



SPINE

RESTORATION TECHNOLOGY



ABOUT US

Since 2005

Osimplant has been founded in Ankara in 2005 for providing best spinal implants and services for healthcare professionals.

Compliance

Osimplant quality system has been built to fulfill compliance for secure use of our implants; ISO 9001, ISO 13485 and 93/42/EEC

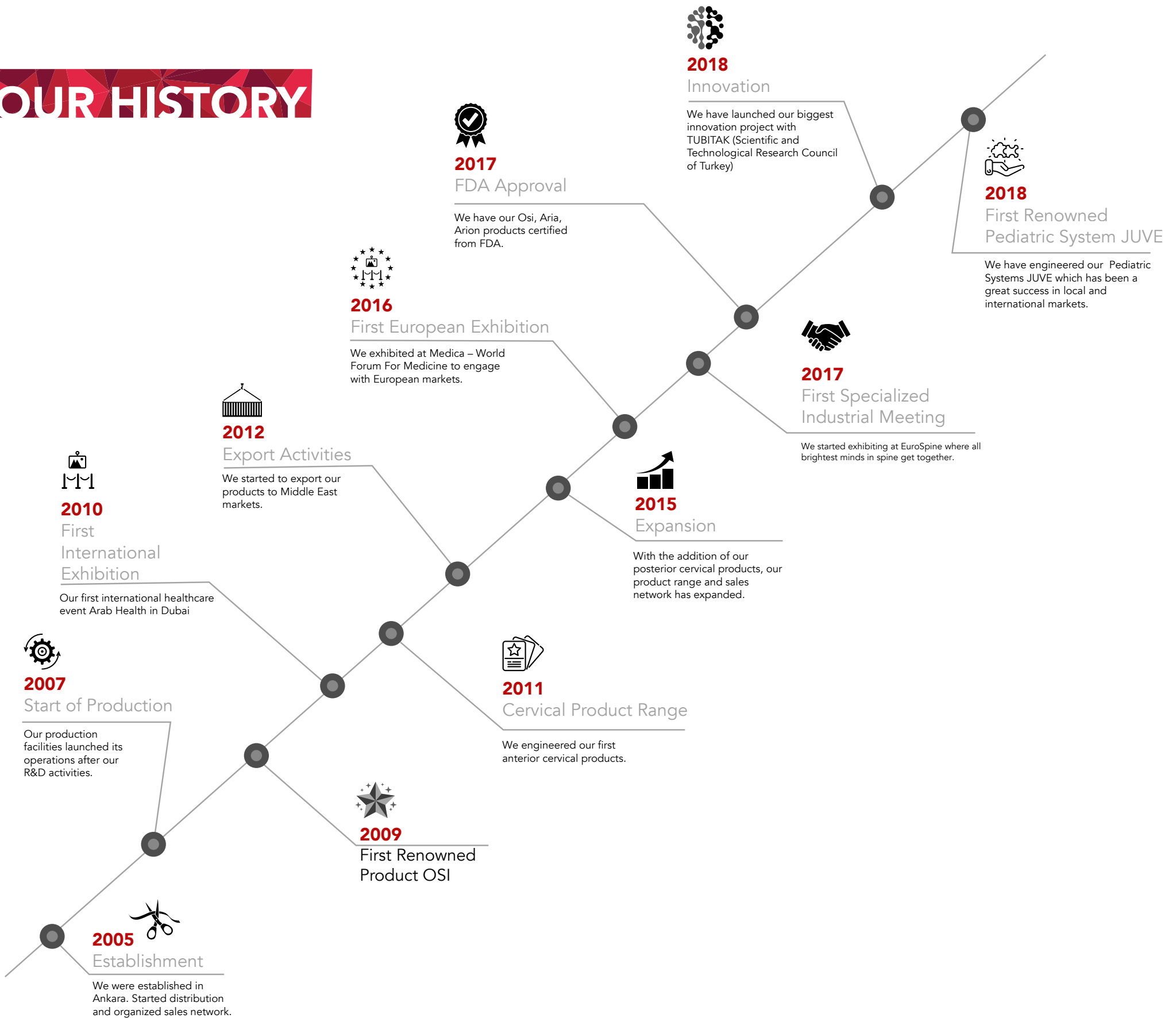
Continious Improvement

Providing high quality spine surgery implants and services with regard to the needs of the domestic and global markets have been a priority and a passion for Osimplant. Today, Osimplant develops, manufactures, exports, imports, markets, distributes, and sells a diverse portfolio of medical devices, supplies, and accessories.

