

**SurgX**

# Interlocking Nail catalog



Securos Surgical®



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# ANATOMIC ANGLE STABLE INTERLOCKING NAIL SYSTEM

Osteosynthesis of long bone fractures for small animals

## INTRODUCTION

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### SCIENTIFIC PARTNERS

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We develop our products for and with vets. It is essential for us to involve veterinarians in our projects throughout the development process, from the definition of user needs to clinical evaluation, in order to assess the biomechanical and clinical performance of our implants and the ergonomics of our instruments using a scientific approach and under the supervision of clinicians before they are marketed.

To do this, Surg'X has surrounded itself with a team of 7 French vets, specialists in orthopedic surgery and opinion leaders, from 6 different veterinary institutions (Faculties and Veterinary Hospitals). Surg'X interlocking nail is the result of close collaboration between engineers and clinical experts.

### PILOT CLINICAL STUDY

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The quality of the products we market and the safety of pets are among our fundamental values. Following pre-clinical trials, we systematically evaluate product performance through a multi-center pilot clinical study.

Surg'X Interlocking Nail System was evaluated in 6 evaluation centers, which successfully performed almost 100 surgeries on all sizes of cat and dog, on all types of long bones (tibia, femur and humerus), on all types of fracture, from simple to the most complex (comminuted non-reducible, epiphyseal), on 1st intention or revision cases of plate constructs, and using different techniques (ORIF, OBDNT and MINO).

You will find some examples of X-rays of these cases in the "Clinical cases" section.

## TEAM OF VETERINARY SURGEONS DESIGNING AND EVALUATING THE SYSTEM

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## SYSTEM OVERVIEW

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### FEATURES AND BENEFITS

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**Surg'X offers the first angle-stable, anatomical titanium veterinary interlocking nail for the treatment of long bone fractures in small animals.**

Interlocking nails are the gold standard in human long-bone trauma, thanks to their biological and mechanical advantages over plates. Their intramedullary insertion, which is particularly suited to minimally invasive approaches, preserves soft tissues and vascularization of the periosteum. The mechanical resistance in compression, bending and torsion of an interlocking nail construct, which is much greater than that of a locking plate, is particularly interesting in the treatment of comminuted fractures. However, their use in dogs and cats has not yet been widespread due to the technological limitations of the products previously available to the veterinary segment.

#### **Innovative design**

Surg'X system incorporates technical features hitherto reserved for human surgery :

- Anatomical curved nail
- Titanium alloy implants
- Advanced multi-planar locking system
- Cannulated nail

#### **Complete line of implants**

- Nails  $\varnothing$  3.5 / 4.0 / 5.0 / 6.0 / 8.0mm, length 70 – 234mm
- Screws :  $\varnothing$  2.0 / 2.5 / 3.0 / 3.5, length 10 – 48mm

## ANATOMICAL CURVATURE



**Unique patented radius of curvature, adapted to the natural curvature of long bones in cats and dogs**

Restoring the anatomical profile of bones

Tibia :

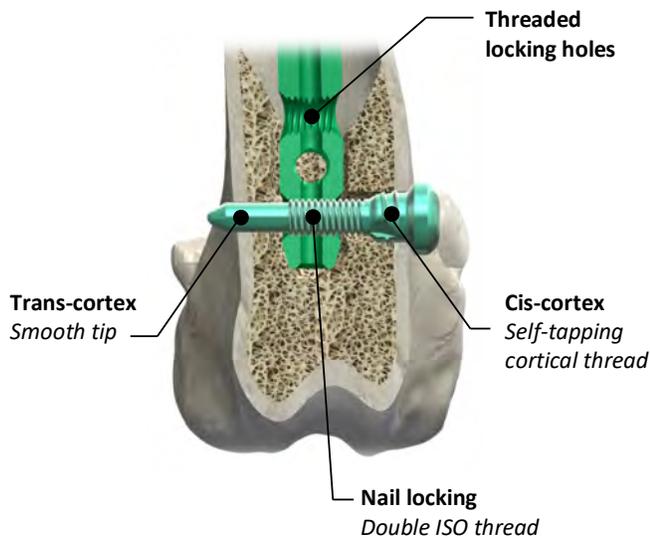
- avoids conflicts with the insertion of the cranial cruciate ligament thanks to a more cranial insertion,
- avoids over-reduction and increased tibial slope

Femur :

- allows more distal anchoring without compromising the restoration of the anatomical profile,
- wider range of indications for distal epiphyseal fractures

