



bio3Dtech  
veterinary engineering

PRODUCT  
CATALOGUE



For veterinary orthopaedics  
*special solutions!*

[www.bio3dtech.com](http://www.bio3dtech.com) | [contact@bio3dtech.com](mailto:contact@bio3dtech.com) | +30 6972 280655

# Our Sets

*While designing and manufacturing our sets, the hours we spend in the operating theatre and the meticulous work of our engineers come to life in our high-tech production facilities. Every detail is shaped by our experience and expertise in veterinary orthopaedics, while our sets are designed with a focus on minimally invasive techniques, rigid fixation and superior biocompatibility. Combining strength, safety and ease of use, these sets will give you peace of mind even in the most challenging cases.*

## Xs Set

*Cats and Miniature Breed Dogs*



## Mini Plus Set

*Cats and Small Breed Dogs*



## Midi Set

*Cats and Dogs between 5-15kg*



## Maxi Set

*Dogs 15kg and Over*



# Our Sets

*While designing and manufacturing our sets, the hours we spend in the operating theatre and the meticulous work of our engineers come to life in our high-tech production facilities. Every detail is shaped by our experience and expertise in veterinary orthopaedics, while our sets are designed with a focus on minimally invasive techniques, rigid fixation and superior biocompatibility. Combining strength, safety and ease of use, these sets will give you peace of mind even in the most challenging cases.*

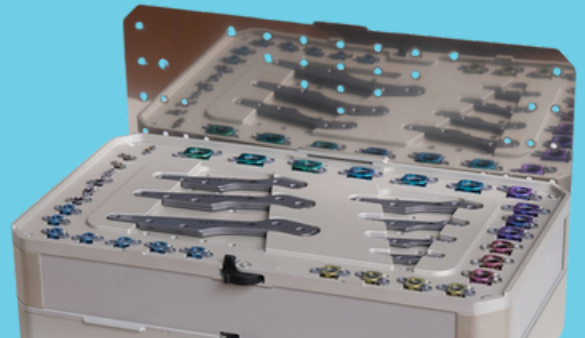
## XL Set

*Over 30kg Giant Breeds*



## TTA Set

*Patients with Cruciate Ligament*



## Vesta Set

*Vertebral Stabilisation*



## XS Set *Titanium*

Big solution  
*for little friends!*



The XS set of titanium plates and screws is designed to suit the delicate orthopedic needs of cats and toy breed dogs. A strong and minimally invasive solution for challenging cases such as distal radius and femur fractures. Set: 18 plates and 135 screws (90 locking, 45 non-locking). Maximum durability and confidence with the Bio healing series.

- 23 locking titanium plates
- 135 titanium screws
- Ergonomic screwdriver



- Strength and biocompatibility of titanium
- Design suitable for Mipo technique
- Special distal femur and distal radius plates



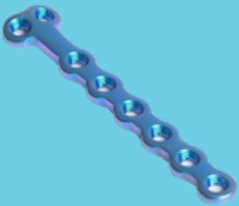
# XS SET

**Big solution** *for little friends!*



**The XS set of titanium plates and screws is designed to suit the delicate orthopedic needs of cats and toy breed dogs. A strong and minimally invasive solution for challenging cases such as distal radius and femur fractures. Set: 18 plates and 135 screws (90 locking, 45 non-locking). Maximum durability and confidence with the Bio healing series.**

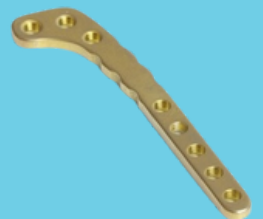
## T Plates



The T plates in this set are designed with two adjacent locking screw holes at the distal end. This feature is essential in cases such as distal radius fractures with short fracture fragments, where secure fixation with two adjacent locking screws is essential for stability and optimum healing. These plates provide a reliable solution for challenging orthopedic cases in small animals.

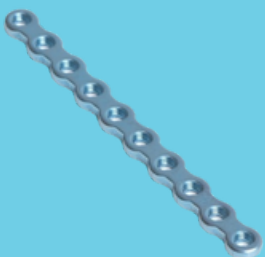
## Anatomical Femur Plate

Specifically designed for distal femur fractures and angular deformities, this plate is essential for the treatment of femoral malformations, the primary cause of patellar luxation in miniature breed dogs. Optimized for DFO (Distal Femoral Osteotomy) surgeries, it provides correct alignment and stable fixation for long-term results in difficult cases.



## XS Reconstruction Plate

When it is necessary to bend the plate for anatomical fit, reconstruction plates provide indispensable comfort. XS reconstruction plates offer both strength and ease of use, providing a versatile solution for complex orthopedic challenges without compromising durability.

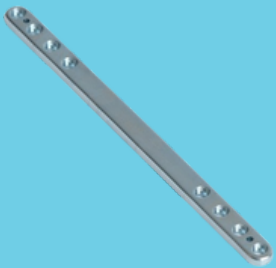


# XS SET

Big solution *for little friends!*



**The XS set of titanium plates and screws is designed to suit the delicate orthopedic needs of cats and toy breed dogs. A strong and minimally invasive solution for challenging cases such as distal radius and femur fractures. Set: 18 plates and 135 screws (90 locking, 45 non-locking). Maximum durability and confidence with the Bio healing series.**



## Bio Healing Plate

The strongest plates in this set, the bio-healing plates are designed for difficult fractures in long bones. Ideal for MIPO (Minimally Invasive Plate Osteosynthesis) procedures, these locking and bridging plates offer superior security and peace of mind in even the most challenging cases.