Customer-centric Approach

Creating a positive experience for our audience through all customer journey is our promise to the market. All Osimplant procedures have been designed for continuously improving service and product quality, expanding product diversity. Providing new products to the market by focusing on quality, innovation and simplicity is our primary mission.

OUR HISTORY



VALUES



Our mission is to challenge ourselves and competitors for a healthy community. In order to sustain our goals, our mission is constructed on 5 pillars.

Compliance and Accountability

Delivering safe and effective products to ensure full compliance and accepting personal responsibility for our actions and focusing on finding solutions and delivering results. We keep our promises and commitments.

Our quality system has been built to fulfill compliance for secure use of our implants; ISO9001, ISO13485 and 93/42/EEC.

Continuous Improvement

Providing high-quality spine surgery implants and services with regard to the needs of the domestic and global markets is a priority and passion for us. Today, at Osimplant, we develop, manufacture, export, import, market, distribute and sell a diverse portfolio of medical devices, supplies and accessories.

Human Centric Approach

Restoring and enduring mobility of people is in our DNA and whatever we do to achieve the highest standards of service. We are willing to adopt innovative technologies for reducing costs and increasing availability to keep our organization human-centric.

Innovation

Due to our continuous development approach, finding and implementing new, better and more effective ways of solving problems and contributing to healthier communities with respect to clinical performance, risk assessment and regulations drives our innovative approach. We continuously innovate for identifying opportunities to advance our products and services in an ethical, timely and effective manner.

Simplicity

Less is more! We raise the bar for minimally invasive procedurally integrated spine solutions to deliver clinically proven surgical outcomes.

R&D

TECHNOLOGY

Research and Development activities are vital for advanced implant manufacturing techniques. Due to the fact that spinal implant quality is directly correlated with quality of life, we put our utmost efforts for developing the latest manufacturing technologies. From design to functionality and usability, risk-based security analyses are conducted to ensure final products are risk-free. Throughout the lifecycle of the products, test and retests are repeated to cover any vulnerability.

Spinal implants for better fusion capabilities

AM (Additive Manufacturing) techniques and solutions bring a new era for orthopedic applications. By manufacturing patient-specific biocompatible implants and disposable surgical instruments via industrial 3D printers; the outcomes are 100% customized, cost-effective, fast-delivery and high-quality products allowing surgeons to excel with best results.

Moreover, as in our Terracotta trabecular implant series, they enable bone formation, soft tissue repair and better osteoconductivity rates.

Minimally invasive surgeries are becoming more popular these days. Due to the fact that the surgery is being made through small holes, reduced rates of complications are achieved. Infections, blood loss, incisional hernias and post-operative pain are reduced with MIS allowing patients shorter hospital stay and faster recovery times.



For all ages group



Shorter hospital stay



Optimize patient treatment



Fewer complications



Faster recovery



Smaller scars

CASE STUDY

Background

Congenital scoliosis is the most frequent congenital deformity of the spine. Congenital scoliosis is a sideways curvature of the spine that is caused by a defect that was present at birth. The spine may also be rotated or twisted, pulling the ribs along with it to form a multidimensional curve. Children with congenital scoliosis sometimes have other health issues too, such as stomach, kidney, heart, nerve or bladder problems.

History

The patient is a 2-year-old female with complaints of scoliosis and back pain. She has Congenital Scoliosis diagnosis. The patient was advised to undergo surgery due to the long-term negative impact of signs and symptoms of scoliosis upon her health.

Pre-Treatment Image



Treatment

The patient underwent a posterior spinal fusion with scoliosis correction. The patient underwent corrective surgery on her back with placement of screws, rods, and connectors of JUVE Pediatric Spinal System Set. After a skin incision and visualization and incision of the paravertebral muscles were dissected. A total of 4 screws were placed in T4-T5 and L3-L4. Then rods and connectors were implanted. The procedure was completed by controlling with scopy.

Surgery by Dr. Adnan Yalçın DEMİRCİ

Post-Operative Images



Conclusion

The patient reported feeling more confident after surgery. In this case, success was achieved by placing screws. The Cobb Angle was reduced.

