# IFC

Intervertebral Fusion Cages

## Implants

| | | |
|---|---|---|
| Expandable cage-5° lordotic height 9mm – length 20.5mm | IFC-10T50A | 1 |
| Expandable cage-5° lordotic height 11mm – length 25mm | IFC-11T50A | 1 |
| Expandable cage-5° lordotic height 13mm – length 25mm | IFC-11T51A | 1 |
| Cap - height 9mm | IFC-20T50 | 2 |
| Cap - height 11/13mm | IFC-21T50 | 2 |

## Instruments

| | |
|---|---|
| Complete instrument set | IFC-0000S |


**INDICATIONS**

Appropriately used, Sintea Plustek IFC intervertebral fusion cages are indicated to promote the development of a solid intervertebral fusion of the lumbo-sacral segment of the spine. It is recommended in case of degenerative discopathy, pseudoarthrosis and spondylolysthesis.

**CONTRAINDICATIONS**

The contraindications to the implant of Sintea Plustek IFC intervertebral fusion cages are analogous to those of similar products currently available on the market and include but are not limited to the following:

ABSOLUTE:
- Active infections
- Allergy to the metal components
- Patients who are either unwilling or unable to follow prescriptions

RELATIVE:
- Metastasis
- Severe muscular, neurological or vascular diseases
- Fever or leukocytosis
- Pregnancy, with the exception of unstable vertebral fractures
- Signs of phlogosis of the implant area
- Inadequate coverage of soft tissue at the implant site
- Severe osteoporosis

If Sintea Plustek IFC intervertebral fusion cages are considered the best solution for the patient and if the latter presents one or more of the above contraindications, it is absolutely necessary to inform him/her about any possible adverse effect that may influence the success of the procedure.

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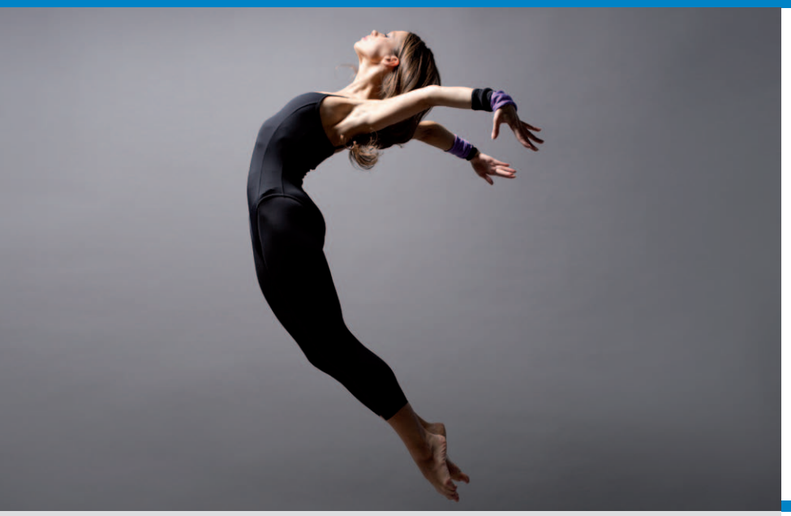
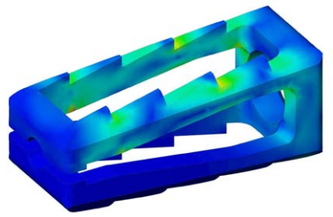
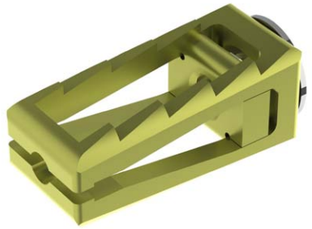


Sintea Plustek IFC expandable system allows a solution to a number of drawbacks associated with the other interbody fusion systems currently on the market. The cages have a rectangular section, hence they are much more similar to the real anatomy of intervertebral discs in comparison to circular section cages. The surfaces adjacent to the vertebral bodies are plane, so that contact is more extended, safer and further improved by the hooking notches on the entire surface which prevent the device migration from the interbody space. Fenestrations dimensions are maximized to enhance and speed up the fusion process. Moreover, Sintea Plustek implants are expandable: this results in a considerably improved primary stability of the final implant as well as the possibility, when necessary, to restore the spine physiologic curvature thanks to the lordotic shape of the implant.

**All components are compliant with Directive 93/42/EEC.**

## TECHNOLOGY AND INNOVATION



## COMPONENTS

1. INTERVERTEBRAL CAGE
2. POSTERIOR LOCKING CAP

## DESIGN AND ENGINEERING

The elements of the IFC system were designed using the standard methods of continuum mechanics stress analysis.
The results were validated both according to the Finite Elements Method, in order to establish optimal dimensioning in relation to the device requirements and user specification, as well as by static and fatigue experimental tests, so as to reproduce the most critical loading conditions.

## INNOVATIVE ASPECTS

The fenestration in correspondence with the vertebral bodies adjacent to the cage is 35% wider than competing systems in order to enhance the fusion process. To avoid the risk of implant migration, the notches on the implant surfaces in contact with the vertebral bodies extend over its entire length. Such effect is further improved by the special hook shape of the notches.
The pad which allows implant expansion can slide along the cage repeatedly without causing any damage or malfunction to the system. In order to ensure ideal biomechanical features and to facilitate the use of diagnostic imaging equipment, all components are made of titanium alloy.

## MAIN FEATURES

EXPANDABLE CAGE

WIDE FUSION SURFACE

RESTORATION OF PHYSIOLOGICAL ANATOMY (LORDOTIC ANGLE 5°)

IMPLANT CHARACTERIZED BY GOOD ELASTICITY

ANTI-MIGRATION SURFACE NOTCHES

EASY IMPLANT POSITIONING

sintea PLUSTEK