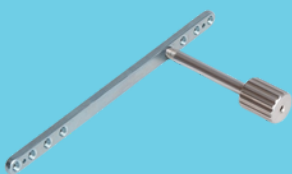
## Ergonomic Screwdriver

The set's screwdriver is designed to help you screw these small screws into the bone without using excessive force. It provides precise control while screwing and minimizes the risk of damage. A spare tip is also included for ease and reliability during surgeries.



## Locked Drill Guide

This set includes 1.5 mm screws and 1.2 mm drills. As screws and drills get smaller, manipulation becomes more difficult. To ensure correct drilling angles and reduce the risk of complications, the set features drill guides that lock into the plates. This allows for precise hole creation and more secure screw placement, making even delicate procedures more reliable.



## Mini Plus Set *Titanium*

## Perfect Solutions for *Cats and Small Breed Dogs!*



*The Mini Plus set is meticulously designed for cats and small breed dogs and offers versatile solutions for complex fractures.*

- 32 titanium plates of different types
- 200 titanium screws
- Strength and biocompatibility of titanium
- Ergonomic Screwdriver



- Special C plate for acetabular fractures
- Special angled plates for distal femur fractures
- Neutralisation and dynamic compression plates for long bone fractures
- Mouldable reconstruction plates for areas such as the pelvis and mandible



# Mini Plus Set

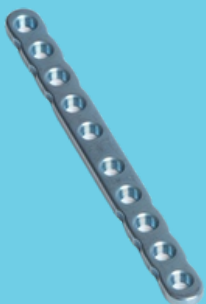
Small Implants, *Big Technologies!*



*The Mini Plus set has been meticulously designed for cats and small breed dogs and offers versatile solutions for complex fractures. The set includes;*

- 32 plates, 2 of which are cuttable,*
- 1.9 mm 80 locking screw,*
- A total of 200 titanium screws, 80 locking and 40 cortical, 2.0 mm*
  - Self-tapping technology for easy screwing*
  - Drill bits and locking guides for accurate drilling*
  - Ergonomic screwdriver for controlled use*
- Locking neutralization and dynamic compression plates for long bone fractures*
- Moldable reconstruction plates for pelvic and mandibular fractures*
- Adapted L plates for distal femur and humerus fractures*
- T plates for distal radius fractures*
- Acetabular plate for acetabular fractures*

*This set offers comprehensive solutions for orthopedics of little friends with precision and ease of use.*



## Mini Mipo Plates

These are the strongest plates in this set and are designed in accordance with the principle of minimally invasive plate application (mipo). These plates, which work with 2.0 mm locking screws, have an indispensable technology especially in femur and tibia fractures of small dogs and cats.

# Mini Plus Set

Small Implants, *Big Technologies!*



*The Mini Plus set is meticulously designed for cats and small breed dogs and offers versatile solutions for complex fractures.*

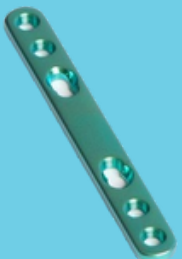
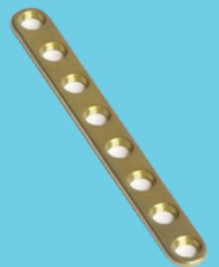


## Mini Reconstruction Plates

These plates are included in the set as 4-5-6-7 and 20-hole cuttable. They are available in two thicknesses. 1.2 mm and 1.6 mm. This plate, which you will prefer when it is necessary to shape the plate, provides you with comfort in pelvic fractures and mandible fractures. It works perfectly with 2.0 mm locking screws.

## Mini Tubular Plate

It is included in your set in two varieties, 1.2 and 1.6 mm thick. It is not as easy to shape as a reconstruction plate, but it is a little stronger. It works perfectly with 2.0 mm locking screws.



## LCP Plate

This high-tech plate is 1.6 mm thick and although it is not as strong as a mipo plate, it can both perform dynamic compression and is further strengthened with locking screws at the ends. This plate is preferred for humerus fractures and long bone fractures in very young cats and dogs. It works with 1.9 mm locking screws.

# Mini Plus Set

Small Implants, *Big Technologies!*

## T-Plate

This technological plate allows you to insert two locking screws side by side and you can also lock them at a slight angle. The two locking screw holes located side by side in the T section allow for angled screw locking. The remaining holes allow you to perform dynamic compression with either locking or non-locking screws. It is very useful for fractures such as distal radius in small dogs or proximal tibia in cats.



## Acetabular Plate

When the acetabulum is fractured, complete anatomic reduction is essential for joint health. This plate allows you to perform complete anatomic fixation in acetabular fractures in cats and small breed dogs. A dorsal surface reconstruction plate is also an option. Works perfectly with 1.9 mm locking screws.

