





## Dates and images

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# Welcome to Intrauma



Intrauma is located in Italy, Val di Susa, Rivoli, just 10 km from the heart of Turin.

Its strategic location and proximity to the main motorway arteries and Caselle Torinese airport make it easily accessible, as well as being able to manage logistics dynamically and efficiently.

Intrauma also has other offices distributed throughout Italy with purely commercial functions, thanks to which it is able to promptly meet any urgent customer needs.

In 2011, Intrauma opened its US subsidiary based in Hoboken, New Jersey.

The opening of a representative office on US soil makes it possible to better serve distributors on the American continent, bringing advantages in terms of logistics.

As of September 2021, the US office moved to Miami FL in order to efficiently manage the Central and South American market.



# Fixin System.

Micro, Mini, Small



**MICRO series 1.3-1.7mm** Designed for Toy Breeds Dogs and Cats (up to 3-4 Kg)

**MINI series 1.9-2.5mm** Designed for Small Dogs and Cats (3kg-15Kg)

**SMALL series 3.0-3.5-4.0mm** Designed for Large Dogs (15kg-70kg)

## / FIXIN System

Locking plates have become the gold standard for the fixation of complex fractures, as they combine stable fixation with anatomic articular reduction, help to reduce soft tissue dissection and allow early mobilization.

The FIXIN range includes a wide variety of plates designed for different indications including traumatology, corrective osteotomies, and tarsus and carpus arthrodesis and panarthrodesis.

The Fixin system provides 3 series of internal fixators:

**The 1.3-1.7 series (micro)**, developed for small dogs up to 3-4 Kg and cats, accommodates 1.3-1.7mm screws that fit the micro bushing. This series of plates has small holes that fit 1.0mm K-wires for temporary stabilization.

**The 1.9-2.5 series (mini)**, developed for small dogs up to 10 Kg and cats, accommodates 1.9mm and 2.5mm screws that fit the same bushing (same screw-heads therefore same screwdriver). This series of plates has small holes that fit 1.2mm K-wires for temporary stabilization.

**The 3.0-3.5-4.0 series (small)**, developed for medium, large and giant dogs, accommodates 3.0, 3.5 and 4.0mm screws that fit the silver bushing (same screw-heads therefore same screwdriver). This series of plates has small holes that fit 1.2mm K-wires for temporary stabilization.

Fixin's unique locking mechanism ensures fracture stability while avoiding pressure on the bone, preserving vascularity and accelerating the return of mobility and function. After fixing the locking screws in a FIXIN plate an angular stable system is created, which is similar to an external fixator from a mechanical point of view and quite different from a traditional screw-plate system, which relies on friction between the plate and the bone to maintain the angle of the screw.

Because of these unique mechanical properties, FIXIN plates provide a new and original osteosynthesis technique for effective and stable fixation of fractures.

## / Patented screw locking mechanism

Traditional locking plates use a threaded screw-plate locking mechanism. FIXIN screws have a conical head which locks into a corresponding tapered cone in the bushings, which are pre-assembled on the plate. This coupling reduces the risk of cross threading between the screw and plate and ensures a simple operative technique. It also permits easy removal of the screws when a construct must be removed.

It is an extremely stable coupling, which effectively transfers load evenly through the structure and reduces the risk of screws backing out or plate breakage.

## / The Implants

**Support** - The support consists of bone plate with threaded holes where inserts (bushings) are screwed into.

**Bushings** - The bushings are externally threaded to be screwed into the support. The conical inner hole can lodge the head of the locking screw for a conical coupling.

**Screws** - The screws profile are self-tapping, self-locking with angular stability. The screw's head is conical, perfectly designed to mate with the cone shaped hole of the bushing.

## / Instruments

FIXIN instrument sets are composed of a low number of items, are simple to use and easy to prepare for surgery.

**Drill guide** - A special drill-guide has been developed to allow proper perpendicular matching between the conical head of the screw and the conical hole of the bushing. The drill guide has a tapered cone that fits directly and securely into the bushings on each plate allowing the surgeon to work with both hands.

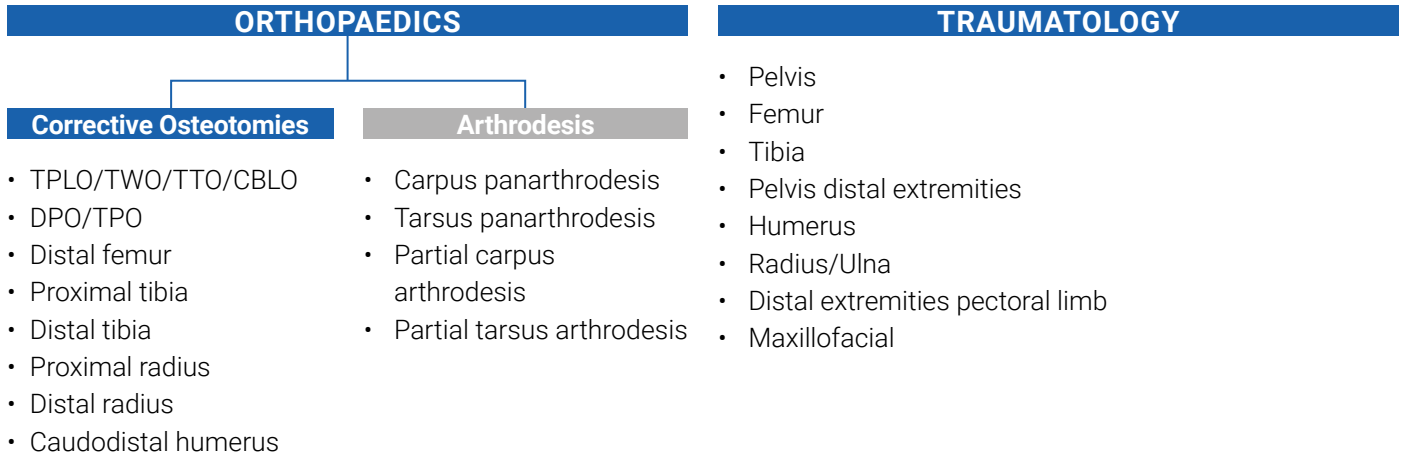
**Temporary stabilization** - During the drilling phase the plate needs to be secured to the bone to achieve the conical coupling. This can be done with temporary conventional screws, with pins inserted through appropriate plate's holes, or with pins inserted through the drill-guide and temporary secured with pin-stoppers.

## / Features and benefits

- The conical screw-plate locking system allowed by the bushings ensures the best distribution of loads, reducing the risk of implant breakage and screw pull-out.
- The patented locking system allows the easy locking of the screw in the plate-bushings system and eliminates the possibility of cross-threading of the screw head into the plate.
- Easy exchange and removal of screws if needed.
- Simple and intuitive instruments for reduced surgery times.
- Periosteum is left intact to preserve the vascularisation.
- Plate thickness ranges from 1.2mm in the micro series, 1.2mm to 2mm in the mini series and 1.5mm to 3mm in the medium series allowing a minimally invasive approach.



## / Indications





## **MICRO Series 1.3-1.7mm**

Designed for Toy Breed Dogs (0Kg-3Kg) and Cats



### 1.3-1.7 Series - Product Ranges

#### V1800

T Support  
Length: 23mm  
Thickness: 1.27mm  
Holes: 4



TPLO - Distal radius

#### V1806

Straight Support  
Length: 31mm  
Thickness: 1.27mm  
Holes: 4



Radius

#### V1801

T Support Long  
Length: 32mm  
Thickness: 1.27mm  
Holes: 5



TPLO - Distal radius

#### V1807

Straight Support  
Length: 47mm  
Thickness: 1.27mm  
Holes: 6



Tibia - Femur

#### V1811

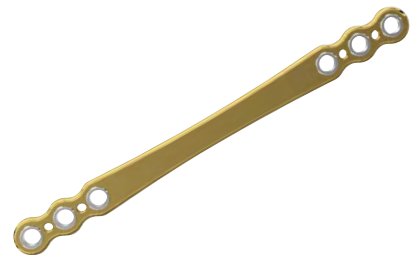
T Support Extra Long  
Length: 36.5mm  
Thickness: 1.27mm  
Holes: 5



Distal radius

#### V1808

Straight Support  
Length: 60mm  
Thickness: 1.27mm  
Holes: 6



Tibia - Femur

#### V1815

T Support Extra Long  
Length: 43.5mm  
Thickness: 1.27mm  
Holes: 6



Distal radius

#### V1816

Straight Support  
Length: 26.5mm  
Thickness: 1.27mm  
Holes: 4



Radius

### V1802 (R) / V1803 (L)

#### Lateral L Support

Length: 25mm  
 Thickness: 1.27mm  
 Holes: 4

Distal femur



### V1804 (R) / V1805 (L)

#### Lateral L Support Long

Length: 34mm  
 Thickness: 1.27mm  
 Holes: 5

Distal femur



### V1835 (L) / V1836 (R)

#### DFO Micro Plate

Length: 34mm  
 Thickness: 1.5mm  
 Holes: 5+1 compression

**NEW**



DFO  
 Requires R. H. Cortical Screw 1.5mm

### V1813 (L) / V1814 (R)

#### Lateral L Support Long

Length: 28mm  
 Thickness: 1.27mm  
 Holes: 4

TPLO



### V1820

#### T Support Prebended

Length: 22.6mm  
 Thickness: 1.27mm  
 Holes: 4

TPLO



### V1861 (L) / V1862 (R)

#### TPLO Clover Micro Support

Length: 26.6mm  
 Thickness: 1.5mm  
 Holes: 5+1

TPLO  
 NOTE: Requires R. H. Cortical Screw 1.5mm



### V1810

#### Micro Cuttable Support

Length: 131mm  
 Thickness: 1.2mm  
 Holes: 26



NOTE: this support is provided without bushings. Bushing: V121 - Micro series bushing