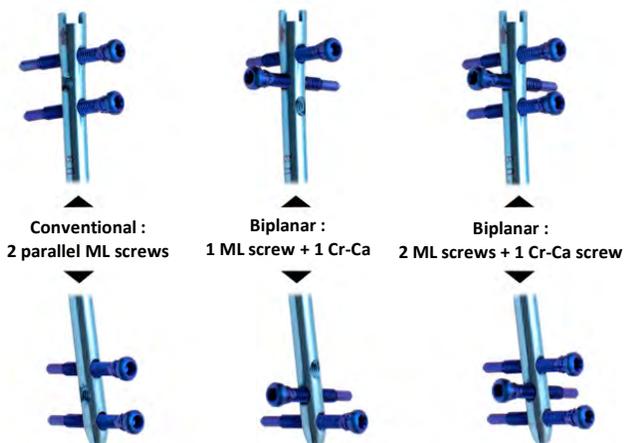
Improved bone/implant contact surface

## VERSATILE ADVANCED LOCKING SYSTEM



**Angle stable locking system**

- Threaded locking holes
- Cis-cortex self-tapping cortical thread



**Multiple locking options thanks to multi-planar locking holes at each end :**

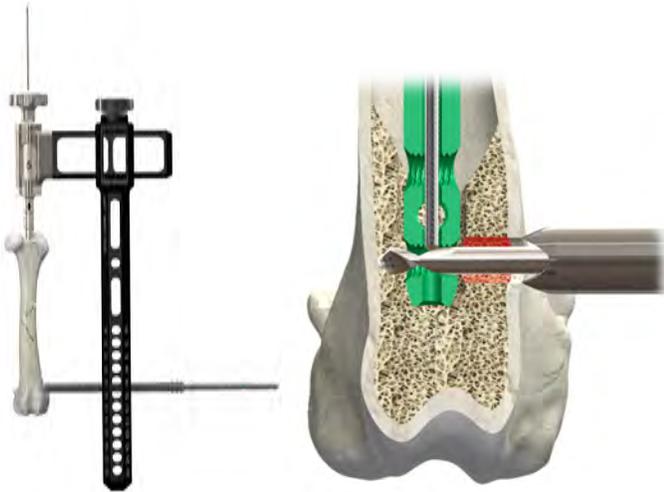
- 2 parallel ML holes
- 1 orthogonal cranio-caudal hole

**Better adaptation of screw position to fracture configuration**

**Improved stability/mechanical strength**

**Locking holes closer to the ends :** indications extended to metaphyseal and even epiphyseal fractures

## CANULATION OF THE NAIL



- Enables the nail to be inserted onto a guide wire through the distal fragment using a minimally invasive approach.
- **Peroperative control of locking:** placement of drill bits or screws detected with the guide wire, without the need for fluoroscopy.

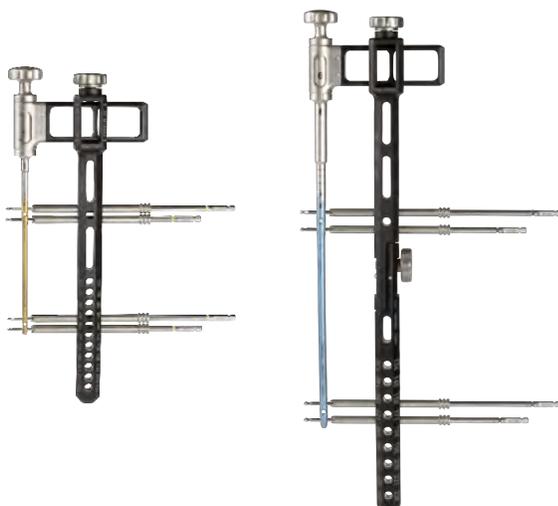
## IMPLANTS LINE



Wide range of implants to suit all sizes of cats and dogs, from 2.5kg to over 60kg.

- **Cats & small dogs set :**
  - Nails Ø3.5 Lg 70 – 142mm
  - Nails Ø4.0 Lg 78 – 142mm
  - Nails Ø5.0 Lg 94 – 150mm
- **Medium & large dogs set :**
  - Nails Ø5.0 Lg 134 – 196.5mm
  - Nails Ø6.0 Lg 134 – 221mm
  - Nails Ø8.0 Lg 146.5 – 234mm

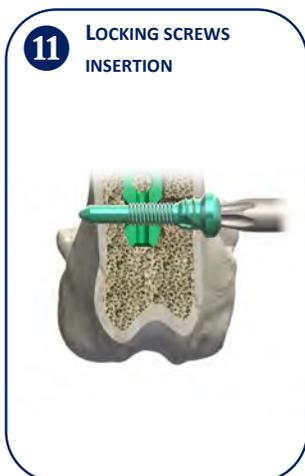
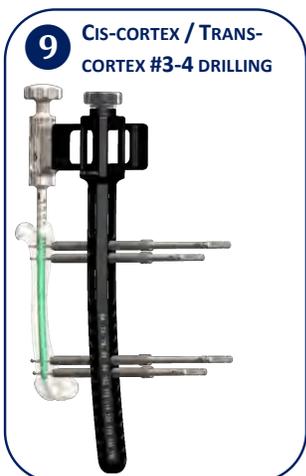
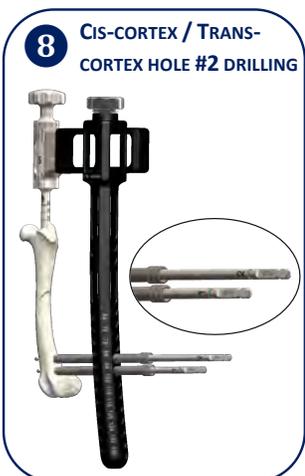
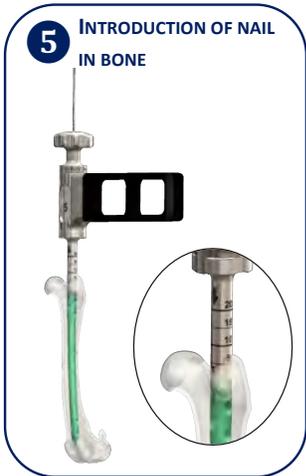
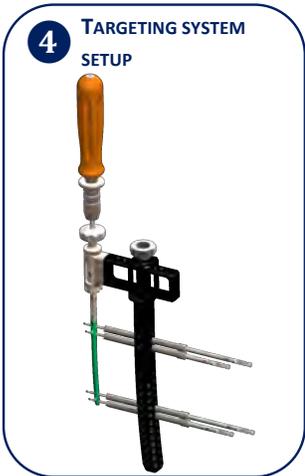
## SURGICAL INSTRUMENTATION