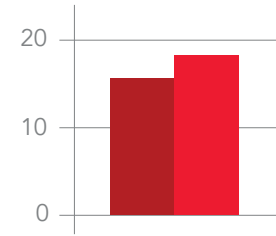
For more information please scan;



SCIENTIFIC

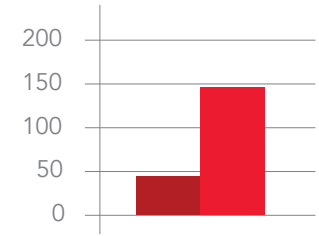
Torsion Test

This test method is used to measure the torsional yield strength, maximum torque, and breaking angle of the bone screw under standard conditions. The results obtained in this test method are not intended to predict the torque encountered while inserting or removing a bone screw in human or animal bone. This test method is intended only to measure the uniformity of the product tested or to compare the mechanical properties of different, yet similarly sized, products. Tests were carried out in laboratory conditions. (50% Humidity and 25°C, no fluid applied.) patient was advised to undergo surgery due to the long-term negative impact of signs and symptoms of scoliosis upon her health.



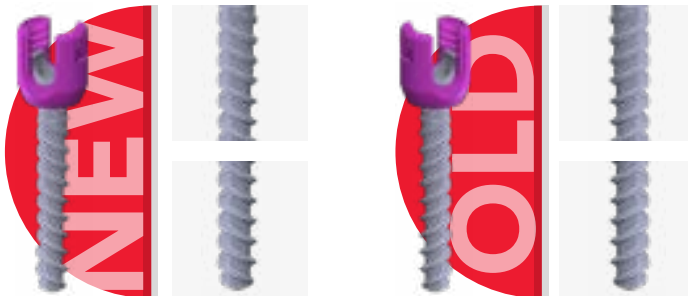
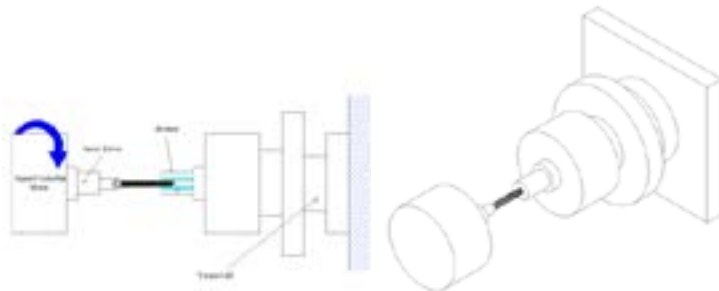
Mean Torque (Nm)

Old Thread Type
New Thread Type



Mean Breaking Angle (Degrees)

Old Thread Type
New Thread Type

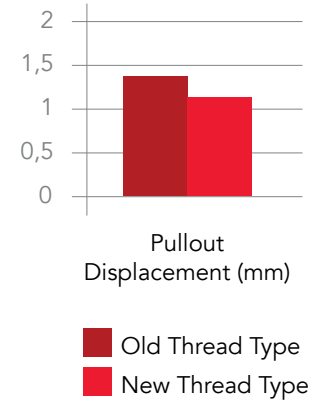
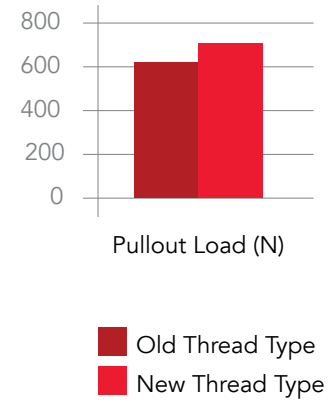
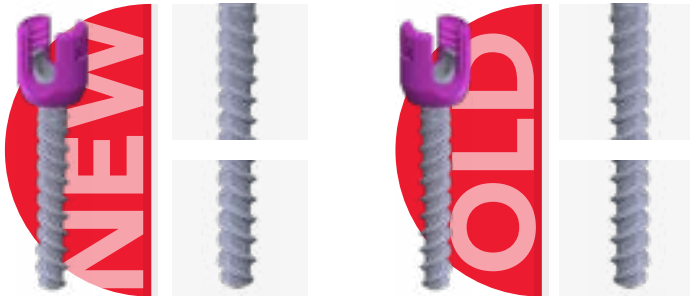
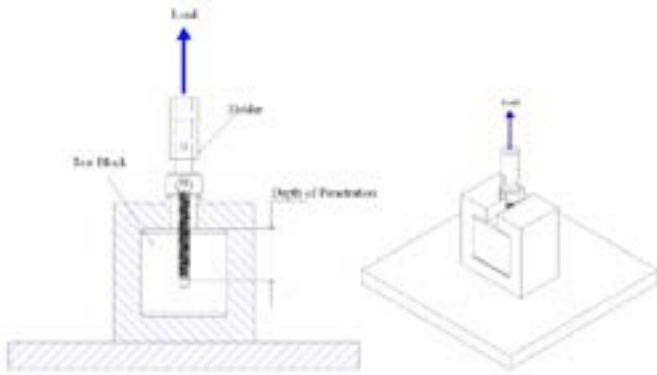