## 1.3-1.7 Series - Ordering Information

### / SUPPORTS

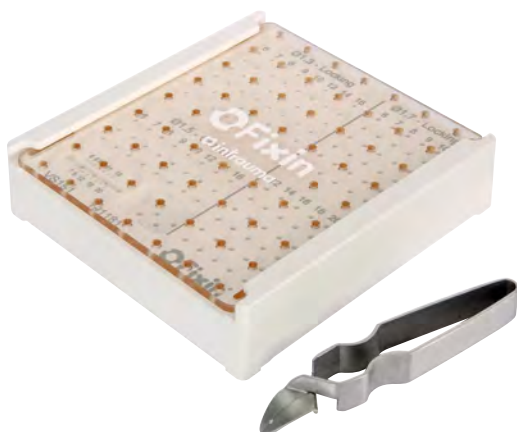
| Ref.  | Description                   | L. mm | THK mm | Holes |
|-------|-------------------------------|-------|--------|-------|
| V1800 | T Support                     | 23    | 1.27   | 4     |
| V1801 | T Support Long                | 32    | 1.27   | 5     |
| V1802 | Lateral L Support (R)         | 25    | 1.27   | 4     |
| V1803 | Lateral L Support (L)         | 25    | 1.27   | 4     |
| V1804 | Lateral L Support Long (R)    | 34    | 1.27   | 5     |
| V1805 | Lateral L Support Long (L)    | 34    | 1.27   | 5     |
| V1806 | Straight Support              | 31    | 1.27   | 4     |
| V1807 | Straight Support              | 47    | 1.27   | 6     |
| V1808 | Straight Support              | 60    | 1.27   | 6     |
| V1810 | Micro Cuttable Support        | 131   | 1.2    | 26    |
| V1811 | T Support Extra Long          | 36.5  | 1.27   | 5     |
| V1813 | Lateral L Support Long (L)    | 28    | 1.27   | 4     |
| V1814 | Lateral L Support Long (R)    | 28    | 1.27   | 4     |
| V1815 | T Support Extra Long          | 43.5  | 1.27   | 6     |
| V1816 | Straight Support              | 26.5  | 1.27   | 4     |
| V1820 | T Support Prebended           | 22.6  | 1.27   | 4     |
| V1835 | DFO Micro Plate (L)           | 34    | 1.5    | 5+1   |
| V1836 | DFO Micro Plate (R)           | 34    | 1.5    | 5+1   |
| V1861 | TPLO Clover Micro Support (L) | 26.6  | 1.5    | 5+1   |
| V1862 | TPLO Clover Micro Support (R) | 26.6  | 1.5    | 5+1   |

**NOTE: the V1810 support is provided without bushings.**  
 Bushing: V121 - Micro series bushing

### / SCREW CASE

**REF. VS191**

Screw case Ø1.3-1.7-1.5C (Dim. 102x108x28mm)  
 Screw tweezers included



### / AUTOLOCKING SCREWS | Ø1.3mm

| Ref.  | L. mm |
|-------|-------|
| V1306 | 6     |
| V1307 | 7     |
| V1308 | 8     |
| V1309 | 9     |
| V1310 | 10    |
| V1312 | 12    |
| V1314 | 14    |
| V1316 | 16    |



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### / REDUCED HEAD CORTICAL SCREW | Ø1.5mm

| Ref.  | L. mm |
|-------|-------|
| V1506 | 6     |
| V1507 | 7     |
| V1508 | 8     |
| V1509 | 9     |
| V1510 | 10    |
| V1512 | 12    |
| V1514 | 14    |
| V1516 | 16    |



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### / AUTOLOCKING SCREWS | Ø1.7mm

| Ref.  | L. mm |
|-------|-------|
| V2356 | 6     |
| V2357 | 7     |
| V2358 | 8     |
| V2359 | 9     |
| V2360 | 10    |
| V2362 | 12    |
| V2364 | 14    |
| V2366 | 16    |
| V2368 | 18    |
| V2370 | 20    |



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### / BUSHING



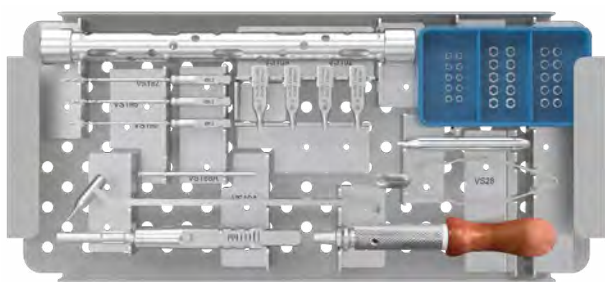
**REF. V121**  
 Micro Series Bushing

**REF. V1210**  
 Micro Series Bushing (10 pcs)

**/ INSTRUMENT TRAY**

**REF. VS202**

1.3 - 1.7 / 1.9 - 2.5 Series Instruments Tray  
The tray is provided without instruments



**/ INSTRUMENTATION**

**REF. VS13**

Micro Series Depth Gauge



**REF. VS181**

Drill Bit Ø1.3mm



**REF. VS182**

Micro Series Graduated Drill Guide (Ø1.7mm screw)



**REF. VS190**

Drill Bit Ø1.0mm



**REF. VS189**

Micro Series Graduated Drill Guide (Ø1.3mm screw)



**REF. VS195**

Drill Bit Ø1.2mm



**REF. VS194**

Ø1.5mm Cortical Screw Drill Guide



**REF. VS185**

Micro Series Assembler






**REF. VS188**

Micro Series Screwdriver HL5 (**VS188A** - Rod / **VS188B** - Handle)





### 1.3-1.7 Series - Quick Reference Chart Autlocking Screws, Reduced Head Cortical Screws, Drill Guides, Drill Bits

|                 | SCREW DIAMETER (MM)  |  |  |
|-----------------|--|--|--|
| THREAD DIAMETER | Ø1.3   | Ø1.5   | Ø1.7   |
| SCREW IMAGE     | <br><b>REF. V13XX</b> | <br><b>REF. V15XX</b> | <br><b>REF. V23XX</b> |
| SCREW TYPE      | Autlocking<br>Self-tapping   | Reduced Head Cortical<br>Self-tapping  | Autlocking<br>Self-tapping   |
| METAL ALLOY     | Titanium<br>Ti6Al4V - ISO 5832-3   | Titanium<br>Ti6Al4V - ISO 5832-3   | Titanium<br>Ti6Al4V - ISO 5832-3   |
| THREAD LENGTH   | Full   | Full   | Full   |
| DRILL GUIDE     | <b>REF. VS189</b><br>Micro Series Graduated Drill Guide<br>(Ø1.3mm screw)                              | <b>REF. VS194</b><br>Ø1.5mm Cortical<br>Screw Guide  | <b>REF. VS182</b><br>Micro Series Graduated Drill Guide<br>(Ø1.7mm screw)                                |
| DRILL BIT       | <b>REF. VS190</b><br>Drill Bit<br>Ø1.0mm   | <b>REF. VS195</b><br>Drill Bit<br>Ø1.2mm   | <b>REF. VS181</b><br>Drill Bit<br>Ø1.3mm   |



## **MINI Series 1.9-2.5mm**

Designed for Small Dogs and Cats (3Kg-15Kg)



## 1.9-2.5 Series - Product Ranges

### V2001

**T Support**  
 Length: 32mm  
 Thickness: 1.5mm  
 Holes: 4

TPLO/TWO/TTO - Proximal tibia  
 Distal tibia - Carpus and tarsus partial  
 arthrodesis - Pelvis - Maxillofacial



### V2004 L/R

**L Support**  
 Length: 51mm  
 Thickness: 1.5mm  
 Holes: 6

Distal femur



### V2002

**Acetabular Support**  
 Length: 28mm  
 Thickness: 1.2mm  
 Holes: 4

Distal femur



### V2035 (L) / V2036 (R)

**DFO Mini Plate**  
 Length: 54mm  
 Thickness: 2.0mm  
 Holes: 6+1 compression

DFO  
**NOTE:** this implant requires VS255 Low profile  
 bushing assembler to remove Mini V123  
 bushings.  
 Requires R. H. Cortical Screw 2.7mm or 2.0mm

**NEW**



### V2003

**T Support**  
 Length: 25mm  
 Thickness: 1.2mm  
 Holes: 4

TPLO/TWO/TTO - Proximal tibia - Distal tibia



### V2007 L/R

**TPLO L Support**  
 Length: 26mm  
 Thickness: 1.2mm  
 Holes: 4

TPLO



### V2005

**T Support**  
 Length: 38mm  
 Thickness: 1.2mm  
 Holes: 4

TPLO/TWO/TTO - Proximal tibia  
 Distal tibia - Proximal radius - Distal radius



### V2009

**T Support**  
 Length: 42.3mm  
 Thickness: 1.5mm  
 Holes: 5

TPLO/TWO/TTO - Proximal tibia  
 Distal tibia - Carpus and tarsus partial  
 arthrodesis - Pelvis - Maxillofacial



## V2021

### T Support Prebended

Length: 32mm  
 Thickness: 1.5mm  
 Holes: 4  
 Offset: 2mm

TPLO/TWO/TTO



## V2040

### T Support Prebended

Length: 31mm  
 Thickness: 1.5mm  
 Holes: 4  
 Offset: 4mm

TPLO/TWO/TTO



## V2101

### Straight Support

Length: 39mm  
 Thickness: 1.2mm  
 Holes: 4

Carpus and tarsus partial arthrodesis  
 Femur - Tibia - Pelvis distal extremity  
 Humerus - Radius/Ulna  
 Pectoral distal extremity - Maxillofacial



## V2070

### T Support Prebended

Length: 31.8mm  
 Thickness: 1.5mm  
 Holes: 4  
 Offset: 6mm

TPLO/TWO/TTO

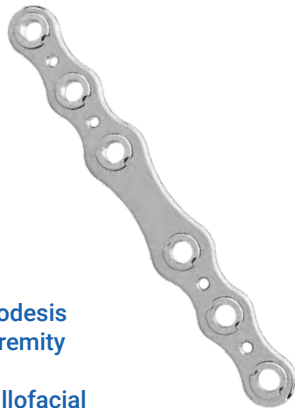


## V2102

### Straight Support

Length: 64.2mm  
 Thickness: 1.5mm  
 Holes: 6

Carpus and tarsus partial arthrodesis  
 Femur - Tibia - Pelvis distal extremity  
 Humerus - Radius/Ulna  
 Pectoral distal extremity - Maxillofacial



## V2013 (L) / V2014 (R)

### Medial Carpus Panarthrodesis Plate Mini

Length: 76.3mm  
 Thickness: 2.0mm  
 Holes: 9



Carpus Panarthrodesis

## V2106

### Straight Support

Length: 49.3mm  
 Thickness: 1.5mm  
 Holes: 5

Humerus - Distal tibia  
 Proximal radius - Distal radius

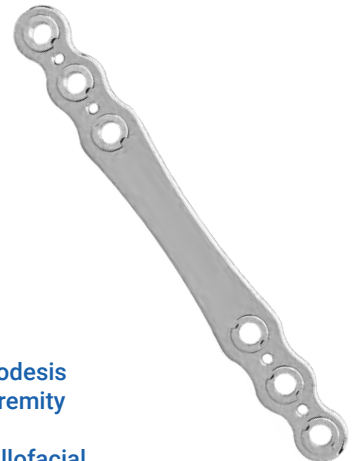


## V2201

### Straight Support

Length: 71.3mm  
 Thickness: 1.5mm  
 Holes: 6

Carpus and tarsus partial arthrodesis  
 Femur - Tibia - Pelvis distal extremity  
 Humerus - Radius/Ulna  
 Pectoral distal extremity - Maxillofacial





