

# SISU TPLO Locking Plates



DESIGNED IN  
**FINLAND**



**mathemedix**

Easy-to-use quality instruments and  
implants for veterinary surgery

**SISU** *Introducing the SISU TPLO Plate, embodying the essence of the Finnish concept "sisu" – an action-oriented mindset encompassing stoic determination, hardiness, courage, and resilience. Sisu symbolizes the relentless spirit that fueled the journey of designing an orthopedic implant, redefining excellence in TPLO procedures.*



## SISU TPLO Locking Plate

The name "Sisu" seamlessly merges the enduring strength and innovation encapsulated within the design of the TPLO plate, epitomizing the unyielding determination and resilience of Mathemedix. It reflects a deep-rooted commitment to pushing the boundaries of orthopedic innovation.

SISU TPLO Plate not only captures the essence of strength and innovation but also honors the resilience and determination that define the journey of creating this remarkable orthopedic solution.





## SISU TPLO Locking Plate



### Features:

- Available in Right and Left versions for 1.5, 2.0, 2.4, 2.7, 3.0, 3.5 standard, 3.5 small and 3.5 broad.
- Implants made of implant-quality 316L stainless steel.
- Provisional fixation pin slots for additional compression. Dedicated threaded pins with balls are inserted in the slots, enabling provisional fixation of the plate. By applying customized forceps to the proximal and distal pins, additional compression is achieved as the pin glides a few millimeter in the distal slot.