## Angled Anatomical Long Plates

Femur fractures and especially supracondylar femur fractures are frequently encountered in cats. There are two alternatives in this set for these fractures, our angled long plate or our angled short plate. If you have a short fracture line and only a supracondylar femur fracture, the short plate will do the job, but if the fracture line is longer and more fragmented, then this long plate will take over.



## Mini Notched T Plate

You can put two screws side by side in this mini plate. You can easily change the screw directions by bending the plate thanks to the notch in the middle. It provides convenience in difficult places such as some ilium fractures and olecranon fractures in cats and small dogs.

# Mini Plus Set

Small Implants, *Big Technologies!*

## Angled Anatomical Short Plates

Femur fractures and especially supracondylar femur fractures are frequently encountered in cats. There are two alternatives in this set for these fractures, our angled long plate or our angled short plate. If you have a short fracture line and only a supracondylar femur fracture, this short plate will do the job perfectly. It helps with early mobilization in the post-operative period.

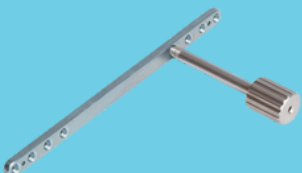


## Mini L Plate

With the Mini L plate, you have the opportunity to put one more screw either to the right or left. In this way, you will have a stronger resistance in difficult anatomical areas thanks to two locking screws and an angled plate instead of a single screw.

## Ergonomic Screwdriver

The set's screwdriver is designed to help you screw these small screws into the bone without using excessive force. It provides precise control while screwing and minimizes the risk of damage. A spare tip is also included for ease and reliability during surgeries.



## Locked Drill Guide

This set includes 1.9 and 2.0 mm screws and a 1.5 mm drill. As screws and drills get smaller, manipulation becomes more difficult. To ensure correct drilling angles and reduce the risk of complications, the set features drill guides that lock into the plates. This allows for precise hole creation and more secure screw placement, making even delicate procedures more reliable.

## Mid Set Titanium

## Professional solutions for patients *Weighing Between 5-15 Kg!*



The Midi set is designed for dogs weighing 5-15 kg and offers adaptability with plates that support both 2.4 mm and 2.7 mm screws. Containing 22 locking plates, this set allows precise fixation using the strength and biocompatibility of titanium. It supports locked or unlocked use for a variety of fractures with its combined hole and angled locking technology. It includes T plates for distal radius fractures, acetabular plates and easily moldable reconstruction plates for the pelvis and mandible, ideal for MIPO techniques, and provides strong fixation with minimal complications.

- 22 titanium plates
- 240 titanium screws
- Possibility to use 2.4 or 2.7 mm screws on all records



- Strength and biocompatibility of titanium
- Limited Contact technology
- Interlocking neutralisation and dynamic compression plates



# Mid Set

Professional solutions for patients

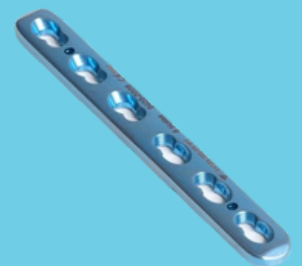
*Weighing Between 5-15 Kg!*



*The Midi set is designed for dogs weighing 5-15 kg and offers adaptability with plates that support both 2.4 mm and 2.7 mm screws. Containing 22 locking plates, this set allows precise fixation using the strength and biocompatibility of titanium. It supports locked or unlocked use for a variety of fractures with its combined hole and angled locking technology. It includes T plates for distal radius fractures, acetabular plates and easily moldable reconstruction plates for the pelvis and mandible, ideal for MIPO techniques, and provides strong fixation with minimal complications.*

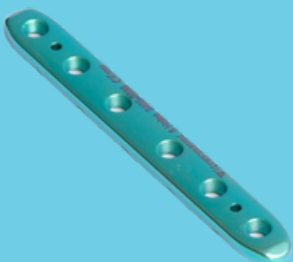
## LCP Plate

Comfort from technology. Whether you lock, perform dynamic compression or interfragmental compression. This plate, which you can use with either locking or non-locking screws, offers you a variety of use and strength. It is produced in accordance with the principle of minimally invasive plate osteosynthesis (Mipo).



## LC-LP Plate

The strongest plates in this set, the Limited Contact Locking Plates, are designed for difficult fractures in long bones. Ideal for MIPO (Minimally Invasive Plate Osteosynthesis) procedures, these locking plates are very strong if you use them with locking screws only. If you are not going to do dynamic compression or interfragmentary compression, they are a good competitor to the LCP plates.



# Mid Set

Professional solutions for patients *Weighing Between 5-15 Kg!*



## T-Plate



The T plates in this set are designed with two adjacent locking screw holes at the distal end. This feature is very important in cases such as distal radius fractures with short fracture fragments, where secure fixation with two side-by-side locking screws is essential for stability and optimum healing. Moreover, it is possible to lock these two side-by-side screws at a slight angle. You can choose 2.4 mm locking screws for the side-by-side screws, while using the rest as 2.7 mm.

## Tubular

Simplicity and strength from simplicity. They don't bend easily like reconstructions. They are made of a harder titanium and much stronger than them. You always want to have them on hand when you need them.