## 1.9-2.5 Series - Product Ranges

### V2202

#### Straight Support

Length: 93mm  
Thickness: 1.5mm  
Holes: 6



### V2204

#### Straight Support

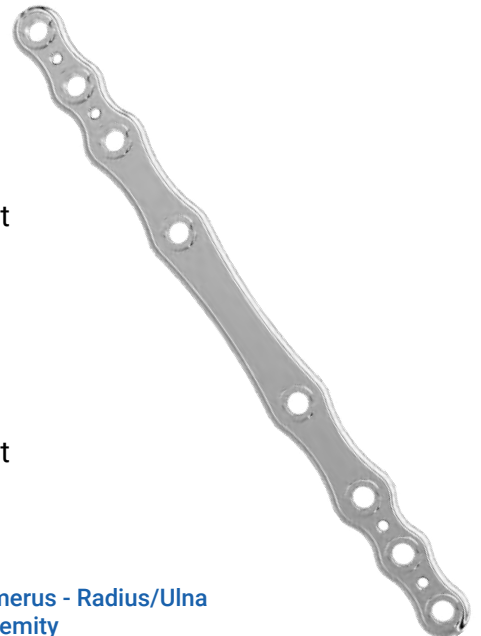
Length: 93mm  
Thickness: 2.0mm  
Holes: 6

Femur - Tibia - Humerus - Radius/Ulna  
Pectoral distal extremity

### V2208

#### Straight Support

Length: 100.5mm  
Thickness: 1.5mm  
Holes: 8



### V2209

#### Straight Support

Length: 100.5mm  
Thickness: 2.0mm  
Holes: 8

Femur - Tibia - Humerus - Radius/Ulna  
Pectoral distal extremity

### V2203

#### Straight Support

Length: 101mm  
Thickness: 1.5mm  
Holes: 6



### V2205

#### Straight Support

Length: 101mm  
Thickness: 2.0mm  
Holes: 6

Femur - Tibia - Humerus - Radius/Ulna  
Pectoral distal extremity

### V2061 (L) / V2062 (R)

#### TPLO Clover Mini Support

Length: 44mm  
Thickness: 2.5mm  
Holes: 5+1



#### TPLO

NOTE: this implant requires VS255 Low profile bushing assembler to remove bushings.

Requires R. H. Cortical Screw 2.7mm or 2.0mm

### V2063 (L) / V2064 (R)

#### TPLO Clover Mini XS Support

Length: 37mm  
Thickness: 2.2mm  
Holes: 5+1



#### TPLO

NOTE: this implant requires VS255 Low profile bushing assembler to remove bushings.

Requires R. H. Cortical Screw 2.7mm or 2.0mm

### V2025

#### Dorsal Carpus Panarthrodesis Plate Mini/Micro

Length: 92mm  
Thickness: 2.0mm  
Holes: 9+2

Carpus Panarthrodesis  
**NOTE: this implant requires -**  
1) VS185 bushing assembler to remove micro bushings V121  
2) VS255 Low profile bushing assembler to remove Mini V123 bushings.  
Requires R. H. Cortical Screw 2.7mm or 2.0mm



### V2026

#### Dorsal Carpus Panarthrodesis Plate Mini

Length: 113mm  
Thickness: 2.5mm  
Holes: 10+2

Carpus Panarthrodesis  
**NOTE: this implant requires**  
VS255 Low profile bushing assembler to remove Mini V123 bushings  
Requires R. H. Cortical Screw 2.7mm or 2.0mm



### V2207

#### Mini Cuttable Support

Length: 196mm  
Thickness: 1.5mm  
Holes: 26

**NOTE: this support is provided without bushings.**  
Bushing: V120  
1.9-2.5 series bushing





## 1.9-2.5 Series - Ordering Information

### / SUPPORTS

| Ref.  | Description                                   | L. mm | THK mm | Holes |
|-------|---|-------|--------|-------|
| V2001 | T Support                                     | 32    | 1.5    | 4     |
| V2002 | Acetabular Support                            | 28    | 1.2    | 4     |
| V2003 | T Support                                     | 25    | 1.2    | 4     |
| V2004 | L Support (L/R)                               | 51    | 1.5    | 6     |
| V2005 | T Support                                     | 38    | 1.2    | 4     |
| V2007 | TPLO L Support (L/R)                          | 26    | 1.2    | 4     |
| V2009 | T Support                                     | 42.3  | 1.5    | 5     |
| V2013 | Medial Carpus Panarthrodesis Plate Mini (L)   | 76.3  | 2.0    | 9     |
| V2014 | Medial Carpus Panarthrodesis Plate Mini (R)   | 76.3  | 2.0    | 9     |
| V2021 | T Support Prebended Offset 2mm                | 32    | 1.5    | 4     |
| V2025 | Dorsal Carpus Panarthrodesis Plate Mini-Micro | 92    | 2.0    | 9+2   |
| V2026 | Dorsal Carpus Panarthrodesis Plate Mini       | 113   | 2.5    | 10+2  |
| V2035 | DFO Mini Plate (L)                            | 54    | 2.0    | 6+1   |
| V2036 | DFO Mini Plate (R)                            | 54    | 2.0    | 6+1   |
| V2040 | T Support Prebended Offset 4mm                | 31    | 1.5    | 4     |
| V2061 | TPLO Clover Mini Support (L)                  | 44    | 2.5    | 5+1   |
| V2062 | TPLO Clover Mini Support (R)                  | 44    | 2.5    | 5+1   |
| V2063 | TPLO Clover Mini XS Support (L)               | 37    | 2.2    | 5+1   |
| V2064 | TPLO Clover Mini XS Support (R)               | 37    | 2.2    | 5+1   |
| V2070 | T Support Prebended Offset 6mm                | 31.8  | 1.5    | 4     |
| V2101 | Straight Support                              | 39    | 1.2    | 4     |
| V2102 | Straight Support                              | 64.2  | 1.5    | 6     |
| V2106 | Straight Support                              | 49.3  | 1.5    | 5     |
| V2201 | Straight Support                              | 71.3  | 1.5    | 6     |
| V2202 | Straight Support                              | 93    | 1.5    | 6     |
| V2203 | Straight Support                              | 101   | 1.5    | 6     |
| V2204 | Straight Support                              | 93    | 2.0    | 6     |
| V2205 | Straight Support                              | 101   | 2.0    | 6     |
| V2207 | Mini Cuttable Support                         | 196   | 1.5    | 26    |
| V2208 | Straight Support                              | 100.5 | 1.5    | 8     |
| V2209 | Straight Support                              | 100.5 | 2.0    | 8     |

**NOTE: the V2207 support is provided without bushings.**  
**Bushing: V120 - 1.9-2.5 series bushing**

### / AUTOLOCKING SCREWS | Ø1.9MM

| Ref.  | L. mm |
|-------|-------|
| V2406 | 6     |
| V2407 | 7     |
| V2408 | 8     |
| V2409 | 9     |
| V2410 | 10    |
| V2412 | 12    |
| V2414 | 14    |
| V2416 | 16    |
| V2418 | 18    |



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### / AUTOLOCKING SCREWS | Ø2.5MM

| Ref.  | L. mm |
|-------|-------|
| V2510 | 10    |
| V2512 | 12    |
| V2514 | 14    |
| V2516 | 16    |
| V2518 | 18    |
| V2520 | 20    |
| V2522 | 22    |
| V2524 | 24    |
| V2526 | 26    |
| V2528 | 28    |
| V2530 | 30    |



Ti6Al4V - ISO 5832-3

### / BUSHING

**REF. V120**  
1.9-2.5 Series Bushing

**REF. V1200**  
1.9-2.5 Series Bushing (10 pcs)

**REF. V123**  
1.9-2.5 Series Low Profile Bushing

**REF. V124**  
1.9-2.5 Series Downsize Bushing

**REF. V1240**  
1.9-2.5 Series Downsize Bushing (10 pcs)

**REF. V125**  
1.9-2.5 Series Plug

**/ REDUCED HEAD CORTICAL SCREW | Ø2.0MM**

| Ref.  | L. mm |
|-------|-------|
| V2808 | 8     |
| V2810 | 10    |
| V2812 | 12    |
| V2814 | 14    |
| V2816 | 16    |
| V2818 | 18    |
| V2820 | 20    |
| V2822 | 22    |
| V2824 | 24    |
| V2826 | 26    |



Ti6Al4V - ISO 5832-3

**/ REDUCED HEAD CORTICAL SCREW | Ø2.7MM**

| Ref.  | L. mm |
|-------|-------|
| V2708 | 8     |
| V2709 | 9     |
| V2710 | 10    |
| V2712 | 12    |
| V2714 | 14    |
| V2716 | 16    |
| V2718 | 18    |
| V2720 | 20    |
| V2722 | 22    |
| V2724 | 24    |
| V2726 | 26    |
| V2728 | 28    |
| V2730 | 30    |
| V2732 | 32    |
| V2734 | 34    |
| V2736 | 36    |
| V2738 | 38    |
| V2740 | 40    |



Ti6Al4V - ISO 5832-3

**/ SCREW CASE**

**REF. VS200**

Screw Case Ø1.9-2.5-2.0C-2.7C (Dim. 185x103x47mm)

Screw tweezers included



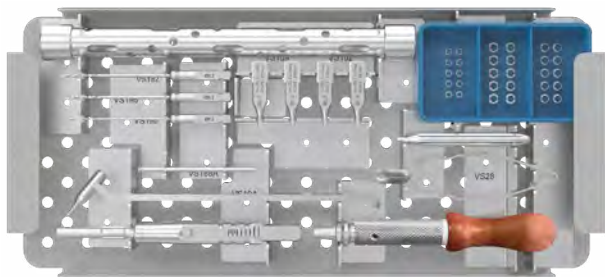
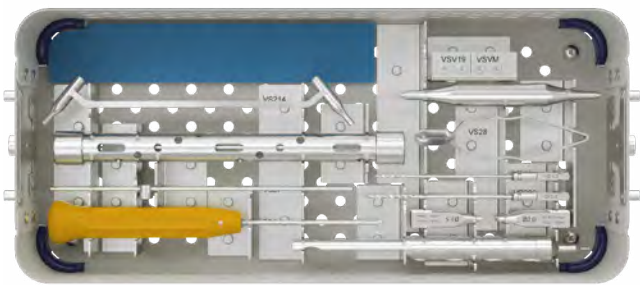


## 1.9-2.5 Series - Ordering Information

### / INSTRUMENT TRAY

**REF. VS202**

1.3 - 1.7 / 1.9 - 2.5 Series Instruments Tray  
The tray is provided without instruments



