges endure and skyscrapers stand tall in resisting even the most demanding and stressful environments.

Continuous

evolution

of materials and engineering principles have led to revolutionary inventions.

The

semi-rigid plate and screw interface

is the basic principle of the

CASPAR Cervical Plating System

which has been used world-wide since 1980.

Materials and design have been continuously improved in pursuit of the highest level of implant

reliability.

AESCULAP is pleased to introduce

CASPAR^{evolution}

Semi-rigid, dynamic plate and screw interface

The CASPARevolution System is unique with its semi-rigid plate and screw interface.

- It provides stability and
- adapts to changes in height due to graft resorption and micromotions.
- The implant construct allows the graft to share the load. This provides the optimal preconditions for bone healing and fusion by keeping the graft loaded and preventing motion.
- Therefore, it reduces the risk of screw breakage and
- minimizes possibility of inferior plate and screw pullout.



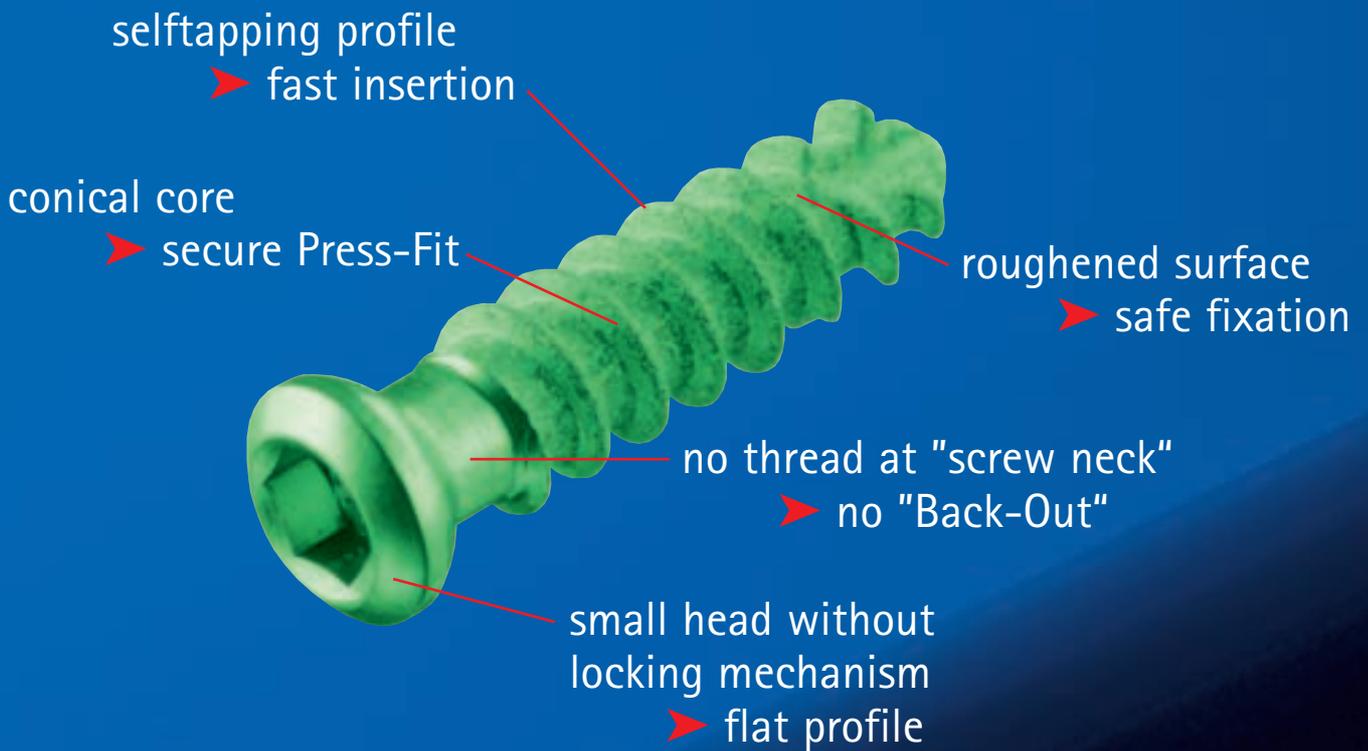
Green Light for the unicortical screw fixation!