## Acetabular Plate



Acetabular fractures are classified as intra-articular fractures and full anatomic reduction is targeted. For this purpose, your greatest supporter is the acetabular plates. There are special slits under these plates to bend the holes as desired. Attaching reconstruction plates to the dorsal surface may also be an alternative.

# Mid Set

Professional solutions for patients *Weighing Between 5-15 Kg!*



## Reconstruction



Thanks to these flexible plates, you can bend your plate as you wish despite the changing anatomical contours. Flexibility will steal some of the strength of your plate, so we do not recommend it for long bone fractures. It will be very useful for pelvic fractures or mandible fractures.

## Locking Drill Guide

This set includes both 2.4 and 2.7 mm screws. Each drill has its own drill bit diameter and a locking drill guide. If your drill bit does not fit through the guide, you are probably using the wrong drill bit.



## Screwdriver

You can use the same screwdriver bit for 2.4 mm and 2.7 mm screws. Our locking screws have a torx head and for this, your screwdriver that fits perfectly with your screws is ready in your set. No need to worry about silicone handles, they are resistant to sterilization temperatures.



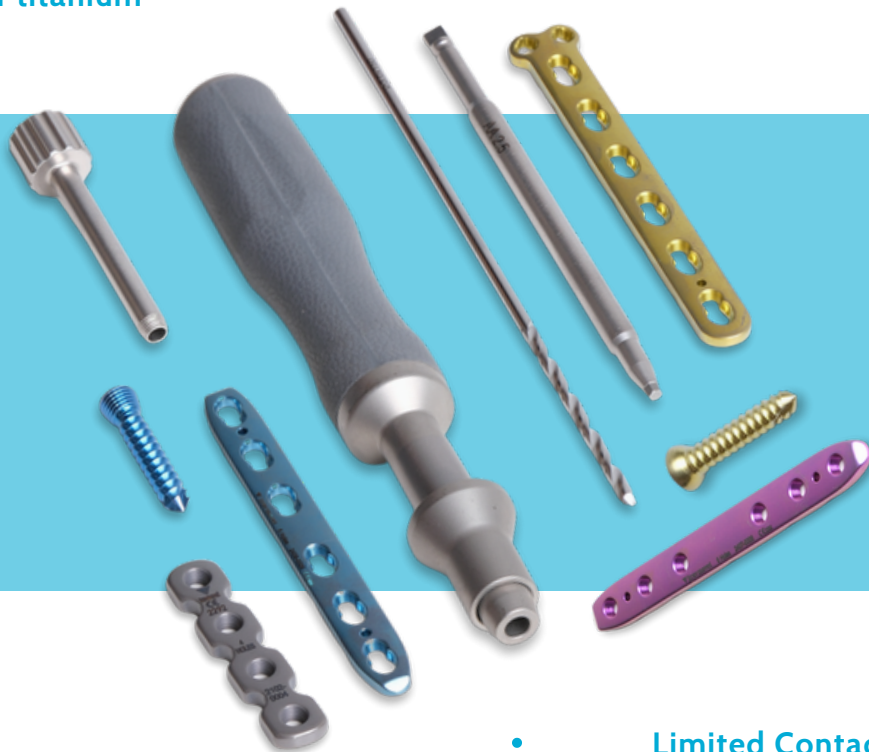
## Maxi Set Titanium

Perfect Solutions for  
*15 Kg and Above Dogs!*



The Maxi set includes 16 different plates and 120 titanium, self-tapping 3.5 mm screws that work with either locking or non locking screws. Designed for dogs over 15 kg. With titanium strength and biocompatibility, the set supports MIPO technique and includes advanced LCP combi-hole and multi-directional locking technologies. Provides secure fixation with limited contact plates, dynamic compression options and malleable reconstruction plates for complex pelvic and mandible fractures.

- 16 titanium plates
- 120 titanium screws
- Strength and biocompatibility of titanium