### / INSTRUMENTATION

**REF. VS209**

1.9 Screw Drill Guide



**REF. VS210**

2.5 Screw Drill Guide



**REF. VS218**

Ø2.0 - 2.7 Cortical Screw Drill Guide



**REF. VS219**

Drill Bit Ø1.5mm



**REF. VS220**

Drill Bit Ø2.0mm



**REF. VS23**

1.9-2.5 Series Depth Meter



**REF. S24**

2mm Hex Screwdriver



**REF. VS25**

1.9-2.5 Series Bushing Carrier / Extractor



**REF. VS28**

1.9-2.5 Series Conical Extractor



**REF. VS255**

1.9-2.5 Series Low Profile Bushing Assembler



**REF. VS27**

1.9-2.5 Series Pin Stoppers

**REF. VS270**

1.9-2.5 Series Pin Stopper Wires Ø2.0mm (10 pcs)



**REF. VSV19**

Temporary Stabilization Screw Ø1.9mm







**REF. VSVM**

Temporary Stabilization Screw Ø2.5mm





## 1.9-2.5 Series - Quick Reference Chart Autlocking Screws, Reduced Head Cortical Screws, Drill Guides, Drill Bits

|                 | SCREW DIAMETER (MM)  |  |  |  |
|-----------------|--|--|--|--|
| THREAD DIAMETER | Ø1.9   | Ø2.0   | Ø2.5   | Ø2.7   |
| SCREW IMAGE     | <br><b>REF. V24XX</b> | <br><b>REF. V28XX</b> | <br><b>REF. V25XX</b> | <br><b>REF. V27XX</b> |
| SCREW TYPE      | Autlocking Self-tapping  | Reduced Head Cortical Self-tapping   | Autlocking Self-tapping  | Reduced Head Cortical Self-tapping   |
| METAL ALLOY     | Titanium<br>Ti6Al4V - ISO 5832-3   | Titanium<br>Ti6Al4V - ISO 5832-3   | Titanium<br>Ti6Al4V - ISO 5832-3   | Titanium<br>Ti6Al4V - ISO 5832-3   |
| THREAD LENGTH   | Full   | Full   | Full   | Full   |
| DRILL GUIDE     | <b>REF. VS209</b><br>1.9 Screw Drill Guide   | <b>REF. VS218</b><br>Ø2.0-2.7mm Cortical Screw Drill Guide   | <b>REF. VS210</b><br>2.5 Screw Drill Guide   | <b>REF. VS218</b><br>Ø2.0-2.7mm Cortical Screw Drill Guide   |
| DRILL BIT       | <b>REF. VS219</b><br>Drill Bit<br>Ø1.5mm   | <b>REF. VS219</b><br>Drill Bit<br>Ø1.5mm   | <b>REF. VS220</b><br>Drill Bit<br>Ø2.0mm   | <b>REF. VS220</b><br>Drill Bit<br>Ø2.0mm   |



# **SMALL Series 3.0-3.5-4.0mm**

Designed for Large Dogs (15kg-70kg)



## 3.0-3.5-4.0 Series - Product Ranges

### V3201

#### Straight Support

Length: 61mm  
Thickness: 1.5mm  
Holes: 4

Distal tibia - Proximal radius  
Distal radius - Carpus and tarsus  
partial arthrodesis - Pelvis - Femur  
- Tibia - Pelvis distal extremity -  
Humerus - Radius/Ulna



### V3204

#### Straight Support

Length: 69mm  
Thickness: 2.0mm  
Holes: 5

Humerus - Distal tibia - Proximal  
radius - Distal radius - Carpus and  
tarsus partial arthrodesis - Pelvis -  
Femur - Tibia - Pelvis distal extremity  
- Radius/Ulna

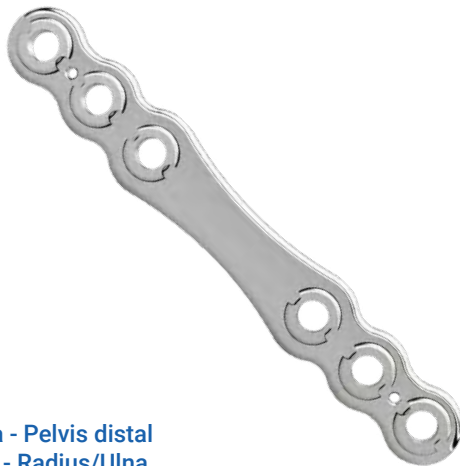


### V3202

#### Straight Support

Length: 81mm  
Thickness: 2.0mm  
Holes: 6

Pelvis - Femur - Tibia - Pelvis distal  
extremity - Humerus - Radius/Ulna

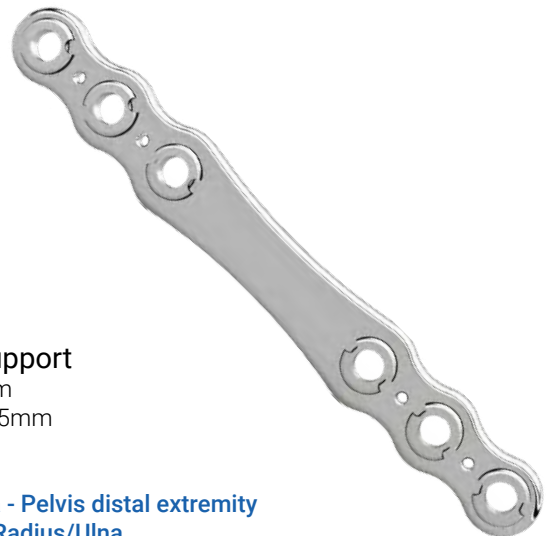


### V3302

#### Straight Support

Length: 95mm  
Thickness: 2.5mm  
Holes: 6

Femur - Tibia - Pelvis distal extremity  
- Humerus - Radius/Ulna



### V3203

#### Straight Support

Length: 109mm  
Thickness: 2.0mm  
Holes: 6

Femur - Tibia - Pelvis distal extremity -  
Humerus - Radius/Ulna



### V3303

#### Straight Support

Length: 119mm  
Thickness: 2.5mm  
Holes: 6

Femur - Tibia - Pelvis distal extremity  
- Humerus - Radius/Ulna



## V3304

### Straight Support

Length: 139mm  
 Thickness: 2.5mm  
 Holes: 6

Femur - Tibia - Pelvis distal extremity - Humerus - Radius/Ulna



## V3305

### Straight Support

Length: 161mm  
 Thickness: 2.5mm  
 Holes: 6

Femur - Tibia - Pelvis distal extremity - Humerus - Radius/Ulna



## V3307

### Straight Support

Length: 161mm  
 Thickness: 2.5mm  
 Holes: 8

Femur - Tibia - Pelvis distal extremity - Humerus - Radius/Ulna



## V3401

### Straight Support

Length: 171mm  
 Thickness: 3.0mm  
 Holes: 6

Femur - Tibia - Pelvis distal extremity - Humerus - Radius/Ulna





### 3.0-3.5-4.0 Series - Product Ranges

#### V3402

Straight Support

Length: 191mm  
Thickness: 3.0mm  
Holes: 6

Femur - Tibia - Pelvis distal extremity - Humerus - Radius/Ulna



#### V3405

Straight Support

Length: 191mm  
Thickness: 3.0mm  
Holes: 8

Femur - Tibia - Pelvis distal extremity - Humerus - Radius/Ulna



#### V3009 L/R

Medial 135°

Tarsus Panarthrodesis Support

Length: 115mm  
Thickness: 2.0mm  
Holes: 5+3

Tarsus panarthrodesis



#### V3010 L/R

Medial 135°

Tarsus Panarthrodesis Support

Length: 125mm  
Thickness: 2.0mm  
Holes: 8

Tarsus panarthrodesis



### V3011

Dorsal 135°  
Tarsus Panarthrodesis Support  
Length: 120.6mm  
Thickness: 2.5mm  
Holes: 8

Tarsus panarthrodesis



### V3012

Dorsal 135°  
Tarsus Panarthrodesis Support  
Length: 112mm  
Thickness: 2.5mm  
Holes: 5+3

Tarsus panarthrodesis



### V3013 (L) / V3018 (R)

Medial Carpus Panarthrodesis Plate Standard  
Length: 125mm  
Thickness: 2.0mm  
Holes: 9

Carpus Panarthrodesis



### V3017 (L) / V3014 (R)

Medial Carpus Panarthrodesis Plate Standard  
Length: 106mm  
Thickness: 2.0mm  
Holes: 9

Carpus Panarthrodesis





### 3.0-3.5-4.0 Series - Product Ranges

#### V3015

Dorsal 110°  
Carpus Panarthrodesis Support  
Length: 111mm  
Thickness: 2.5mm  
Holes: 7

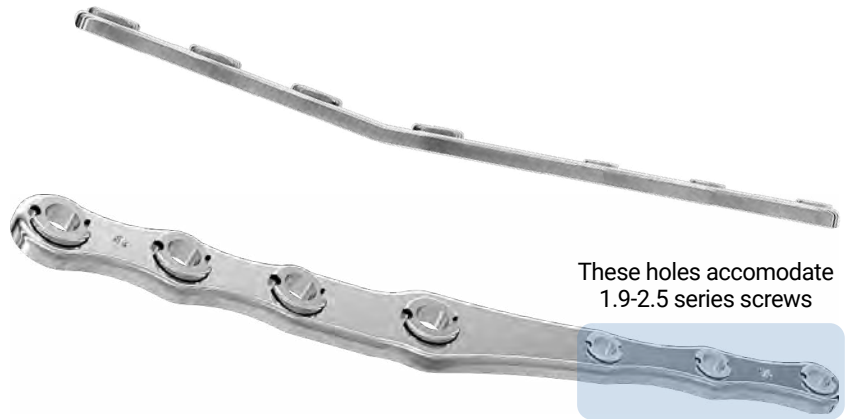
Carpus panarthrodesis



#### V3016

Dorsal 100°  
Carpus Panarthrodesis Support  
Length: 109.8mm  
Thickness: 2.5mm  
Holes: 4+3

Carpus panarthrodesis



#### V3025

Dorsal Carpus Panarthrodesis Plate Standard/Standard  
Length: 171mm  
Thickness: 3.5mm  
Holes: 10+2

Carpus Panarthrodesis

NOTE: this implant requires V355 Low profile bushing assembler to remove V133 Low profile bushings.  
Requires R. H. Cortical Screw 3.5mm