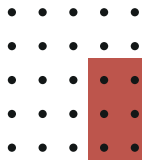
Tests were conducted in accordance with ASTM F543 at Clinical Biomechanics Laboratory of TOBB University of Economics and Technology by Dr. Teyfik Demir
* ASTM F543-17 Standard Test Method for Metallic Medical Bone Screw.

SCIENTIFIC

Pullout Test

This test method is used to measure the axial tensile force required to fail or remove a bone screw from a defined material. The results obtained in this test method are not intended to predict the force required to remove the subject bone screw from human or animal bone. This test method is intended only to measure the uniformity of the products tested or to compare the strength of different products. Tests were carried out in laboratory conditions. (50% Humidity and 25°C, no fluid applied.)



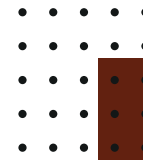


ATHENA

Modular Minimally
Invasive Implant



- ✓ Comprehensive modular spinal system with smart design
- ✓ Modular systems allow the surgeon to select the various modular screw head options
- ✓ Can be used in both open and percutaneous surgery
- ✓ Different designs rods for MIS and open approach
- ✓ Wide variety of implant options meets the requirements of varying patient anatomies



TERRACOTTA

TLIF / PLIF
Cage



- ✓ Porous nature of Terracotta Interbody Fusion Cages mimic cancellous bone
- ✓ Terracotta Cages are built layer by layer, using a high-powered laser to melt titanium alloy powder.
- ✓ Direct metal laser sintered Ti-6Al-4V surfaces enhances osteoblast response and osseointegration
- ✓ Highly porous titanium alloy material designed for bone in-growth and biological fixation and great mechanical performance
- ✓ Real osseointegration improves long term stability
- ✓ Suitable elastic modulus avoids stress shielding

NOVELTIES

CERTIFICATES QUALITY

We are adapting to constantly changing health and quality regulations for better service to our customers. Our professional quality design, manufacturing and sales departments are aligned with 93/42/EEC Directive.



ISO
9001:2015



ISO
13485:2016



CE



FDA
For 3 products;
OSI - ARIA - ARION



ANVISA



SALES NETWORK

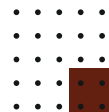
- USA
- Germany
- Spain
- Ireland
- Moldova
- Belgium
- Romania
- Algeria
- Tunisia
- Nigeria
- Greece
- Iran
- Egypt
- Indonesia
- Malaysia
- Jordan
- Australia

**SPINAL IMPLANT SOLUTIONS
FOR ALL AGE GROUPS**





PRODUCT LIST



TERRACOTTA

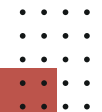
*Trebacular Intervertebral
Fusion Cages*



PLIF/TLIF Cages

Empowering bone ingrowth & great mechanical performance

- Highly porous titanium alloy material designed for bone in-growth and biological fixation and great mechanical performance
- Real osseointegration improves long term stability
- Suitable elastic modulus avoids stress shielding
- Porous nature of Terracotta Interbody Fusion Cages mimics cancellous bone
- 3D Structure
- Good biocompatibility and fusion
- Simple and easy usage