### Key advantages of the system :

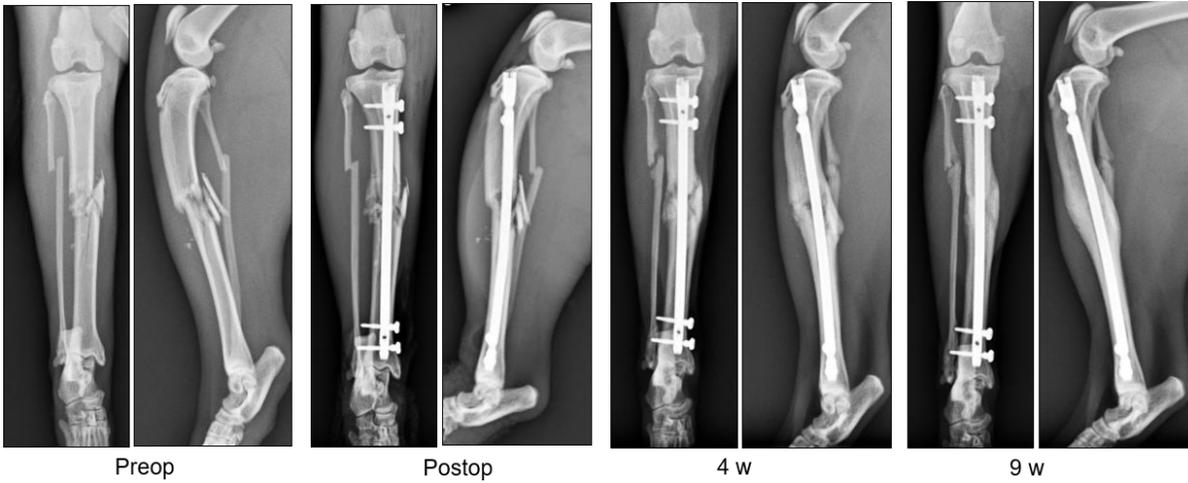
- Common platform of instruments between the 2 sets, reducing complexity and inventory
- Unique peroperative locking control system, thanks to cannulation of the nail
- Aiming system enabling locking screws to be placed in 2 perpendicular planes.
- Compatible with minimally invasive techniques
- Common color code for implants and instruments
- Intuitive arrangement of instruments in sterilization boxes