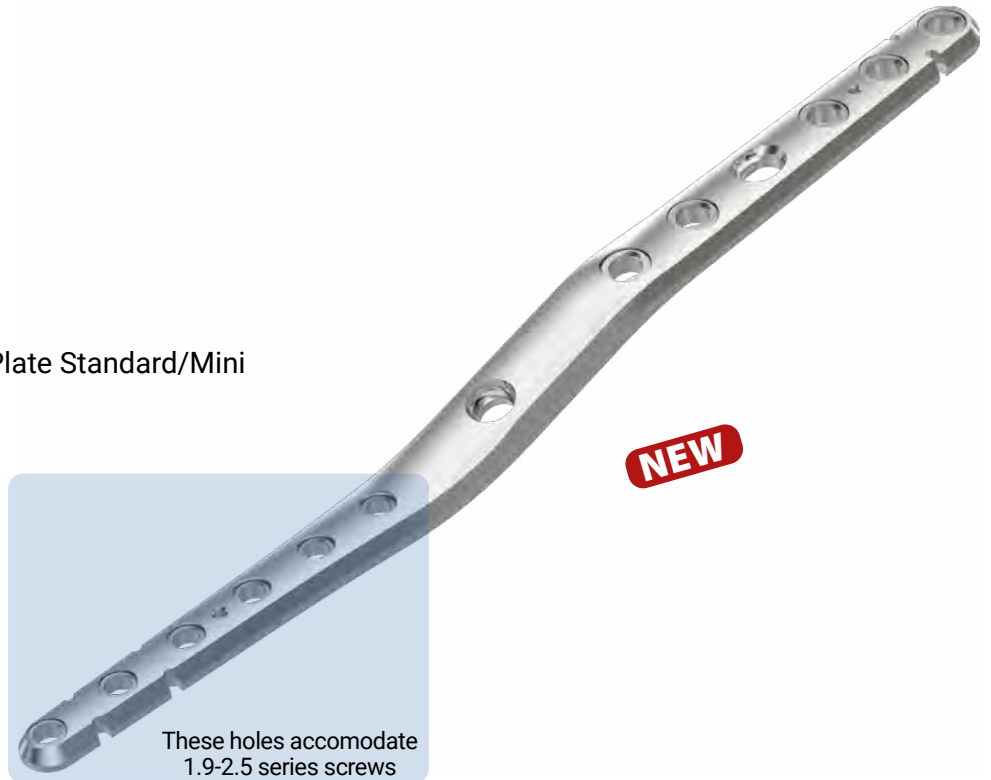
## V3026

### Dorsal Carpus Panarthrodesis Plate Standard/Mini

Length: 158.4mm  
 Thickness: 3.0mm  
 Holes: 11+2

#### Carpus Panarthrodesis

**NOTE: this implant requires VS255 Low profile bushing assembler and VS355 Low profile bushing assembler to remove bushings**



## V3044 (R)

### TPLO Large Breeds Support

Length: 86mm  
 Thickness: 2.5mm  
 Holes: 6

**TPLO**  
**Large breeds**



## V3043 (L)

### TPLO Large Breeds Support

Length: 86mm  
 Thickness: 2.5mm  
 Holes: 6

**TPLO**  
**Large breeds**



## V3033 (L)

### TPLO L Support Prebended

Length: 41mm  
 Thickness: 1.5mm  
 Holes: 4

**TPLO**



## V3034 (R)

### TPLO L Support Prebended

Length: 41mm  
 Thickness: 1.5mm  
 Holes: 4

**TPLO**





### 3.0-3.5-4.0 Series - Product Ranges

#### V3045 (L)

TPLO L Support Prebended  
 Length: 46mm  
 Thickness: 2.0mm  
 Holes: 4

TPLO



#### V3046 (R)

TPLO L Support Prebended  
 Length: 46mm  
 Thickness: 2.0mm  
 Holes: 4

TPLO



#### V3021

T Support Prebended  
 Length: 44.6mm  
 Thickness: 1.5mm  
 Holes: 4

TPLO/TWO/TTO



#### V3022

T Support Prebended  
 Length: 56mm  
 Thickness: 2.0mm  
 Holes: 5

TPLO/TWO/TTO



#### V3001

T Support  
 Length: 45mm  
 Thickness: 1.5mm  
 Holes: 4

TPLO/TWO/TTO  
 Proximal tibia - Distal tibia  
 Proximal radius - Distal radius  
 Carpus and tarsus partial arthrodesis



#### V3002

T Support  
 Length: 56mm  
 Thickness: 2.0mm  
 Holes: 5

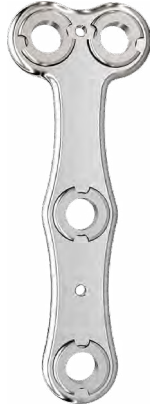
TPLO/TWO/TTO - Proximal tibia  
 Tibia



### V3003

**T Support**  
 Length: 53mm  
 Thickness: 2.0mm  
 Holes: 4

**TPLO/TWO/TTO**  
 Proximal tibia - Distal tibia - Tibia  
 Proximal radius - Distal radius  
 Carpus and tarsus partial arthrodesis



### V3004

**T Support**  
 Length: 75.5mm  
 Thickness: 2.0mm  
 Holes: 6

**TPLO/TWO/TTO**  
 Proximal tibia



### V3005 L/R

**L Support**  
 Length: 63mm  
 Thickness: 2.0mm  
 Holes: 6

**Distal femur - Femur**



### V3006 L/R

**L Support Long**  
 Length: 79mm  
 Thickness: 2.5mm  
 Holes: 6

**Distal femur - Femur**



### V3035 (L) / V3036 (R)

**DFO Standard Plate**  
 Length: 82mm  
 Thickness: 2.5mm  
 Holes: 6+1 compression

**NEW**

**DFO**  
 NOTE: this implant requires VS355 Low profile bushing assembler to remove V133 Low profile bushings.  
 Requires R. H. Cortical Screw 3.5mm





### 3.0-3.5-4.0 Series - Product Ranges

#### V3061 (L) / V3062 (R)

TPLO Clover Medium Support

Length: 55.3mm  
Thickness: 2.8mm  
Holes: 5+1

TPLO

NOTE: this implant requires VS355  
Low profile bushing assembler  
to remove bushings.  
Requires R. H. Cortical Screw 3.5mm



#### V3065 (L) / V3066 (R)

TPLO Clover Broad Support

Length: 79mm  
Thickness: 3.0mm  
Holes: 7+1

TPLO

NOTE: this implant requires VS355  
Low profile bushing assembler  
to remove bushings.  
Requires R. H. Cortical Screw 3.5mm



#### V3063 (L) / V3064 (R)

TPLO Clover Large Support

Length: 60.5mm  
Thickness: 2.8mm  
Holes: 5+1

TPLO

NOTE: this implant requires VS355  
Low profile bushing assembler  
to remove bushings.  
Requires R. H. Cortical Screw 3.5mm



#### V3067 (L) / V3068 (R)

TPLO Clover XXL Support

Length: 95mm  
Thickness: 3.7mm  
Holes: 9+1

TPLO

NOTE: this implant requires VS355  
Low profile bushing assembler  
to remove bushings.  
Requires R. H. Cortical Screw 3.5mm



V3057 (L) - V3058 (R)

CBLO Support Medium

Length: 56.5mm  
 Thickness: 2.5mm  
 Holes: 6

**CBLO**  
 Note: this implant requires VS355  
 Low profile bushing assembler to remove bushings



V3051 (L) - V3052 (R)

CBLO Support

Length: 74mm  
 Thickness: 2.5mm  
 Holes: 6

**CBLO**  
 Note: this implant requires VS355  
 Low profile bushing assembler to remove bushings



V3109 (L) - V3110 (R)

DPO Support 25°

Length: 41.3mm  
 Thickness: 3.0mm  
 Holes: 3+3

**DPO**  
 Note: this implant requires VS355  
 Low profile bushing assembler to remove bushings



V3115 (L) - V3116 (R)

TPO Support 25°

Length: 43.8mm  
 Thickness: 3.0mm  
 Holes: 3+4

**TPO**  
 Note: this implant requires VS355  
 Low profile bushing assembler to remove bushings



V3111 (L) - V3112 (R)

DPO Support 30°

Length: 41.3mm  
 Thickness: 3.0mm  
 Holes: 3+3

**DPO**  
 Note: this implant requires VS355  
 Low profile bushing assembler to remove bushings



V3117 (L) - V3118 (R)

TPO Support 30°

Length: 43.8mm  
 Thickness: 3.0mm  
 Holes: 3+4

**TPO**  
 Note: this implant requires VS355  
 Low profile bushing assembler to remove bushings





## 3.0-3.5-4.0 Series - Ordering Information

### / SUPPORTS

| Ref.  | Description  | L. mm | THK mm | Holes |
|-------|--|-------|--------|-------|
| V3001 | T Support  | 45    | 1.5    | 4     |
| V3002 | T Support  | 56    | 2.0    | 5     |
| V3003 | T Support  | 53    | 2.0    | 4     |
| V3004 | T Support  | 75.5  | 2.0    | 6     |
| V3005 | L Support (L/R)                                      | 63    | 2.0    | 6     |
| V3006 | L Support Long (L/R)                                 | 79    | 2.5    | 6     |
| V3009 | Medial 135° Tarsus Panarthrodesis Support (L/R)      | 115   | 2.0    | 5+3   |
| V3010 | Medial 135° Tarsus Panarthrodesis Support (L/R)      | 125   | 2.0    | 8     |
| V3011 | Dorsal 135° Tarsus Panarthrodesis Support            | 120.6 | 2.5    | 8     |
| V3012 | Dorsal 135° Tarsus Panarthrodesis Support            | 112   | 2.5    | 5+3   |
| V3013 | Medial Carpus Panarthrodesis Plate Standard (L)      | 125   | 2.0    | 9     |
| V3014 | Medial Carpus Panarthrodesis Plate Standard (R)      | 106   | 2.0    | 9     |
| V3015 | Dorsal 110° Carpus Panarthrodesis Support            | 111   | 2.5    | 7     |
| V3016 | Dorsal 100° Carpus Panarthrodesis Support            | 109.8 | 2.5    | 4+3   |
| V3017 | Medial Carpus Panarthrodesis Plate Standard (L)      | 106   | 2.0    | 9     |
| V3018 | Medial Carpus Panarthrodesis Plate Standard (R)      | 125   | 2.0    | 9     |
| V3021 | T Support Prebended                                  | 44.6  | 1.5    | 4     |
| V3022 | T Support Prebended                                  | 56    | 2.0    | 5     |
| V3025 | Dorsal Carpus Panarthrodesis Plate Standard/Standard | 171   | 3.5    | 10+2  |
| V3026 | Dorsal Carpus Panarthrodesis Plate Standard/Mini     | 158.4 | 3.0    | 11+2  |
| V3033 | TPLO L Support Prebended (L)                         | 41    | 1.5    | 4     |
| V3034 | TPLO L Support Prebended (R)                         | 41    | 1.5    | 4     |
| V3035 | DFO Standard Plate (L)                               | 82    | 2.5    | 6+1   |
| V3036 | DFO Standard Plate (R)                               | 82    | 2.5    | 6+1   |
| V3043 | TPLO Large Breeds Support (L)                        | 86    | 2.5    | 6     |
| V3044 | TPLO Large Breeds Support (R)                        | 86    | 2.5    | 6     |
| V3045 | TPLO L Support Prebended (L)                         | 46    | 2.0    | 4     |
| V3046 | TPLO L Support Prebended (R)                         | 46    | 2.0    | 4     |
| V3051 | CBLO Support (L)                                     | 74    | 2.5    | 6     |
| V3052 | CBLO Support (R)                                     | 74    | 2.5    | 6     |
| V3057 | CBLO Support Medium (L)                              | 56.5  | 2.5    | 6     |
| V3058 | CBLO Support Medium (R)                              | 56.5  | 2.5    | 6     |
| V3061 | TPLO Clover Medium Support (L)                       | 55.3  | 2.8    | 5+1   |