ATHENA

*Modular Minimally
Invasive Systems*



Modular Flexibility

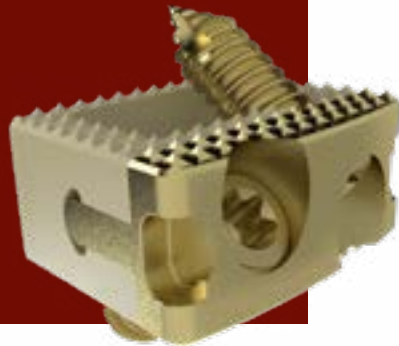
Wide variety of implant options and accessories

- Comprehensive modular spinal system with smart design
- Modular systems allow the surgeon to select the various modular screw head options
- Can be used in both open and percutaneous surgery
- Different designs rods for MIS and open approach



TITANOPEEK

*Stand Alone
Cage Systems*

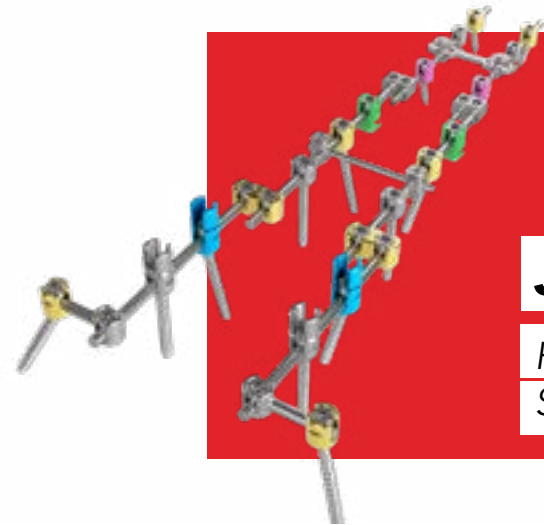


- Integrate a hollow PEEK cage with a titanium screw locking mechanism
- Can be safely applied to more than one level
- Large bone graft area for better fusion
- No need for anterior profile
- Self-drilling screws , Self-locking screws, Stand alone cage
- Offer in a variety of sizes

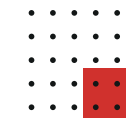


JUVE

*Pediatric
Spinal System*



- Smallest Cup sizes compared to other screws used in the same area
- Compatible with 4.5mm rod, Jube Polyaxial and monoaxial screws are starting with 20mm and goes up to 75mm with 5mm increments
- Similar systems are %27 bigger
- Tav, Tan & CoCr Rod materials options
- Compatible with 3.00mm Porthos posterior cervical fixation system

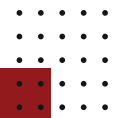


PAN

*Cervical
Disc Prosthesis*



- Permits a physiological range of motion
- Provides max adherence to vertebrae
- Allows continuing and protection of the segment movement
- One piece, made of biocompatibility titanium alloy

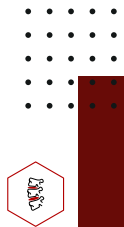


ARION

*Expandable Bladed
Cervical Cage*

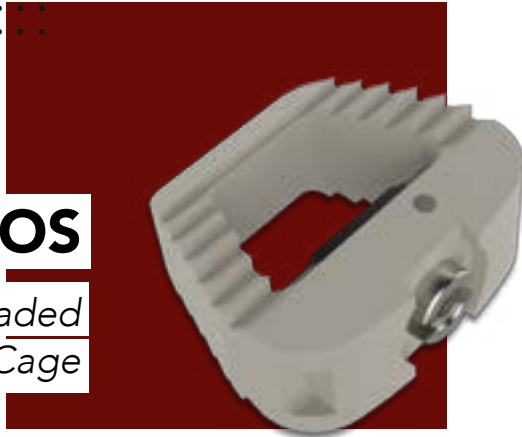


- Allows restoration of the height of the intervertebral space
- Fast, easy and effective implantation by its ergonomically driver
- Blade of the ARION is designed to make fixation easier
- Expanding and opening blade mechanism in one move
- Anatomical design

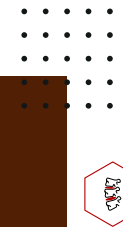


EOS

*Cervical Bladed
Peek Cage*



- Blade of the cage is designed to make fixation easier
- Made of biocompatible proven polymer PEEK
- Sharp teeth on surface of implant allows extraordinary grip
- Peek-titanium combination, safety lock
- Good radiographic appearance

