



**Gexfix** external fixation orthopaedics

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0459 FDA



# Gexfix external fixation orthopaedics

## product catalogue



www.gexfix.ch

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## Gexfix SA Geneva External Fixation was created in early 2004 by a group of professionals from the orthopaedic trauma sector.

The original investors include some key executives of major medical companies who recognised the great potential of Gexfix.

### **GEXFIX products are distributed worldwide.**

Gexfix is a networked team that works closely with its partners and clients. Each Gexfix employee is encouraged to take responsibility and to participate in decision making. This management philosophy enables the company to minimise risks, to forge dynamic partnerships with a human dimension and to develop innovative solutions.

Our main focus is external fixation, although we have also developed other applications in the field of orthopaedic surgery.

The use of external fixators has become a therapeutic treatment. We commercialise **quality products** that not only **facilitate orthopaedic operations** for the surgeon but also **bring enhanced comfort to the patient**.

### **Since its foundation, Gexfix has continually strived to:**

- improve its products and after-sales service
- anticipate market needs as a whole and for surgeons in particular
- maintain a team spirit that meets and exceeds the collective interest

Our suppliers who also work along these lines therefore bring an added value to our company.

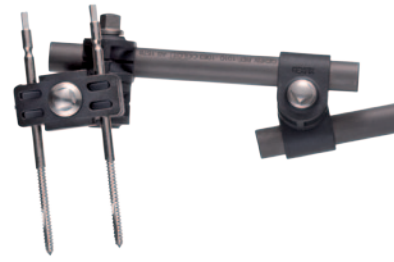
We work together with the **ASSUTEUROPE** Company, a major **Italian manufacturer of surgical sutures**.

All our products are CE certified and have been approved by the FDA (Food & Drug Administration) in USA.





# Minimally invasive surgery



## Patient viewpoint



Minimally invasive surgery offers the patient certain **advantages** in comparison with internal fixation systems, such as plates or studs.

**First:** it is a minimally invasive technique that is both simple and relatively fast. The risk of infection is reduced.

**Second:** the fixator can be removed in an outpatient clinic, so there is no need for subsequent major surgery.

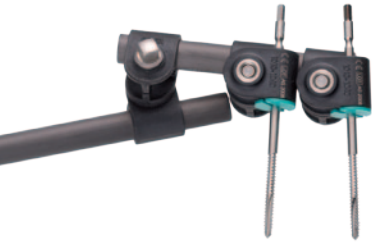
**Third:** In most cases the external fixator makes early mobilisation of joints adjacent to the fracture possible. External fixation facilitates micro-movements at the fracture site (in contrast to plates). This improves vascularisation at the fracture site and allows more rapid formation of a better quality bony callus.

Some medical protocols recommend temporary use of a fixator during the first few days after trauma. This allows the oedema to subside so that a better decision on appropriate treatment can be made.

**All in all:** it is a rapid technique that is simple and tested - requiring little recourse to complex devices. It reduces operation times and consequently the final cost for the patient.

As with any technique, it also has some **disadvantages:** the equipment is somewhat cumbersome while in place. There is still a risk of infection, and the patient should be careful to take the hygienic precautions recommended by his doctor. The device may be contraindicated, for example with osteoporosis. Please consult your specialist for further information.

Gexfix fixators are made of lightweight, high quality materials for improved patient comfort.



## Technical notes

The Gexfix external fixator is designed for treatment of diaphyseal and epiphyseal fractures. Its versatility makes osteotomy fast and efficient.

Components are completely compatible between the various models (small, large or hybrid).

- Pins can be inserted independently in any plane  
They are then connected with carbon tubes to form the fixation frame
- Pin cluster clamps holding 2 or 3 parallel pins provide a simple frame in one plane
- Three-plane fracture reduction and intraoperative or post-operative correction of fracture alignment is possible

### Technical features

- Swiss made
- Made of high performance composite material providing
- The high-performance composite materials are radiolucent (transparent to X-rays), allowing better visualisation of the fracture
- Maximum stability
- Significantly reduced weight compared with other external fixation frames
- High strength components result in frame configurations that are more compact than those of other systems
- Short learning curve for the surgeon
- Versality limited only by the anatomy
- Configuration possibilities are limited only by the anatomy
- Sterilisation boxed sets contain assorted components for construction of a virtually unlimited variety of frame configurations
- Can be used for definitive or temporary fixation

### PINS

- Material: Stainless-steel ASTM F-138 and ISO 5832-1
- Transfixing pins available
- All pins are self-drilling and self-tapping one step insertion, no predrilling needed
- Excellent holding power in cortical or cancellous bone

### Few basic components

- Improved hospital inventory management
- Traceability code and catalogue number engraved on each component

### Simple instrumentation

- Only one drill brace needed to insert pins and tighten frame components.
- Trocar and sleeve protection

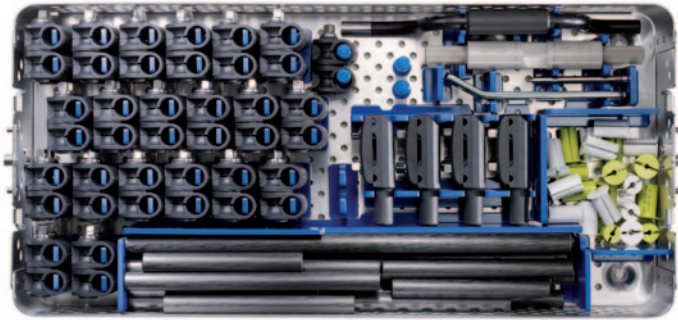
### TGF

The Tension Guide Fixator System kit (TGF) for fractures of the upper limb is based on insertion of two Kirschner wire guides and exertion of pressure until the required reduction is achieved. With the introduction of the TGF System, no other treatment method is necessary to treat surgical fractures of the subcapital humerus. The system permits simple, quick and efficient treatment of this type of fracture and most importantly, it allows partial movement of the limb as soon as surgery is completed.

Application also available for the wrist: CASLAU

# Fixator Large

Tray of Gexfix external fixation components, non-sterile



External Fixator Large Standard  
Dimensions 52 x 23 x 8 cm / Complete Tray 8 – 12 frames  
weight 10 kg



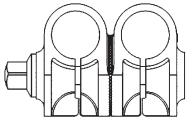
External Fixator Large Smart  
Dimensions 33 x 23 x 8 cm / Complete Tray 5 – 7 frames  
weight 5 kg

Reference	Description	Qty Standard	Qty Smart
1010-1000	Connection 15/15	45	12
1010-1010	Pin cluster clamp	4	
1010-1023	Reduction sleeve 15/4	20	6
1010-1024	Reduction sleeve 15/5	30	12
1010-1026	Reduction sleeve 15/9		2
1010-1032	Carbon tube 15 x 100	6	2
1010-1033	Carbon tube 15 x 125	6	2
1010-1034	Carbon tube 15 x 150	8	2
1010-1035	Carbon tube 15 x 200	4	2
1010-1036	Carbon tube 15 x 250	4	2
1010-1090	Lengthening compression tube	1	
2015-1020	Self drilling Pin 4 x 100	8	
2020-1020	Self drilling Pin 5 x 140	16	6
2020-1025	Self drilling Pin 5 x 170	12	6
2020-1030	Self drilling Pin 5 x 210	10	6
2020-1035	Self drilling Pin 5 x 110	12	6
2030-1020	Transfixing Pin 5/4 x 250	2	1

