# ostaPek® Carbon Composite

# Gemitra™ Transforaminal Lumbar Interbody Fusion

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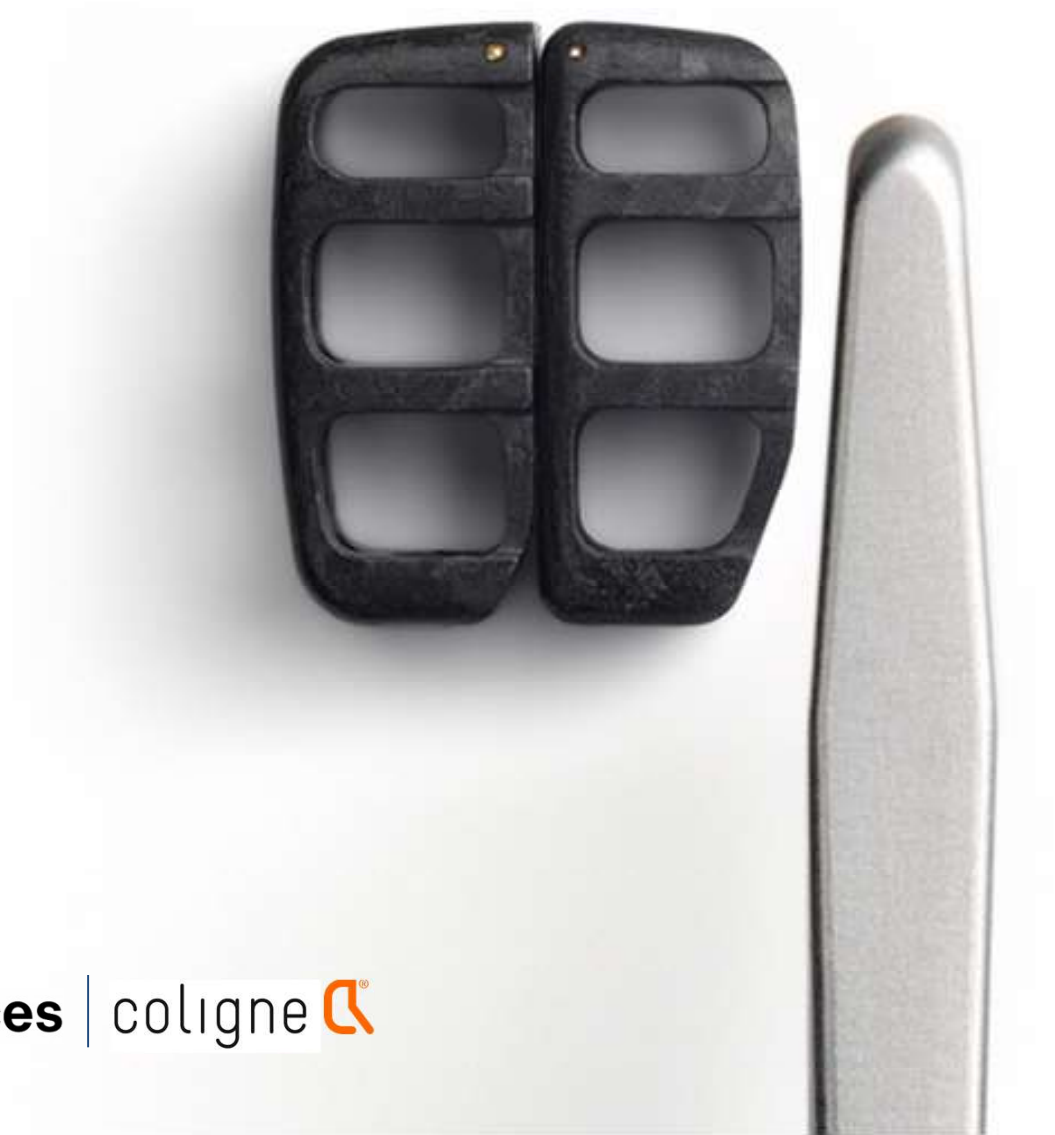

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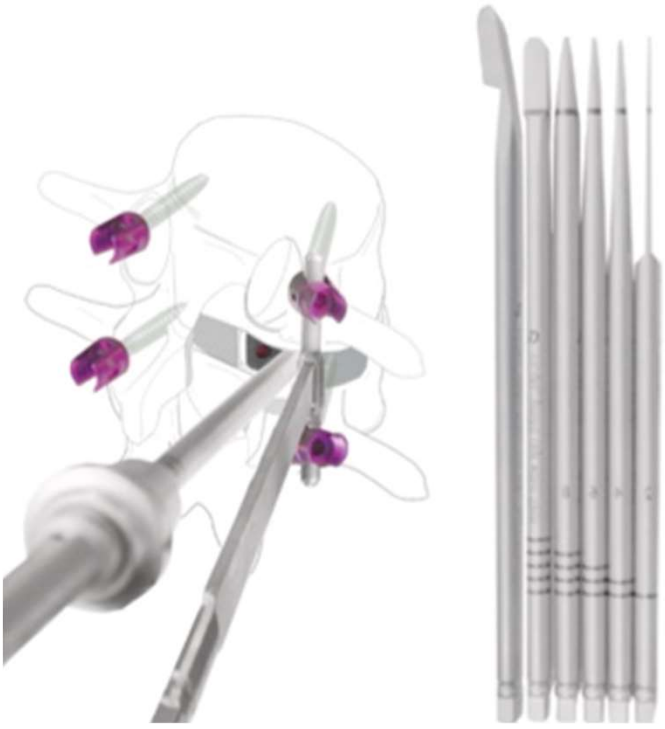
# ostaPek® high performance carbon composite.