| Ref.  | Description                    | L. mm | THK mm | Holes |
|-------|--------------------------------|-------|--------|-------|
| V3062 | TPLO Clover Medium Support (R) | 55.3  | 2.8    | 5+1   |
| V3063 | TPLO Clover Large Support (L)  | 60.5  | 2.8    | 5+1   |
| V3064 | TPLO Clover Large Support (R)  | 60.5  | 2.8    | 5+1   |
| V3065 | TPLO Clover Broad Support (L)  | 79    | 3.0    | 7+1   |
| V3066 | TPLO Clover Broad Support (R)  | 79    | 3.0    | 7+1   |
| V3067 | TPLO Clover XXL Support (L)    | 95    | 3.7    | 9+1   |
| V3068 | TPLO Clover XXL Support (R)    | 95    | 3.7    | 9+1   |
| V3109 | DPO Support 25° (L)            | 41.3  | 3.0    | 3+3   |
| V3110 | DPO Support 25° (R)            | 41.3  | 3.0    | 3+3   |
| V3111 | DPO Support 30° (L)            | 41.3  | 3.0    | 3+3   |
| V3112 | DPO Support 30° (R)            | 41.3  | 3.0    | 3+3   |
| V3115 | TPO Support 25° (L)            | 43.8  | 3.0    | 3+4   |
| V3116 | TPO Support 25° (R)            | 43.8  | 3.0    | 3+4   |
| V3117 | TPO Support 30° (L)            | 43.8  | 3.0    | 3+4   |
| V3118 | TPO Support 30° (R)            | 43.8  | 3.0    | 3+4   |
| V3201 | Straight Support               | 61    | 1.5    | 4     |
| V3202 | Straight Support               | 81    | 2.0    | 6     |
| V3203 | Straight Support               | 109   | 2.0    | 6     |
| V3204 | Straight Support               | 69    | 2.0    | 5     |
| V3302 | Straight Support               | 95    | 2.5    | 6     |
| V3303 | Straight Support               | 119   | 2.5    | 6     |
| V3304 | Straight Support               | 139   | 2.5    | 6     |
| V3305 | Straight Support               | 161   | 2.5    | 6     |
| V3307 | Straight Support               | 161   | 2.5    | 8     |
| V3401 | Straight Support               | 171   | 3.0    | 6     |
| V3402 | Straight Support               | 191   | 3.0    | 6     |
| V3405 | Straight Support               | 191   | 3.0    | 8     |

**/ AUTOLOCKING SCREWS | Ø3.0MM**

| Ref.  | L. mm |
|-------|-------|
| V2610 | 10    |
| V2612 | 12    |
| V2614 | 14    |
| V2616 | 16    |
| V2618 | 18    |
| V2620 | 20    |
| V2622 | 22    |
| V2624 | 24    |
| V2626 | 26    |
| V2628 | 28    |
| V2630 | 30    |



Ti6Al4V - ISO 5832-3

**/ AUTOLOCKING SCREWS | Ø4.0MM**

| Ref.  | L. mm |
|-------|-------|
| V3916 | 16    |
| V3918 | 18    |
| V3920 | 20    |
| V3922 | 22    |
| V3924 | 24    |
| V3926 | 26    |
| V3928 | 28    |
| V3930 | 30    |
| V3932 | 32    |
| V3934 | 34    |
| V3936 | 36    |
| V3938 | 38    |
| V3942 | 42    |
| V3946 | 46    |
| V3950 | 50    |
| V3954 | 54    |
| V3958 | 58    |
| V3962 | 62    |
| V3966 | 66    |
| V3970 | 70    |



Ti6Al4V - ISO 5832-3

**/ AUTOLOCKING SCREWS | Ø3.5MM**

| Ref.  | L. mm |
|-------|-------|
| V3512 | 12    |
| V3514 | 14    |
| V3516 | 16    |
| V3518 | 18    |
| V3520 | 20    |
| V3522 | 22    |
| V3524 | 24    |
| V3526 | 26    |
| V3528 | 28    |
| V3530 | 30    |
| V3532 | 32    |
| V3534 | 34    |
| V3536 | 36    |
| V3538 | 38    |
| V3542 | 42    |
| V3546 | 46    |
| V3550 | 50    |
| V3554 | 54    |
| V3558 | 58    |
| V3562 | 62    |
| V3566 | 66    |
| V3570 | 70    |



Ti6Al4V - ISO 5832-3

**/ REDUCED HEAD CORTICAL SCREW | Ø3.5MM**

| Ref.  | L. mm |
|-------|-------|
| V3610 | 10    |
| V3612 | 12    |
| V3614 | 14    |
| V3616 | 16    |
| V3618 | 18    |
| V3620 | 20    |
| V3622 | 22    |
| V3624 | 24    |
| V3626 | 26    |
| V3628 | 28    |
| V3630 | 30    |
| V3632 | 32    |
| V3634 | 34    |
| V3636 | 36    |
| V3638 | 38    |
| V3642 | 42    |
| V3646 | 46    |
| V3650 | 50    |



Ti6Al4V - ISO 5832-3

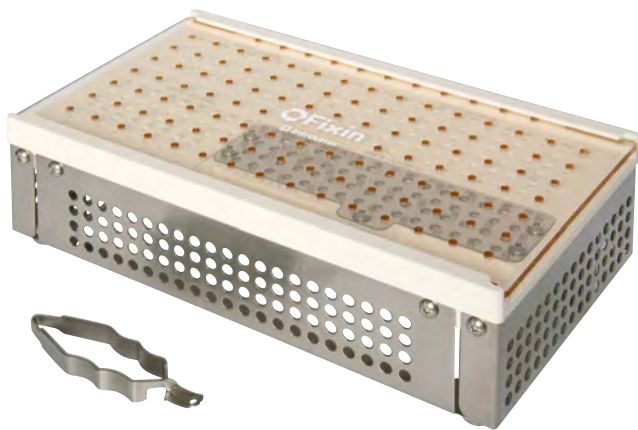


## 3.0-3.5-4.0 Series - Ordering Information

### / SCREW CASE

**REF. VS310**

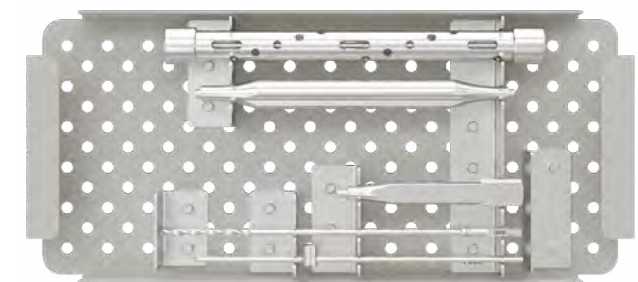
Screw Case Ø3.0-3.5-4.0-3.5C (Dim. 235x133x67mm)  
Screw tweezers included



### / INSTRUMENT TRAY

**REF. VS302**

3.0 - 3.5 - 4.0 Series Instruments Tray  
The tray is provided without instruments



### / BUSHING



**REF. V130**  
3.0-3.5-4.0 Series Bushing



**REF. V133**  
3.0-3.5-4.0 Series Low Profile Bushing



**REF. V134**  
3.0-3.5-4.0 Series Downsize Bushing

**REF. V1340**  
3.0-3.5-4.0 Series Downsize Bushing (10 pcs)



**REF. V135**  
3.0-3.5-4.0 Series Plug



**REF. V136**  
3.0-3.5-4.0 Series Head Converter

**/ INSTRUMENTATION**

**REF. VS33**  
3.0-3.5-4.0 Series Depth Meter



**REF. S340**  
2.5mm Hex Screwdriver



**REF. VS35**  
3.0-3.5-4.0 Series Bushing Carrier / Extractor



**REF. VS38**  
3.0-3.5-4.0 Series Conical Extractor



**REF. VS355**  
3.0-3.5-4.0 Series Low Profile Bushing Assembler



**REF. VS36**  
3.0-3.5-4.0 Series Pin Stoppers

**REF. VS360**  
Pin Stopper Wires Ø2.5mm (10 pcs)



**REF. VS380**  
Drill Guide Ø3.5mm



**REF. VS381**  
Drill Guide Ø3.0mm



**REF. VS385**  
Ø3.5mm Cortical Screw Drill Guide



**REF. VS390**  
Drill Bit Ø2.8mm



**REF. VS391**  
Drill Bit Ø2.5mm



**REF. VS392**  
Drill Bit Ø3.0mm



**REF. VSVS**  
Temporary Stabilization Screw Ø3.5mm



**REF. VSV30**  
Temporary Stabilization Screw Ø3.0mm



**/ DPO INSTRUMENTATION**

**REF. VS382**  
Long Drill Guide Ø4.0mm







**REF. VS383**  
DPO Positioner





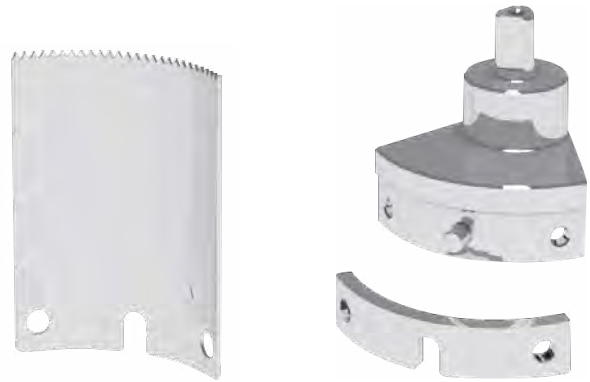
### 3.0-3.5-4.0 Series - Quick Reference Chart Autlocking Screws, Reduced Head Cortical Screws, Drill Guides, Drill Bits

|                 | SCREW DIAMETER (MM)  |  |  |  |
|-----------------|--|--|--|--|
| THREAD DIAMETER | Ø3.0   | Ø3.5   | Ø3.5   | Ø4.0   |
| SCREW IMAGE     | <br><b>REF. V26XX</b> | <br><b>REF. V35XX</b> | <br><b>REF. V36XX</b> | <br><b>REF. V39XX</b> |
| SCREW TYPE      | Autlocking<br>Self-tapping   | Autlocking<br>Self-tapping   | Reduced Head Cortical<br>Self-tapping  | Autlocking<br>Self-tapping   |
| METAL ALLOY     | Titanium<br>Ti6Al4V - ISO 5832-3   | Titanium<br>Ti6Al4V - ISO 5832-3   | Titanium<br>Ti6Al4V - ISO 5832-3   | Titanium<br>Ti6Al4V - ISO 5832-3   |
| THREAD LENGTH   | Full   | Full   | Full   | Full   |
| DRILL GUIDE     | <b>REF. VS381</b><br>Drill Guide<br>Ø3.0mm   | <b>REF. VS380</b><br>Drill Guide<br>Ø3.5mm   | <b>REF. VS385</b><br>Ø3.5mm<br>Cortical Screw<br>Drill Guide   | <b>REF. VS382</b><br>Long Drill Guide<br>Ø4.0mm  |
| DRILL BIT       | <b>REF. VS391</b><br>Drill Bit<br>Ø2.5mm   | <b>REF. VS390</b><br>Drill Bit<br>Ø2.8mm   | <b>REF. VS390</b><br>Drill Bit<br>Ø2.8mm   | <b>REF. VS392</b><br>Drill Bit<br>Ø3.0mm   |