The new additional unicortical screw generation combines all advantages of the semi-rigid plate and screw interface with the advantages of a unicortical surgical technique.

Independent biomechanical studies and first clinical results confirm that the special screw design without locking mechanism enables a stable anterior plating. Solid bony anchoring due to roughened surface, selftapping thread and conical core.

With this additional unicortical screw, the CASPAR^{Revolution} system offers:

- anchorage of choice,
- intra-operative freedom regarding the type of screw fixation: unicortical or bicortical – or both, dedicated by patients' needs and surgeons' judgement.



Clinical example:



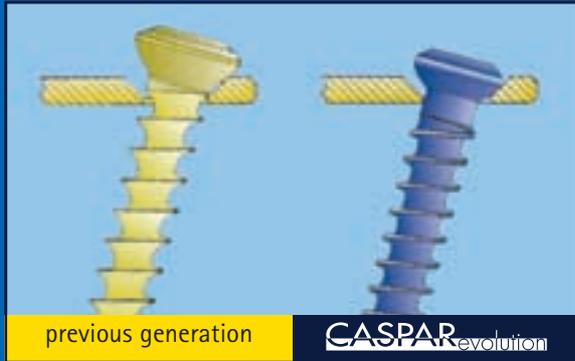
pre-operative

post-operative
(6 months)

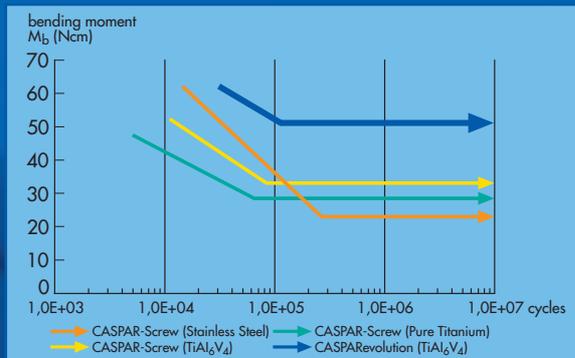
Anterior cervical autologous bone graft fusion and plating with monocortical screws C 5/6 in a 35 - yrs old female: ap and lateral
Note, that the screws are as long as possible but do not perforate the posterior cortical shell.



- ✓ resists screw backout
proximal screw design
without locking mechanism:
smooth screw shank at plate interface



- ✓ increased fatigue strength (+ 50%)
computer optimized thread profile
augmented core diameter

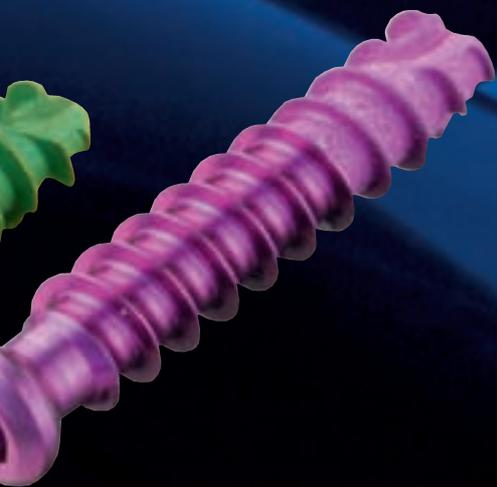
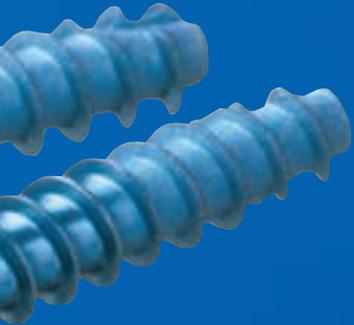


