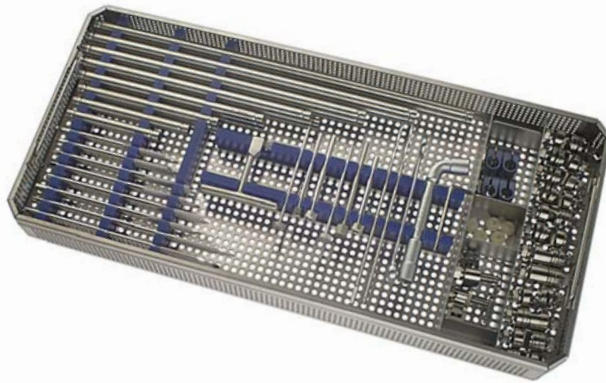
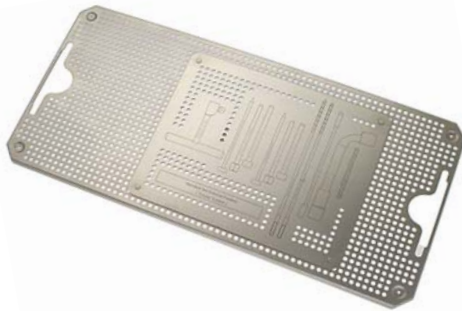


Standard External Fixator
Small External Fixator
Hoffmann System
Dynofix
Treu Dynamic Fixator TITAN
Hand-Finger Fixator
Hybrid Fixator



Standard Set External Fixateur (Tubular System) in Graphic Case

Listing: T 8000 Grafic Case Standard Set External Fixateur (Tubular System)



T 8001 Tray (empty)



15-1010 Sterilization Container
(recommended)



Standard Set External Fixateur (Tubular System) in Graphic Case

Listing: **T 8000** **Graphic Case Standard Set External Fixateur (Tubular System)**
 T 8001 **Tray (empty)**

Cat.No.		Pcs. :
9-023	Drill Bit Ø 3.5 mm , extra long	2
9-438	Combination Wrench with across flats 11 mm	1
8-0068	Simple T-Handle for Steinmann Pins and Schanz Screws Ø5.0 mm	1
8-0070	Socket Wrench with across flats 11mm 180mm long for threadet conical Bolts and External Fixateur	1
8-0072	Hexagonal Allen Key withacross flats 3.5 mm	1
8-0092	Trocar with point Ø 3.5 mm short	1
8-0061	Drill Sleeve Ø 5.0 mm / Ø 3.5 mm short	1
8-0065	Drill Sleeve Ø 6.0 mm / Ø 5.0 mm short	1
8-0062	Trocar with point for Aiming Device Ø 3.5 mm long	1
8-0060	Drill Sleeve Ø 5.0 mm / Ø 3.5 mm long	1
8-0064	Drill Sleeve Ø 6.0 mm / Ø 5.0 mm long	1

Cat.No.	Fixateur Components	Pcs. :
8-0080	Open Compressor	2
8-0100	Tube Rod Ø 11 mm , 100 mm Length (Steel)	1
8-0102	Tube Rod Ø 11 mm , 125 mm Length (Steel)	1
8-0104	Tube Rod Ø 11 mm , 150 mm Length (Steel)	2
8-0106	Tube Rod Ø 11 mm , 200 mm Length (Steel)	2
8-0108	Tube Rod Ø 11 mm , 250 mm Length (Steel)	2
8-0110	Tube Rod Ø 11 mm , 300 mm Length (Steel)	2
8-0112	Tube Rod Ø 11 mm , 350 mm Length (Steel)	2
8-0114	Tube Rod Ø 11 mm , 400 mm Length (Steel)	2
8-0170	Plug for Tube Rods	10
8-0188	Open adjustable Clamp	12
8-0190	Ø 11 mm Tube-to Tube Clamp	2

Schanz Screws Ø 5.0 mm , Thread - Length 50 mm (with Trocar Point and Triangular Shaft) (Steel Implants DIN ISO 5832-1)

Cat.No.		Pcs. :
8-1264	Ø 5.0 mm , Length 125 mm	6
8-1266	Ø 5.0 mm , Length 150 mm	6
8-1268	Ø 5.0 mm , Length 170 mm	6
8-1270	Ø 5.0 mm , Length 200 mm	6