# General instrumentation.

## / FIXIN SAW BLADES

| Ref.  | Description             | Radius    |
|-------|-------------------------|-----------|
| VS949 | Kit TPLO/CBLO Saw Blade | 8         |
| VS909 | TPLO/CBLO Saw Blade     | 9.5       |
| VS912 | TPLO/CBLO Saw Blade     | 12        |
| VS915 | TPLO/CBLO Saw Blade     | 15        |
| VS918 | TPLO/CBLO Saw Blade     | 18        |
| VS921 | TPLO/CBLO Saw Blade     | 21        |
| VS924 | TPLO/CBLO Saw Blade     | 24        |
| VS927 | TPLO/CBLO Saw Blade     | 27        |
| VS930 | TPLO/CBLO Saw Blade     | 30        |
| VS940 | Hub Small               | 9.5-12-15 |
| VS941 | Hub Medium              | 18-21     |
| VS942 | Hub Large               | 24-27-30  |



Saw Blade

Hub

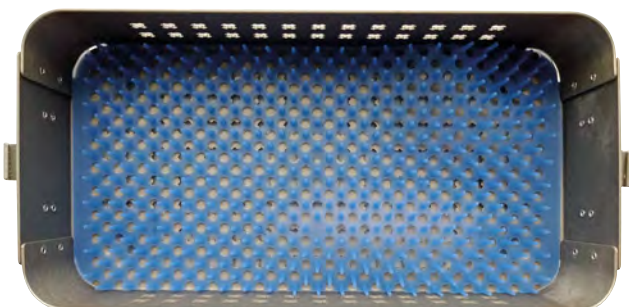
## / K-WIRE

| Ref.   | Description          | Pcs |
|--------|----------------------|-----|
| VS4100 | K-Wire Ø1.0mm L. 100 | 10  |
| VS4110 | K-Wire Ø1.2mm L. 100 | 10  |
| VS4120 | K-Wire Ø1.5mm L. 80  | 10  |
| VS4130 | K-Wire Ø2.0mm L. 100 | 10  |
| VS4135 | K-Wire Ø3.0mm L. 100 | 10  |
| VS6100 | K-Wire Ø3.0mm L. 280 | 10  |

## / INSTRUMENT BOX

### REF. VS312

Sterilization Case



# General instrumentation.

## / PLATE BENDER

### REF. VS325

1.9-2.5 / 3.0-3.5-4.0 Series Plate Bender (2 pcs)

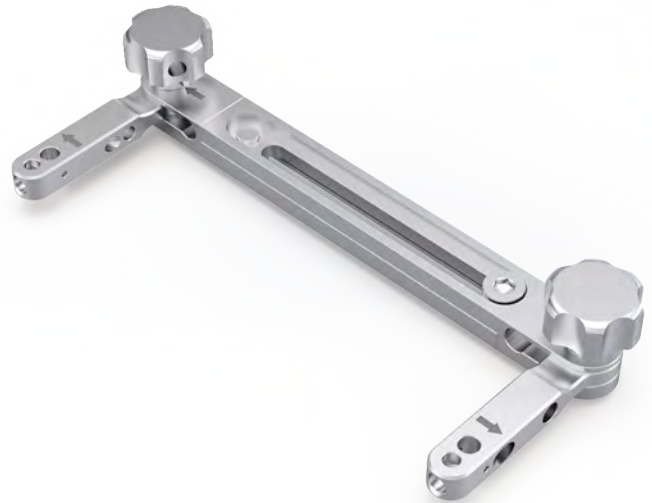


**/ JIG**

**REF. VS901**  
Small Rail Jig

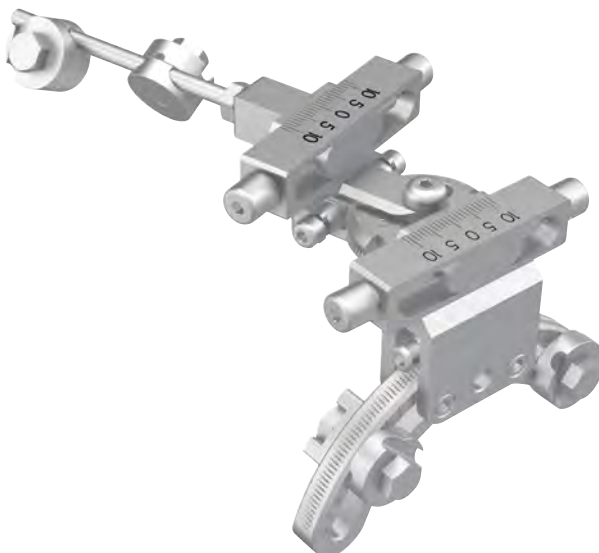


**REF. VS900**  
Large Rail Jig

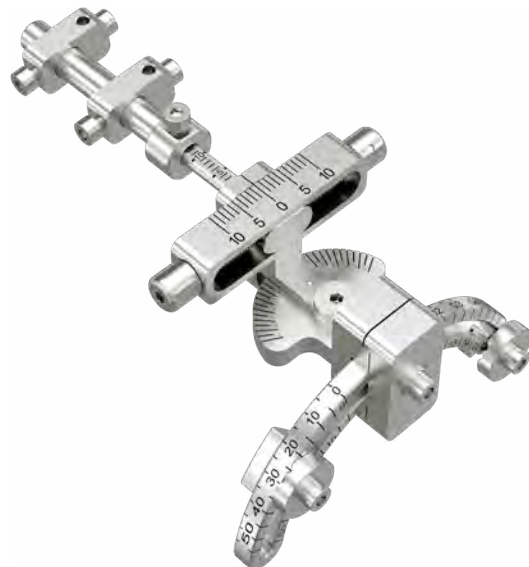


**/ ALD JIG**

**REF. VS800**  
Limb Deformity Jig



**REF. VS801**  
Limb Deformity Jig Small/Medium



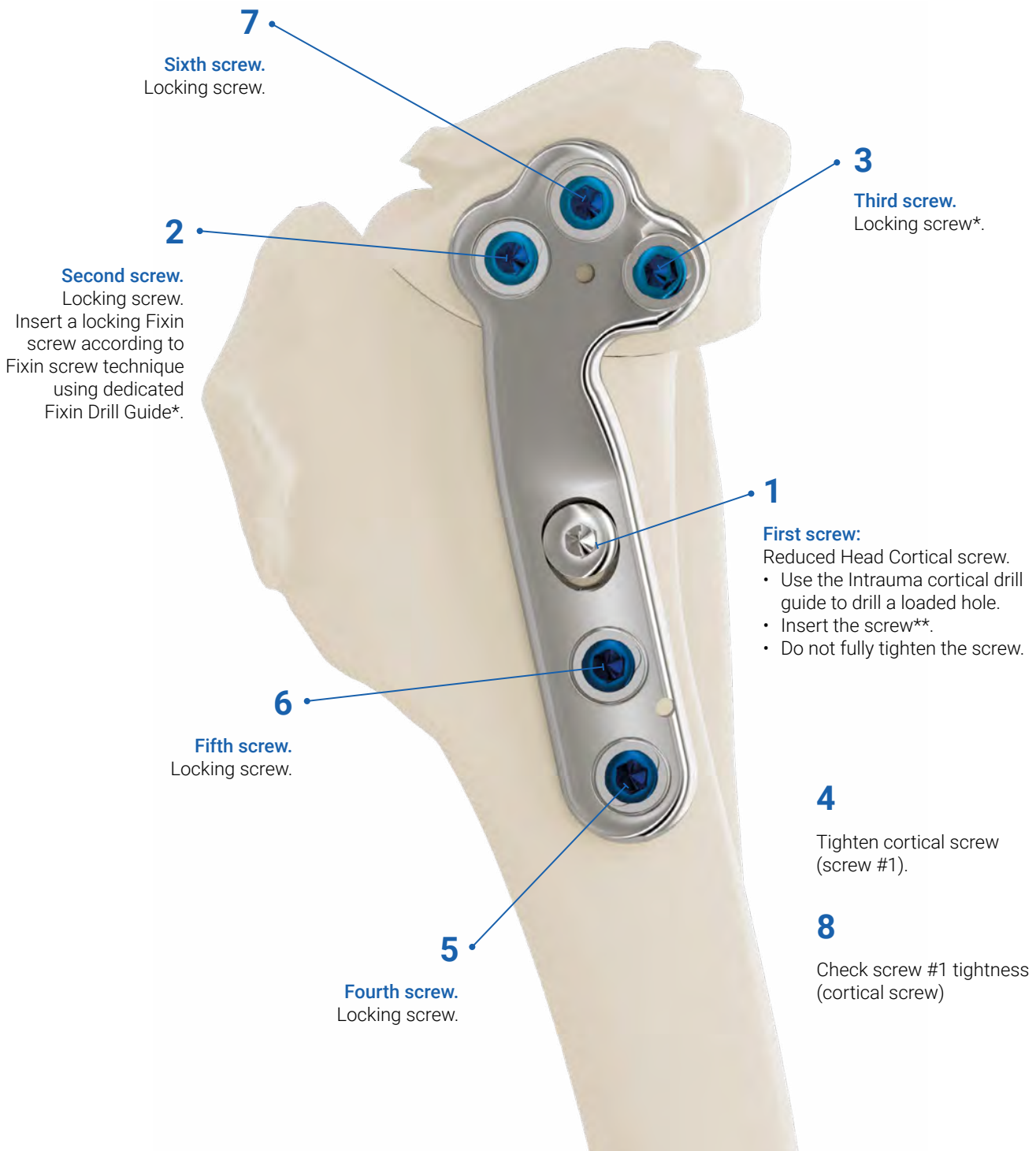
# Weight Table / Kg.