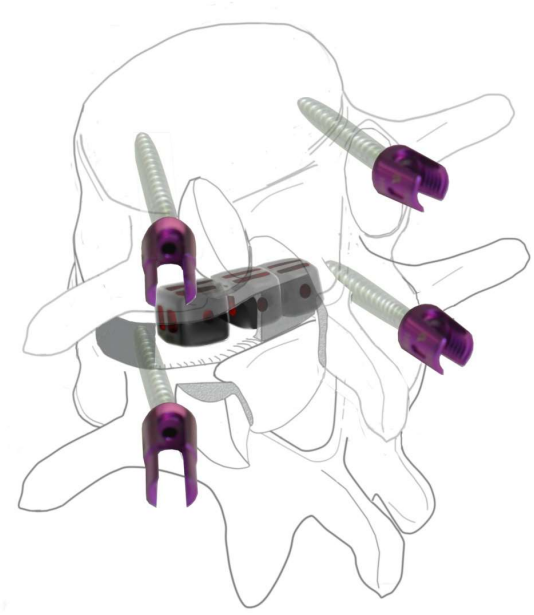
## 67% long carbon fibers embedded in a 33% PEKEEK polymer matrix.

Technically described as a “long carbon fiber reinforced polymer (LCFRP)”, ostaPek® carbon composite was developed specifically for spinal fusions and is manufactured entirely by Coligne. By controlling fiber orientation, ostaPek® carbon composite implants are tailored to meet the physiological needs of the vertebral endplates, the adjacent vertebral bodies and to provide the necessary conditions for spinal fusion. This takes implant design and performance beyond the limits of traditional monolithic materials such as metals or pure plastic.

Used in clinical applications since 1994, ostaPek® has shown intrinsic osteophilic properties; no coating required. It is radiolucent. Bone and surrounding tissue can be observed within and next to the implant, useful for clinical follow up.



Gemitra™ cages are designed to be translated on the transverse plane to provide an evenly distributed support at the endplates, from a unilateral approach.



Two or more cages may be used to maximize the surface area in contact with the endplates and prevent subsidence.

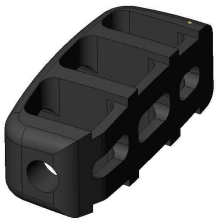
# Gemitra™ transforaminal lumbar interbody fusion in ostaPek®

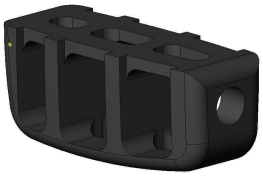
## A step by step technique for optimal stabilization.

The Gemitra™ TLIF open four-strut architecture is available in several sizes to provide ease of use and mechanical integrity. After a progressive distraction of the intervertebral space in 1mm steps, the Gemitra™ TLIF cages filled with the medium of choice are inserted and translated in the desired position of the endplates.

## Properties.

- Gemitra™ TLIF clinical experience of 20 years
- ostaPek® carbon composite is intrinsically osteophilic, no coatings required
- Thin wall cage design enables unparalleled graft to cage volume ratio
- Open four-strut cage design matches vertebral endplates and lowers the risk of subsidence
- Large lateral and transverse bone ports to optimize fusion
- ostaPek® mechanical properties tailored to ensure primary stability and bone remodeling.
- Gold-markers confirm implant position
- Radiolucent for diagnostic quality follow up with CT, MRI and plane x-ray

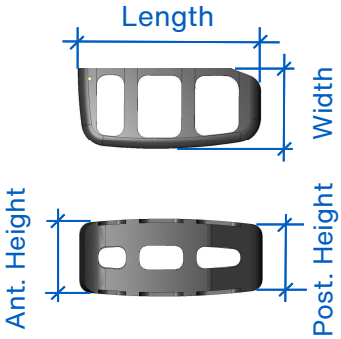




## Dimensions

| Reference* | Length (mm) | Width (mm) | Post. height (mm) | Ant. height (mm) | Lordosis (°) |
|---|---|---|---|---|---|
| 29.083 | 11 | 23 | 7.6 | 8 | 1° (contra) |
| 29.084 | 11 | 23 | 7.6 | 8 | 1° (ipsi) |
| 29.091 | 10 | 23 | 8.6 | 9 | 1° (contra) |
| 29.092 | 10 | 23 | 8.6 | 9 | 1° (ipsi) |
| 29.113 | 11 | 23 | 8.6 | 9 | 1° (contra) |
| 29.114 | 11 | 23 | 8.6 | 9 | 1° (ipsi) |
| 29.103 | 11 | 23 | 9.6 | 10 | 1° (contra) |
| 29.104 | 11 | 23 | 9.6 | 10 | 1° (ipsi) |
| 29.111 | 10 | 23 | 10.6 | 11 | 1° (contra) |
| 29.112 | 10 | 23 | 10.6 | 11 | 1° (ipsi) |
| 29.117 | 11 | 23 | 10.6 | 11 | 1° (contra) |
| 29.118 | 11 | 23 | 10.6 | 11 | 1° (ipsi) |
| 29.123 | 11 | 23 | 11.6 | 12 | 1° (contra) |
| 29.124 | 11 | 23 | 11.6 | 12 | 1° (ipsi) |

*Additional sizes available upon request.



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SpineNuances, 93 Albury Way, North Brunswick, NJ 08902, USA
Tel +41 78 668 95 72, info@spinenuances.com, www.spinenuances.com

Coligne AG, Utoquai 43, CH-8008 Zurich, Switzerland
Tel +41 43 343 80 00, Fax +41 43 343 80 09, info@coligne.com, www.coligne.com


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