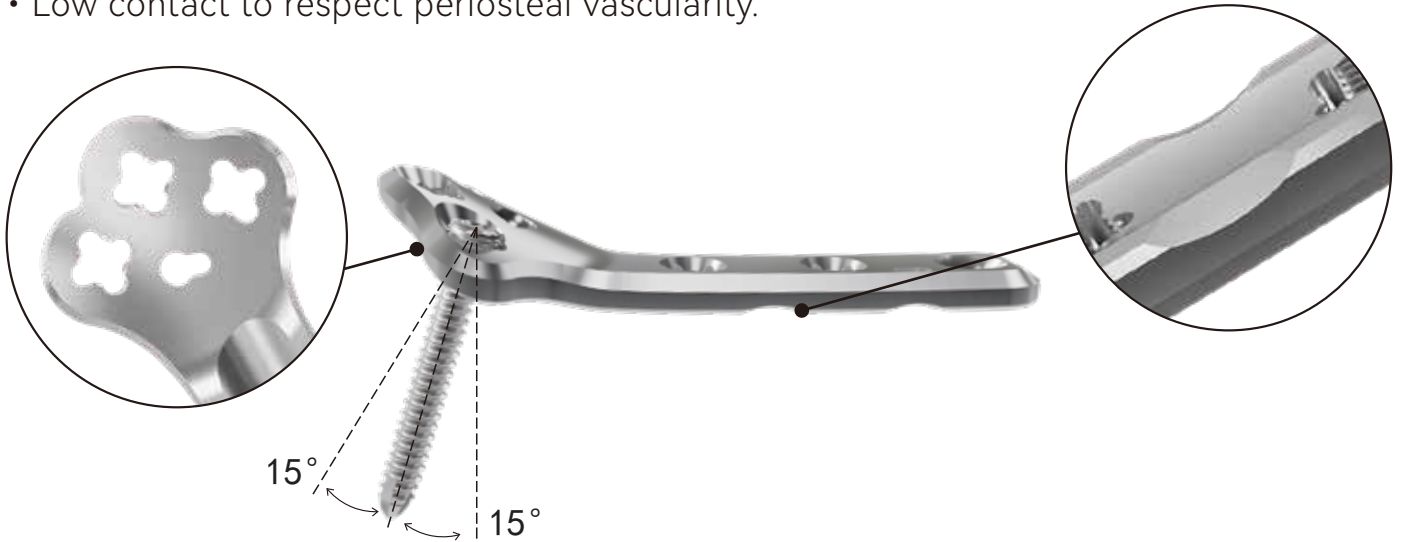




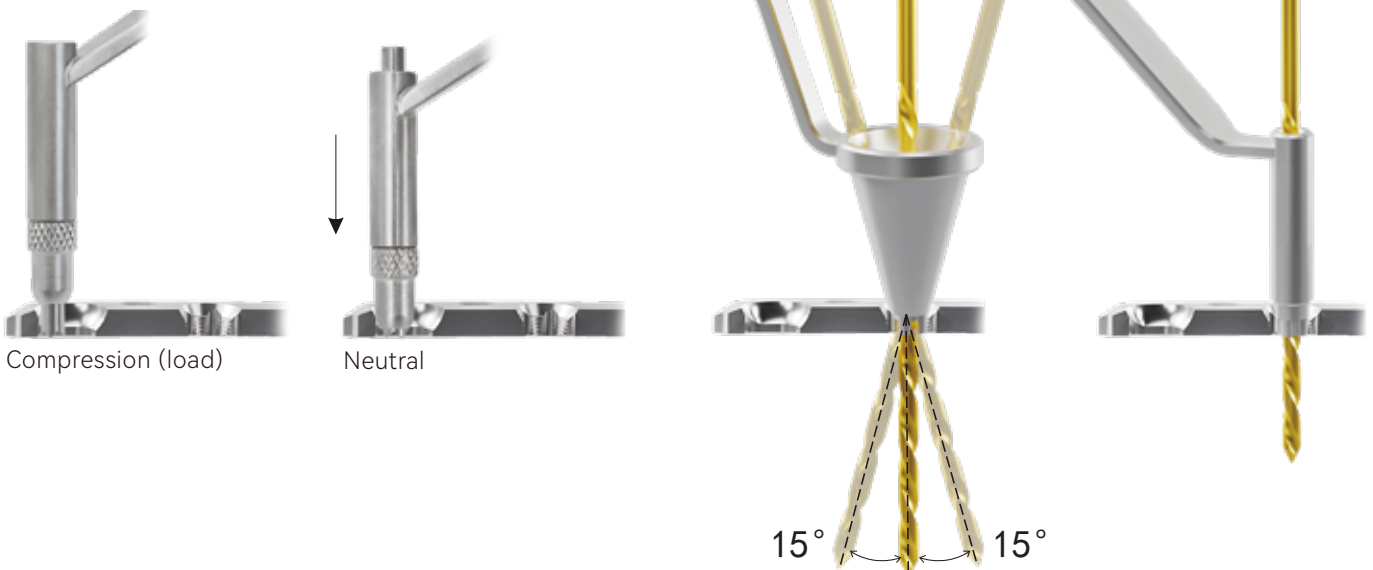
## SISU TPLO Locking Plate

### Features:

- Precontoured for a perfect anatomical fit on the medial surface of the proximal tibia.
- Low contact to respect periosteal vascularity.



- Polyaxial screw holes for versatile screw placement. The polyaxial hole offers the option of a pre-oriented trajectory or variable angle within 15 degrees in every direction using two different dedicated drill guides.
- LC-DCP hole allows compression.

