

Cervical Somatic Cages

| To send the order: Fax +39 02 45 79 02 66 | | |
|---|-----------|---|
| External module - short - h 11 mm | CSC-11T50 | 1 |
| External module - standard - h 14 mm | CSC-11T51 | 1 |
| External module - long - h 20 mm | CSC-11T52 | 1 |
| Internal module - short 0° - h 13 mm | CSC-21T50 | 2 |
| Internal module - short 5° - h 13 mm | CSC-21T51 | 2 |
| Internal module - standard 5° - h 16 mm | CSC-22T51 | 2 |
| Internal module - standard 10° - h 16 mm | CSC-22T52 | 2 |
| Internal module - long 5° - h 22 mm | CSC-23T51 | 2 |
| Internal module - long 10° - h 22 mm | CSC-23T52 | 2 |
| Module screw | CSC-51T50 | 3 |

| Instruments | |
|-------------------------|-----------|
| Complete instrument set | CSC-0001S |



INDICATIONS

If properly used, the Sinteaplustek CSC spinal stabilization system is indicated to develop a solid arthrodesis of the cervical spine. It is recommended in case of single or multiple vertebrectomy, following traumatic, degenerative or cancer diseases.

CONTRAINDICATIONS

The contraindications to the Sinteaplustek CSC spinal stabilization system are similar to those of like products on the market, and include, without limitations, the following:

ABSOLUTE CONTRAINDICATIONS:

- Active infections.
- Allergy to metal components.
- Non-compliant patients, unable to follow prescriptions.

RELATIVE CONTRAINDICATIONS:

- Metastasis.
- Severe muscle, nerve or vascular diseases.
- Fever or leukocytosis.
- Pregnancy, except for treatment of unstable vertebral fractures.
- Inflammatory signs in the implant site.
- Inadequate coverage of soft tissues at surgical site.
- Severe osteoporosis.

If the Sinteaplustek CSC spinal stabilization system is considered the best option for the patient and if the latter has one or more of the afore mentioned contraindications, it is absolutely necessary to inform the patient about any possible adverse effect involved that may influence surgery success.

Sinteaplustek S.r.l.

Commercial, administrative and registered office:

Via E. Fermi 44 – 20090 Assago (MI) – Italy
Ph. +39 02 45 79 02 31 – Fax +39 02 45 79 02 66
E-mail: info@sinteaplustek.com
VAT NO. 04874470968 - Fully paid up capital € 100.000,00
National Business Register: Milan (Italy) no. 1778805

Manufacturing Plant:

Via Aquileia 33/H – 20021 Baranzate (MI) – Italy
Ph. +39 02 45 79 02 31
Fax +39 02 45 79 02 66
E-mail: info@sinteaplustek.com

Sinteaplustek LLC

407 Lincoln Rd. Suite 10/L
33139 Miami Beach (FL) – USA
Ph. +1 305 67 36 226
Fax +1 305 67 33 312
E-mail: info@sinteaplustek.com

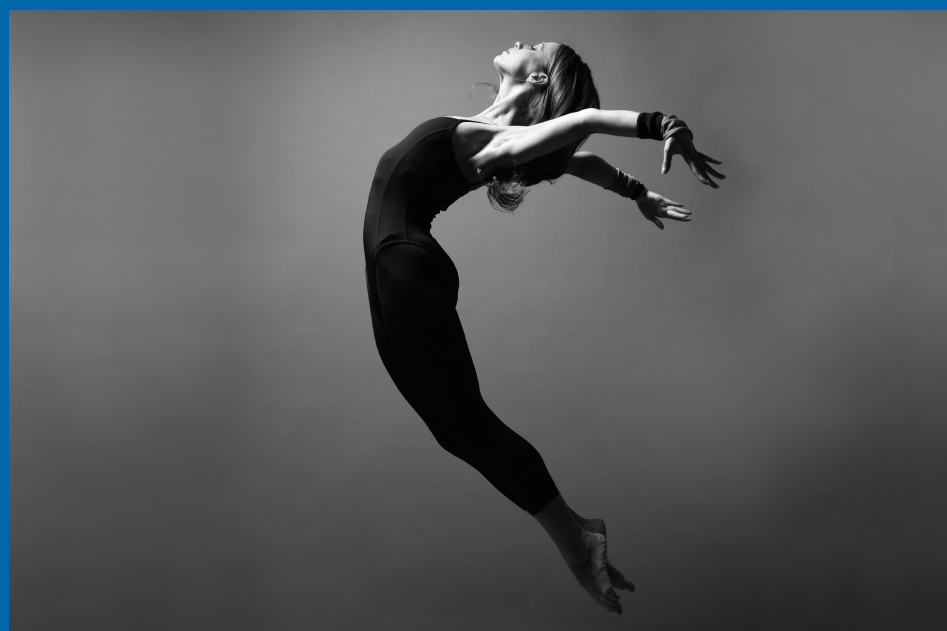


CSC
Cervical Somatic Cages



CSC

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COMPONENTS

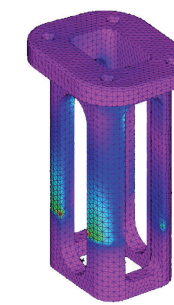
1. INTERNAL MODULE
2. EXTERNAL MODULE
3. LOCKING SCREW

The CERVICAL SOMATIC CAGE system is made of an internal module which slides in relation to an external module in which the former may be locked telescopically in the most appropriate position by means of a locking screw. Internal modules are available in three different ends inclinations, 0° - 5° - 10°, in order to optimize the contact with the vertebral bodies adjacent to the implant and therefore ensure excellent primary stability. Both the internal and external modules come in three different lengths.

The CSC is designed to be an innovative system with the addition of functional details when compared to like products existing on the market. For example, it allows to extend the implant in situ and to accurately adjust its height according to spacing requirements. It also allows cage conformity with cervical spine anatomy (by virtue of the different angled ends) as well as bone graft filling after expansion and stabilization in order to enhance the fusion process. To ensure ideal biomechanical features, all components are made of Ti6Al4V ELI Titanium alloy – ASTM F136.

All components are compliant with Directive EEC 93/42

TECHNOLOGY AND INNOVATION



DESIGN AND TESTING

The CSC system elements have been designed by means of standard methods of continuum mechanics structural analysis. The results have also been validated by method of Finished Elements. This validation was completed in order to determine the ideal size according to device requirements and user specifications. The device was also subject to static and stress tests which reproduced the most critical loading conditions.

INNOVATIVE ASPECTS

The possibility of ranges that can be attained when extending the cage allows this device to fit a wide variety of cases. The internal sliding module may be used completely in the external module, be fully extended, or it may be locked in any intermediate position. The size of all structural components is optimized to maximize the mechanical performance (function) and to minimize the implants overall dimensions. Both the external module and the internal module have their ends provided with pins, which further optimize the implant by ensuring long-lasting primary stability. After locking, the cage may be easily filled, through the fenestration, with bone graft in order to stabilize the implant and enhance the fusion process. The modules come in three sizes that are distinguished by a minimum and maximum height that the telescopic system is capable to provide with the same cross section.

BIOMECHANICAL FEATURES

SMALL OVERALL DIMENSIONS

HIGH TELESCOPIC EXCURSION CAPABILITY

WIDE FENESTRATION FOR EASY INSERTION OF BONE GRAFT

5° AND 10° LORDOSIS

ANCHORING PIN AT PLATE ENDS