

product catalog

Clinical and Surgical Support Equipment
Surgical Instrument Sets
Orthopedic Plate and Screw Systems
External Fixation Systems / ESF Sets
Advanced Orthopedic Surgical Systems

ENGINEERING SURGERY

ORTOVET®
VETERINARY SURGICAL PRODUCTS

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About Us

Ortovet Surgical Products is a veterinary medical technology brand that brings together engineering, science, and clinical expertise to meet the evolving needs of veterinary surgery.
We develop and deliver high-performance surgical implants, medical devices, surgical instruments, and innovative solutions for orthopedic surgery, neurosurgery, general surgery, and physiotherapy, providing veterinary professionals with reliable technologies they can trust.

Every product we create is the result of a meticulous development process guided by surgical precision, biomechanical principles, ergonomics, and reliability. Our mission extends beyond manufacturing products; we strive to develop solutions that empower surgeons to perform safer, more efficient, and more successful procedures.

Continuous improvement and scientific innovation are at the core of our philosophy. We support our product development activities through educational programs, hands-on training courses, scientific collaborations, and knowledge sharing, contributing to the advancement of veterinary surgery.

At Ortovet Surgical Products, we bring the power of engineering into the hands of veterinary surgeons, supporting them with reliable technologies and innovative solutions.
Because we believe that successful surgery depends not only on surgical expertise but also on intelligently engineered solutions.

Engineering Surgery
Cerrahinin Mühendisliği

Chief Scientific Officer (CSO)
Dr. Mehmet Suat Yılmaz



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flawless solutions for critical procedures.

Carbon Fiber Heating Table

Maintaining a patient's body temperature during surgical procedures is essential for anesthetic safety and postoperative recovery. **The Ortovet Carbon Fiber Heating Table** is a professional patient-warming system designed to provide controlled and uniform heat distribution throughout surgical procedures, helping reduce the risk of perioperative hypothermia.

Utilizing advanced thin-profile carbon fiber heating technology, the system delivers consistent heat distribution across its surface without compromising the ergonomics of the operating table. Its precise temperature control and integrated safety mechanisms help prevent localized overheating while providing reliable performance during prolonged surgical procedures.

Designed for veterinary clinics, specialty centers, and referral hospitals, the Carbon Fiber Heating Table is suitable for orthopedic surgery, neurosurgery, soft tissue procedures, and other interventions requiring prolonged anesthesia.

Its durable construction, easy-to-clean surface, and user-friendly control system make it a practical and dependable solution for everyday clinical applications.



Key Features

- Uniform carbon fiber heating technology
- Precise digital temperature control
- Stable surface temperature throughout surgical procedures
- Thin and lightweight design for seamless integration with operating tables
- Helps reduce the risk of hypothermia during prolonged procedures
- Durable and easy-to-clean surface
- Integrated overheating protection system for enhanced safety

Applications

- Orthopedic Surgery
- Neurosurgery
- General Surgery
- Soft Tissue Surgery
- Procedures Requiring Prolonged Anesthesia



Thermoregulation Saves Lives.

Reliable patient-warming technology designed to help prevent perioperative hypothermia.

Dog Patient Transfer Lift



Safe handling and transportation of large-breed dogs, neurological patients, and animals requiring postoperative mobilization are essential for both patient welfare and clinical staff safety.

The Ortovet Dog Patient Transfer Lift is a professional patient-handling and mobilization system designed to facilitate safe transfers, reduce physical strain on veterinary personnel, and support rehabilitation processes.

Equipped with an electric lifting mechanism and an ergonomic design, the system enables controlled and secure patient transfers between stretchers, operating tables, intensive care units, and rehabilitation facilities.

Its adjustable sling system accommodates different patient sizes, while its high load-bearing capacity ensures reliable performance in daily clinical practice.

As early mobilization becomes increasingly important in orthopedic and neurological rehabilitation, **the Ortovet Dog Patient Transfer Lift** contributes to improved patient safety and reduced physical workload for veterinary teams.

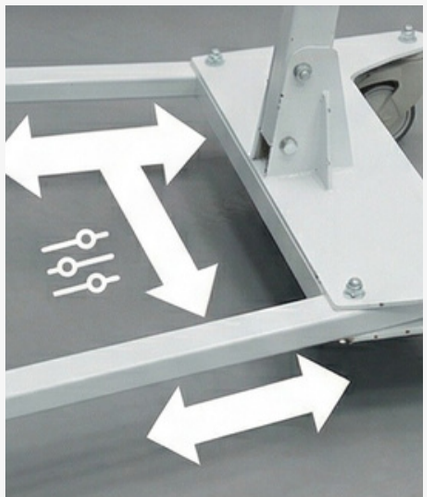
With its durable construction, intuitive control system, and excellent maneuverability, it provides an efficient patient-handling solution for modern veterinary hospitals and referral centers.

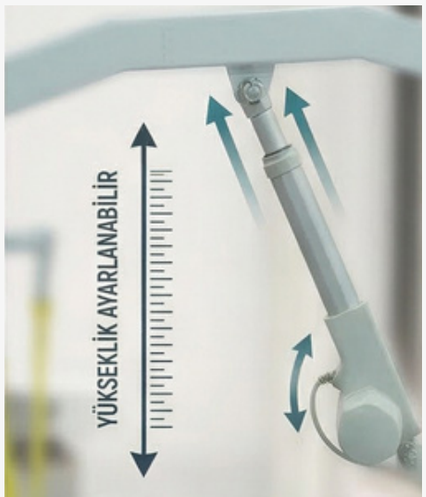
Key Features

- Electric lifting mechanism
- High load-bearing capacity
- Safe and controlled patient transfers
- Ergonomic operation
- Adjustable sling system for different patient sizes
- Mobile design for easy maneuverability
- Helps reduce physical strain on clinical personnel
- Supports rehabilitation and assisted mobilization

Applications

- Orthopedic Clinics
- Neurosurgery
- Rehabilitation and Physiotherapy
- Intensive Care Units
- Hospitalization Facilities
- Large-Breed Patient Management





Safe Mobilization Is the First Step Toward Successful Rehabilitation.

Orthopedic Surgical Instrument Set

The Ortovet Orthopedic Surgical Instrument Set is a comprehensive instrumentation system developed to meet the demands of both routine and advanced veterinary orthopedic procedures.
Covering a broad range of applications, from fracture fixation to reconstructive orthopedic surgery, the set brings together essential and specialized instruments within a single, well-organized surgical platform.

Each instrument is designed with precision, durability, and ergonomics in mind and manufactured from high-quality medical-grade stainless steel suitable for intensive clinical use.
Balanced construction and ergonomic design provide optimal surgical control, contributing to safer and more efficient procedures.
With its comprehensive instrumentation, the set supports various implant systems and orthopedic techniques, making it a reliable solution for referral hospitals, specialty centers, and veterinary surgeons performing advanced orthopedic procedures.



Key Features

- Comprehensive orthopedic surgical instrumentation
- Suitable for basic and advanced orthopedic procedures
- High-quality medical-grade stainless steel
- Ergonomically designed and well-balanced instruments
- Durable construction suitable for repeated sterilization
- Professional instrument organization system
- Compatibility with various implant systems

Applications

- Fracture Fixation
- Reconstructive Orthopedic Surgery
- Joint Surgery
- Osteotomy Procedures
- Trauma Surgery
- Referral Orthopedic Centers
- Veterinary Teaching and Specialty Clinics



Exceptional Surgery Begins with Exceptional Instruments.