TREU - INSTRUMENTE



- 9-023 Drill Bit 3.5 mm extra long
- 9-027 Drill Bit 4.5 mm extra long



- 9-438 Combination Wrench with across flats 11 mm



- 8-0068 Simple T-Handle for Steinmann Pin insertion



- 8-0070 Socket Wrench with across flats 11 mm
180 mm long, for threaded conical bolts
and external fixateur



- 8-0072 Hexagonal Allen Key



TREU - INSTRUMENTE



8-0092 Trocar with point ø 3.5 mm short



8-0062 Trocar for aiming device 3.5 long



8-0061 Drill Sleeve 5.0 / 3.5 mm short



8-0060 Drill Sleeve 5.0 / 3.5 mm long



8-0065 Drill Sleeve 6.0 / 5.0 mm short



8-0064 Drill Sleeve 6.0 / 5.0 mm long



TREU - INSTRUMENTE



8-0080 Open Compressor



8-0084 Bar with hook and sliding drill sleeve \varnothing 3.5 mm, 80 mm long



8-0090 Check Tube for Device Alignment



	Tubes 11 mm \varnothing		Carbon fiber rods 11 mm \varnothing
8-0100	100 mm length	8-0140	100 length
8-0102	125 mm length	8-0142	125 length
8-0104	150 mm length	8-0144	150 length
8-0106	200 mm length	8-0146	200 length
8-0108	250 mm length	8-0148	250 length
8-0110	300 mm length	8-0150	300 length
8-0112	350 mm length	8-0152	350 length
8-0114	400 mm length	8-0154	400 length
8-0116	450 mm length	8-0156	450 length
8-0118	500 mm length	8-0158	500 length
8-0120	550 mm length	8-0160	550 length
8-0122	600 mm length	8-0162	600 length



8-0170 Plug for Tubes



TREU - INSTRUMENTE



8-0180 Single Adjustable Clamp



8-0182 Single Open Clamp
with one nut for tightening both tube and Steinmann Pin
can also be mounted on tubes after External Fixator is assembled
i.e. for three-dimensional fixation



8-0186 Universal Joint for two tubes
for connecting two tubes



8-0188 Open adjustable clamp



8-0190 11 mm Tube-to Tube Clamp



8-0194 Universal Tube, compatible



8-0198 Protective Caps for Steinmann pins
5.0 mm dia.



TREU - INSTRUMENTE

Small External Fixateur for Hand and Forearm



T 806	Small External Fixateur for Hand and Forearm	
15-2026	Small Aluminium Case, perforated 300 x 140 x 100 mm	
15-2150	Trays for small instruments (2 pieces)	
9-014	Drill Bit 2.0 mm	2 pieces
9-016	Drill Bit 2.5 mm	2 pieces
8-0934	Combination Wrench width across flats 7 mm	1 piece
8-0246	Socket Wrench 7 mm	1 piece
8-0248	Drill Sleeve complete	1 piece
8-0210 -	Connecting Bars	24 pieces
	2 each: 60 - 160 - 180 -200 mm	
8-0217	4 each: 80 - 100 - 120 - 140 mm	
8-0240	Clamps Open	4 pieces
8-0242	Clamps	12 pieces
8-0256	Springloaded Nut	2 pieces
8-0255	Schanz Screw 4.0	4 pieces
7-260	Kirschner Wire 1.6 x 150 mm	10 pieces
7-264	Kirschner Wire 2.0 x 150 mm	10 pieces
7-315	Kirschner Wire with Thread 15 mm, 2.5 x 150 mm	10 pieces



TREU = INSTRUMENTE

Small External Fixater Set



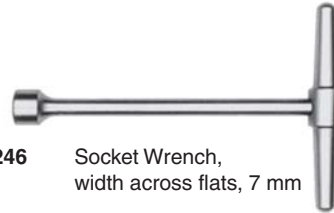
9-014 Dril Bit 2.0 mm
9-016 Dril Bit 2.5 mm



8-0934 Combination Wrench,
width across flats, 7 mm



8-0248 Drill Sleeve complete



8-0246 Socket Wrench,
width across flats, 7 mm



8-0250 Drill Sleeve 5.0 / 4.0 mm



8-0251 Drill Sleeve 4.0 / 2.7 mm



8-0252 Trokar, \varnothing 2.7 mm



Connecting Bars, 4.0 mm diam.
stainless steel

- 8-0210** 60 mm
- 8-0211** 80 mm
- 8-0212** 100 mm
- 8-0213** 120 mm
- 8-0214** 140 mm
- 8-0215** 160 mm
- 8-0216** 180 mm
- 8-0217** 200 mm