- ✓ very low profile
small screw head volume and
flat plate height avoids soft
tissue irritations





- anchorage of choice: unicortical or bicortical screw fixation – or both in combination
- secure unicortical screw fixation by self-tapping profile, roughened surface and conical core shape
- easy and safe bicortical screw insertion into posterior cortex due to roughened and blunt screw tip incorporating self-cutting distal feature
- oversized 4.5 mm screws ensures firm anchoring in osteoporotic bone or serves as a revision screw
- provides flexibility of screw placement with variable angle options ($\pm 35^\circ$ screw angulation)
- provides the ultimate in choice of implant sizes
- lordotic plate radius facilitates restoration of cervical lordosis; furthermore, individual plate contouring possible
- excellent biocompatibility and improved postoperative imaging options with Titanium material
- tried and trusted instrumentation for easy implant insertion such as temporary fixation pins to keep a plate in position for screw insertion
- excellent long-term results of the total CASPAR cervical system





Ordering Information:

PLATES

Plate material: ISOTAN_p
pure Titanium in accordance
with ISO 5832-2

Ref. No.	lengths
FG 420 T	20 mm
FG 422 T	22 mm
FG 424 T	24 mm
FG 426 T	26 mm
FG 428 T	28 mm
FG 430 T	30 mm
FG 432 T	32 mm
FG 434 T	34 mm
FG 436 T	36 mm
FG 442 T	42 mm
FG 444 T	44 mm
FG 446 T	46 mm
FG 448 T	48 mm
FG 450 T	50 mm
FG 452 T	52 mm
FG 454 T	54 mm
FG 457 T	57 mm
FG 460 T	60 mm
FG 463 T	63 mm
FG 466 T	66 mm
FG 469 T	69 mm
FG 472 T	72 mm
FG 475 T	75 mm
FG 478 T	78 mm
FG 481 T	81 mm
FG 484 T	84 mm
FG 487 T	87 mm
FG 490 T	90 mm

SPECIAL INSTRUMENTS:

Spikes for temporary plate fixation	FG 310 R
Spike-Impactor	FG 315 R
Plate holding forceps	FF 969 R
Plate contouring forceps	FF 956 R + FF 966 R

SCREWS

Screw material: ISOTAN_F
Forged Titanium alloy (Ti Al₆ V₄) in accordance with ISO 5832-3

4.0 mm unicortical

Ref. No.	lengths*
LB 554 T	14 mm
LB 555 T	15 mm
LB 556 T	16 mm
LB 557 T	17 mm
LB 558 T	18 mm
LB 559 T	19 mm

SPECIAL INSTRUMENTS:

2.2 mm drill	FG 414 R
Twin drill guide (13–19mm)	FG 415 R

Single drill guide (10–30mm)	FF 885 R
Screw driver	FF 954 R
Screw holding sheath	FF 964 R
Screw driver with ball tip	FF 957 R

3.5 mm bicortical

Ref. No.	lengths*
LB 450 T	10 mm
LB 452 T	12 mm
LB 454 T	14 mm
LB 456 T	16 mm
LB 457 T	17 mm
LB 458 T	18 mm
LB 459 T	19 mm
LB 460 T	20 mm
LB 461 T	21 mm
LB 462 T	22 mm
LB 463 T	23 mm
LB 464 T	24 mm
LB 465 T	25 mm
LB 466 T	26 mm
LB 467 T	27 mm
LB 468 T	28 mm

SPECIAL INSTRUMENTS:

2.0 mm drill	FG 412 R
Twin drill guide (10–30mm)	FF 886 R
Tap	FG 413 R

*please note:
the screw lengths given are the overall
length including the screw head (2.2mm)!
example:
a 16mm screw has a penetration depth
of 13.8mm

For further details regarding detailed instrumentation
and operative technique, please ask for the
AESCULAP brochure O 159 02.

AESCULAP®

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