Basiç Orthopedic Surgical Instrument Set

The Ortovet Basic Orthopedic Surgical Instrument Set has been developed to bring together the essential instruments required for routine veterinary orthopedic procedures in one practical and efficient system.
Designed for everyday orthopedic applications, the set combines functionality, ergonomic design, and durability to provide a reliable surgical experience.
Each instrument has been carefully selected and designed to support precise manipulation, safe handling, and long-term performance in accordance with the requirements of modern veterinary orthopedics.
Balanced weight distribution, ergonomic construction, and high manufacturing standards enhance surgical control and operating comfort.
Manufactured from high-quality medical-grade stainless steel, the instruments are resistant to repeated sterilization and suitable for intensive clinical use.
From veterinary teaching facilities to referral hospitals, the Basic Orthopedic Surgical Instrument Set provides a dependable foundation for orthopedic surgical practice.

Key Features

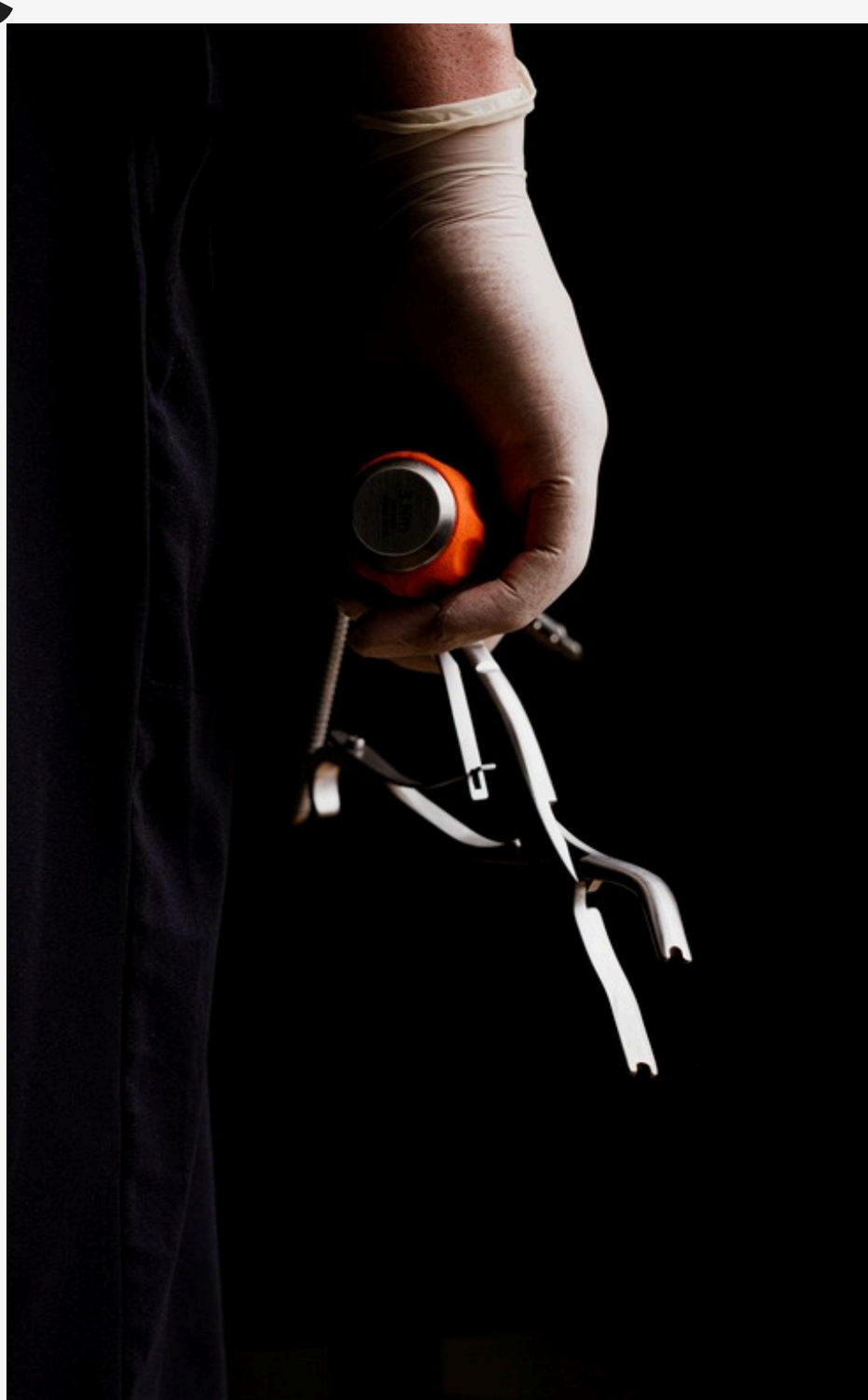
- Essential instruments for veterinary orthopedic procedures
- High-quality medical-grade stainless steel
- Ergonomic and balanced design
- Precision working tips for controlled manipulation
- Durable construction suitable for repeated sterilization
- Organized and practical instrument arrangement
- Developed for everyday clinical use
-

Applications

- Fracture Fixation
- Orthopedic Reconstruction
- Trauma Surgery
- Surgical Training and Practical Laboratories
- Veterinary Clinics and Referral Hospitals

Power in the Surgeon's Hands.





Soft Tissue Surgical Instrument Set

The Ortovet Soft Tissue Surgical Instrument Set is a comprehensive surgical instrumentation system designed to meet the requirements of routine and advanced soft tissue procedures in veterinary general surgery.

Developed with an emphasis on tissue preservation, precise manipulation, and reliable surgical performance, the set offers versatility across a wide range of surgical disciplines.
The instruments have been carefully selected to provide excellent control and handling during essential surgical stages, including tissue dissection, hemostasis, suturing, retraction, and organ manipulation.

Their ergonomic designs support natural hand movements while maintaining precision and reliability throughout surgical procedures.
Manufactured from high-quality medical-grade stainless steel, the instruments are suitable for intensive clinical use and repeated sterilization.
Designed for referral hospitals, specialty centers, and advanced veterinary surgical practices, the Ortovet Soft Tissue Surgical Instrument Set combines professional surgical solutions within a single integrated system.

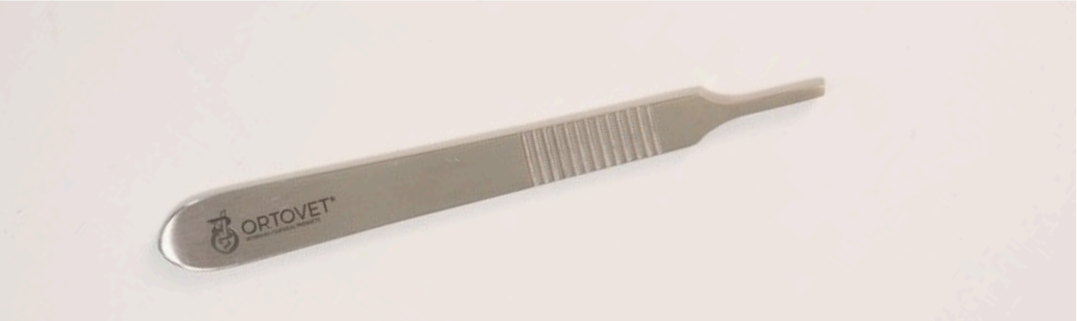


Key Features

- Comprehensive soft tissue surgical instrumentation
- Ergonomic design for precise tissue manipulation
- High-quality medical-grade stainless steel
- Durable construction for intensive clinical use
- Suitable for repeated sterilization
- Professional instrument organization system
- Versatile applications across multiple surgical disciplines

Applications

- General Surgery
- Oncologic Surgery
- Gastrointestinal Surgery
- Urogenital Surgery
- Thoracic Surgery
- Reconstructive Surgery
- Emergency Surgical Procedures



Precision in Every Touch. Confidence in Every Procedure.