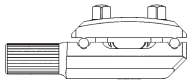
## Instrumentation:

5010-1000	Drill brace	1	1
5025-1000	Trocar L=70mm	1	1
5025-1100	Handle for Trocar STD	1	1
6010-1000	Sterilization Box LARGE STD	1	
6010-1013	Sterilization Box Smart		1

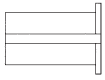




1010-1000 Connection 15/15



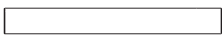
1010-1010 Pin cluster clamp



1010 – 1023 Reduction sleeve 15/4

1010 – 1024 Reduction sleeve 15/5

1010 – 1026 Reduction sleeve 15/9



1010 – 1032 Carbon tube 15 x 100

1010 – 1033 Carbon tube 15 x 125

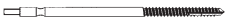
1010 – 1034 Carbon tube 15 x 150

1010 – 1035 Carbon tube 15 x 200

1010 – 1036 Carbon tube 15 x 250

1010 – 1038 Carbon tube 15 x 300

1010 – 1039 Carbon tube 15 x 350



2015 – 1020 Self drilling pin 4 x 100

2015 – 1025 Self drilling pin 4 x 145

2015 – 1030 Self drilling pin 4 x 180

2020 – 1020 Self drilling pin 5 x 140

2020 – 1025 Self drilling pin 5 x 170

2020 – 1030 Self drilling pin 5 x 210

2020 – 1035 Self drilling pin 5 x 110



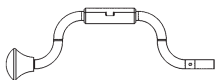
2030 – 1020 Transfixing pin 5/4 x 250

2030 – 1025 Transfixing pin 5/4 x 200

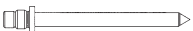


1010 – 1090 Lengthening compression tube

## Instrumentation

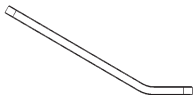


5010 – 1000 Drill brace

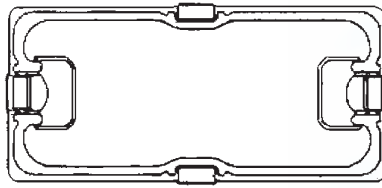


5025 – 1000 Trocar L= 70 mm

5025 – 1200 Trocar L= 120 mm

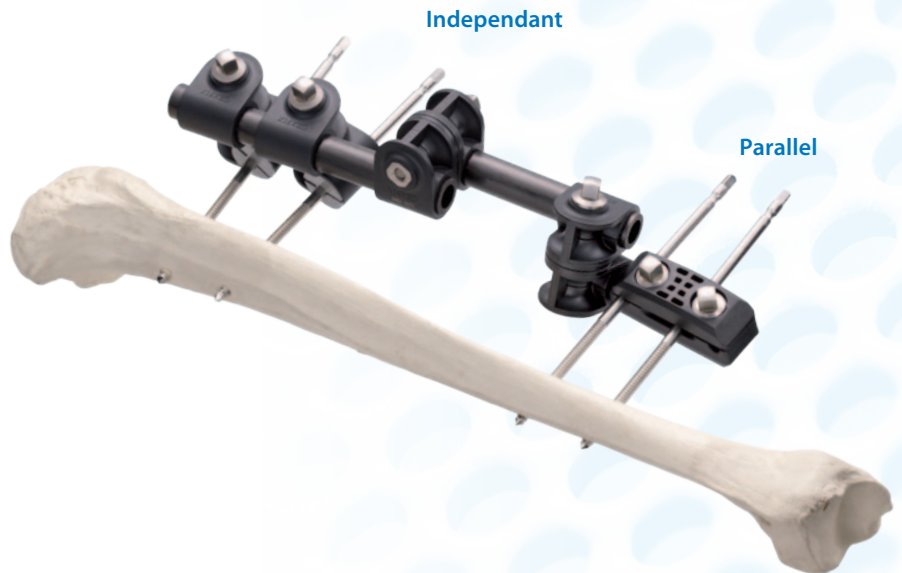


5025 – 1100 Handle for trocar STD



6010 – 1001 Sterilization Box Large STD

6010 – 1013 Sterilization Box SMART



### Composition

1010 – 1000	Connection 15/15	4
1010 – 1010	Pin cluster clamp	1
1010 – 1024	Reduction sleeve 15/5	2
1010 – 1033	Carbon tube 15 x 125	1
1010 – 1034	Carbon tube 15 x 150	1
2020 – 1020	Self drilling pin 5 x 140	4

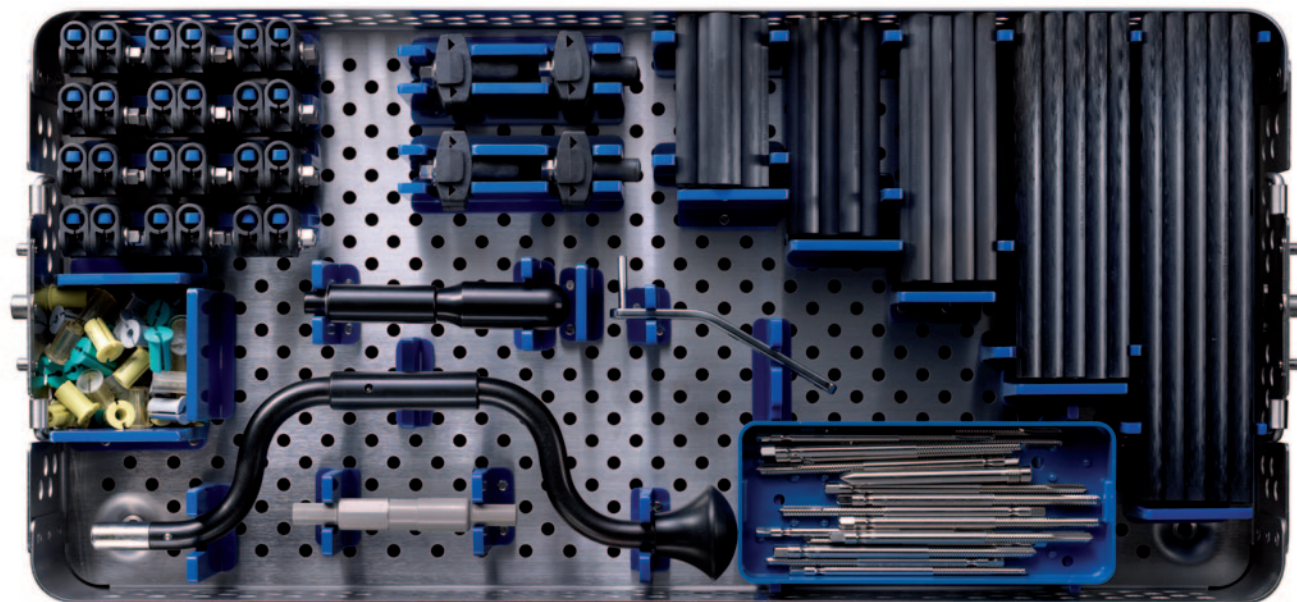


### PELVIC composition

1010 – 1000	Connection 15/15	8
1010 – 1024	Reduction sleeve 15/5	4
1010 – 1032	Carbon tube 15 x 100	2
1010 – 1036	Carbon tube 15 x 250	3
2020 – 1025	Self drilling pin 5 x 170	4