# SUMMARY OF SURGICAL TECHNIQUE



# CLINICAL CASES

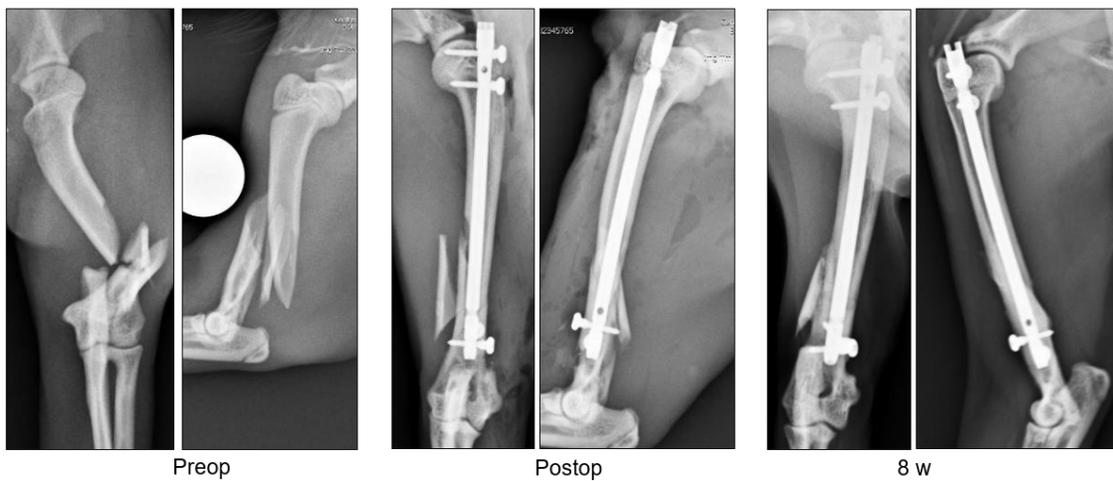
## EUROPEAN CAT, 1 Y.O., 4.7 KG



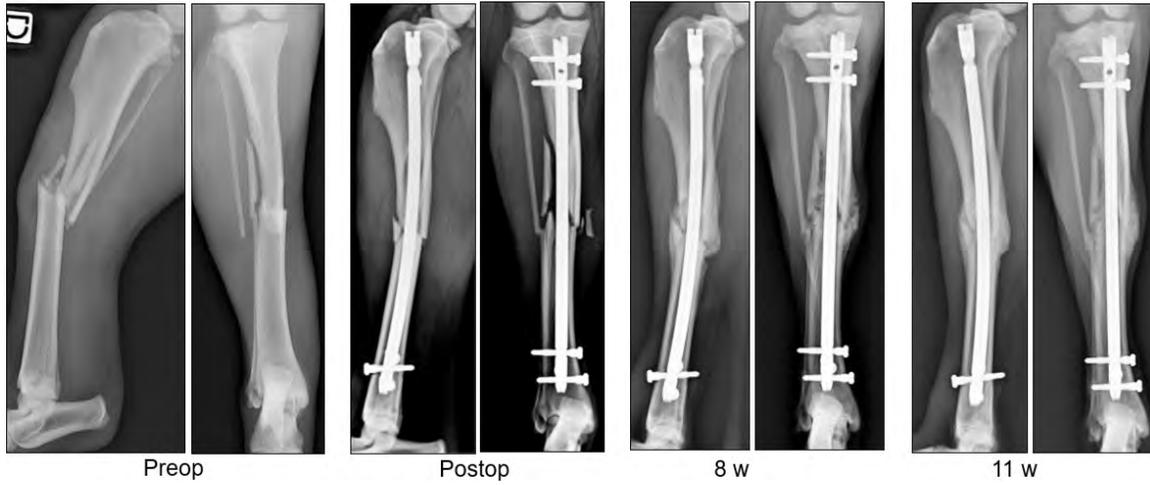
## EUROPEAN CAT, 5 Y.O., 6.2 KG



## EUROPEAN CAT, 1.2 Y.O., 4.3 KG



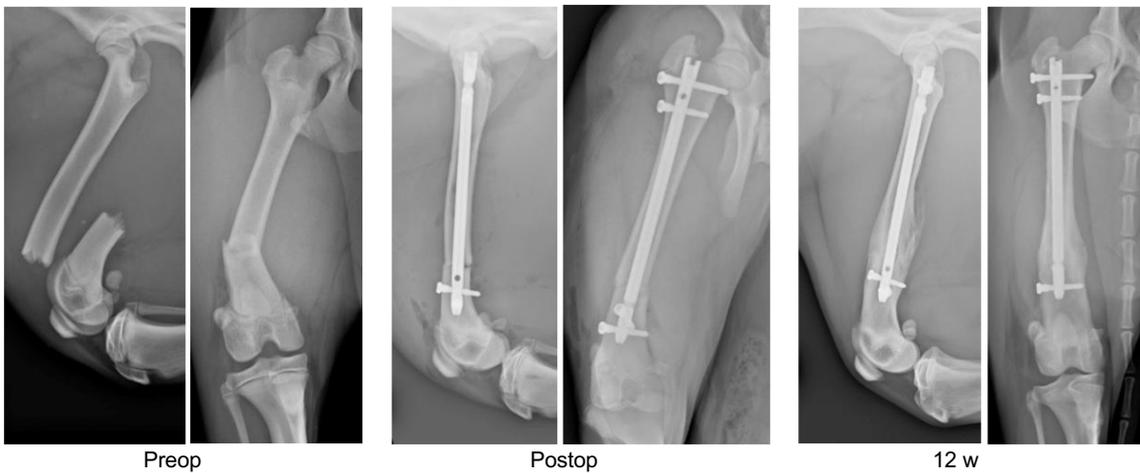
**GROENENDAL, 4.5 Y.O., 25 KG**



**BERNESE MOUNTAIN DOG, 3 Y.O., 40 KG**



**LABRADOR RETRIEVER, 6 MO, 21 KG**



## Interlocking Nails

### Interlocking Nail Ø3.5

*Cats & Small Dogs Set*



Code	Description
IM000209	Interlocking Nail Ø3.5 Lg 70mm
IM000210	Interlocking Nail Ø3.5 Lg 78mm
IM000211	Interlocking Nail Ø3.5 Lg 86mm
IM000212	Interlocking Nail Ø3.5 Lg 94mm
IM000213	Interlocking Nail Ø3.5 Lg 102mm
IM000214	Interlocking Nail Ø3.5 Lg 110mm
IM000215	Interlocking Nail Ø3.5 Lg 118mm
IM000216	Interlocking Nail Ø3.5 Lg 126mm
IM000217	Interlocking Nail Ø3.5 Lg 134mm
IM000218	Interlocking Nail Ø3.5 Lg 142mm

### Interlocking Nail Ø4.0

*Cats & Small Dogs Set*



Code	Description
IM000220	Interlocking Nail Ø4.0 Lg 78mm
IM000221	Interlocking Nail Ø4.0 Lg 86mm
IM000222	Interlocking Nail Ø4.0 Lg 94mm
IM000223	Interlocking Nail Ø4.0 Lg 102mm
IM000224	Interlocking Nail Ø4.0 Lg 110mm
IM000225	Interlocking Nail Ø4.0 Lg 118mm
IM000226	Interlocking Nail Ø4.0 Lg 126mm
IM000227	Interlocking Nail Ø4.0 Lg 134mm
IM000228	Interlocking Nail Ø4.0 Lg 142mm