Basic Soft Tissue Surgical Instrument Set

The Ortovet Basic Soft Tissue Surgical Instrument Set is a practical and reliable instrumentation system that brings together the essential surgical instruments required for commonly performed soft tissue procedures in veterinary general surgery.

Developed for daily clinical practice, the set prioritizes functionality, ergonomics, and ease of use.
The instruments included in the set support essential surgical techniques such as tissue dissection, hemostasis, suturing, and routine soft tissue manipulation.

Their balanced design and high manufacturing quality provide dependable surgical performance while contributing to more controlled and efficient procedures.
Manufactured from high-quality medical-grade stainless steel, the instruments offer durability, long service life, and resistance to repeated sterilization.
Suitable for veterinary teaching clinics, private practices, and animal hospitals, the Basic Soft Tissue Surgical Instrument Set provides a dependable foundation for routine surgical applications.



Key Features

- Essential instruments for basic soft tissue surgery
- Ergonomic and user-friendly design
- High-quality medical-grade stainless steel
- Durable and long-lasting construction
- Suitable for repeated sterilization
- Optimized instrument selection for daily clinical practice
- Organized and practical instrument arrangement

Applications

- Routine General Surgery
- Spay and Neuter Procedures
- Soft Tissue Surgery
- Emergency Surgical Interventions
- Veterinary Teaching and Training Clinics

Precision in Every Touch. Confidence in Every Procedure.



Xsmall Set

The Ortovet XSmall Set is a mini-fragment plate and screw system developed for fracture management in cats, toy breeds, and small-breed dogs.
Designed with the precision required for delicate anatomical structures, the system facilitates surgical manipulation while providing reliable fracture stabilization.
The anatomical plate options and compatible screws included in the system are engineered to accommodate different bone regions and anatomical configurations.

The low-profile implant design helps minimize soft tissue irritation while providing mechanically stable fixation.
Developed for some of the most delicate patients in veterinary orthopedics, **the XSmall Set** combines precision engineering and high manufacturing quality to deliver reliable osteosynthesis solutions.



Key Features

- Developed for cats and toy-breed dogs
- Mini-fragment plate and screw system
- Low-profile implant design
- Anatomical plate options
- Reliable fracture stabilization
- Optimized for precise surgical applications

Small Patients.
Exceptional Precision.



Mini Set

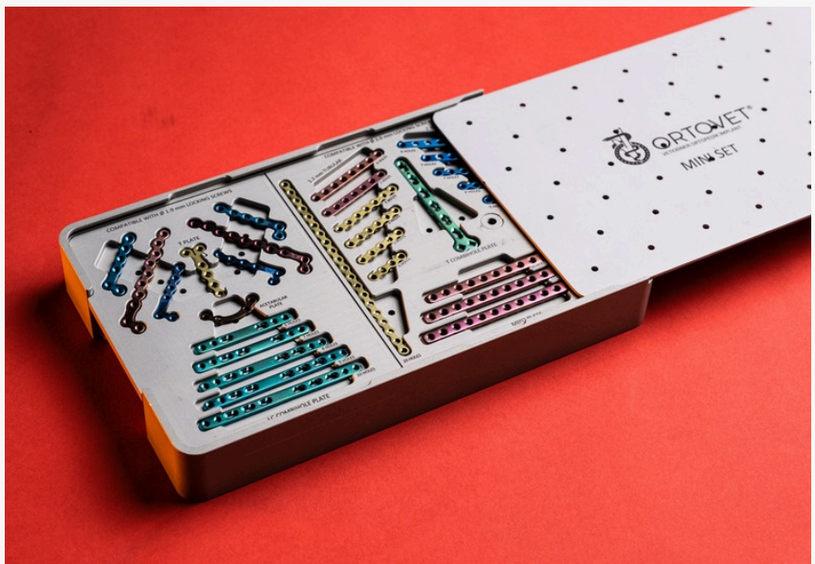
The Ortovet Mini Set is a locking plate and screw system developed for orthopedic procedures in small-breed dogs.
Its compact design and comprehensive implant options provide reliable fixation across different anatomical regions.

The system incorporates biomechanically optimized plate geometries and locking screw technology to enhance surgical stability and deliver consistent performance in routine and advanced orthopedic procedures.
Inspired by real clinical needs, the Mini Set provides veterinary surgeons with reliable implant solutions within a versatile and integrated platform.

Key Features

- Optimized for small-breed dogs
- Locking plate technology
- Comprehensive implant options
- Anatomically optimized design
- Reliable biomechanical stability

Small Structures, Great Confidence.





Midi Set

The Ortovet Midi Set is a comprehensive plate and screw system developed for fracture fixation and osteotomy procedures in small- and medium-breed dogs.

Its versatile implant selection provides surgical flexibility and reliable fixation across multiple anatomical regions. Biomechanically optimised plate designs and locking screw technology enhance construct stability while supporting effective osteosynthesis and bone healing.

Designed for one of the most frequently encountered patient populations in veterinary orthopaedic practice, the Midi Set offers a versatile solution for everyday clinical applications.



Key Features

- Suitable for small- and medium-breed dogs
- Locking plate technology
- High biomechanical strength
- Versatile implant options
- Adaptability to different anatomical regions

The Power of Balance.



Combi Set

The Ortovet Combi Set is a versatile plate and screw system that integrates implants suitable for different patient sizes and a broad range of orthopaedic indications within a single platform.
From routine clinical procedures to advanced reconstructive surgery, the system provides extensive surgical versatility.

By combining multiple implant sizes into a single organised system, the Combi Set allows surgeons to tailor implant selection to individual cases while simplifying preoperative planning.
Its efficient organisation and comprehensive implant range make it an ideal solution for referral centres and veterinary clinics with high orthopaedic caseloads.

Key Features

- Versatile plate and screw system
- Solutions for different patient sizes
- Comprehensive implant range
- Flexible surgical planning
- Ideal for referral hospitals and speciality centres

One System, Limitless Solutions.







Maxi Set

The Ortovet Maxi Set is a high-strength locking plate and screw system developed for complex fractures and reconstructive orthopaedic procedures in large-breed dogs. Engineered to provide reliable stabilisation in load-bearing bones, the system delivers advanced biomechanical performance for demanding surgical applications.

Its extensive implant range enables effective use in various anatomical regions, particularly the femur, tibia, humerus, radius, and ulna.

With durable construction and precise manufacturing tolerances, the Maxi Set provides surgeons with dependable fixation solutions for challenging orthopaedic cases.



Key Features

- Developed for large-breed dogs
- High-strength implant system
- Locking plate technology
- Suitable for complex fracture management
- Extensive implant selection

Where Strength Meets Confidence.



XL Set

The Ortovet XL Set is a professional plate and screw system developed to provide high levels of mechanical stability in giant-breed dogs and large animals, including farm animals.

Designed for orthopaedic procedures involving substantial mechanical loads, the implants provide high biomechanical strength and support long-term construct stability.

With its comprehensive implant options and robust locking screw technology, the XL Set offers reliable solutions for some of the most demanding orthopaedic cases.

Key Features

- Developed for giant-breed dogs
- Maximum biomechanical strength
- Locking plate technology
- Reliable stabilisation of heavily loaded bones
- Designed for advanced orthopaedic procedures

Maximum Strength, Maximum Confidence.







Mini ESF Set



T**he Ortovet Mini ESF Set** is a compact, precision-engineered external skeletal fixation system developed for cats, toy breeds, and small-breed dogs.
Designed in accordance with the principles of biological osteosynthesis, the system supports minimally invasive approaches to fracture management in small patients.
Its lightweight and ergonomic construction makes it suitable for a wide range of orthopaedic applications, including open fractures, infected fractures, deformity correction, arthrodesis, and temporary skeletal stabilisation.