# Fixator Small

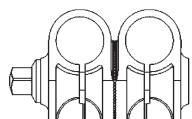
Tray of Gexfix Small external fixation components, non-sterile



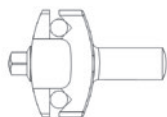
External Fixator Small – Dimensions 52 x 23 x 7 cm / Complete Tray 8 – 12 frames – weight: 8 kg

Reference	Description	Qty
1010 – 1040	Connection 9/9	24
1010 – 1070	Pin cluster clamp small	8
1010 – 1052	Reduction sleeve 9/3	18
1010 – 1053	Reduction sleeve 9/4	8
1010 – 1054	Reduction sleeve 9/5	8
1010 – 1062	Carbon rod 9 x 70	16
1010 – 1063	Carbon rod 9 x 90	16
1010 – 1064	Carbon rod 9 x 110	16
1010 – 1065	Carbon rod 9 x 150	10
1010 – 1066	Carbon rod 9 x 200	10
1010 – 1100	Lengthening compression tube small	1
2010 – 1020	Self drilling pin 3 x 70	32
2015 – 1020	Self drilling pin 4 x 100	8
2020 – 1035	Self drilling pin 5 x 210	8

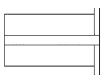
Instrumentation		
Reference	Description	Qty
5010 – 1000	Drill brace	1
5015 – 1000	Screw handle	1
5025 – 2000	Trocar and handle small	1
6010 – 1001	Sterilization box small	1



1010 - 1040 Connection 9/9



1010 - 1070 Pin cluster clamp SMALL



1010 - 1052 Reduction sleeve 9/3

1010 - 1053 Reduction sleeve 9/4

1010 - 1055 Reduction sleeve 9/5



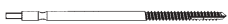
1010 - 1062 Carbon rod 9 x 70

1010 - 1063 Carbon rod 9 x 90

1010 - 1064 Carbon rod 9 x 110

1010 - 1065 Carbon rod 9 x 150

1010 - 1066 Carbon rod 9 x 200



2010 - 1020 Self drilling pin 3 x 70

2015 - 1020 Self drilling pin 4 x 100

2015 - 1025 Self drilling pin 4 x 145

2015 - 1030 Self drilling pin 4 x 180

2020 - 1020 Self drilling pin 5 x 140

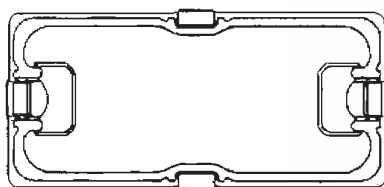
2020 - 1025 Self drilling pin 5 x 170

2020 - 1030 Self drilling pin 5 x 210

2020 - 1035 Self drilling pin 5 x 110

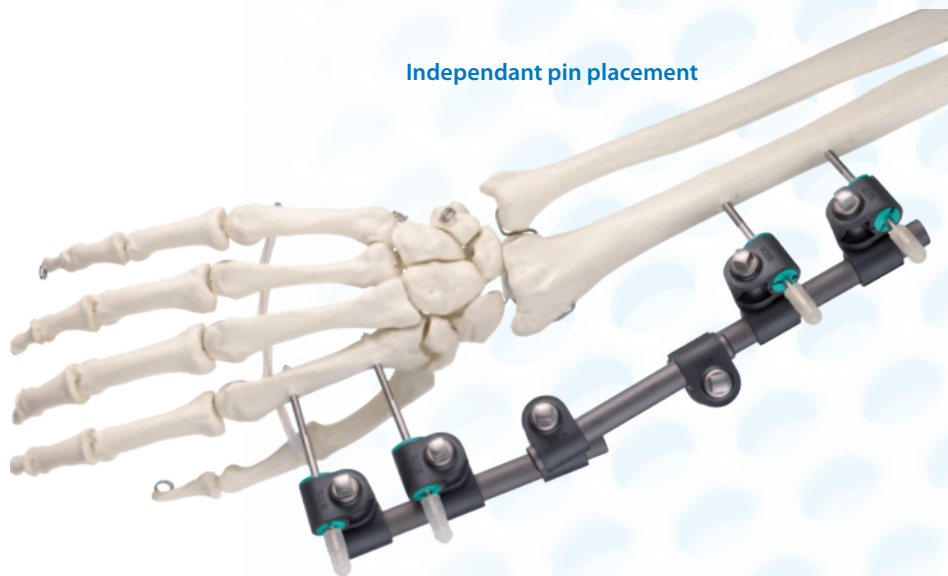


1010 - 1090 Lengthening compression tube



6010 - 1001 Sterilization box small

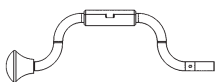
Independent pin placement



### Composition

1010 - 1040	Connection 9/9	6
1010 - 1052	Reduction sleeve 9/3	4
1010 - 1064	Carbon rod 9 x 110	3
2020 - 1020	Self drilling pin 3 x 70	4