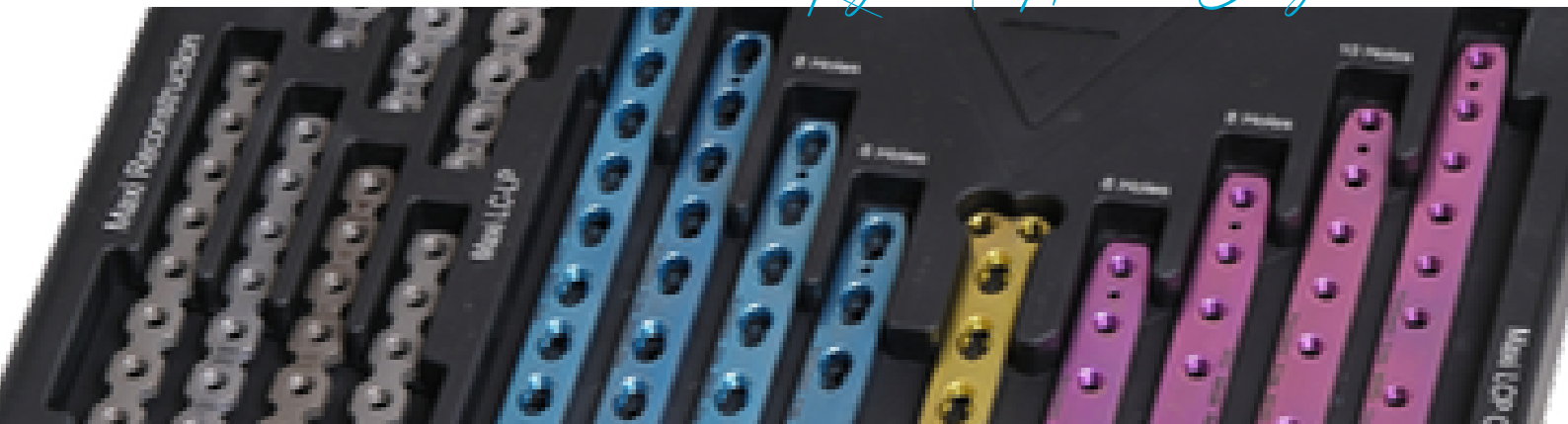


- Limited Contact technology
- Interlocking neutralisation and dynamic compression plates



# Maxi Set

Perfect Solutions for *15 Kg and Above Dogs!*



**The Maxi set includes 16 different plates and 120 titanium, self-tapping 3.5 mm screws that work with either locking or non-locking screws. Designed for dogs over 15 kg. With titanium strength and biocompatibility, the set supports MIPO techniques and includes advanced LCP combi-hole and multi-directional locking technologies. Provides secure fixation with limited contact plates, dynamic compression options and malleable reconstruction plates for complex pelvic and mandible fractures.**



## LCP Plak

Comfort from technology. Whether you lock, perform dynamic compression or interfragmental compression. This plate, which you can use with either locking or non-locking screws, offers you a variety of use and strength. It is produced in accordance with the principle of minimally invasive plate osteosynthesis (Mipo).

## LC-LP Plak

The strongest plates in this set, the Limited Contact Locking Plates, are designed for difficult fractures in long bones. Ideal for MIPO (Minimally Invasive Plate Osteosynthesis) procedures, these locking plates are very strong if you use them with locking screws only. If you are not going to do dynamic compression or interfragmentary compression, they are a good competitor to the LCP plates.



## T Plak

The T plates in this set are designed with two adjacent locking screw holes at the distal end. This feature is very important in cases such as distal radius fractures with short fracture fragments, where secure fixation with two adjacent locking screws is essential for stability and optimum healing. Moreover, it is possible to lock these two adjacent screws at a slight angle.

# Maxi Set

Perfect Solutions for *15 Kg and Above Dogs!*



## Reconstruction Plates



Thanks to these flexible plates, you can bend your plate as you wish despite the changing anatomical contours. Flexibility will steal some of the strength of your plate, so we do not recommend it for long bone fractures. It will be very useful for pelvic fractures or mandible fractures.

## Locking Drill Guide

It is very important to drill the correct hole for the correct screwing. Our locking drill guides are ready to drill the desired hole at the exact angle you want. Lock it into the hole on the plate like a screw and easily drill it with the drill by passing it through.



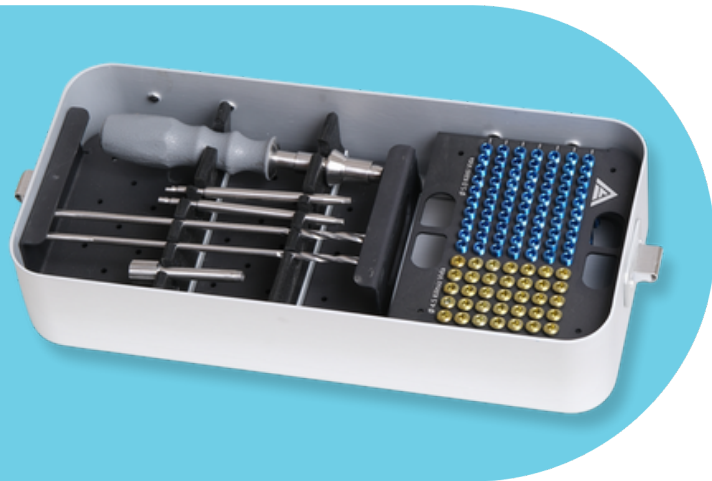
## Screwdriver

Don't forget that the screwdriver handle in your set also works with the bits in the midi set, you may need it. Don't worry about sterilization for this high heat resistant silicone handled screwdriver.



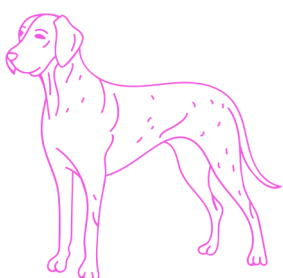
## X Large Set Titanium

## 30 Kg and Over Perfect Solutions *for Giant Breeds!*



Designed for dogs over 30 kg, the XL set is designed to easily handle long bone fractures in giant breeds. Featuring 4 narrow and 4 wide plates as well as 4.5 mm non-locking and 5.0 mm locking screws, this set provides maximum strength and flexibility. With its titanium durability, MIPO-compatible design and user-friendly tools, it provides secure, locked or unlocked fixation even in the most difficult situations.