The modular design enables the creation of various fixation configurations, providing surgeons with flexibility during surgical planning and application.
Manufactured with precise tolerances and durable components, **the Ortovet Mini ESF Set** provides a reliable solution for external skeletal fixation in small veterinary patients.

Key Features

- Developed for cats and small-breed dogs
- Modular external skeletal fixation system
- Suitable for minimally invasive techniques
- Applicable to open and infected fractures
- Supports multiple frame configurations
- Lightweight and ergonomic design

Applications

- Open Fractures
- Infected Fractures
- Deformity Correction
- Arthrodesis
- Temporary Skeletal Stabilisation
- Biological Osteosynthesis

Big Stability for Small Patients.



Mix ESF Set

The Ortovet Mix ESF Set is a versatile external skeletal fixation system developed to accommodate a broad patient population, ranging from small- to large-breed dogs.
Combining the advantages of the Mini and Large ESF systems on a single platform provides maximum flexibility for various orthopaedic applications.

Its extensive selection of fixation pins, connecting rods, and clamps enables surgeons to construct various frame configurations suitable for different bone diameters and anatomical structures.
This versatility makes **the Mix ESF Set** a comprehensive solution for high-volume orthopaedic clinics, referral centres, and veterinary teaching institutions.
By supporting multiple patient categories within a single integrated system, **the Mix ESF Set** simplifies surgical planning and improves inventory management efficiency.



Key Features

- Combines Mini and Large ESF systems
- Suitable for a broad range of patient sizes
- Modular construction
- Multiple frame configuration options
- High clinical versatility
- Ideal for referral and speciality centres

Applications

- Small-, Medium-, and Large-Breed Dogs
- Open and Infected Fractures
- Deformity Correction Surgery
- Arthrodesis
- Revision Surgery
- Trauma Surgery

One Set, Endless Configurations.





Large Esf Set



The Ortovet Large ESF Set is a high-strength professional external skeletal fixation system developed for medium-, large-, and giant-breed dogs, as well as farm animals.
Engineered to provide reliable stabilisation of heavily loaded bones, the system delivers robust mechanical performance in challenging trauma cases and reconstructive orthopaedic procedures.
Reinforced connecting rods, fixation pins, and clamps provide the mechanical strength required for larger patients.

Its modular design supports unilateral, bilateral, and hybrid frame configurations, allowing surgeons to customise fixation constructs according to individual clinical requirements.

Developed for demanding veterinary orthopaedic applications, **the Large ESF Set** offers a durable, reliable fixation solution for selected large-animal surgical procedures.

Key Features

- Developed for medium-, large-, and giant-breed dogs
- Suitable for selected farm animal applications
- High mechanical strength
- Modular fixation frame system
- Multiple configuration options
- Reliable stabilisation of load-bearing bones

Applications

- Large-Breed Dogs
- Giant-Breed Dogs
- Farm Animals
- Trauma Surgery
- Open Fractures
- Deformity Correction
- Revision Surgery

Engineered Strength for Larger Structures.



Maxi Esf Set

The Ortovet Maxi ESF Set is the most comprehensive external skeletal fixation system in the Ortovet portfolio, designed for high-volume referral hospitals, universities, and advanced orthopaedic centres.
With approximately three times the equipment capacity of the Mix ESF Set, the system supports planning and executing multiple surgical procedures and assembling a wide variety of fixation configurations.
Its extensive component selection accommodates a broad spectrum of applications, from basic external fixation to complex hybrid constructs.

Designed for intensive clinical use, the system enhances operational efficiency while supporting multiple simultaneous training and surgical activities in educational institutions.
With its comprehensive instrumentation, modular architecture, and professional organisation, **the Ortovet Maxi ESF Set** offers a high-capacity external fixation solution for advanced veterinary orthopaedics.

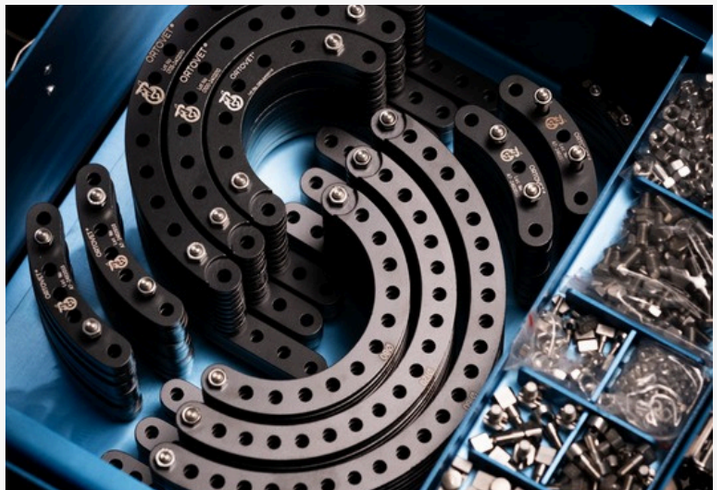
Key Features

- The most comprehensive ESF system in the Ortovet portfolio
- Approximately three times the equipment capacity of the Mix ESF Set
- Developed for referral hospitals and universities
- Supports multiple surgical procedures
- Maximum modularity
- Extensive selection of fixation components and connectors

Applications

- Referral Hospitals
- University Veterinary Hospitals
- High-Volume Orthopedic Centers
- Revision Surgery
- Deformity Correction
- Small- and Large-Animal Orthopaedics

Stability Without Limits.





TTA Set

The Ortovet TTA Set is a comprehensive surgical system for Tibial Tuberosity Advancement (TTA) procedures used to treat cranial cruciate ligament (CrCL) rupture in dogs.
The system integrates implants, spacer options, and procedure-specific surgical instruments within a single platform, simplifying surgical planning and promoting a standardised operative workflow.

With implant options suitable for patients of different sizes, the system supports a broad range of surgical applications.
Its biomechanically optimised design provides reliable osteotomy fixation, while its modular architecture and dedicated instrumentation enable efficient, reproducible surgical procedures.

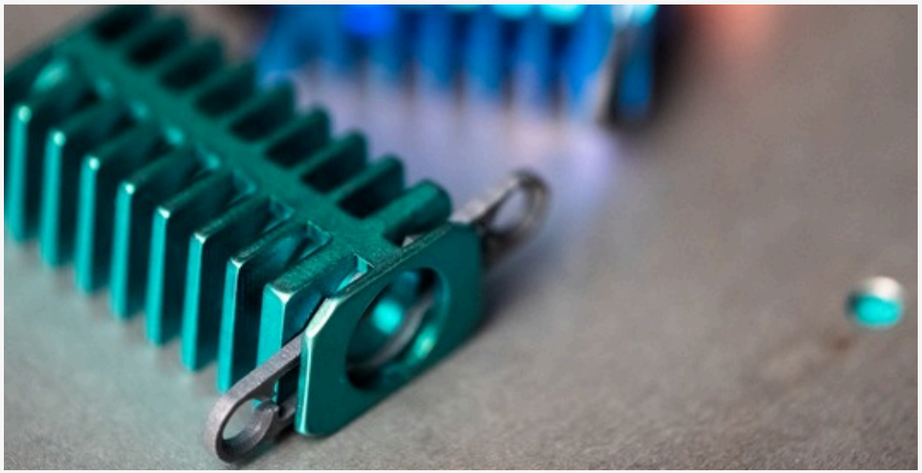
Developed through the integration of clinical experience and engineering expertise, **the Ortovet TTA Set** aims to support reliable, consistent, and successful outcomes in veterinary orthopaedic surgery.

