Solis™ Cervical Cage
Product Overview

- Solis™ Cervical Cage
- Original design
- Precise instrument set
A system you can rely on from preoperative templating to postoperative follow-up

In developing this new system we had one sole purpose: provide you with an enhanced implant design with unmatched benefits and a reduced, fully functional ancillary supporting you in each and every surgical steps including the bonegraft harvesting.

To do so, we optimized each and every aspect of the conception process in close collaboration with an international panel of renowned cervical specialists.

The result is a system named after the sun to stress the self-stable character of the implant: The Solis System.
Optimal Cage Design

... A Unique Shape

An anatomical design with a unique shape combining plane wing shape on the upper surface and a flat lower surface of the cages as well as overall dimensions based on clinical studies* ensure full coverage of the anatomical variations as well as the restoration of the interbody height.

The Science of Better fit

- One part anatomy to make sure it will fit properly.
- One part stability to ensure nothing will compromise the graft fusion.
- One part contact area to provide optimal surface of bony ingrowth.

Finally, there is a recipe to successful design.

Immediate Stability

The combination of a “stand alone” mechanism composed of two titanium spikes and retentive teeth on the anterior and posterior aspect of the implant ensures the implants positioning in the intervertebral space.

Maximized Contact Area

The peek implant design provides maximum space for bonegraft and vascularization with optimal load bearing surface area. The mechanical properties of the Solis Cage provides state of the art load transfer properties.

The surface of bony ingrowth depends on the size of the Solis Cage and varies from 54% to 59%.

54% for the 12 mm depth
59% for the 14 mm depth

“Cervical Human Vertebrae Quantitative Three Dimensional Anatomy of the Middle and Lower Regions”
M. Panjabi, J. Duranteau, V. Goes, T. Oxland and K. Takata

Optimal Material: PEEK

...Poly - Ether - Ether - Ketone

Optimal Conditions for Fusion

PEEK modulus of elasticity is much closer to that of spongy bone than either stainless steel, titanium, or carbon PEEK. Consequently this is actually one of the best materials available to bone growth and fusion.

Safety: No Compromise

The Solis Cage had been tested in our laboratories under static and dynamic compressive bending load. Based on these results the Solis Cage appears to have more than sufficient mechanical properties and provides adequate stability to facilitate successful arthrodesis in the cervical spine.

So close to Spongy Bone...

Implants design and performance are directly related to the material you use. Stryker spine which was among the first company to master the use of PEEK, made it part of the Solis cage design rational as it was clear that its unique mechanical properties made it the most adequate material to optimize the cage design as well as outperform the existing solutions.

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Improve post-operative follow-up

Radiolucent with integrated X-ray markers (1 front / 1 rear) peek implant allows 3D visualization and radiological assessment of graft density.
Guessing will be your choice. We provide you templates and trials to simplify implant selection.

Just open the set, everything’s inside:

You can bring your instruments but the system will provide you with a distractor as well as a minimally invasive harvesting set composed of a trocar sleeve, a trocar with square awl, a trephine and a pusher.

Follow the guide

Each instrument guides you precisely at every step of surgical technique.

The technique and the instruments have been designed in close cooperation with a panel of surgeons and fully tested in the OR. Consequently implanting Solis Cage to contain your graft will not take you any longer than an unsecured traditional grafting procedure.

Optimal Surgical Technique

... Prepare then validate

Implant holder: 3 in 1

- hold
- position
- release

Prevents the cage mispositioning during the insertion thanks to:

- an etching (cranial) which indicates the right position
- ball on the tip of the instrument which corresponds to a lateral hole on the anterior side of the implant.

Bonegraft Compactor: one step impaction

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List of implants

... And instruments

### Solis™ Implants

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![Image of implants and instruments]