## Instrumentation



5010 - 1000 Drill brace



5015 - 1000 Screw handle



5025 - 1100 Trocar and handle small

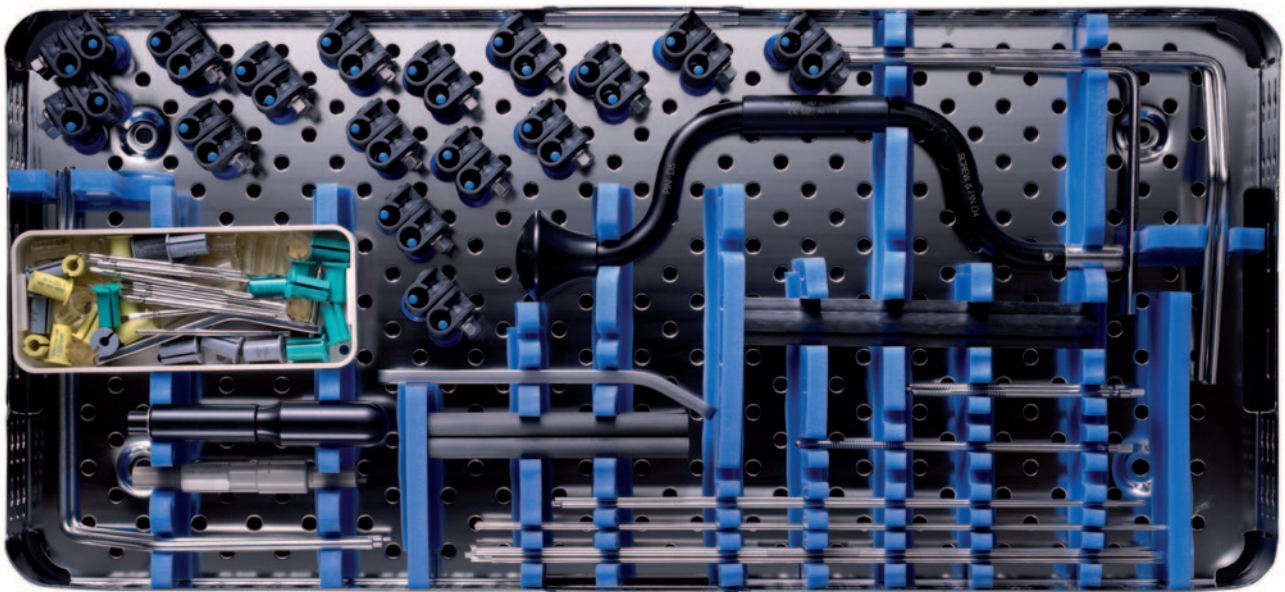


# Minimally invasive shoulder & wrist TGF system

## Tray of Gexfix TGF Tension Guide Fixation components, non-sterile

The Tension Guide Fixator System kit (TGF) for fractures of the upper limb is based on insertion of two Kirschner wire guides and exerting pressure until the required reduction is achieved. With the introduction of the TGF System, no other treatment method is necessary to treat surgical fractures of the subcapital humerus.

The system permits simple, quick and efficient treatment of this type of fracture and most importantly, it allows partial movement of the limb as soon as surgery is completed. Application also available for the wrist: CASLAU



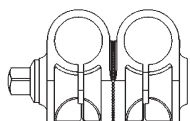
Minimally Invasive System TGF complete box – Dimensions 52 x 23 x 7 cm / Complete Tray 4 radius/4 shoulder frames – weight 6 kg

Reference	Description	Qty
1010 – 1040	Connection 9/9	32
1010 – 1052	Reduction sleeve 9/3	8
1010 – 1053	Reduction sleeve 9/4	8
1010 – 1054	Reduction sleeve 9/5	8
1010 – 1055	Reduction sleeve 9/2.5	8
1010 – 1059	Reduction sleeve 9/1.8	8
1010 – 1064	Carbon Rod 9x110	6
1010 – 1065	Carbon Rod 9x150	3
1010 – 1081	TGF left rod 5 mm	2
1010 – 1082	TGF right rod 5 mm	2
1010 – 1085	Short wrist bar 60 x 105	2
1010 – 1087	Wrist bar 65 x 130	2
1010 – 1100	Lengthening compression tube	1
1020 – 1031	Kirchner wire dia 1.8 x 150	4

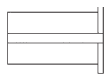
Reference	Description	Qty
1020-1032	Kirchner wire dia 2.5 x 300	4
1020-1034	Kirchner wire dia 2.5 / 250 tip threaded	4
1020-1035	Kirchner wire dia 1.8 x 150 tip threaded	4
2010-1020	Self drilling pin 3 x 70	8
2015-1025	Slef drilling pin 4 x 145	4

## Instrumentation

Reference	Description	Qty
5010 – 1000	Drill brace	1
5015 – 1000	Screw handle	1
5025 – 1000	Trocar L = 70 mm	1
5025 – 1100	Handle for trocar STD	1
5025 – 2000	Trocar and handle small	1
6010 – 1007	Sterilization box TGF	1



1010 – 1040 Connection 9/9



1010 – 1052 Reduction sleeve 9/3

1010 – 1053 Reduction sleeve 9/4

1010 – 1054 Reduction sleeve 9/5

1010 – 1055 Reduction sleeve 9/2.5

1010 – 1059 Reduction sleeve 9/1.8



1010 – 1081 TGF left rod 5 mm

1010 – 1082 TGF right rod 5 mm

1010 – 1085 Short wrist bar 60 x 105

1010 – 1087 Wrist bar 65 x 130



2010 – 1020 Self drilling pin 3 x 70

2015 – 1025 Self drilling pin 4 x 145

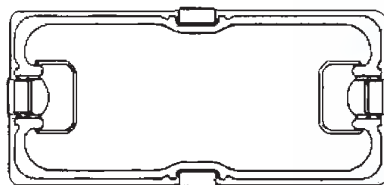


1020 – 1031 Kirchner wire 1.8 x 150

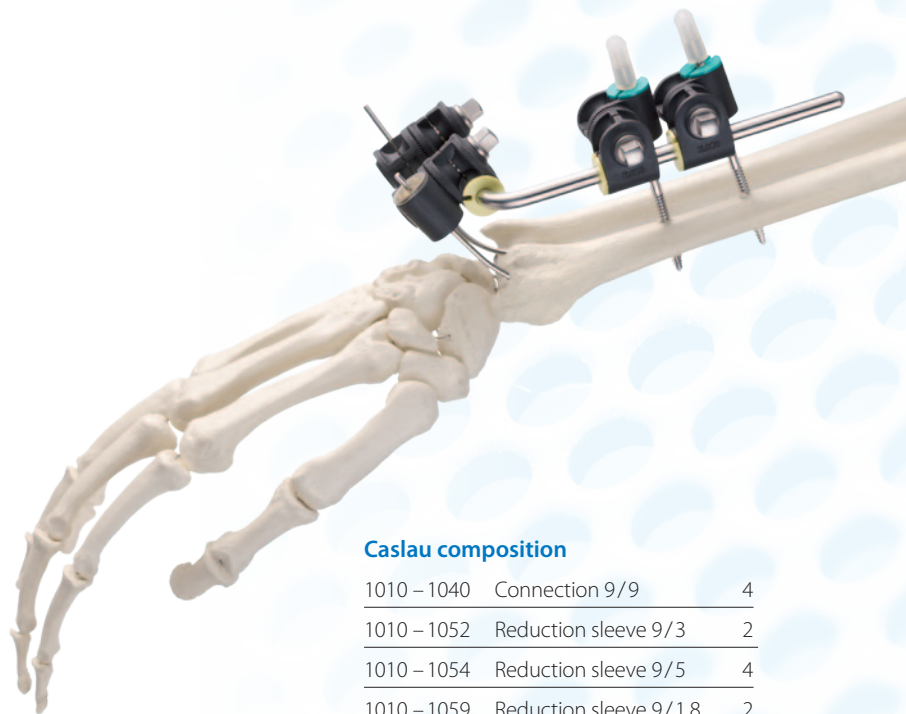
1020 – 1032 Kirchner wire 2.5 x 150

1020 – 1034 Kirchner wire 2.5 x 300 tip threaded

1020 – 1035 Kirchner wire 1.8 x 150 tip threaded

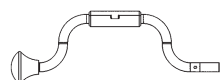


6010 – 1007 Sterilization Box TGF

**Caslau composition**

1010 – 1040	Connection 9/9	4
1010 – 1052	Reduction sleeve 9/3	2
1010 – 1054	Reduction sleeve 9/5	4
1010 – 1059	Reduction sleeve 9/1.8	2
1010 – 1085	Short wrist bar 60 x 105	1
1020 – 1031	Kirschner wire 1.8 x 150	2
2010 – 1020	Self drilling pin 3 x 70	2