Key Features

- Complete TTA surgical system
- Multiple implant and spacer options
- Procedure-specific surgical instruments
- Reliable osteotomy stabilisation
- Modular and user-friendly system
- Implant options for different patient sizes

Applications

- Cranial Cruciate Ligament (CrCL) Rupture
- Tibial Tuberosity Advancement (TTA)
- Veterinary Stifle Surgery





Redesigning Movement.

Spine Set

ONE OF THE WORLD'S SMALLEST 1.5 MM POLYAXIAL SCREW SYSTEMS*

The Ortovet Spine Set is an advanced vertebral stabilisation system developed from the ground up to address the specific requirements of veterinary spinal surgery.
Designed for small-breed dogs and cats, the system provides reliable fixation for vertebral instability, fractures, luxations, and other spinal conditions that require surgical stabilisation.
At the core of the system is its **1.5 mm polyaxial screw technology**, engineered to provide stable fixation while accommodating the complex anatomical requirements of small veterinary patients.
The compact implant architecture enables precise placement within restricted surgical spaces, positioning the system among the **world's smallest 1.5 mm polyaxial screw systems** developed for veterinary applications.*
One of the key distinguishing features of the Ortovet Spine Set is its purpose-built design.
Rather than adapting existing human spinal fixation systems, the Ortovet Spine Set has been developed specifically around the anatomical and surgical requirements of veterinary patients.
This approach has enabled the creation of an optimised instrumentation platform that includes only the instruments necessary for veterinary spinal fixation procedures.
By eliminating unnecessary components, the system simplifies surgical preparation, improves operational efficiency, and offers potential cost advantages.
Combining compact implant design, streamlined instrumentation, and biomechanically optimised fixation technology, the Ortovet Spine Set provides an efficient and reliable solution for modern veterinary spinal surgery.

Key Features

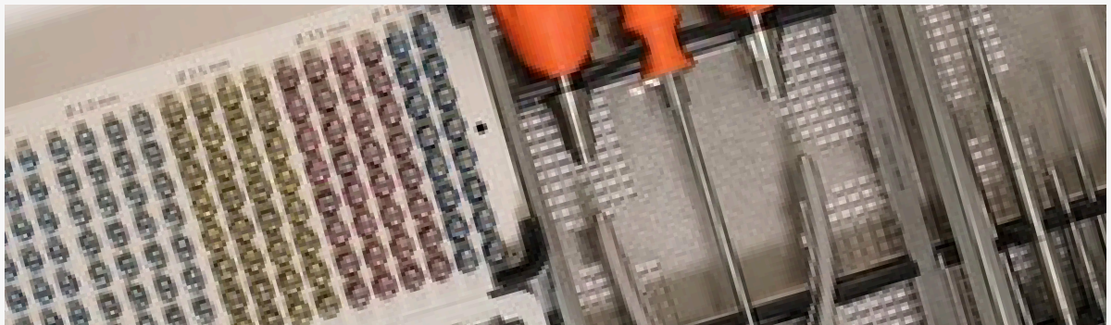
- Purpose-built for veterinary spinal surgery
- 1.5 mm polyaxial screw technology
- **Among the world's smallest 1.5 mm polyaxial screw systems***
- Implant design optimised for small-breed dogs and cats
- Streamlined instrumentation compared with human spinal fixation systems
- Fewer instruments for faster surgical preparation
- Compact and cost-efficient system
- Reliable vertebral stabilisation
- Precise anatomical adaptability

Applications

- Vertebral Fractures
- Vertebral Luxations
- Vertebral Instability
- Veterinary Neurosurgery
- Spinal Reconstructive Surgery



This statement is based on technical comparisons of publicly available product portfolios as of the date of catalog preparation.



Small Screws, Big Technology.

DPO–TPO Set

ONE OF THE WORLD'S MOST COMPREHENSIVE DPO–TPO SURGICAL SYSTEMS*

The Ortovet DPO–TPO Set is a comprehensive pelvic osteotomy platform designed for Double Pelvic Osteotomy (DPO) and Triple Pelvic Osteotomy (TPO) procedures for the surgical treatment of hip dysplasia in young dogs.
Integrating implant options for different patient sizes, multiple osteotomy angles, and procedure-specific surgical instruments, the system provides surgeons with a versatile and comprehensive surgical platform.

The Ortovet DPO–TPO Set incorporates **2.0 mm, 2.7 mm, 3.5 mm, and 5.0 mm** implant platforms within a single integrated system.
This extensive implant range accommodates different anatomical structures and patient sizes, offering flexibility in surgical planning and implant selection.
Variable-angle locking screw technology and anatomically designed plates provide stable pelvic fixation while facilitating accurate implant positioning.
With its extensive implant selection and comprehensive instrumentation, **the Ortovet DPO–TPO Set** stands among the world's most comprehensive DPO–TPO surgical systems, introducing an innovative approach to veterinary pelvic osteotomy procedures.*

Developed through the combination of clinical expertise and engineering innovation, the system is designed to support reliable, reproducible, and successful surgical outcomes in pelvic osteotomy procedures.

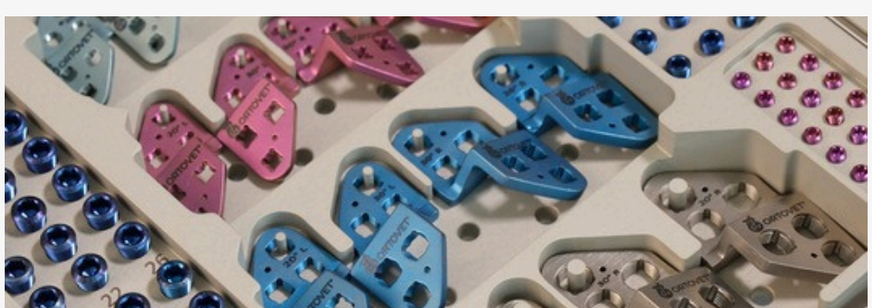
Key Features

- **2.0 mm, 2.7 mm, 3.5 mm, and 5.0 mm** implant platforms
- Among the world's most comprehensive DPO–TPO systems*
- Integrated platform supporting both DPO and TPO procedures
- Variable-angle locking screw technology
- Extensive plate options and osteotomy angles
- Procedure-specific surgical instrumentation
- Implant options for a broad patient population
- Reliable pelvic stabilisation

Applications

- Hip Dysplasia
- Double Pelvic Osteotomy (DPO)
- Triple Pelvic Osteotomy (TPO)
- Pelvic Reconstructive Surgery

Setting a New Standard in Hip Surgery.





This statement is based on technical comparisons of publicly available product portfolios as of the date of catalog preparation.

Surgical Pin Series



The Foundation of Surgery. The Strength of Stabilisation.

The Ortovet Surgical Pin Series is a comprehensive system of orthopaedic pins and wires designed to meet a wide range of stabilisation needs in veterinary orthopaedic surgery.
Offering a variety of diameters, geometries, and thread configurations, the series provides surgeons with versatile solutions for internal fixation, external fixation, and supplementary stabilisation techniques.

Each implant has been evaluated not only for mechanical strength but also for bone–implant interaction, load transfer, and the biomechanical behaviour of the overall fixation construct.
The Right Diameter. The Right Geometry. The Right Stabilisation.

KEY FEATURES

- **Wide Range of Diameters**

Available in diameters ranging from 0.8 mm to 4.0 mm, providing versatility for different patient sizes and surgical requirements.

- **Various Thread Geometries**

Smooth, threaded, and specially designed short-threaded configurations offer solutions for different bone purchase and stabilisation requirements.