8-0240 Clamp Open
2.5 - 5.0 mm \varnothing



8-0242 Clamp 2.5 - 5.0 mm \varnothing



8-0254 Schanz Screws
 \varnothing 4.0 / 3.0 mm - 80 mm



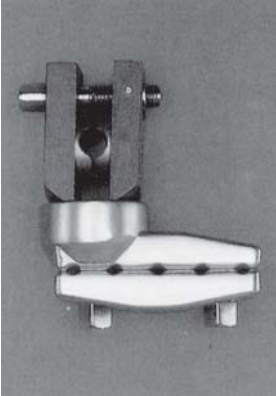
8-0255 Schanz Screws
 \varnothing 4.0 - 100 mm



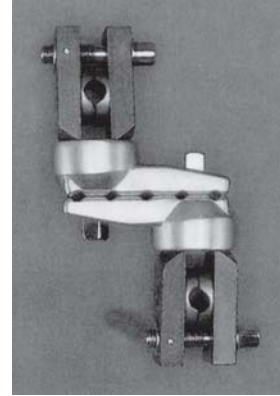
8-0256 Springloaded Nut



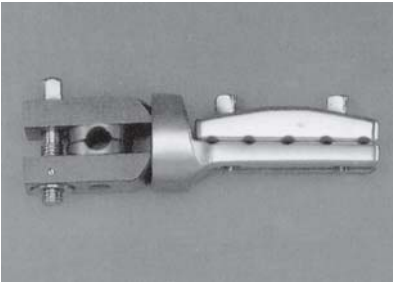
External Fixator - Hofmann System



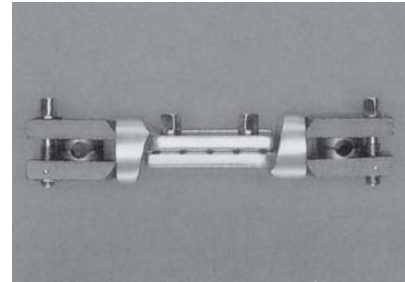
8-0800
Universal Joint Clamp for
5 pins and for connecting
rod



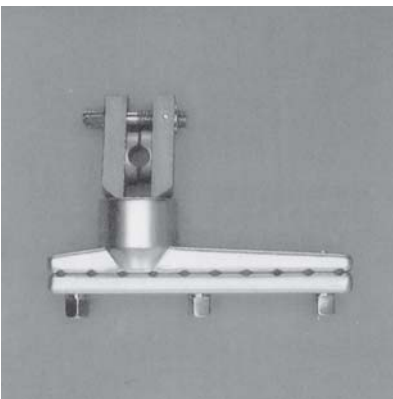
8-0802
Universal Joint Clamp for
5 pins and 2 connecting
rods / diagonal



8-0804
Universal Joint Clamp for 5 pins
and for 1 connecting rod



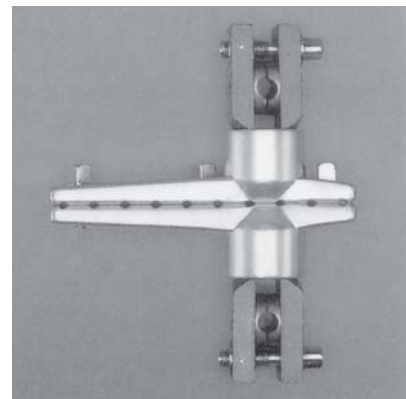
8-0806
Universal Joint clamp for 5 pins
and for 2 connecting rods / parallel



8-0810
Universal Joint Clamp for 10 pins
for 1 connecting rod



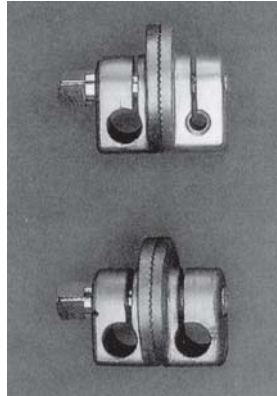
8-0812
Universal Joint Clamp for up to 10
pins for 2 connecting rods / diagonal



