# ostaPek® Carbon Composite

# ostaPek® Vertebral Body Replacement

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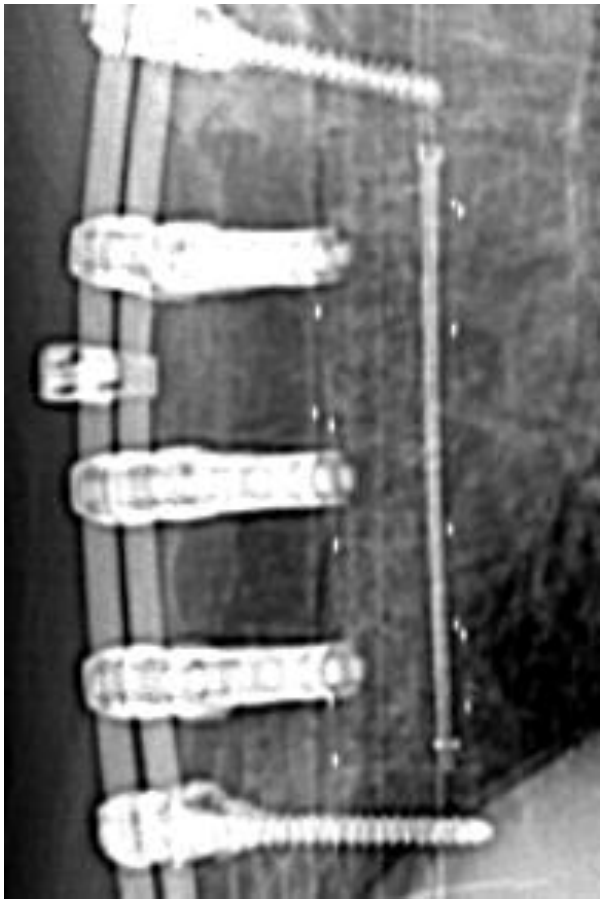
# ostaPek® high performance carbon composite.

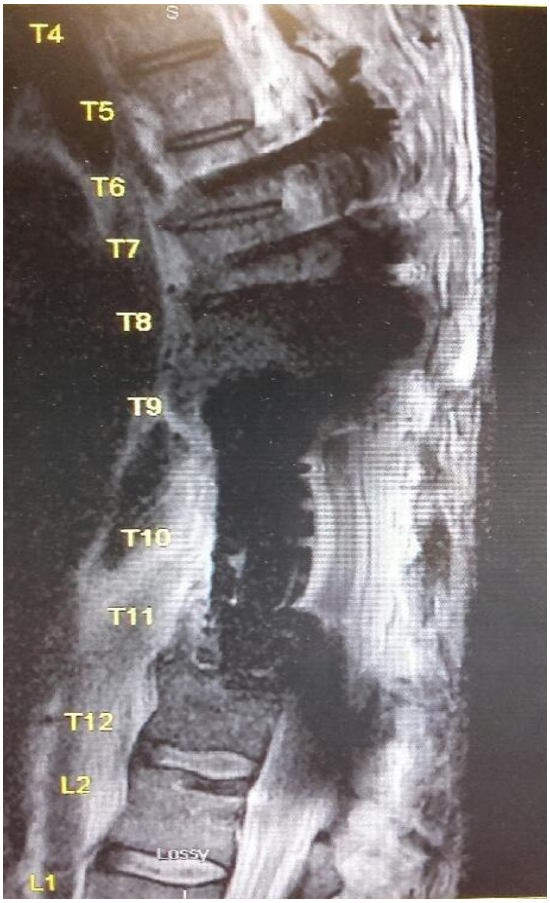
## 67% long carbon fibers embedded in a 33% PEKEEK polymer matrix.

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 both for clinical follow up and radiation therapy.



Vertical fusion at 40 months as shown on x-ray.




Radiolucent without artifact.

# VBR vertebral body replacement in ostaPek®.

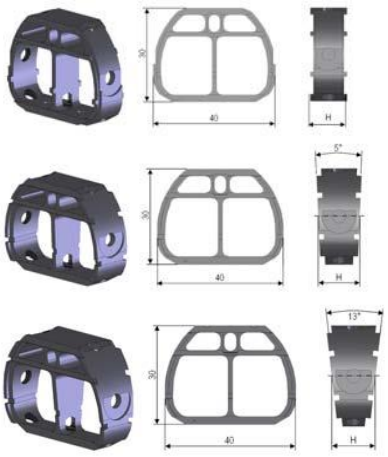
## Stack to adapt height and lordosis.

The ostaPek® VBR system offers stackable cages with an open three-strut architecture in various sizes and lordosis angles to provide ease of use and match the endplate curvature. It also includes artificial pedicles to connect to the GII pedicle fixation system. Just stack as many cages as necessary, alternating between disc and body components and obtain the desired height and lordosis angle. Then assemble the construct and place the ostaPek® VBR assembly filled with the medium of choice.

## Properties.

- VBR clinical experience of 15 years
- ostaPek® carbon composite is intrinsically osteophilic, no coatings required
- Thin wall cage design enables unparalleled graft to cage volume ratio
- Open three-strut cage design matches vertebral endplates and lowers the risk of subsidence
- Large transverse bone ports to optimize fusion
- ostaPek® mechanical properties tailored to ensure primary stability and promote remodeling
- Adaptable, wide range of lordosis and kyphosis angles possible
- Complete reconstruction of the spinal column via artificial pedicle that connects cage assembly construct to posterior fixation
- Multiple slots for the cage inserter permit anterior, posterior or lateral surgical approach.
- Gold-markers confirm implant position
- Radiolucent for high quality diagnostic follow up with CT, MRI and plane x-ray
- Potential to reduce radiation dose perturbation for patients that need radiotherapy

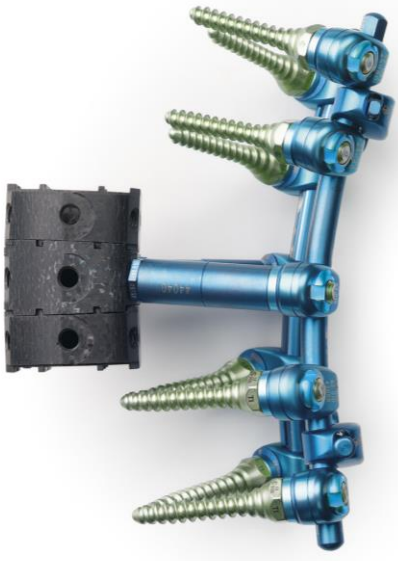
## Dimensions



Lumbar or thoracic disc cage
No Lordosis angle
Sizes available - S / M / L / XL

Lumbar or thoracic body cage
Lordosis angle 5°
Sizes available - S / M / L

Lumbar or thoracic body cage
Lordosis angle 13°
Sizes available - S / M / L



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VBR Product Information 20210608