- **Biomechanically Driven Design**

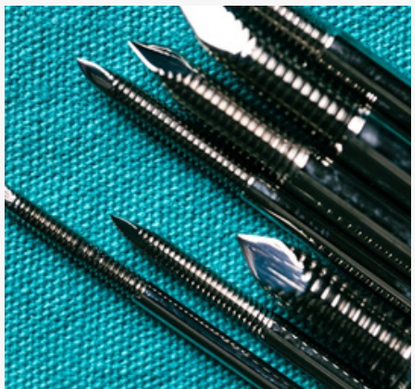
Designed with consideration of the relationship between pin diameter, working length, thread geometry, and the pin–bone interface.

- **Broad Range of Surgical Applications**

Suitable for a wide spectrum of orthopaedic procedures, from fracture stabilisation and external fixation to supplementary internal fixation and complex reconstructive surgery.

- **Compatibility with Ortovet Systems**

Developed for integration with Ortovet external fixation and orthopaedic implant systems.





Precision to the Millimeter, Maximum Confidence.

Smooth Kirschner Wires

Smooth Kirschner wires are designed for procedures requiring precise implantation, including small-fragment stabilisation, supplementary fixation, and various orthopaedic surgical applications.

AVAILABLE DIAMETERS

0.8 | 1.0 | 1.2 | 1.5 | 1.8 | 2.0 mm

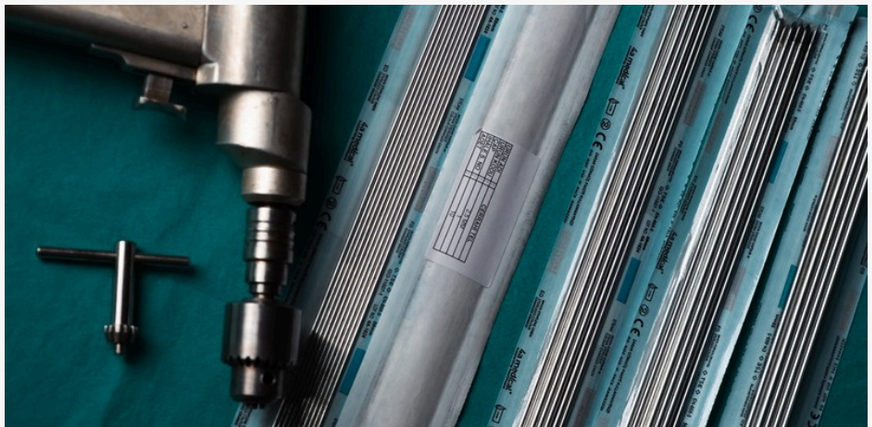
Key Advantage

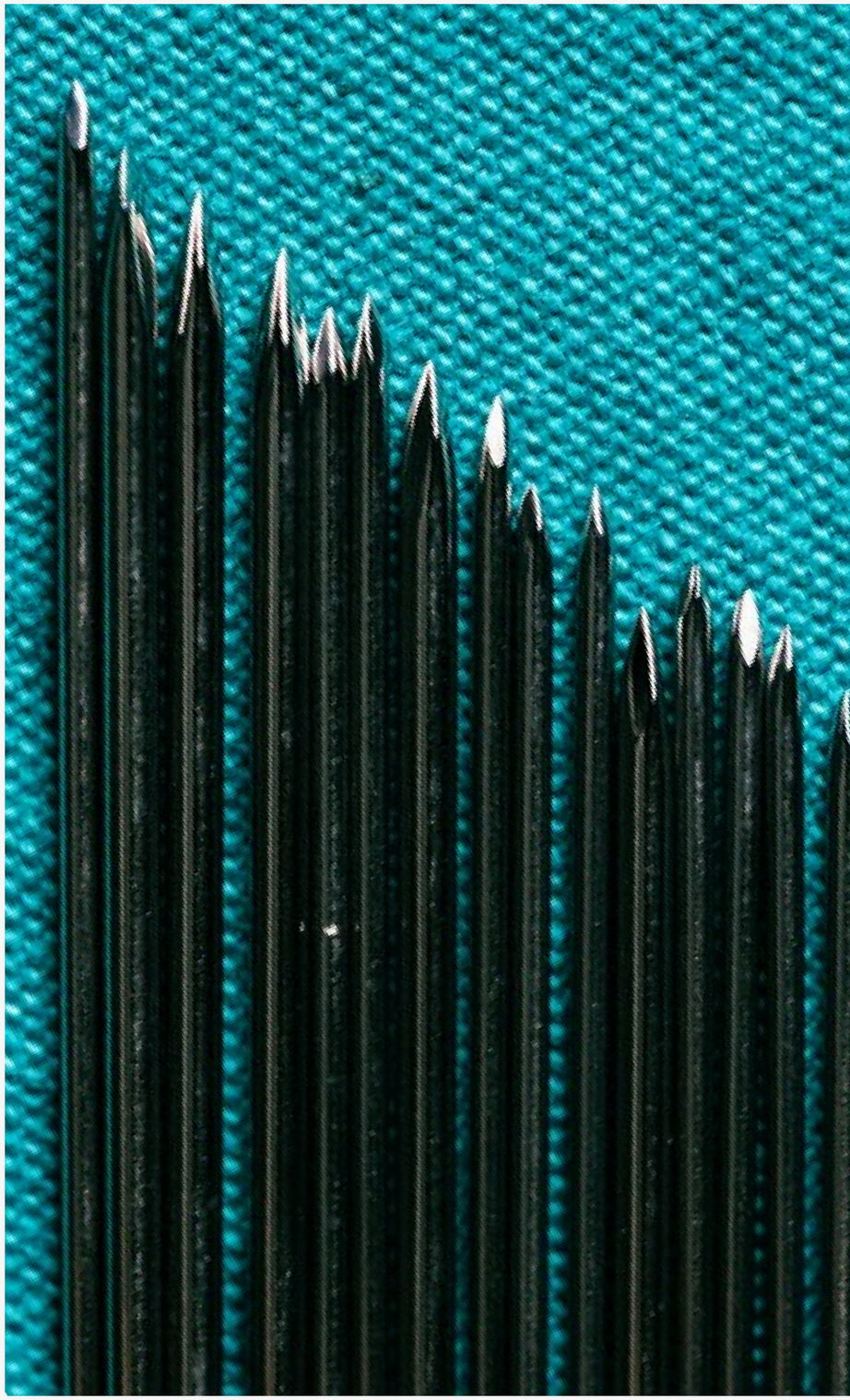
- The availability of small diameters enables precise orthopaedic applications, particularly in cats, toy breeds, and miniature-breed dogs.

Clinical Applications

- Small-fragment fixation
- Supplementary internal fixation
- Tension band wiring techniques
- Cerclage wiring applications
- Pin–cerclage and pin–plate constructs
- Small animal orthopaedic surgery
- Supplementary stabilisation in external fixation

Precision in Its Finest Form.





Threaded Kirschner Wires

Threaded Kirschner wires are developed for orthopaedic applications requiring increased mechanical purchase within bone.

The mechanical engagement of the threaded segment with bone contributes to implant stability when used in appropriately selected indications.