8-0814
Universal Joint Clamp for up to 10
pins for 2 connecting rods / diagonal



TREU - INSTRUMENTE



8-0820
Articulation Coupling
8 mm/5 mm

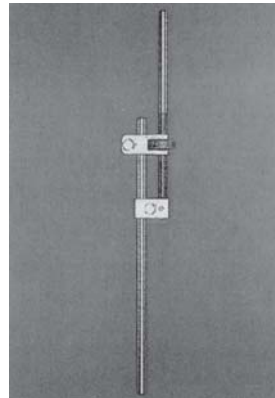
8-0821
Rod Pin 8 mm / 4 mm

8-0822
Articulation Coupling
rod/rod 8 mm/8mm



Plain Connecting Rods dia. 8 mm
stainless

L = mm	steel
150	8-0830
200	8-0832
250	8-0834
300	8-0836
350	8-0838
400	8-0840
450	8-0842
500	8-0844



Adjustable Connecting Rod

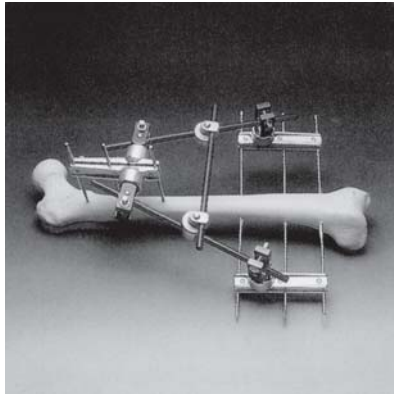
L = mm Cat. No.
350 **8-0870**

Length can be varied by use of Connecting Rods



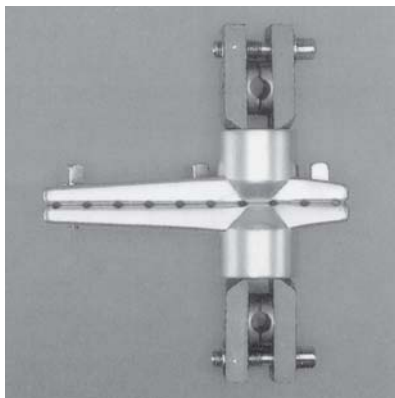
TREU - INSTRUMENTE

8-0801 Simple Triangular Frame for Femur



- 8-0810 2 Universal Clamps
- 8-0814 1 Universal Clamps
- 8-0820 2 Articulation Couplings 8 x 8 mm
- 8-0830 1 Connecting Rod 8 mm 150 mm
- 8-0836 2 Connecting Rods 8 mm 300 mm
- 8-1228 3 Schanz Screws 4.0 x 170 mm
- 8-1160 3 Steinmann Pins with centre thread 4.0 mm 4.0 x 200 mm

Needed components:



8-0814
Universal Joint Clamps for 10 pins
for 1 Connecting Rod

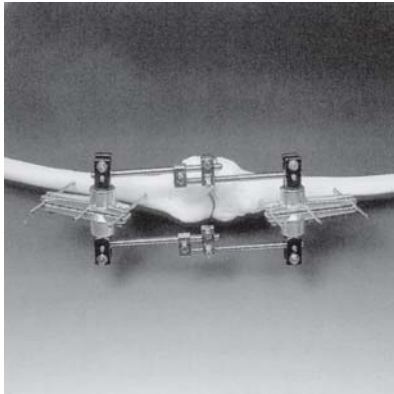


8-0810
Universal Joint Clamps for 10 pins
for 1 Connecting Rod / diagonal

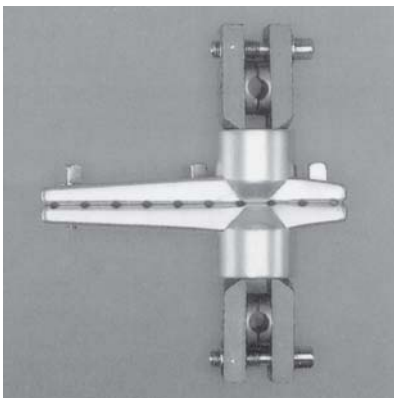


TREU - INSTRUMENTE

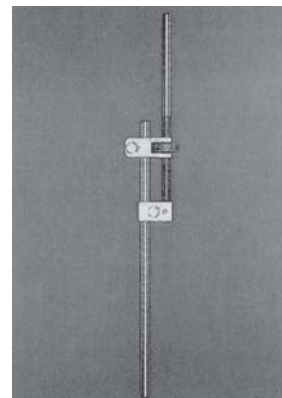
8-0803 Unilateral Double Arthrodesis Frame