- Eight narrow and wide design titanium plates
- 35 pcs 4.5 mm unlocked titanium screws
- 70 pcs 5.0 mm locking titanium screws
- Drill bits and taps



- Limited Contact technology
- Strength and biocompatibility of titanium
- Interlocking neutralisation and dynamic compression plates
- Maximum power at equal length with wide design plates

## 30 Kg and Over Perfect Solutions *for Giant Breeds!*



***Designed for dogs over 30 kg, the XL set is designed to easily handle long bone fractures in giant breeds. Featuring 4 narrow and 4 wide plates as well as 4.5 mm non-locking and 5.0 mm locking screws, this set provides maximum strength and flexibility. With its titanium durability, MIPO-compatible design and user-friendly tools, it provides secure, locked or unlocked fixation even in the most difficult situations.***

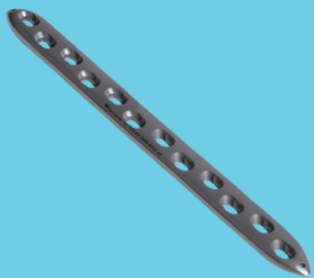
### LCP Narrow Plate

Comfort from technology. Whether you lock, perform dynamic compression or interfragmental compression. This plate, which you can use with either locking or non-locking screws, offers you a variety of use and strength together. It is produced in accordance with the principle of minimally invasive plate osteosynthesis (Mipo).



### LCP Broad Plate

The strongest plates in this set, the Limited Contact Locking Plates, are designed for difficult fractures in long bones. Ideal for MIPO (Minimally Invasive Plate Osteosynthesis) procedures, these locking plates are very strong if you use them with locking screws only. If you are not going to do dynamic compression or interfragmentary compression, they are a good competitor to the LCP plates.



## 30 Kg and Over Perfect Solutions *for Giant Breeds!*



***Designed for dogs over 30 kg, the XL set is designed to easily handle long bone fractures in giant breeds. Featuring 4 narrow and 4 wide plates as well as 4.5 mm non-locking and 5.0 mm locking screws, this set provides maximum strength and flexibility. With its titanium durability, MIPO-compatible design and user-friendly tools, it provides secure, locked or unlocked fixation even in the most difficult situations.***

### Locking Drill Guide

It is very important to drill the correct hole for the correct screwing. Our locking drill guides are ready to drill the desired hole at the exact angle you want. Lock it into the hole on the plate like a screw and easily drill it with the drill by passing it through.

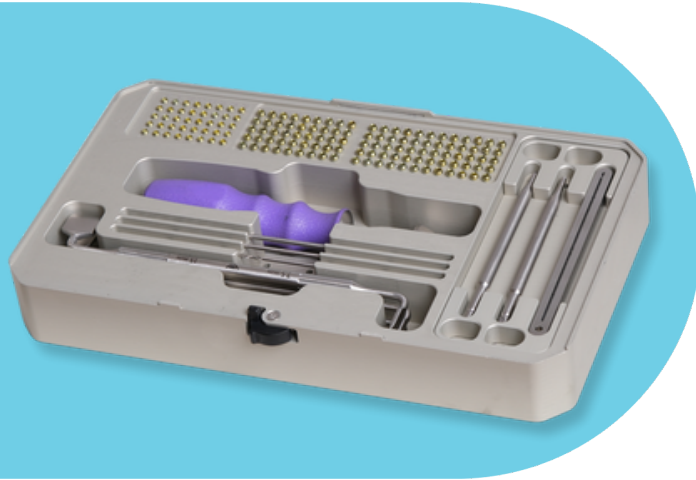


### Screwdriver

Don't forget that the screwdriver handle in your set also works with the bits in the midi and maxi sets, you may need it. Don't worry about sterilization for this high heat resistant silicone handled screwdriver.

## TTA Set *Titanium*

## Perfect Solutions for *Cruciate Ligament Ruptures!*



Our specially designed TTA (Tibial Tuberosity Advancement) set provides a comprehensive solution for treating anterior cruciate ligament (CrCL) disease in dogs. The set includes 31 cages from 3 mm to 15 mm in diameter in 1.5 mm increments for precise customization. It also includes 14 plates in 7 variations, 145 self-tapping screws, drill bits, saw guides and separators for precise post-incision advancement. Special spacers for patients with medial patellar luxation.

- 14 plates in 7 varieties
- 31 cages
- 145 titanium screws
- Drill bits and taps



- Perfect cut with saw guide
- Lateralisation of the tibial crest with a spacer
- Millimetric and uncomplicated separation with separators