AVAILABLE DIAMETERS

1.5 | 1.8 | 2.0 mm

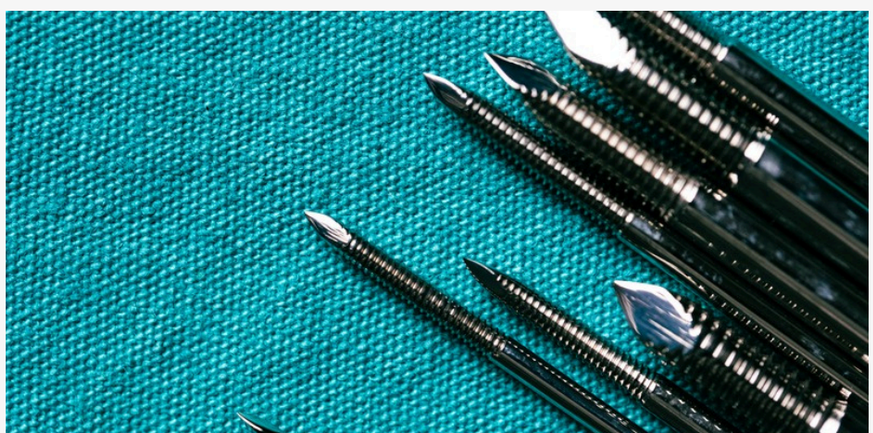
Key Advantage

- Threaded geometry + mechanical bone engagement = enhanced fixation strength and bone purchase.

Clinical Applications

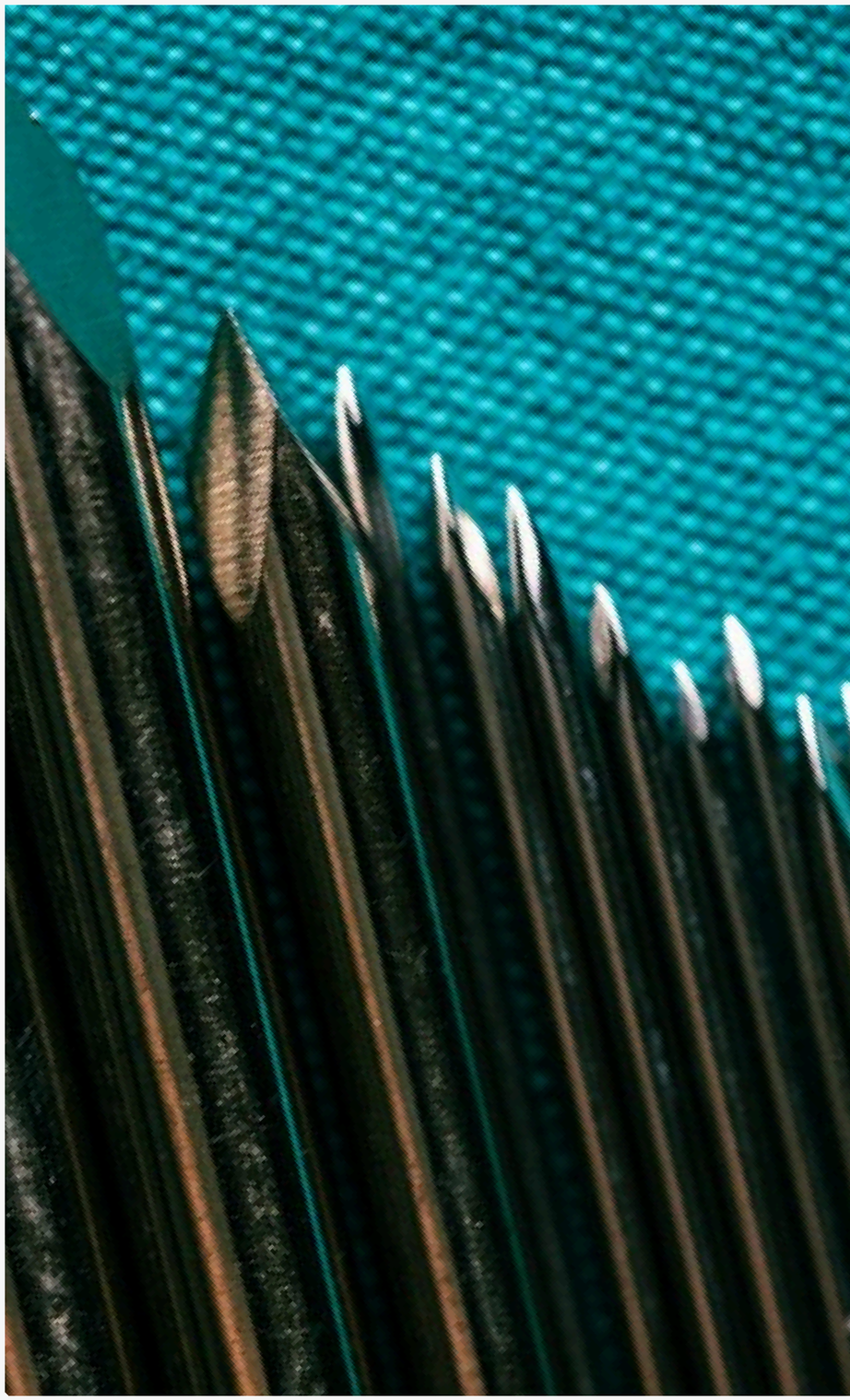
- Supplementary internal fixation
- Stabilisation of small and medium-sized bone fragments
- Pin–cerclage and pin–plate constructs
- External fixation applications
- Orthopaedic reconstructive procedures

Enhanced Bone Purchase, Stronger Fixation.





Steinmann Pins



Steinmann pins are among the fundamental orthopedic implants used in internal fixation and supplementary stabilization procedures requiring substantial mechanical strength.

AVAILABLE DIAMETERS

2.5 | 3.0 | 3.5 | 4.0 mm

Key Advantage

- With appropriate selection of diameter and working length, Steinmann pins provide a mechanically robust implant option that enhances bending resistance and overall construct stiffness.