- 8-0814** 2 Universal Joint Clamps
- 8-0870** 2 Adjustable Connecting Rods
- 8-1224** 6 Schanz Screws 4.0 x 130 mm



8-0814
Universal Joint Clamp for
10 pins and 3 Connecting Rods

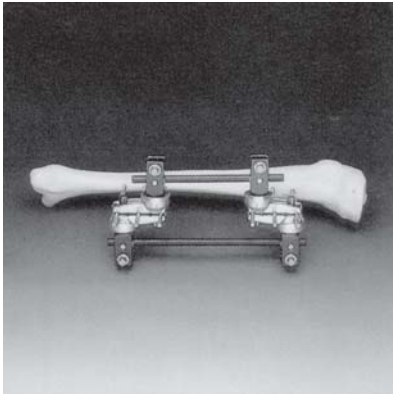


8-0870
Adjustable Connecting Rod

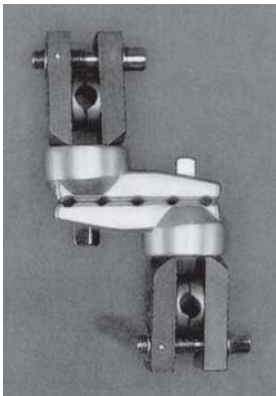


TREU - INSTRUMENTE

8-0805 Universal Double Frame for
Tibia



8-0805 Universal Double Frame for Tibia
components needed:
8-0802 2 Universal Clamps
8-0830 1 Connecting Rod 150 mm
8-0832 1 Connecting Rod 200 mm
8-1224 6 Schanz Screws 4.0 x 130 mm

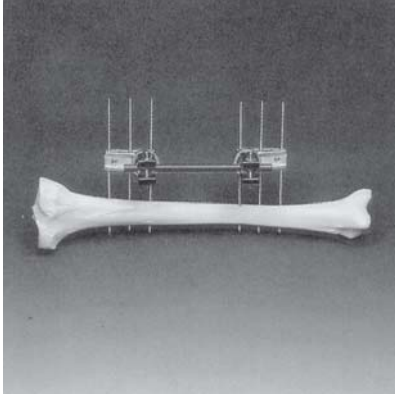


8-0802 Universal Joint Clamp for 5 Pins and
2 Connecting Rods/diagonal



TREU = INSTRUMENTE

8-0807 Simple Unilateral Frame for Tibia Elastic Fixation



- 8-0807** Simple Unilateral Frame for Tibia Elastic Fixation
components needed
8-0800 2 Universal Joint Clamps
8-0830 1 Connecting Rod 150 mm
8-1224 6 Schanz Screws 4.0 x 130 mm

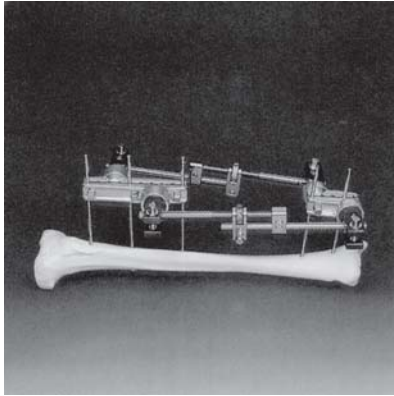


- 8-0800** Universal Joint Clamp
for 5 Pins and for
1 Connecting Rod

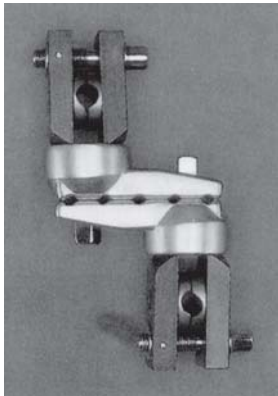


TREU - INSTRUMENTE

8-0809 Unilateral Double Frame for Tibia (Lower 3rd Fractures)



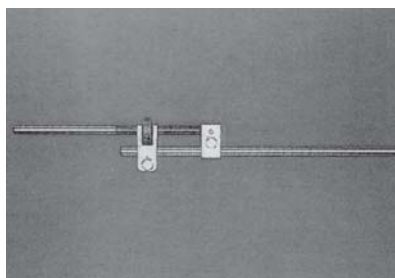
- 8-0809** Unilateral Double Frame for Tibia (Lower 3rd Fractures)
- 8-0802** 1 Universal Joint Clamp
- 8-0812** 1 Universal Joint Clamp
- 8-0870** 2 Adjustable Connecting Rods
- 8-1228** 6 Schanz Screws 4.0 x 170 mm