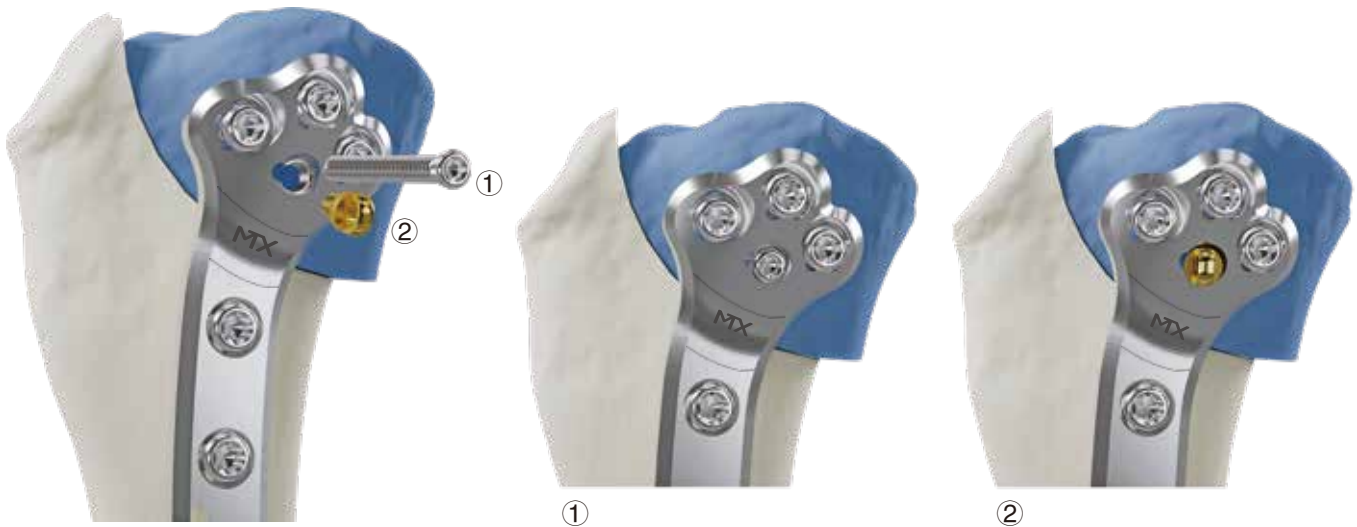




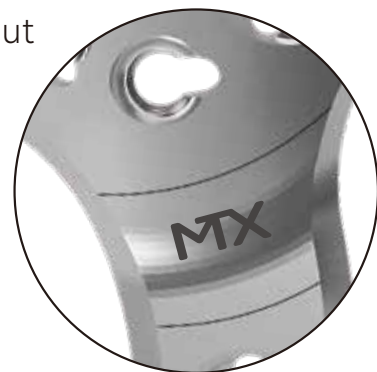
## SISU TPLO Locking Plate

### Features:

- Multifunctional hole in the center of the plate's head for cranial compression of the osteotomy and extra anchoring points. The hole allows placement of a standard screw of smaller size oriented within 8 degrees in every direction or insertion of a smaller diameter locking screw at a fixed angle. It also accommodates a locking bolt with an eyelet for securing wires or suture materials in case of stifle trauma and instability due to collateral ligament damage.



- Tapered distal plate end with a slot for Hohmann retractor for soft tissue retraction and minimally invasive applications.
- Applications in TPLO-M. The contourability of the plate is facilitated by the reshaped bending tracks on both sides of the plate neck. The first polyaxial hole below the osteotomy allows plate placement even without perfect contact while maintaining strong fixation.





## SISU TPLO Locking Plate

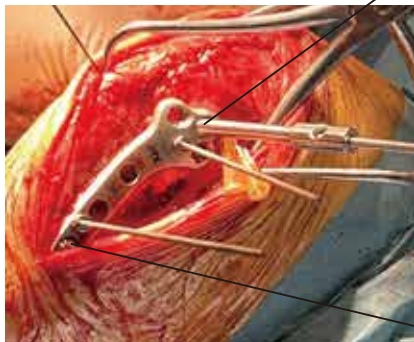
### Surgical Technique:



**1.** Hold the plate in contact, and insert the proximal pin with the ball. Ensure only light contact of the ball with the sides of the screw hole, and maintain the shaft of the plate in contact with the tibia surface.

**2.** Hold the plate in contact, and insert the distal pin with the ball. Place the pin in the lowest part of the slot. After tightening the distal screw, you will notice that the plate slides over the pin.

**3.** Insert a standard screw in compression mode, but do not tighten it completely.



**4.** Using the standard locking drill guide, insert it coaxial to the screw hole. Coaxial insertion provides a pre-orientation of the screw in the standard distal direction. After drilling, insert the appropriate length locking screw and tighten it.