# TTA Set

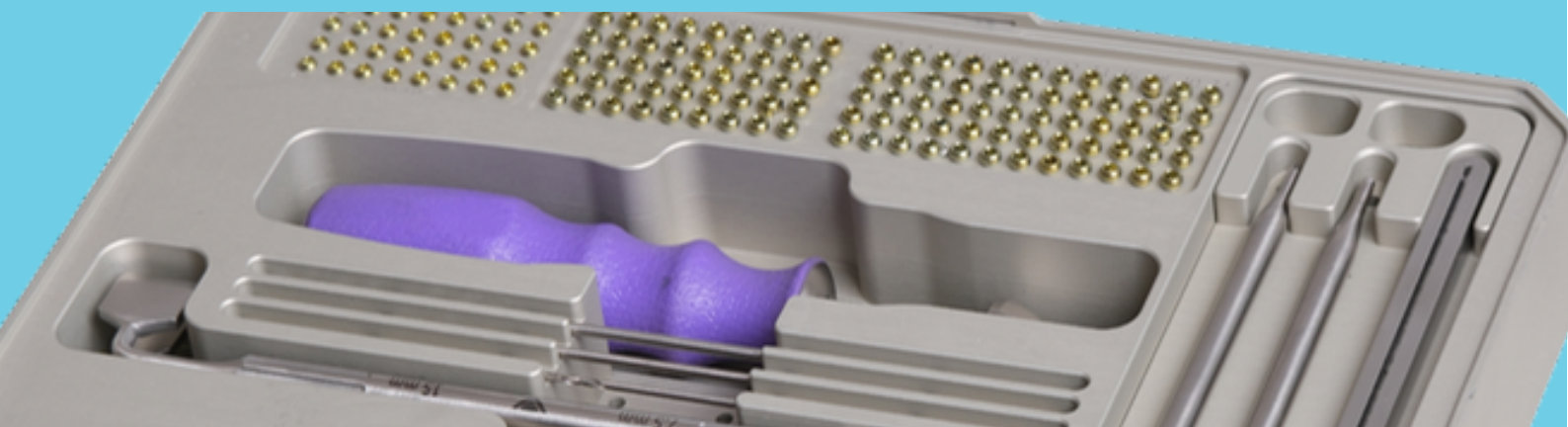
Travamvet TTA periodin anterior

*Cruciate Ligament Disease!*



Our specially designed TTA (Tibial Tuberosity Advancement) set provides a comprehensive solution for treating anterior cruciate ligament (CrCL) disease in dogs. The set includes 31 cages from 3 mm to 15 mm in diameter in 1.5 mm increments for precise customization. It also includes 14 plates in 7 variations, 145 self-tapping screws, drill bits, saw guides and separators for precise post-incision advancement. Special spacers for patients with medial patellar luxation.

## Powerful instrumentation



Instrumentation is very important for a complication-free TTA surgery. A correct and flawless incision is essential for the problem-free placement of the cage. For this, there is a saw guide in your set. Your job is now easier with separators that allow you to advance the cut piece carefully and gradually as much as you want.

# TTA Set

Travamvet TTA periodin anterior

*Cruciate Ligament Disease!*



## Cage



Thanks to the high biocompatible titanium cages, the cut bone fills quickly. The ears are movable and you can position them. It works with lockless screws so you can take an angled path. With 3 - 4.5 - 6 - 7.5 - 9 - 10.5 - 12 - 13.5 and 15 mm cages, the cage you want is right at your fingertips.

## TTA Plate

It is ready in the set in 7 different sizes, both right and left. These strong plates reduce complications and work with spacers in moving the tibial tuberosity to the median line.



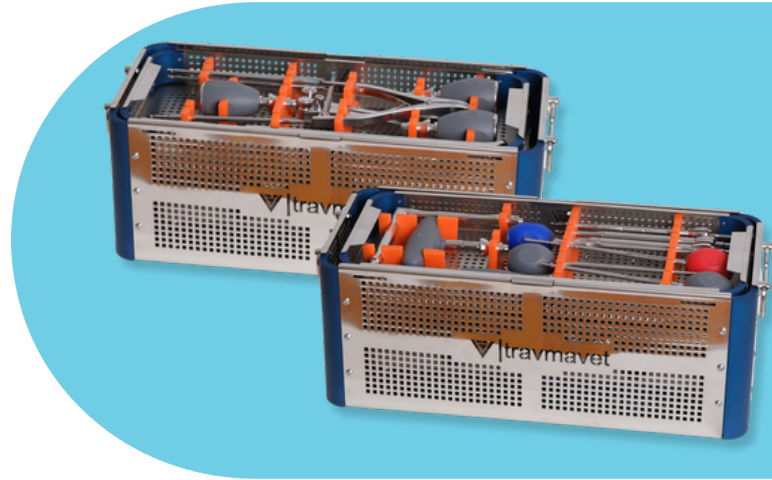
## Spacer



Especially in small breed dogs, cruciate ligament disease can occur together with medial patellar luxation. In order to be able to handle both in a single session, spacers that will help you move the tibia tuberositas both forward and in the median line are ready in your set. Remember, you can support this spacer with your TTA plate in advanced deformities.