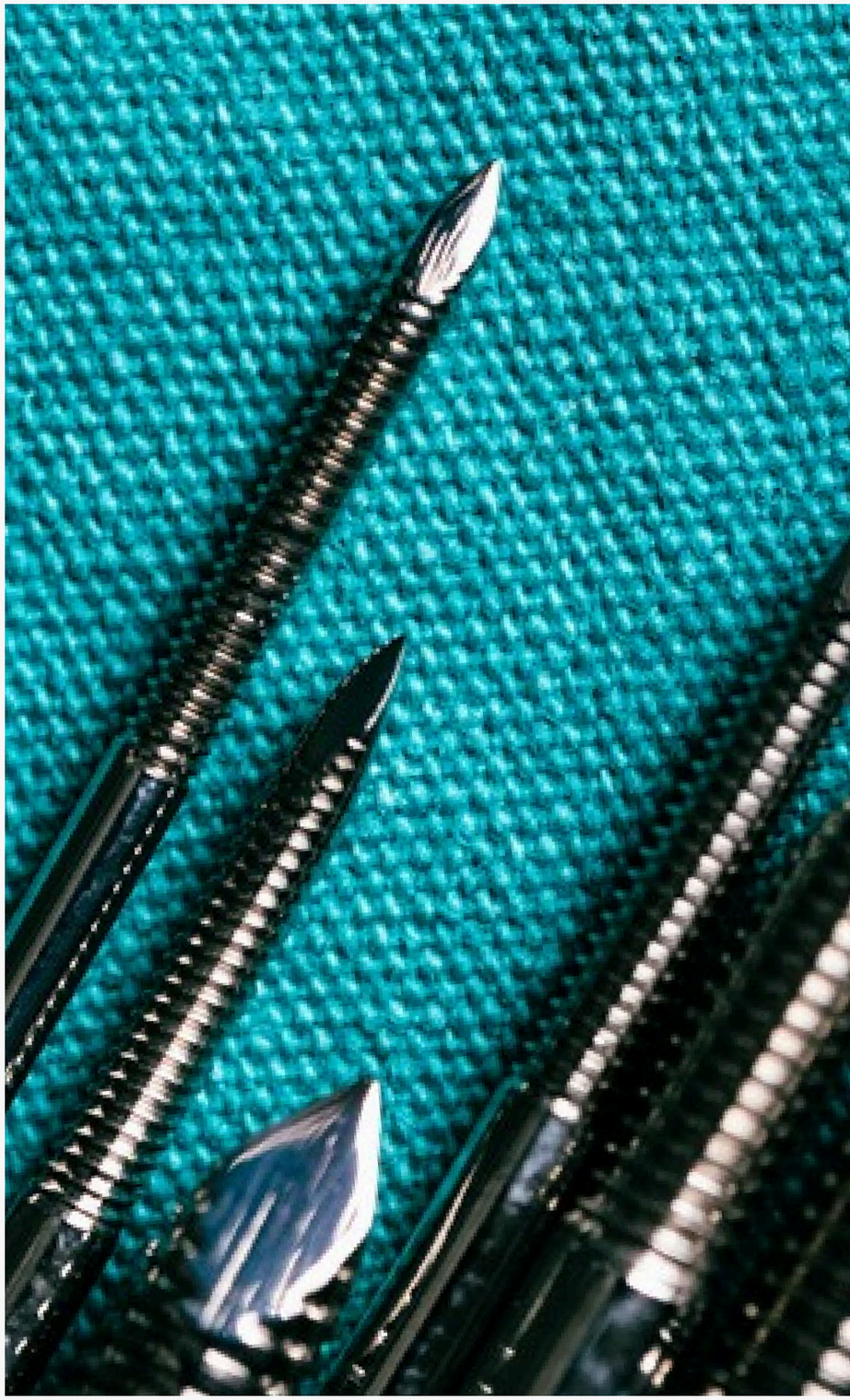
Clinical Applications

- Intramedullary pinning
- Fracture stabilization
- Tie-in external skeletal fixation
- Intramedullary pin–plate combinations
- Supplementary internal stabilisation
- Orthopaedic surgery in medium- and large-breed patients

The Classic Standard of Strength.



Shanz Pins



Schanz pins are fundamental components of external skeletal fixation systems, providing the mechanical connection between bone and the external fixator construct.
Stability at the pin–bone interface plays a critical role in the overall biomechanical performance of external fixation constructs.

AVAILABLE DIAMETERS

2.5 | 3.0 | 3.5 | 4.0 mm

Key Advantage

- Multiple diameter options allow surgeons to select appropriate pins according to patient size, bone dimensions, and the mechanical requirements of the fixation construct.

Clinical Applications

- Linear external skeletal fixation
- Circular external skeletal fixation (Ilizarov systems)
- Hybrid external fixation
- Multiplanar fixation constructs
- Bridging fixation
- Periarticular fractures
- Segmental bone defects
- Stabilisation of complex fractures

The Essential Bone–Fixator Connection.



Ellis Pins

Ellis Pins are specially engineered orthopaedic pins developed primarily for use in external skeletal fixation systems.

The defining characteristic of the Ellis Pin design is its short-threaded working tip. This specialized geometry is intended to optimize the balance between mechanical bone purchase and the structural behavior of the pin shaft.

SHORT-THREADED TIP

Greater Control. Better Balance. Enhanced Mechanical Reliability.

In conventional long-threaded pins, the transition between the threaded segment and the smooth shaft may create a critical region of stress concentration under mechanical loading.
The short-threaded tip geometry of Ellis Pins is based on the following biomechanical principle:

Shorter threaded segment → Controlled transition → More balanced load transfer

This design approach aims to reduce stress concentrations and potentially reduce the risk of pin breakage, particularly in external fixation constructs subjected to repetitive mechanical loading.

Clinical Applications

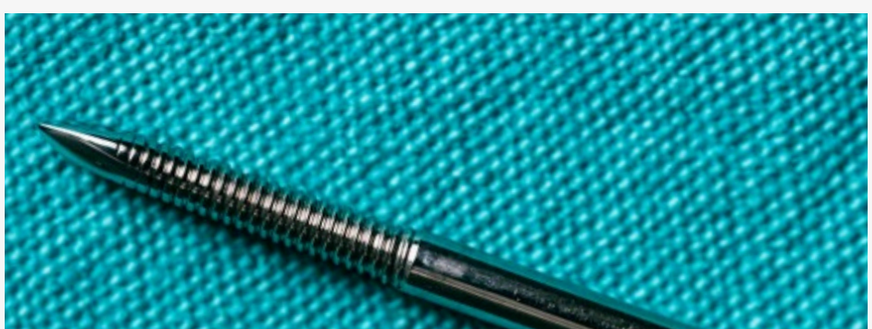
- External skeletal fixation systems
- Hybrid fixation constructs
- Multiplanar external fixation
- Complex fracture stabilization
- Segmental bone defects
- Periarticular fractures
- Long-term external fixation applications

The Ellis Pin Difference

- Short-threaded tip.
- Controlled load transfer.
- Biomechanically optimised pin geometry.



Engineering Biomechanics.



Surgical Pin Series

DIAMETER SELECTION GUIDE

Product	**Available Diameters**
Smooth Kirschner Wires	**0.8 / 1.0 / 1.2 / 1.5 / 1.8 / 2.0 mm**
Threaded Kirschner Wires	**1.5 / 1.8 / 2.0 mm**
Steinmann Pins	**2.5 / 3.0 / 3.5 / 4.0 mm**
Shanz Pins	**2.5 / 3.0 / 3.5 / 4.0 mm**
Ellis Pins	**Various diameter options depending on the Ortovet system**

THE ORTOVET PIN PHILOSOPHY

Not All Pins Are Created Equal.
The performance of an orthopaedic implant is not determined by its diameter alone.
Geometry, thread length, working length, bone purchase, and load transfer are fundamental parameters that influence the actual biomechanical behaviour of an implant.
The Ortovet Surgical Pin Series brings together different implant geometries within a comprehensive system, addressing a wide range of surgical requirements through a biomechanically driven design philosophy.

PRECISION - Kirschner Wires

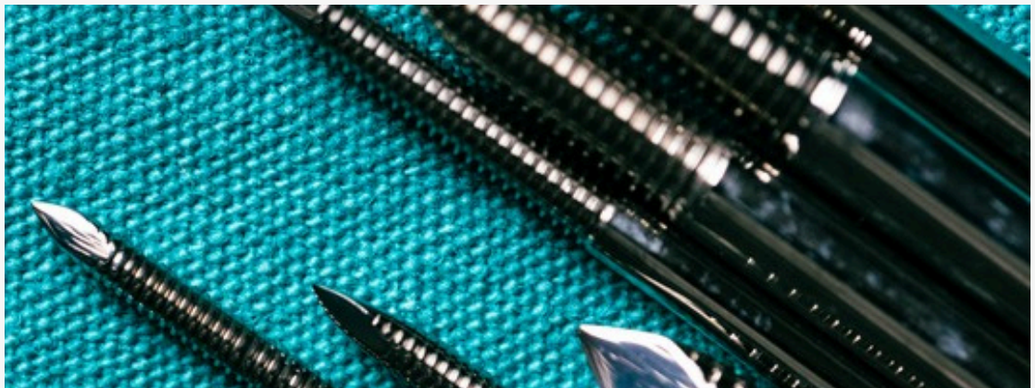
STRENGTH - Steinmann Pins

STABILIZATION - Schanz Pins

BIOMECHANICAL ENGINEERING - Ellis Pins

The right implant. The right biomechanical principles. Controlled surgical application.

The Ortovet Surgical Pin Series is designed to provide a reliable foundation for stabilisation in veterinary orthopaedic surgery.





The Engineering Behind Surgery.



product catalog

Clinical and Surgical Support Equipment
Surgical Instrument Sets
Orthopedic Plate and Screw Systems
External Fixation Systems / ESF Sets
Advanced Orthopedic Surgical Systems

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