### Interlocking Nail Ø5.0

*Cats & Small Dogs Set*



Code	Description
IM000231	Interlocking Nail Ø5.0 Lg 94mm
IM000232	Interlocking Nail Ø5.0 Lg 102mm
IM000233	Interlocking Nail Ø5.0 Lg 110mm
IM000234	Interlocking Nail Ø5.0 Lg 118mm
IM000235	Interlocking Nail Ø5.0 Lg 126mm
IM000236	Interlocking Nail Ø5.0 Lg 134mm
IM000237	Interlocking Nail Ø5.0 Lg 142mm
IM000238	Interlocking Nail Ø5.0 Lg 150mm

**Interlocking Nail Ø5.0**  
*Medium & Large Dogs Set*



Code	Description
IM000241*	Interlocking Nail Ø5.0 Lg 134mm
IM000242*	Interlocking Nail Ø5.0 Lg 146,5mm
IM000243	Interlocking Nail Ø5.0 Lg 159mm
IM000244	Interlocking Nail Ø5.0 Lg 171,5mm
IM000245	Interlocking Nail Ø5.0 Lg 184mm
IM000246	Interlocking Nail Ø5.0 Lg 196,5mm

*\* Sizes available only for owners of a medium & large dog implant set*

**Interlocking Nail Ø6.0**  
*Medium & Large Dogs Set*



Code	Description
IM000251	Interlocking Nail Ø6.0 Lg 134mm
IM000252	Interlocking Nail Ø6.0 Lg 146,5mm
IM000253	Interlocking Nail Ø6.0 Lg 159mm
IM000254	Interlocking Nail Ø6.0 Lg 171,5mm
IM000255	Interlocking Nail Ø6.0 Lg 184mm
IM000256	Interlocking Nail Ø6.0 Lg 196,5mm
IM000257	Interlocking Nail Ø6.0 Lg 209mm
IM000258	Interlocking Nail Ø6.0 Lg 221,5mm

**Interlocking Nail Ø8.0**  
*Medium & Large Dogs Set*



Code	Description
IM000272	Interlocking Nail Ø8.0 Lg 146,5mm
IM000273	Interlocking Nail Ø8.0 Lg 159mm
IM000274	Interlocking Nail Ø8.0 Lg 171,5mm
IM000275	Interlocking Nail Ø8.0 Lg 184mm
IM000276	Interlocking Nail Ø8.0 Lg 196,5mm
IM000277	Interlocking Nail Ø8.0 Lg 209mm
IM000278	Interlocking Nail Ø8.0 Lg 221,5mm
IM000279	Interlocking Nail Ø8.0 Lg 234mm

## Locking Screws

### Locking screw $\varnothing 2.0$

Compatible with Interlocking Nail  $\varnothing 3.5$



Code	Description
IM000610	Locking screw $\varnothing 2.0$ Lg 10mm
IM000612	Locking screw $\varnothing 2.0$ Lg 12mm
IM000614	Locking screw $\varnothing 2.0$ Lg 14mm
IM000616	Locking screw $\varnothing 2.0$ Lg 16mm
IM000618	Locking screw $\varnothing 2.0$ Lg 18mm
IM000620	Locking screw $\varnothing 2.0$ Lg 20mm

### Locking screw $\varnothing 2.5$

Compatible with Interlocking Nail  $\varnothing 4.0$



Code	Description
IM000712	Locking screw $\varnothing 2.5$ Lg 12mm
IM000714	Locking screw $\varnothing 2.5$ Lg 14mm
IM000716	Locking screw $\varnothing 2.5$ Lg 16mm
IM000718	Locking screw $\varnothing 2.5$ Lg 18mm
IM000720	Locking screw $\varnothing 2.5$ Lg 20mm
IM000722	Locking screw $\varnothing 2.5$ Lg 22mm
IM000724	Locking screw $\varnothing 2.5$ Lg 24mm
IM000726	Locking screw $\varnothing 2.5$ Lg 26mm

### Locking screw $\varnothing 3.0$

Compatible with Interlocking Nail  $\varnothing 5.0$



Code	Description
IM000814	Locking screw $\varnothing 3.0$ Lg 14mm
IM000816	Locking screw $\varnothing 3.0$ Lg 16mm
IM000818	Locking screw $\varnothing 3.0$ Lg 18mm
IM000820	Locking screw $\varnothing 3.0$ Lg 20mm
IM000822	Locking screw $\varnothing 3.0$ Lg 22mm
IM000824	Locking screw $\varnothing 3.0$ Lg 24mm
IM000826	Locking screw $\varnothing 3.0$ Lg 26mm
IM000828	Locking screw $\varnothing 3.0$ Lg 28mm
IM000830	Locking screw $\varnothing 3.0$ Lg 30mm
IM000832	Locking screw $\varnothing 3.0$ Lg 32mm
IM000834	Locking screw $\varnothing 3.0$ Lg 34mm
IM000836	Locking screw $\varnothing 3.0$ Lg 36mm