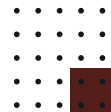


BIA

*Anterior
Cervical Cage*



- Made of biocompatible proven polymer PEEK
- Allows restoration of the height of the intervertebral space
- Sharp teeth on surface of implant allows extraordinary grip
- Simple and easy application
- Titanium pins to increase adhesion

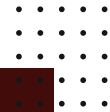


FIDES

*Angular Peek
Tlif Cage*



- PEEK-OPTIMA®
- Tantalum X-ray markers
- Both insertion and rotation is available with single instrument
- Large segmental bone graft area for better fusion
- Easily inserted into vertebral bodies from transforaminal approach



TALOS

*Peek Tlif
Cage*



- Large segmental bone graft area for better fusion
- Easily inserted into vertebral bodies from transforaminal approach
- Allows extraordinary grip due to threaded structure
- Completely peek
- Tantalum balls inserted for good radiographic appearance
- Anatomically designed



ZELOS

*Peek Tlif
Cage*




- Large segmental bone graft area for better fusion
- Has ability to treat collapsed disc spaces
- Allows extraordinary grip due to threaded structure
- Completely peek
- Simple and easy usage
- Anatomical design
- Special machined toothed surfaces for good adhesion

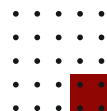


ARIA

*Expandable Peek
Tlif Cage*



- Due to expandable structure, height can be increased by 1 mm
- Provides parallel expansion
- Expandability is achieved by the titanium alloy section of the product
- Parallel expandable
- Only one inserter to insert and expand
- Titanium-peek combination

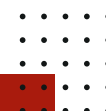


SENTINUS

*Anterior Cervical
Mesh Cage*



- Large area for bone packing
- Has efficient grafting space
- Provides an innovative solution for stabilization of the spine in cases of vertebral body resections
- Maximum fusion area
- Cuttable
- Thin and strong

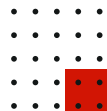


X-MESH

*Expandable Anterior
Cervical Corpectomy Cage*



- One or more vertebral bodies can be substituted
- X Cages are implanted easily and safely between the adjacent end plates of the vertebral bodies
- Cages have a hollow design
- Lordosis angled
- Plate-mesh combination, Easy to apply

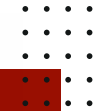


AURA

*Anterior Cervical
Plate*

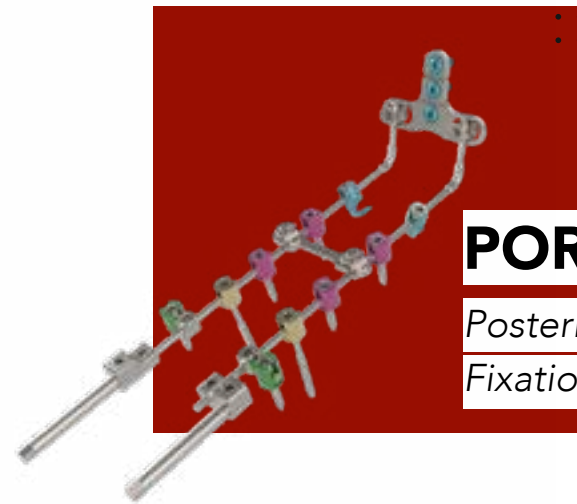


- Cervical Plate system for Anterior stabilization
- Can be used for one or more segments
- Screw locked
- Quite thin plate
- No height on the plate

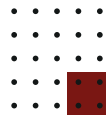


PORTHOS

*Posterior Cervical
Fixation System*



- Provides immobilization and stabilization of spinal segments as an adjunct to fusion
- Allows for easier screw fixation in difficult anatomy
- Low profile structure
- Wide range of implant choices
- Smart instruments



ULTIO

*Posterior Cervical
Laminoplasty Plate System*



- Allows for a systematic approach to laminoplasty procedures
- Prevents soft tissue irritation
- Self-drilling screw
- Wide range of plate choices
- Simple and easy application

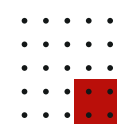


ATLAS

*Odontoid
Screw*



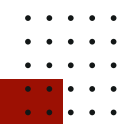
- Useful in the cervical spine to stabilize odontoid fractures and to treat atlantoaxial instability
- Preservation of C1-C2 movement
- Cannulated screw design
- Wide range of implant choices
- Easy usage
- Compact set