**5.** Tighten the distal screw to achieve compression.

Fit the other plate holes with locking screws following the desired order. Use a coaxial direction unless it is necessary to use polyaxial screws.

The polyaxial direction can be achieved in any direction within a maximum of 15 degrees. You can use a dedicated polyaxial drill guide or the standard locking drill guide, orienting it within a 15-degree angle in your planned direction. For more information, check the product brochure.



## SISU TPLO Locking Plate

### TPLO15L/TPLO15R

1.5mm TPLO Locking Plate

Width: 4.2mm  
Length: 24mm  
Holes: 3+3



TPLO

### TPLO20L/TPLO20R

2.0mm TPLO Locking Plate

Width: 5.5mm  
Length: 30mm  
Holes: 3+3



TPLO

### TPLO24L/TPLO24R

2.4mm TPLO Locking Plate

Width: 6.5mm  
Length: 35mm  
Holes: 3+3



TPLO

### TPLO27L/TPLO27R

2.7mm TPLO Locking Plate

Width: 8.5mm  
Length: 42mm  
Holes: 3+3



TPLO

### TPLO30L/TPLO30R

3.0mm TPLO Locking Plate

Width: 10mm  
Length: 48mm  
Holes: 3+3



TPLO



## SISU TPLO Locking Plate

### TPLO35SL/TPLO35SR

3.5mm Small TPLO Locking Plate  
Width: 11mm  
Length: 55mm  
Holes: 3+3



TPLO

### TPLO35L/TPLO35R

3.5mm TPLO Locking Plate  
Width: 12mm  
Length: 65mm  
Holes: 3+3



TPLO

### TPLO35BL/TPLO35BR

3.5mm Broad TPLO Locking Plate  
Width: 14.5mm  
Length: 80mm  
Holes: 4+4



TPLO



## SISU MPL TPLO Locking Plate

### TPLOM20L/TPLOM20R

2.0mm MPL TPLO Locking Plate

Width: 5.5mm  
Length: 30mm  
Holes: 3+3



MPL TPLO

### TPLOM24L/TPLOM24R

2.4mm MPL TPLO Locking Plate

Width: 6.8mm  
Length: 35mm  
Holes: 3+3



MPL TPLO

### TPLOM35L/TPLOM35R

3.5mm MPL TPLO Locking Plate

Width: 12mm  
Length: 65mm  
Holes: 3+3



MPL TPLO



## SISU TPLO Locking Plate

### / INSTRUMENTATION

#### **PLDG20**

2.0mm Polyaxial Locking Drill Guide

#### **PLDG24**

2.4mm Polyaxial Locking Drill Guide

#### **PLDG27**

2.7mm Polyaxial Locking Drill Guide

#### **PLDG30**

3.0mm Polyaxial Locking Drill Guide