## Locking screw Ø3.5

Compatible with Interlocking Nail Ø6.0 / 8.0



Code	Description
IM000916	Locking screw Ø3.5 Lg 16mm
IM000918	Locking screw Ø3.5 Lg 18mm
IM000920	Locking screw Ø3.5 Lg 20mm
IM000922	Locking screw Ø3.5 Lg 22mm
IM000924	Locking screw Ø3.5 Lg 24mm
IM000926	Locking screw Ø3.5 Lg 26mm
IM000928	Locking screw Ø3.5 Lg 28mm
IM000930	Locking screw Ø3.5 Lg 30mm
IM000932	Locking screw Ø3.5 Lg 32mm
IM000934	Locking screw Ø3.5 Lg 34mm
IM000936	Locking screw Ø3.5 Lg 36mm
IM000938	Locking screw Ø3.5 Lg 38mm
IM000940	Locking screw Ø3.5 Lg 40mm
IM000942	Locking screw Ø3.5 Lg 42mm
IM000945	Locking screw Ø3.5 Lg 45mm
IM000948	Locking screw Ø3.5 Lg 48mm



## Bolts

Bolts are not proposed as a main locking method, but as an emergency solution in the event of difficulty in locking a screw (seizing, etc.).

### Bolt Ø2.0

Compatible with Interlocking Nail Ø3.5



Code	Description
IM001010	Bolt Ø2.0 Lg 10mm
IM001012	Bolt Ø2.0 Lg 12mm
IM001014	Bolt Ø2.0 Lg 14mm
IM001016	Bolt Ø2.0 Lg 16mm
IM001018	Bolt Ø2.0 Lg 18mm
IM001020	Bolt Ø2.0 Lg 20mm

### Bolt Ø2.5

Compatible with Interlocking Nail Ø4.0



Code	Description
IM001112	Bolt Ø2.5 Lg 12mm
IM001114	Bolt Ø2.5 Lg 14mm
IM001116	Bolt Ø2.5 Lg 16mm
IM001118	Bolt Ø2.5 Lg 18mm
IM001120	Bolt Ø2.5 Lg 20mm
IM001122	Bolt Ø2.5 Lg 22mm
IM001124	Bolt Ø2.5 Lg 24mm
IM001126	Bolt Ø2.5 Lg 26mm

### Bolt Ø3.0

Compatible with Interlocking Nail Ø5.0



Code	Description
IM001214	Bolt Ø3.0 Lg 14mm
IM001216	Bolt Ø3.0 Lg 16mm
IM001218	Bolt Ø3.0 Lg 18mm
IM001220	Bolt Ø3.0 Lg 20mm
IM001222	Bolt Ø3.0 Lg 22mm
IM001224	Bolt Ø3.0 Lg 24mm
IM001226	Bolt Ø3.0 Lg 26mm
IM001228	Bolt Ø3.0 Lg 28mm
IM001230	Bolt Ø3.0 Lg 30mm
IM001232	Bolt Ø3.0 Lg 32mm
IM001234	Bolt Ø3.0 Lg 34mm
IM001236	Bolt Ø3.0 Lg 36mm

**Bolt Ø3.5***Compatible with Interlocking Nail Ø6.0 / 8.0*

Code	Description
IM001316	Bolt Ø3.5 Lg 16mm
IM001318	Bolt Ø3.5 Lg 18mm
IM001320	Bolt Ø3.5 Lg 20mm
IM001322	Bolt Ø3.5 Lg 22mm
IM001324	Bolt Ø3.5 Lg 24mm
IM001326	Bolt Ø3.5 Lg 26mm
IM001328	Bolt Ø3.5 Lg 28mm
IM001330	Bolt Ø3.5 Lg 30mm
IM001332	Bolt Ø3.5 Lg 32mm
IM001334	Bolt Ø3.5 Lg 34mm
IM001336	Bolt Ø3.5 Lg 36mm
IM001338	Bolt Ø3.5 Lg 38mm
IM001340	Bolt Ø3.5 Lg 40mm
IM001342	Bolt Ø3.5 Lg 42mm
IM001345	Bolt Ø3.5 Lg 45mm
IM001348	Bolt Ø3.5 Lg 48mm

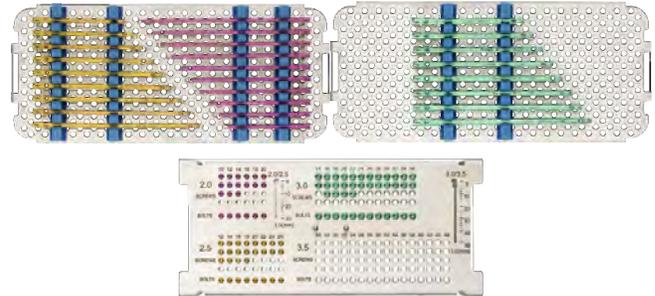
# IMPLANT & INSTRUMENT SETS

## Cats & Small Dogs Set

Nails Ø3.5 – 4 – 5s

### Implant Set

- « Full » set with 27 nail sizes available
- « Starter » set with 18 most commonly used nail sizes included
- 63 locking screws (2 to 3 per size)
- 26 bolts (1 per size)
- 3 sterilization containers, 2 modular trays and 1 screw rack