# TPLO Clover.

## Screw-application Sequence Instructions



\* Fixin internal fixator: Concept and technique, M. Petazzoni; A. Urizzi; B. Verdonck; G. Jaeger, Vet Comp Orthop Traumatol 4/2010.

\*\* Apply bicortical screws. Screws are applied according to depth gauge measurement. Screws length should account for the cutting flute of the self tapping screw to be past the far cortex.

# TPLO Clover indications.

## Quick Reference Chart



| Ref.                                 | Description   | Weight Kg. | Blade |
|--------------------------------------|---|------------|-------|
| <b>V1861</b> (L)<br><b>V1862</b> (R) | <b>TPLO Clover Micro</b><br>Length: 26.6mm<br>Thickness: 1.5mm  | 3-5        | 12    |
| <b>V2063</b> (L)<br><b>V2064</b> (R) | <b>TPLO Clover Mini XS</b><br>Length: 37mm<br>Thickness: 2.2mm  | up to 10   | 12-15 |
| <b>V2061</b> (L)<br><b>V2062</b> (R) | <b>TPLO Clover Mini</b><br>Length: 44mm<br>Thickness: 2.5mm     | 10-15      | 18    |
| <b>V3061</b> (L)<br><b>V3062</b> (R) | <b>TPLO Clover Medium</b><br>Length: 55.3mm<br>Thickness: 2.8mm | up to 35   | 21-24 |
| <b>V3063</b> (L)<br><b>V3064</b> (R) | <b>TPLO Clover Large</b><br>Length: 60.5mm<br>Thickness: 2.8mm  | up to 50   | 24-27 |
| <b>V3065</b> (L)<br><b>V3066</b> (R) | <b>TPLO Clover Broad</b><br>Length: 79mm<br>Thickness: 3.0mm    | 50-70      | 27-30 |
| <b>V3067</b> (L)<br><b>V3068</b> (R) | <b>TPLO Clover XXL</b><br>Length: 95mm<br>Thickness: 3.7mm      | 70-80      | 30-33 |

The values in this table are provided only as a guide. The implant choice has to be based on surgeons experience. Surgeons must also consider patients attitude, temperament and containment conditions.

# TPLO Rotation.

## Quick Reference Chart.

### Preoperative Tibial Plateau Angle (TPA)

| 15° | 16° | 17° | 18° | 19° | 20° | 21° | 22° | 23° | 24° | 25° | 26° | 27° |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

### Rotation (mm) – Provides Resultant 5° TPA

| Saw Radius | 8mm   | 1.4  | 1.5  | 1.6 | 1.7 | 1.9  | 2.0  | 2.1  | 2.3  | 2.4  | 2.5  | 2.7  | 2.8   | 2.9   |
|------------|-------|------|------|-----|-----|------|------|------|------|------|------|------|-------|-------|
|            | 9.5mm | 1.6  | 1.8  | 1.9 | 2.1 | 2.2  | 2.4  | 2.6  | 2.7  | 2.9  | 3.0  | 3.2  | 3.3   | 3.5   |
|            | 10mm  | 1.7  | 1.9  | 2.1 | 2.2 | 2.4  | 2.6  | 2.7  | 2.9  | 3.0  | 3.2  | 3.4  | 3.5   | 3.7   |
|            | 12mm  | 2.0  | 2.2  | 2.4 | 2.6 | 2.9  | 3.1  | 3.3  | 3.5  | 3.7  | 3.9  | 4.1  | 4.3   | 4.5   |
|            | 15mm  | 2.6  | 2.8  | 3.1 | 3.3 | 3.6  | 3.8  | 4.1  | 4.3  | 4.6  | 4.9  | 5.1  | 5.4   | 5.6   |
|            | 18mm  | 3.1  | 3.4  | 3.7 | 4.0 | 4.3  | 4.6  | 4.9  | 5.2  | 5.5  | 5.8  | 6.1  | 6.5   | 6.8   |
|            | 21mm  | 3.6  | 4.0  | 4.3 | 4.7 | 5.0  | 5.4  | 5.8  | 6.1  | 6.5  | 6.8  | 7.2  | 7.5   | 7.9   |
|            | 24mm  | 4.1  | 4.5  | 5.0 | 5.4 | 5.8  | 6.2  | 6.6  | 7.0  | 7.4  | 7.8  | 8.2  | 8.6   | 9.0   |
|            | 27mm  | 4.7  | 5.1  | 5.6 | 6.0 | 6.5  | 7.0  | 7.4  | 7.9  | 8.4  | 8.8  | 9.3  | 9.7   | 10.2  |
|            | 30mm  | 5.2  | 5.7  | 6.2 | 6.7 | 7.2  | 7.8  | 8.3  | 8.8  | 9.3  | 9.8  | 10.3 | 10.8  | 11.3  |
|            | 33mm  | 5.75 | 6.25 | 7.0 | 7.5 | 8.25 | 8.75 | 9.25 | 9.75 | 10.5 | 11.0 | 11.5 | 12.25 | 12.75 |

### Preoperative Tibial Plateau Angle (TPA)

| 28° | 29° | 30° | 31° | 32° | 33° | 34° | 35° | 36° | 37° | 38° | 39° | 40° |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

### Rotation (mm) – Provides Resultant 5° TPA

| Saw Radius | 8mm   | 3.1   | 3.2  | 3.3  | 3.5  | 3.6  | 3.7   | 3.8   | 4.0  | 4.1  | 4.2  | 4.4   | 4.5   | 4.6   |
|------------|-------|-------|------|------|------|------|-------|-------|------|------|------|-------|-------|-------|
|            | 9.5mm | 3.7   | 3.8  | 4.0  | 4.1  | 4.3  | 4.4   | 4.6   | 4.7  | 4.9  | 5.1  | 5.2   | 5.4   | 5.5   |
|            | 10mm  | 3.9   | 4.0  | 4.2  | 4.4  | 4.5  | 4.7   | 4.9   | 5.0  | 5.2  | 5.4  | 5.5   | 5.7   | 5.9   |
|            | 12mm  | 4.7   | 4.9  | 5.1  | 5.3  | 5.5  | 5.7   | 5.9   | 6.1  | 6.3  | 6.4  | 6.6   | 6.8   | 7.0   |
|            | 15mm  | 5.9   | 6.1  | 6.4  | 6.6  | 6.9  | 7.1   | 7.4   | 7.6  | 7.9  | 8.1  | 8.4   | 8.6   | 8.8   |
|            | 18mm  | 7.1   | 7.4  | 7.7  | 8.0  | 8.3  | 8.6   | 8.9   | 9.2  | 9.5  | 9.8  | 10.1  | 10.3  | 10.6  |
|            | 21mm  | 8.3   | 8.6  | 9.0  | 9.3  | 9.7  | 10.0  | 10.4  | 10.7 | 11.1 | 11.4 | 11.8  | 12.1  | 12.4  |
|            | 24mm  | 9.5   | 9.9  | 10.3 | 10.7 | 11.1 | 11.5  | 11.9  | 12.3 | 12.7 | 13.1 | 13.5  | 13.9  | 14.3  |
|            | 27mm  | 10.6  | 11.1 | 11.6 | 12.0 | 12.5 | 12.9  | 13.4  | 13.8 | 14.3 | 14.7 | 15.2  | 15.6  | 16.1  |
|            | 30mm  | 11.8  | 12.3 | 12.9 | 13.4 | 13.9 | 14.4  | 14.9  | 15.4 | 15.9 | 16.4 | 16.9  | 17.4  | 17.9  |
|            | 33mm  | 13.25 | 14.0 | 14.5 | 15.0 | 15.5 | 16.25 | 16.75 | 17.5 | 18.0 | 18.5 | 19.25 | 19.75 | 20.25 |



**/ SCREWS CARD**

Mark holes of screws that have been used in surgery

|                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <b>VS191</b>             | <b>Ø1.3 - LOCKING</b>    |                          |                          |                          |                          |                          |                          |                          | <b>Ø1.5 - CORTICAL</b>   |                          |                          |                          |                          |                          |                          |                          | <b>Ø1.7 - LOCKING</b>    |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|                          | 6                        | 7                        | 8                        | 9                        | 10                       | 12                       | 14                       | 16                       | 6                        | 7                        | 8                        | 9                        | 10                       | 12                       | 14                       | 16                       | 6                        | 7                        | 8                        | 9                        | 10                       | 12                       | 14                       | 16                       | 18                       | 20                       |
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| <b>VS200</b>             | <b>Ø1.9 - LOCKING</b>    |                          |                          |                          |                          |                          |                          |                          |                          |                          | <b>Ø2.5 - LOCKING</b>    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|                          | 6                        | 7                        | 8                        | 9                        | 10                       | 12                       | 14                       | 16                       | 18                       | 10                       | 12                       | 14                       | 16                       | 18                       | 20                       | 22                       | 24                       | 26                       | 28                       | 30                       |                          |                          |                          |                          |                          |                          |
|                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                          |                          |                          |                          |                          |                          |
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| <b>Ø2.7 - CORTICAL</b>   |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          | <b>Ø2.0 - CORTICAL</b>   |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| 8                        | 9                        | 10                       | 12                       | 14                       | 16                       | 18                       | 20                       | 22                       | 24                       | 26                       | 28                       | 30                       | 8                        | 10                       | 12                       | 14                       | 16                       | 18                       | 20                       | 22                       | 24                       | 26                       |                          |                          |                          |                          |
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| <b>VS310</b>             | <b>Ø3.0 - LOCKING</b>    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          | <b>Ø3.5 - LOCKING</b>    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
|                          | 10                       | 12                       | 14                       | 16                       | 18                       | 20                       | 22                       | 24                       | 26                       | 28                       | 30                       | 12                       | 16                       | 18                       | 20                       | 22                       | 24                       | 26                       | 28                       | 30                       | 32                       | 34                       | 36                       | 38                       | 42                       |                          |
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| <b>Ø3.5 - CORTICAL</b>   |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          | <b>Ø4.0 - LOCKING</b>    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| 12                       | 14                       | 16                       | 18                       | 20                       | 22                       | 24                       | 26                       | 28                       | 16                       | 18                       | 20                       | 22                       | 24                       | 26                       | 28                       | 30                       | 32                       | 34                       | 36                       | 38                       | 42                       | 46                       | 50                       |                          |                          |                          |
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**To be filled by ANIMAL HOSPITAL**

N° of used screws as per filled form

Ship date: \_\_\_\_\_

Customer name: \_\_\_\_\_

Tracking n°: UPS - FEDEX \_\_\_\_\_

Contact phone: \_\_\_\_\_

Signature: \_\_\_\_\_



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