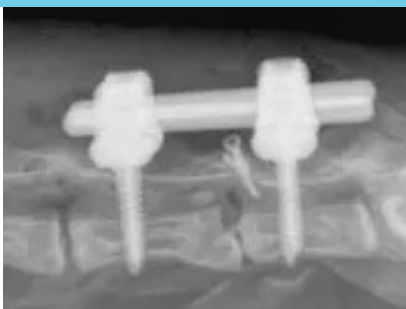
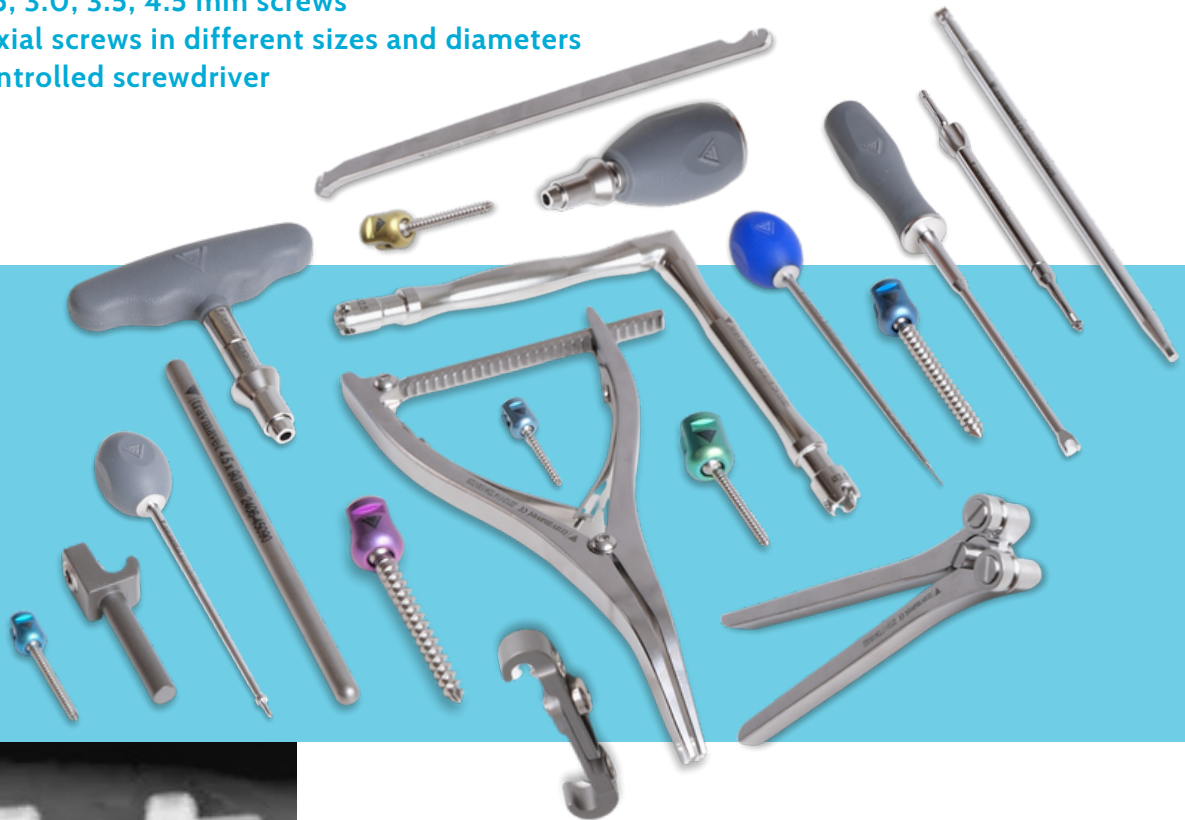
# Vesta Titanium

## Perfect Solutions for *Spine Stabilization!*



*The most difficult operations will now be easy. Vesta set with poly axial screws, rods and connection equipments started a new era in spine stabilisation. The Vesta set has the smallest diameter screws and tulips in this field thanks to its 1.6 mm screws, making it unrivalled in its class.*

- 1.6, 2.0, 2.5, 3.0, 3.5, 4.5 mm screws
- 184 poly axial screws in different sizes and diameters
- Torque-controlled screwdriver



- Full set content
- Excellent choice for vertebral fractures and spinal stabilisation
- Unrivalled stability with locking titanium rod system
- High-level design features for application security

# Vesta

## *Vertebral Stabilization!*



*The Vesta Vertebral Stabilization Set is designed for precise and reliable stabilization of spinal fractures in both small and large animals. This high-tech set includes multi-axis screws, rods, connection equipment and all necessary hand tools for a trouble-free surgical procedure. With six screw diameters ranging from 1.6 mm to 4.5 mm, the set can be adapted to every patient from kittens to large dogs, ensuring you are always prepared for surgery. Offering exceptional safety and minimal complications, Vesta is the preferred solution for advanced vertebral stabilization.*

### Powerful instrumentation



This set requires different instruments than conventional hand tools. With each instrument, you will experience both convenience and comfort and a state-of-the-art operation process.

# Vesta

## *Vertebral Stabilization!*



### Polyaxial

A new era has begun in spine stabilization. It offers an up-to-date solution with polyaxial screws and connecting rods. It is one of the sets with the smallest diameter screws in the world with its 1.6 mm screws. It offers solutions in a wide range of areas with its 1.6 - 2.0 - 2.5 - 3.0 - 3.5 - 4.5 mm diameter screws.

### Powerful instrumentation

It adds value to your surgery with instruments such as distractor and anti-torque. Your set has a unique technology with rod pusher, distractor, rod bender, anti-torque, in-stud bender, special screwdriver bits, torque limited final tightening screwdrivers.



### Implant

Rods, extension equipment, lateral connection apparatus and all implants are in a separate container. It is tidy to keep everything together and always ready for every surgery.



PRODUCT CATALOGUE

2025



bio3Dtech

veterinary engineering