Nails

Ø	70	78	86	94	102	110	118	126	134	142	150
3.5	●	●	●	●	●	●	○	○	○	○	
4.0		○	●	●	●	●	○	○	○	○	
5.0				●	●	●	●	●	●	●	●

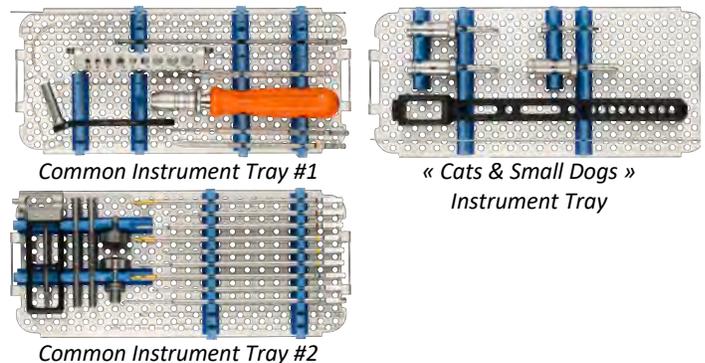
Screws - Bolts

Ø	Lg
2.0	10 – 20mm
2.5	12 – 26mm
3.0	14 - 36mm

● Sizes included in « Starter » set    ○ Additional sizes in « Full » set

### Instrument Set

- 41 Instruments for nails 3.5 / 4 / 5
- 2 common instrument trays
- 1 Cats & Small Dogs instrument tray
- 2 sterilization containers

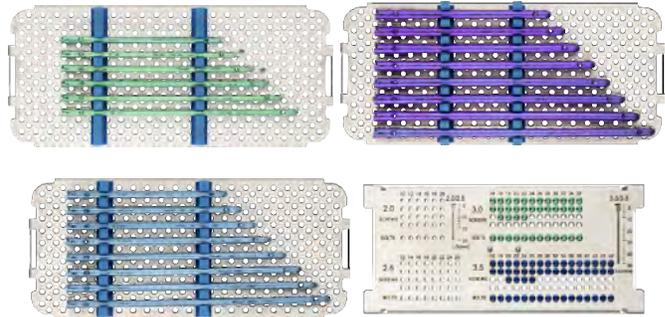


# Medium & Large Dogs Set

Nails Ø5L – 6 - 8

## Implant Set

- « Full » set with 22 nail sizes available
- « Starter » set with 13 most commonly used nail sizes included
- 64 locking screws (2 to 3 per size)
- 28 bolts (1 per size)
- 4 sterilization containers, 3 modular trays and 1 screw rack

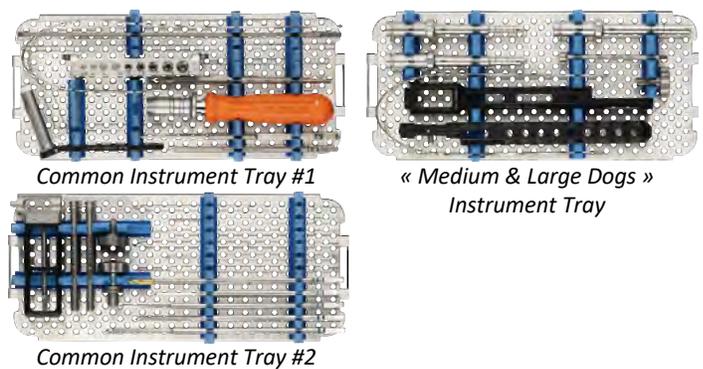


Nails										Screws - Bolts	
Ø	134	146.5	159	171.5	184	196.5	209	221.5	234	Ø	Lg
5.0	●	●	●	●	○	○				3.0	14 – 36mm
6.0	●	●	●	●	●	○	○	○		3.5	16 – 48mm
8.0		○	●	●	●	●	○	○	○		

● Sizes included in « Starter » set    ○ Additional sizes in « Full » set

## Instrument Set

- 37 Instruments for nails 5L / 6 / 8
- 2 Common instrument trays
- 1 Medium & Large Dogs instrument tray
- 2 sterilization containers

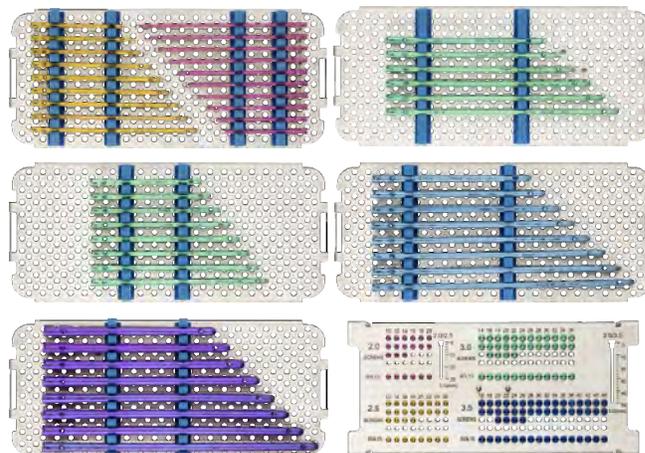


## Cats & Dogs Set – All Sizes

Nails Ø3.5 – 4 – 5s – 5L – 6 – 8

### Implant Set

- « Full » set with 47 nail sizes available
- « Starter » set with 29 most commonly used nail sizes included
- 99 locking screws (2 to 3 per size)
- 42 bolts (1 per size)
- 6 sterilization containers, 5 modular trays and 1 screw rack