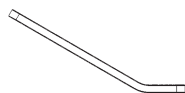
## Instrumentation



5010 – 1000 Drill brace



5025 – 1000 Trocar L= 70 mm



5025 – 1100 Handle trocar STD



5025 – 2000 Trocar and handle small



5015 – 1000 Screw handle

**TGF composition**

1010 – 1040	Connection 9/9	4
1010 – 1054	Reduction sleeve 9/5	4
1010 – 1055	Reduction sleeve 9/2,5	2
1010 – 1082	TGF Right rod 5 mm	1
1020 – 1034	Kirchner wire 2,5 x 300	2
1020 – 1053	Reduction sleeve 9/4	2
2015 – 1025	Self drilling pin 4 x 145	2

# Fixator Hybrid

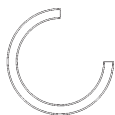
Tray of Gexfix Hybrid Fixator components, non-sterile proximal tibia



Hybrid fixator complete box  
Dimensions: 55 cm x 26 cm x 10 cm – weight: 8 kg – complet tray 4 frames

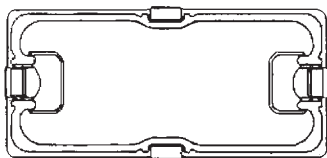
Reference	Description	Qty	Instrumentation:		
			Reference	Description	Qty
1020-1002	Ring dia 160	2	5010-1000	Drill brace	1
1020-1003	Ring dia 200	2	5015-1000	Screw handle	1
1020-1010	Ring clamp	10	5030-1000	Tensioner	1
1020-1020	Kirschner wire holder	8	5040-1000	Cutting plyer	1
1020-1030	Kirschner wire 1.8 x 400	8	6010-1005	Sterilization Box Hybrid	1
1010-1040	Connection 9/9	14			
1010-1054	Reduction sleeve 9/5	6			
1010-1062	Carbon rod 9 x 70	4			
1010-1063	Carbon rod 9 x 90	4			
1010-1064	Carbon rod 9 x 110	4			
1010-1065	Carbon rod 9 x 150	4			
1010-1066	Carbon rod 9 x 200	4			
2020-1020	Self drilling pin 5 x 140	6			
2020-1035	Self drilling pin 5 x 110	6			



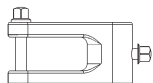


1020 – 1002 Ring dia 160

1020 – 1003 Ring dia 200



6010 – 1005 Sterilization Box Hybrid



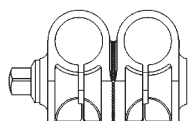
1020 – 1010 Ring clamp



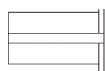
1020 – 1020 Kirschner wire holder



1020 – 1030 Kirschner wire 1.8 x 400



1010 – 040 Connection 9/9



1010 – 1054 Reduction sleeve 9/5



1010 – 1062 Carbon rod 9 x 70

1010 – 1063 Carbon rod 9 x 90

1010 – 1064 Carbon rod 9 x 110

1010 – 1065 Carbon rod 9 x 150

1010 – 1066 Carbon rod 9 x 200



2020 – 1020 Self drilling pin 5 x 140

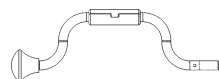
2020 – 1035 Self drilling pin 5 x 110



### Hybrid composition

1020 – 1003	Ring dia 200	1
1020 – 1010	Ring clamp	5
1020 – 1020	Kirschner wire holder	4
1010 – 1040	Connection 9/9	8
2020 – 1020	Self drilling pin 5 x 140	3
1020 – 1030	Kirschner wire 1.8 x 400	2
1010 – 1054	Reduction Sleeve 5/9	3
1010 – 1062	Carbon rod 9 x 70	1
1010 – 1063	Carbon rod 9 x 90	1
1010 – 1065	Carbon rod 9 x 150	2
1010 – 1066	Carbon rod 9 x 200	1

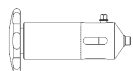
## Instrumentation



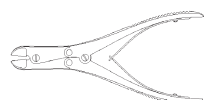
5010 – 1000 Drill brace



5015 – 1000 Screw handle



5030 – 1000 Tensioner



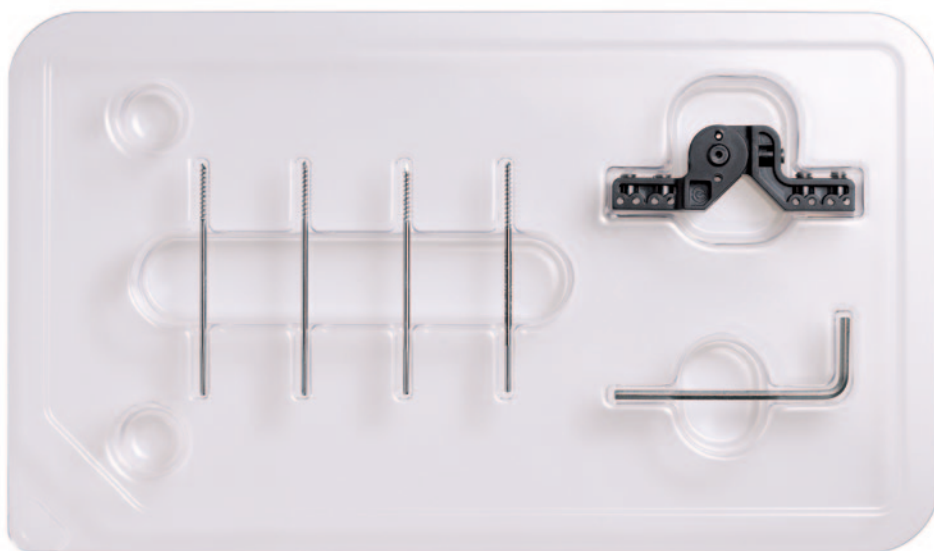
5040 – 1000 Cutting pincer

The background is a deep blue gradient. It features a grid of small, dark blue dots that are slightly out of focus, creating a sense of depth. Overlaid on this are several bright, glowing blue lines that curve and flow across the frame, resembling light trails or data paths. The overall effect is modern and technological.

# Sterile kit

# digifix®

## dynamic fingers fixation

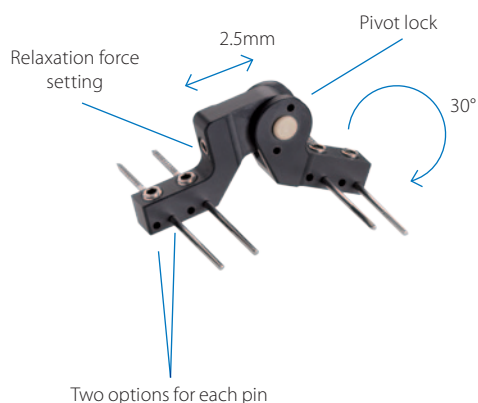


Sterile single-use articulated dynamic external fixator, including key for assembly and disassembly.

