



Coligne products



Coligne. Equipping the surgeon to perform.



Leadership begins before the patient enters the surgical theater, among the spine care professionals forming the coAlliance. This may be a small yet vital observation, a critical instrument change, a new surgical method, or the decade-long quest for biomaterials that improve implant performance. From such leadership emerge Coligne spine treatment technologies, each with its impact upon our field. Providing spine treatment technologies to the world is Coligne's business. Equipping spine surgeons to improve their art is Coligne's passion. A way of life.

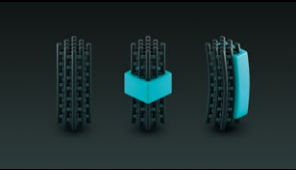
ostaPek®

Composite surgery for increased biologic potential.

ostaPek carbon composite fiber control. A spinal implant must not only bear load, but manage forces to keep bone viable. Whether it is cages or pedicle fixation, spine fusion systems must correct, stabilize and then stimulate bone. Tissue must be observed adjacent to the implant. ostaPek is a high density long carbon fiber reinforced polymer composite (LCFRP). It is engineered in controlled orientation that is inspired by bone's trabecula.

22 years of clinical experience, 125 000 implants made, 50 000 patients treated.

1994 ostaPek biomaterial developed for spinal surgery. 	1995 ostaPek lumbar interbody cage product line developed. 	1995 coAlliance composite surgery workshops & developers sessions. 	1996 First ACIF surgeries. 	2001 Composite fibers trabeculae orientation. 	2005 FDA clears ostaPek lumbar plate for USA. 	2006 First ostaPek posterior thoracolumbar rod implanted. 	2008 FDA clears ostaPek VBR product line. 	2009 flexStaas instruments and ostaPek progressive stiffness rods developed. 	2015 Coligne DesignLab founded. 	2016 Introduction of the all new flexStaas 3. 	2016 Marks 22 years of successful spinal surgery with ostaPek implants. 22 years
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Carbon fiber matrix for strength and flexibility.

flexStaas 3[®]

New surgical technique. ostaPek[®]
carbon composite performance.



Connection.



Control.



Performance.

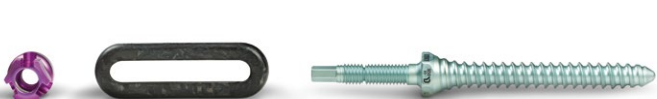
100,000 carbon fibers in every ostaPek rod are meticulously controlled to provide enough strength and rigidity for sagittal balance and fusion, but with a greater elastic zone. This is to ensure vital osteogenic strains through the construct, the engine for bone formation and renewal. A process that is life long. Clinical evidence at 6 months: "Preliminary radiological results show a higher fusion rate in the carbon composite group and reduction/delay of radiological adjacent degenerative changes."*

*T. Hartwig et al, Titanium versus carbon composite rods for single-level transforaminal lumbar interbody fusion: preliminary results of a prospective randomized analysis of spinal fusion compared to clinical outcome parameters. Eur Spine J 22(P65):2582-2669, 2013

eVos® pedicle fixation

Composite and titanium performance.

Three eVos biomechanical properties and connection choices compose one coherent spine fixation system: Titanium plate, titanium rod, ostaPek plate. Using both titanium and ostaPek composite technology, the eVos surgeon controls the patient's strength and stiffness requirements for simple and complex constructs. Fast. Adaptable. High performance.



erriva™ ELIF

Less trauma and less time. Complete access.

erriva is a new simplified surgical approach, instrumentation and implant technology that leaves more structures intact with full access surgery that is also minimally invasive. Time is saved. Trauma minimized. Full fusion surgery without compromise. Contact your Coligne representative for a spine surgeons workshop proposing erriva ELIF surgery.



gemitra™ TLIF next generation

More bone. More surgeon control.

Using strength gains in ostaPek composite, gemitra cages deliver more contralateral reduction and bone graft from a unilateral and strictly sagittal approach. gemitra cage walker instrumentation translates Contra and Ipsi cages with controlled sagittal percussion. Improved reduction and stabilization. Less blood loss and time. More bone and biologic potential.



trabis™ cervical corpectomy

Engineered for bone and biologic potential.

Using destabilizing decompression as an autologous graft source, the trabis cervical corpectomy cage optimizes decompression, stabilization and fusion in one effective gesture. ostaPek composite fibers are aligned in upward anchoring struts that resist 4500N in load and rotate up to 45 degrees before failure. Anterior plating is an option.



VBR

State of the art tumor surgery and treatment.

ostaPek LCFRP fibers are aligned to the vertebral body trabecula, providing more graft surface area. Cross struts prevent subsidence and help ensure a patient's best chance to build a lasting viable bone. Modular construction follows spine architecture of the spine. The ostaPek VBR connects to eVos and flexStaas pedicle fixation.



ACIF

Simplicity and large biologic potential.

ostaPek LCFRP composite struts achieve 4 times the static strength over simple PEEK in the same configuration. This maintains stability yet extends bone graft from 30 to over 50% of cage surface, while optimizing endplate support. Ela and Oscar ACIF are proposed in several versions and simplified instruments accommodate different surgical techniques.



classic ALIF and PLIF

Increased biologic potential.

ostaPek LCFRP composite frees cage design from pointed teeth or pins that can bore into endplates, accelerate subsidence and compromise the biological space for graft. Smooth composite struts engage into a vertebral body's subchondral surface, providing maximum support area, yet with a larger expanse of bone. A gold standard in cage design since 1994, with thousands of cases each year.



wilhelm tell™ ALIF

Anterior surgery. 360 degree stabilization.

Using wilhelm tell technology, the spine surgeon restores balance, stabilizes against shear, all from one anterior approach and without the requirement of anterior plating. ostaPek composite anchor struts provided support, ensure large bone graft ports and accommodate a high angle screw to create maximum stabilization. An established treatment for some types of spondylolisthesis, the wilhelm tell leaves posterior muscles untouched.



Coligne instruments
Composite surgery designed.



Through a Coligne instrument, surgery passes from the surgeon to the patient. Each must be built for the philosophy of treatment, the specific gesture and for the many hands that rise from different surgical traditions. Instrument design at Coligne is a process of continuous renewal, a constant quest for better methods, more effective procedures, and simpler ways.

coAlliance

Participation and exchange. Competence without hierarchy.

Assembled from varied fields and cultures, composed of different generations, the coAlliance celebrates diversity and shares challenge. Medical and corporate coAlliance members regularly meet to discuss, debate, explore and teach each other what has been learned, what might be achieved, in ways perhaps not imagined. There is participation and respect, a feeling of growth and a reaching beyond today's knowledge in order to make things possible for others. coAlliance spine surgeons' workshops, live surgeries, developer sessions, as well as guest host surgeries ensure that experiences are expressed, explored and treatment strategies are improved. Coligne know-how and surgical technology are continuously renewed.





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All Coligne treatment technology is for use only by a qualified and trained spinal surgeon. Coligne product availability is subject to regional health care regulation in a specific country. Not all products are available in specific countries. Some products or product usages are not yet cleared by the US-FDA. Contact your Coligne representative for details. Consult product insert for product warnings and details.

ostaPek, flexStaas, eVos, erriva, gemitra and trabis technology are subject to patents or patents pending in Europe, US and Asia.

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