“Cats & Small Dogs” Nails

Ø	70	78	86	94	102	110	118	126	134	142	150
3.5	●	●	●	●	●	●	○	○	○	○	
4.0		○	●	●	●	●	○	○	○	○	
5.0				●	●	●	●	●	●	●	●

Screws - Bolts

Ø	Lg
2.0	10 – 20mm
2.5	12 – 26mm
3.0	14 - 36mm

“Medium & Large Dogs” Nails

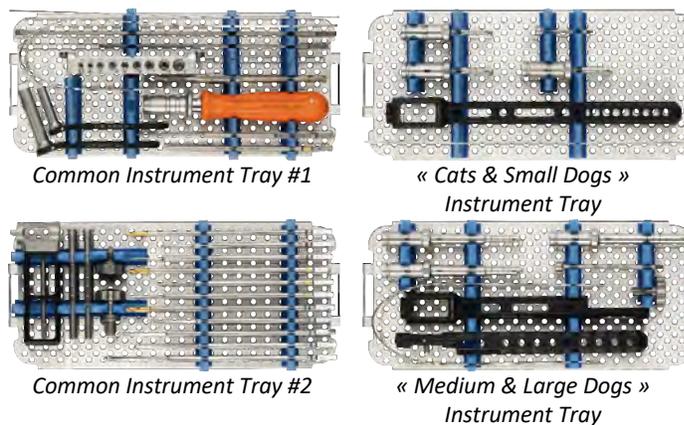
Ø	134	146.5	159	171.5	184	196.5	209	221.5	234
5.0			●	●	○	○			
6.0	●	●	●	●	●	○	○	○	
8.0		○	●	●	●	●	○	○	○

Ø	Lg
3.0	14 – 36mm
3.5	16 – 48mm

● Sizes included in « Starter » set    ○ Additional sizes in « Full » set

### Instrument Set

- 61 Instruments for nails 3.5 / 4 / 5 / 6 / 8
- 2 Common instrument trays
- 1 Cats & Small Dogs instrument tray
- 1 Medium & Large Dogs instrument tray
- 3 sterilization containers

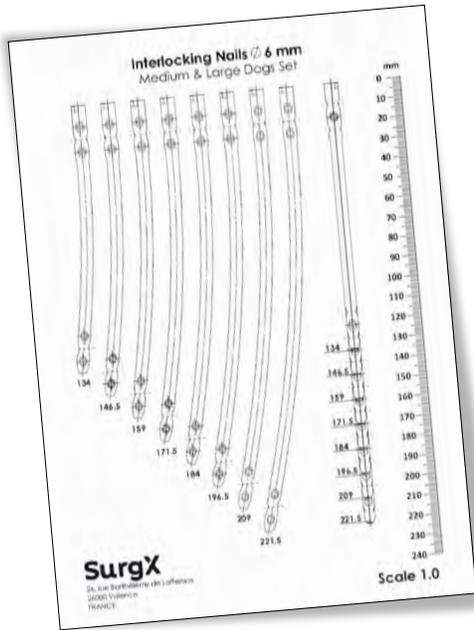


# PRE-OPERATIVE PLANNING

## PLANNING TOOLS

### Printed X-Ray templates

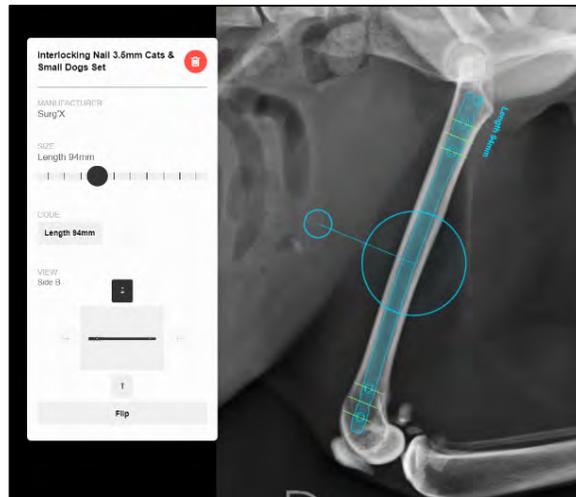
Available on request from your local representative.



### Digital templates available in vPOP<sup>PRO</sup>

Our digital templates are available in vPOP Pro, the world's leading dedicated veterinary orthopaedic planning and templating solution.

Plan your surgeries with the Surg'X Interlocking Nail with ultimate accuracy and efficiency.



Compatible with Apple or Windows laptops, and iOS or Android mobiles and tablets.

## WEIGHT REFERENCE CHART

### Patient weight in kilograms



**Disclaimer:** This selection chart is a guide. All weight ranges are suggestions based on the ultimate load of the product, its clinical evaluation, and/or on our veterinary consultant's recommendation. The nail size selection remains the surgeon's decision, considering specific factors such as complexity of the fracture, age of the patient, body mass index, owner compliance. We encourage surgeons to call Surg'X to review x-rays and offer free recommendations on which implant sizes to be used to achieve desired outcomes.

## REFERENCES

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<b>Ø3.5</b> 70 - 142mm	<b>Ø4.0</b> 78 - 142mm	<b>Ø5.0</b> 94 - 196.5mm	<b>Ø6.0</b> 134 - 221.5mm	<b>Ø8.0</b> 146.5 - 234mm
				
<b>&lt; 7 kg</b>	<b>&lt; 10 kg</b>	<b>&lt; 22 kg</b>	<b>&lt; 30 kg</b>	<b>&gt; 30 kg</b>

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