### Complete fixator (delivered sterile) including :

Self drilling pins 1,5 mm x 50	4
Articulated body	1
Axes	2
Spring	1
Screws	5
Key for assembly and force setting	1

### Reference 1060-1002



### Structure and materials

Polyphenylsulfone body – PPSU black

Invasive elements in steel pursuant to ASTM F138 – ISO 5832-2



### Advantages and benefits

- Pivot lock – Early mobilization of the joint
- Relaxation force can be set
- Light weight benefits the patient
- Radiolucency allows better monitoring of the trauma
- Two options for each pin
- Exercise protocol available for each patient

### Indications / use

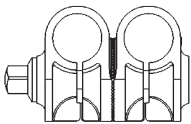
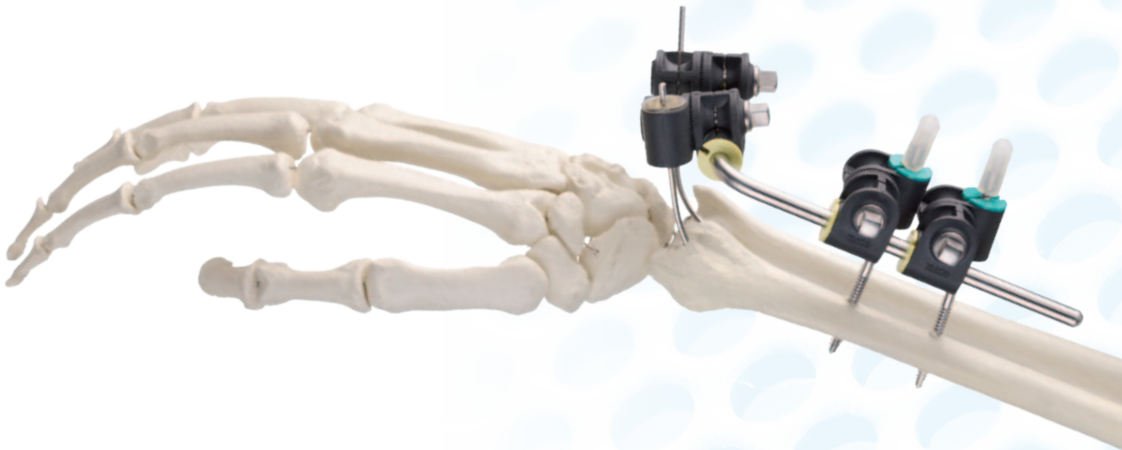
- IFP articular fractures
- MF articular fractures
- Open fractures of phalanges with or without soft tissue loss
- Unstable metaphyseal fractures



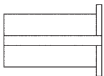
Sterile kit

# Caslau<sup>®</sup>

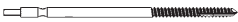
fixation system kit



Connection 9/9



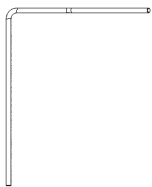
- Reduction sleeve 9/1.8
- Reduction sleeve 9/3
- Reduction sleeve 9/5



Self drilling self tapping pin dia 3 x 70

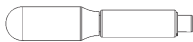


Kirschner wire 1.8x150



Wrist bar 65 x 130

Instrumentation (not included)



5015 – 1000 Screw handle

**Caslau sterile kit – réf. 1060 – 1001**

Wrist bar 65 x 130	1
Kirschner wire, 1.8 0 x 150	2
Self-drilling 3 x 70 mm	2
Connection 9/9	4
Reducer 9/1.8	2
Reducer 9/3	2
Reducer 9/5	4
K-wire Ø 1,8 x 400	1

## Fast execution time (about 15 min)

Wrist fractures represent approximately 17% of all fractures that enter the emergency department. The CASLAU system has as its main indication all the composite or split fractures of the wrist, except meta-epiphyseal comminuted fractures (C3).

### Advantages over non-surgical treatment with plaster

- fast execution time (about 15 min)
- very low risk of infection
- immediate mobilization

### Advantages over treatment with external bridge fixator

- immediate mobilization

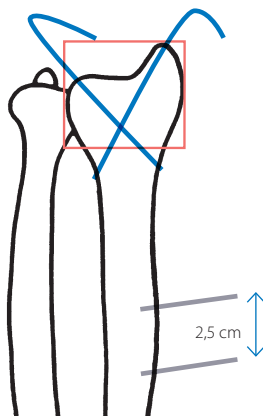
### Advantages compared to treatment with dorsal plate

- fast execution time (about 15 min)
- Percutaneous osteosynthesis
- very low risk of infection
- immediate mobilization

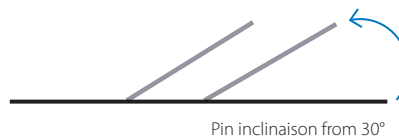
## Caslau technical

### Epiphyseal fracture Intra-articular fractures

Short Wires ~ Kapandji ~ 2 K wire 15 cm

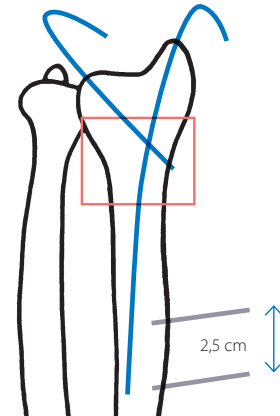


### Technical

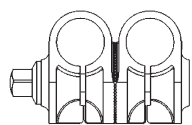


### Metaphyseal fracture Intramedullary

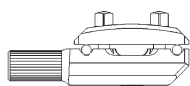
1 K wire 15 cm – 1 K wire 40 cm



Sterile kit



1010 – 1000 Connection 15/15



1010 – 1010 Pin cluster clamp



1010 – 1034 carbon rod 15 x 200

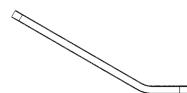
1010 – 1035 carbon rod 15 x 200



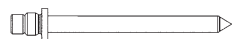
2020 – 1020 Self drilling pin 5 x 150

2020 – 1025 Self drilling pin 5 x 170

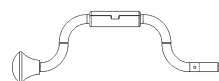
Instrumentation (not included)



5025 – 1100 Handle trocar STD



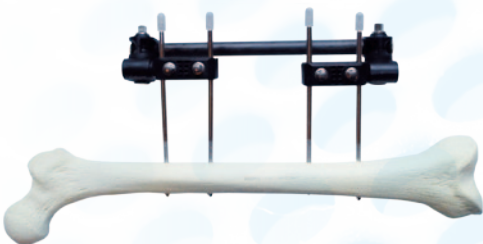
5025-1000 Trocar L= 70 mm



5010-1000 Drill brace

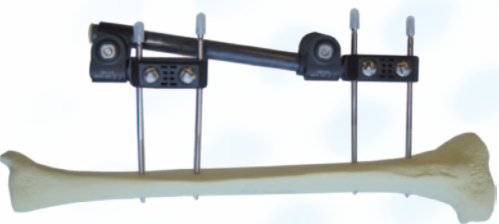
# Parallel large

fixation system kit



Femur sterile kit ref. 1060 – 2040

Pin cluster clamp	2
Connection 15/15	2
Carbon rod 15 x 200	1
Self drilling pin 5 x 170	4