OSI

Spine Fixation System

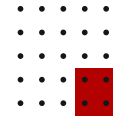
- Provides technological advancements to treat a wide range of spinal pathologies.
- Offers a comprehensive solution for rigid posterior fixation of the thoracolumbar regions of the spine
- Low profile
- Wide range of implant and accessory choices
- Usage in deformity



ON PLUS

6.0 Rod Spinal System

- Ideal for use when a larger rod diameter is needed
- Provides technological advancements to treat a wide range of spinal pathologies.
- Offers a comprehensive solution for rigid posterior fixation of the thoracolumbar regions of the spine
- Strong structure 6mm rod
- Simple and easy usage
- Wide range of implant choices

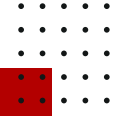


VESTA

*Cement Injection
System*



- Allows cement insertion to the bone due to cannulated structure
- Ergonomic and smart instruments
- Low profile design
- Easy and safety cement injection
- Canal structure to more cement injection

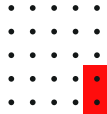


ARTHOS

*Porous Coated
Screw*



- Titanium Plasma Coated Screw
- The latest advancement in pedicle screw fixation and long term stability
- Rigid, Rapid, Effective Fusion
- Perfect bone fusion
- Good adhesion
- Good biocompatibility



PALES

Facet
Screw

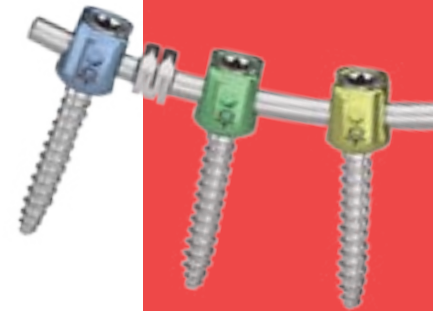


- Allows cement insertion to the bone due to cannulated structure
- Ergonomic and smart instruments
- Low profile design
- Easy and safety cement injection
- Canal structure to more cement injection



HERA

Dynamical
Rod



- Dynamical System Allows rotational and axial movement
- Prevents the upper segment degeneration
- Simple and easy application
- Slim design
- Desired level applicable
- Hybrid applicable

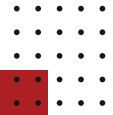


SALUS

*Peek
Rod*

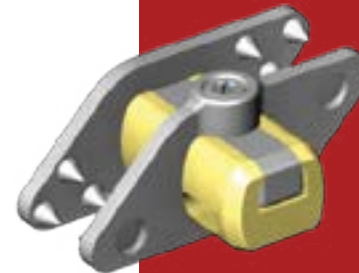


- Uses rods made of polyetheretherketone that meets all biocompatibility requirements
- Allows better stress distribution throughout the construct
- Semi-rigid fixation
- Easy application
- Titanium pieces inserted for radiographic appearance



STRATOS

*Interspinous Fixator
Device Implant*



- Interspinous fixation devices are being developed to aid in the stabilization of the spine
- The device may consist of titanium alloy, or both titanium alloy and polyetheretherketone (PEEK)
- Implants are available in a range of sizes to suit the individual pathology and anatomical conditions of the patient
- Simple and easy usage
- Titanium design
- Good adhesion
- Wide range of implant choices



- Safer practices with special cement specific to vertebroplasty
- Allows to get a biopsy
- Safe surgical procedures
- Simple and easy usage
- Effective balloon design
- Sterile and single use only



- Different options balloon catheter according to age groups and the surgical area to be treated
- Safer practices with special cement kyphoplasty
- Safe surgical procedures
- Simple and easy usage
- Wide range of instrument choices
- Sterile and single use only

CONTACT

HEADQUARTER

Address

Mustafa Kemal Mahallesi, 2133. Sok No: 4 / 2 Royale Office PC:
06510 Çankaya / Ankara, Turkey

Phone

+90 312 473 82 80

Email

sales@osimplant.com.tr

FACTORY

Address

İkitelli O.S.B.14. Cd. Mutfakçılar Sanayi Sitesi, 4 Blok No:47 İkitelli,
İstanbul, TÜRKİYE

Phone

+90 212 485 40 32-33

Email

sales@osimplant.com.tr