#### **PLDG35**

3.5mm Polyaxial Locking Drill Guide



#### **PLDG35F**

3.5mm Polyaxial Locking Drill Guide, Free Hand



#### **MCD27**

2.7/1.5mm Compression/Distracton Threaded Rod

#### **MCD35**

3.5/2.0mm Compression/Distracton Threaded Rod



#### **MCD15**

1.5mm Compression/Distracton Pin, thread length 15mm

#### **MCD18**

1.8mm Compression/Distracton Pin, thread length 18mm

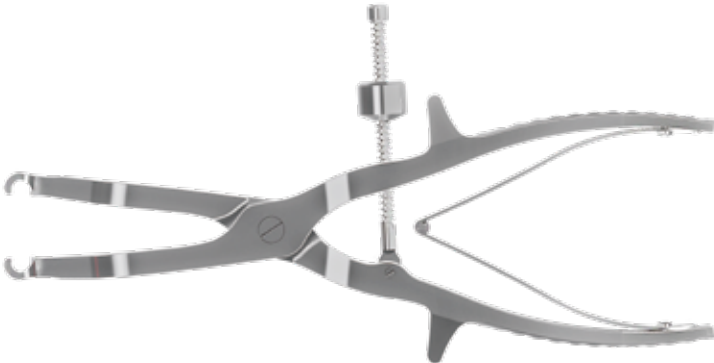
#### **MCD25**

2.5mm Compression/Distracton Pin, thread length 25mm



#### **MCD00**

Compression Forceps, with Speed Lock



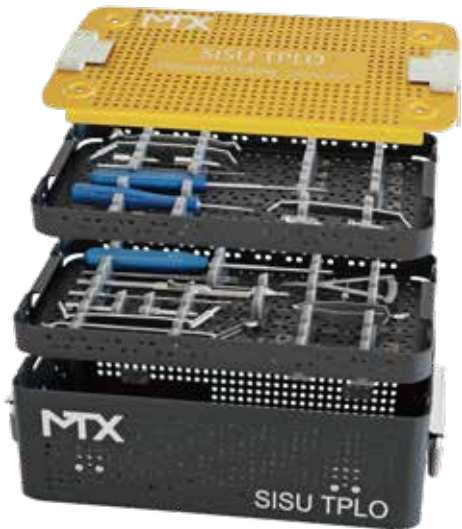


## SISU TPLO Locking Plate

### / INSTRUMENTATION

#### SISU152024P

1.5/2.0/2.4mm SISU TPLO Polyaxial Locking Set  
Fit with Autoclave 23L



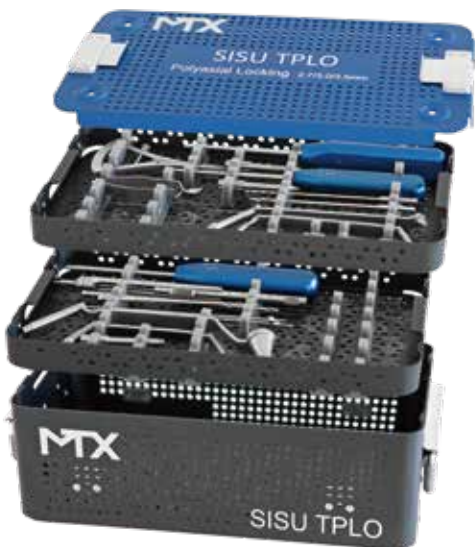
#### MC152024

1.5/2.0/2.4mm Locking Screws Caddy



#### SISU273035P

2.7/3.0/3.5mm SISU TPLO Polyaxial Locking Set  
Fit with Autoclave 23L










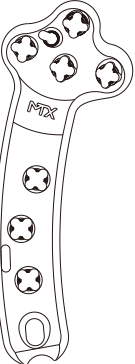
#### MC273035

2.7/3.0/3.5mm Locking Screws Caddy





## SISU TPLO Locking Plate

TPLO PATIENT WEIGHT RECOMMENDATIONS								
PLATE SIZE	1.5	2.0	2.4	2.7	3.0	3.5 Small	3.5	3.5 Broad
PLATE IMAGE								
LBS.	2 - 9 lbs	7 - 16 lbs	18 - 27 lbs	29 - 38 lbs	33 - 44 lbs	40 - 55 lbs	58 - 86 lbs	88 - 121 lbs
KGS.	1 - 4 kg	3 - 7 kg	8 - 12 kg	13 - 17 kg	15 - 20 kg	18 - 25 kg	26 - 39 kg	40 - 55 kg

### Please specify Right or Left when ordering TPLO Plates.

This plate selection chart is a guide. The plate, pin and screw selections remains the surgeon's decision, considering specific factors such as complexity of the fracture, age of the patient, body mass index, owner compliance, etc. We encourage surgeons to call MTX and be placed in touch with board certified surgeons on staff to review x-rays and offer FREE recommendations as to what implants to be used in uncommon / challenging situations in order to achieve desired outcomes.



**MTX**

mathemedix