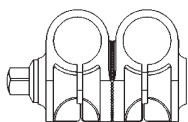
Tibia sterile kit – ref. 1060 – 2000

Pin cluster clamp	2
Connection 15/15	2
Carbon rod 15 x 150	1
Self drilling pin 5 x 140	4

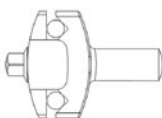
# Parallel small

## fixation system kit

Sterile kit



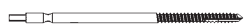
1010 – 1040 Connection 9/9



1010 – 1070 Pin cluster clamp small



1010 – 1066 carbon rod 9 x 200



2020 – 1020 Self drilling pin 3 x 70



### Parallel pins, 9 components, weight 75g

Pin cluster clamp small	2
Connection 9/9	2
Carbon rod 9 x 200	1
Self drilling pin 3 x 70	4

Instrumentation (not included)



5025-1100 Trocar and handle small



5015 – 1000 Screw handle



# External fixation (non sterile)

## Small



### Product description

1010 – 1040	Connection 9/9	6
1010 – 1052	Reduction sleeve 9/3	4
1010 – 1064	Carbon rod 9 x 110	3
2020 – 1020	Self drilling pin 3 x 70	4

## Large



### Product description

1010 – 1000	Connection 15/15	4
1010 – 1010	Pin cluster clamp	1
1010 – 1024	Reduction sleeve 15/5	2
1010 – 1033	Carbon tube 15 x 125	1
1010 – 1034	Carbon tube 15 x 150	1
2020 – 1020	Self drilling pin 5 x 140	4



### Product description

1010 – 1000	Connection 15/15	8
1010 – 1024	Reduction sleeve 15/5	4
1010 – 1032	Carbon tube 15 x 100	2
1010 – 1036	Carbon tube 15 x 250	3
2020 – 1025	Self drilling pin 5 x 170	4

## Hybrid

## TGF

### Product description

1020 – 1003	Ring dia 200	1
1020 – 1010	Ring clamp	5
1020 – 1020	Kirschner wire holder	4
1010 – 1040	Connection 9	8
2020 – 1020	Pin Self drilling 5 x 140	3
1020 – 1030	Kirschner wire	2
1010 – 1054	Reduction Sleeve 5/9	3
1010 – 1066	Carbon rod 200	1
1010 – 1065	Carbon rod 150	2
1010 – 1065	Carbon rod 90	1
1010 – 1065	Carbon rod 70	1



### Product description

1010 – 1040	Connection 9/9	4
1010 – 1052	Reduction sleeve 9/3	2
1010 – 1054	Reduction sleeve 9/5	4
1010 – 1059	Reduction sleeve 9/1.8	2
1010 – 1085	Short wrist bar 60 x 105	1
1020 – 1031	Kirschner wire 1.8 x 150	2
2010 – 1020	Self drilling pin 3 x 70	2

### Product description

1010 – 1040	Connection 9/9	4
1010 – 1054	Reduction sleeve 9/5	4
1010 – 1055	Reduction sleeve 9/2,5	2
1010 – 1082	TGF Right rod 5 mm	1
1020 – 1034	Kirschner wire 2,5 x 300	2
1020 – 1053	Reduction sleeve 9/4	2
2015 – 1025	Self drilling pin 4 x 145	2



# Kit sterile

## Digifix

## Caslau

### Ref . 1060 – 1002



#### Finger product components

Self drilling pins D3 mm x 70	4
Articulated body	1
Axes	4
Spring	8
Screws	5
Key for assembly and force setting	2

### Ref . 1060 – 1001



#### Wrist product components

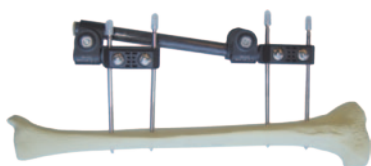
Connection 9/9	4
Reduction sleeve 9/3	2
Reduction sleeve 9/5	4
Reduction sleeve 9/1.8	2
Short wrist bar 60 x 105	1
Kirschner wire 1.8 x 150	2
Self drilling pin 3 x 70	2

Instrumentation not included

## Parallel large

## Parallel small

### Ref . 1060 – 2000

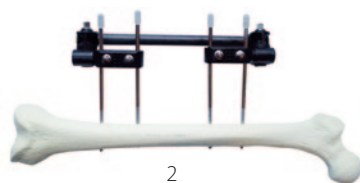


#### Tibia sterile kit

Pin cluster clamp std	2
Connection 15 / 15	2
Carbon rod 200 mm	1
Self drilling pin 5 x 140	4

Instrumentation not included

### Ref . 1060 – 2040



#### Femur sterile kit

Pin cluster clamp	2
Connection 15	2
Carbon rod 15 x 200	1
Self drilling pin 5 x 140	4

Instrumentation not included

### Ref . 1060 – 1020



#### Parallel pins, 9 components, weight 75g

Pin cluster clamp small	2
Connection 9/9	2
Carbon rod 9 x 200	1
Self drilling pin 3 x 70	4

Instrumentation not included

# Product code index

The background of the page is a dark blue gradient. It features a pattern of small, lighter blue dots arranged in a grid-like fashion, though the dots are slightly blurred and vary in opacity. Overlaid on this are several bright, glowing blue lines that curve and sweep across the frame, creating a sense of motion and depth. The overall aesthetic is modern and technological.

**Non sterile reference****Large**

1010–1000	Connection 15/15
1010–1010	Pin cluster clamp
1010–1023	Reduction sleeve 15/4
1010–1024	Reduction sleeve 15/5
1010–1026	Reduction sleeve 15/9
1010–1032	Carbon tube 15 x 100
1010–1033	Carbon tube 15 x 125
1010–1034	Carbon tube 15 x 150
1010–1035	Carbon tube 15 x 200
1010–1036	Carbon tube 15 x 250
1010–1038	Carbon tube 15 x 300
1010–1039	Carbon tube 15 x 350
1010–1047	Carbon tube 15 x 500
1010–1048	Carbon tube 15 x 600
1010–1090	Lengthening compression tube

**Small**

1010–1040	Connection 9/9
1010–1052	Reduction sleeve 9/3
1010–1053	Reduction sleeve 9/4
1010–1054	Reduction sleeve 9/5
1010–1062	Carbon rod 9 x 70
1010–1063	Carbon rod 9 x 90
1010–1064	Carbon rod 9 x 110
1010–1065	Carbon rod 9 x 150
1010–1066	Carbon rod 9 x 200
1010–1070	Pin cluster clamp small
1010–1100	Lengthening compression tube small

**TGF**

1010–1055	Reduction sleeve 9/2.5
1010–1059	Reduction sleeve 9/1.8
1010–1081	TGF left rod 5 mm
1010–1082	TGF right rod 5 mm
1010–1085	Short wrist bar 60 x 105
1010–1087	Wrist bar 65 x 130

**Hybrid**

1020–1002	Ring dia 160
1020–1003	Ring dia 200
1020–1010	Ring clamp
1020–1020	Kirschner wire holder

**Invasive**

1020–1030	K-wire 1,8 x 400 mm
1020–1031	K-wire 1,8 x 150 mm
1020–1032	K-wire 2,5 x 300 mm
1020–1034	K-wire 2,5 x 250 tip threaded
1020–1035	K-wire 1,8 x 150 tip threaded
2010–1020	Self drilling pin 3 x 70
2015–1020	Self drilling pin 4 x 100
2015–1025	Self drilling pin 4 x 145
2015–1030	Self drilling pin 4 x 180
2020–1020	Self drilling pin 5 x 140
2020–1025	Self drilling pin 5 x 170
2020–1030	Self drilling pin 5 x 210
2020–1035	Self drilling pin 5 x 110
2030–1020	Transfixing pin 5/4 x 250
2030–1025	Transfixing pin 5/4 x 200

**Instrumentation**

5010–1000	Drill Brace
5015–1000	Screw handle
5025–1000	Trocar L = 70
5025–1100	Handle for trocar STD
5025–1200	Trocar L = 120
5025–2000	Trocar and handle small
5030–1000	Tensioner
5040–1000	Cutting plyer
6010–1000	Sterilization box large STD
6010–1001	Sterilization box small
6010–1005	Sterilization box hybrid
6010–1007	Sterilization box TGF
6010–1013	Sterilization large smart

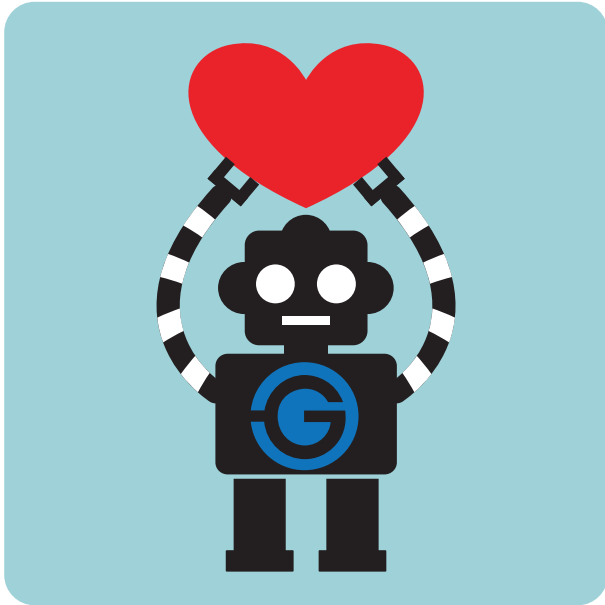
**Sterile reference**

1060–1001	Caslau
1060–1002	Digifix
1060–1020	Parallel small
1060–2000	Tibia kit sterile
1060–2400	Femur kit sterile



# Patient care

## External fixation for stabilisation and healing of your fracture



This leaflet aims to familiarise you with External Fixation, the technique your surgeon has chosen to stabilise your fracture. By carefully reading through this leaflet, you will be in a better position to cooperate with your surgeon, doctor or nursing staff in looking after your fixator and supporting the fracture healing process, to make it as short and trouble-free as possible. Most bone fractures heal within a few months, provided that the fragments have been "reduced" (repositioned as closely as possible to their original anatomical position) and held there firmly during healing. The time taken for the fracture to heal depends on the severity of the fracture and whether it is a closed or open fracture. There are various methods of stabilising fractures:

1. Plates, screws, wires, nails. These are different types of internal fixation.
2. Your surgeon has decided to use an External Fixator.

An External Fixator is an external splint to hold the fracture fragments in their reduced position. Bone screws have been screwed into the bone fragments and the External Fixator, made up

of clamps and rods, has been attached to these bone screws.

The advantages of External Fixation are as follows:

- It is minimally invasive: only the bone screws (pins) are implanted, the rest of the fixator remains outside your body.
- It provides immediate stable fixation so that you should be able to leave hospital soon after it has been applied. However, this will depend on the severity of your fracture and your surgeon's recommendation.
- The External Fixator allows you to move your joints while holding the bone fragments firmly in position. In case your surgeon wants to improve the position of the bone fragments after the fixator has been applied (postoperatively), he can do so relatively easily - he has full control over the bone fragments because the fixator is outside your body. This is not the case with internal fixation.

How much you can weight-bear will depend on the type and location of your fracture and the extent of healing. You should follow your surgeon's advice carefully with regard to this and all other aspects.

## Cleaning of pin sites

**Keeping the skin around the entry points of the pins clean is very important in order to keep infection at bay.**

Infection can adversely effect your treatment and prolong the healing process, so the importance of regular cleaning of the pin sites cannot be overemphasised. The frequency of cleaning will be decided by your surgeon/nurse/doctor. Should redness, swelling or pain develop at the pin sites, the frequency of cleaning may have to be increased.



## Cleaning materials

Please prepare the following materials:

- Cleaning solution as instructed by your surgeon
- A disposable cup or glass to hold the cleaning solution
- Sterile cotton buds
- A bag for removing all waste materials

## Cleaning procedure

Please wash your hands frequently before and after cleaning your pin sites without fail. Use soap that is used only by yourself. Use a clean towel every day and do not touch anything else before cleaning. If you have to remove dressings (for example, from the pin sites) be sure to wash your hands again.

**Dip a cotton bud into the recommended solution** and clean the skin using circular movements, removing any crusting. Use several cotton buds until the site is perfectly clean. Then dry it with another cotton bud.

Use a cotton bud to clean one pin site only. Never use the same cotton bud for more than one pin site, as this could spread infection from one pin site to another. Clean the external fixation bone pins/screws with cotton buds. Don't forget to clean the threaded part outside the skin as well. Gently massage the skin around the pins with your fingertips to ensure that it can be moved freely. By massaging, you may get some exudate (drainage) to come to the surface; you can then clean this away.

## Keep a careful eye on your pin sites!

If you notice redness, or if your pin sites become painful and swollen, increase the frequency of pin site cleaning. If after a couple of days the problem does not get better, or if you start getting thick and discoloured discharge, contact your hospital or doctor immediately. If they prescribe antibiotics, be sure to take the whole course according to the instructions. It may also be advisable to take some high quality probiotics with the antibiotics. And just because you are on antibiotics does not mean that you can stop cleaning your pin sites. Regular, on-going pin site hygiene continues to be of vital importance.

## Keep your fixator clean!

Clean your fixator regularly to keep it free from dust, dirt and grease. Use a damp cloth and /or cotton buds to clean it. If instructed to do so by your surgeon /nurse, take regular showers and clean your fixator with soap and water while in the shower. Dry it with a clean towel. The pin sites will need special cleaning, as described above.