8-0802
Universal Joint Clamp for 5 Pins
and 2 Connecting Rods /
diagonal



8-0812
Universal Joint Clamp for up to 10 Pins



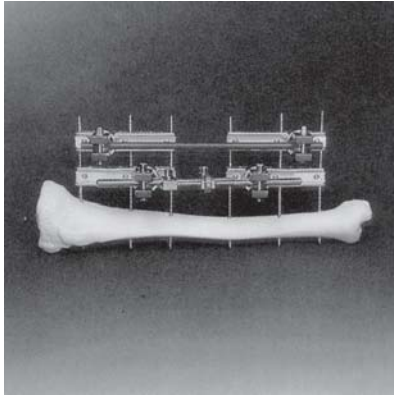
Adjustable Connecting Rod
L = 350 mm Cat. No.
350 **8-0870**

Length can be varied by use of
Connecting Rod



TREU - INSTRUMENTE

8-0811 Universal Double Frame for Tibia



- 8-0811** Unilateral Double Frame for Tibia
components needed:
8-0810 4 Universal Joint Clamps
8-0834 1 Connecting Rod 250 mm
8-0870 Adjustable Connecting Rod



8-0810 Universal Joint Clamp



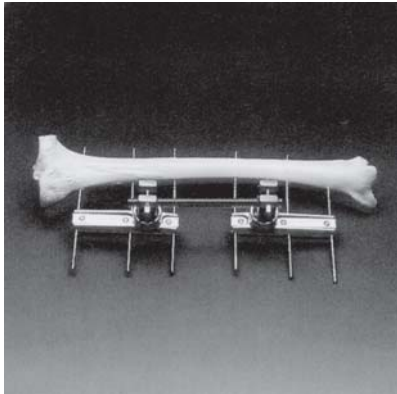
Adjustable Connecting Rod
L = 350 mm Cat. No.
350 **8-0870**

Length can be varied by use of
Connecting Rods



TREU = INSTRUMENTE

8-0813 Simple Unilateral Frame Elastic Fixation



- 8-0813** Simple Unilateral Frame for Tibia (Elastic Fixation)
components needed:
8-0810 2 Universal Joint Clamps
8-0832 1 Connecting Rod 200 mm
8-1228 6 Schanz Screws 4.0 x 170 mm

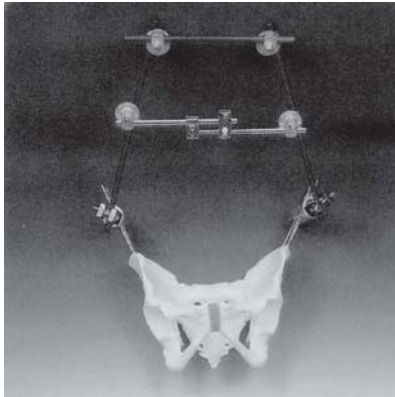


- 8-0810**
Universal Joint Clamp for 10 Pins
for 1 Connecting Rod

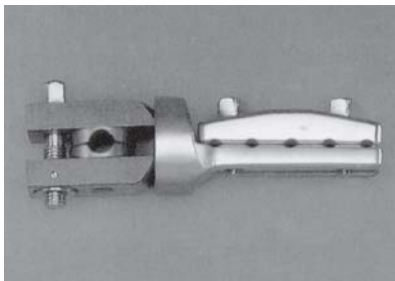


TREU - INSTRUMENTE

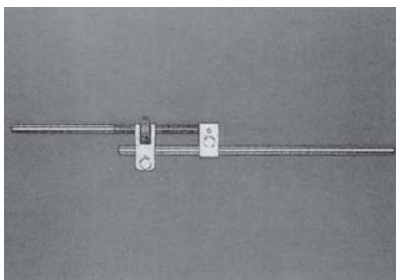
8-0815 Trapezoidal Frame for Pelvis



- 8-0815** Trapezoidal Frame for Pelvis
components needed:
- 8-0804** 2 Universal Joint Clamps
 - 8-0822** 4 Articulation Clamps
 - 8-0832** 1 Connecting Rod 200 mm
 - 8-0836** 2 Connecting Rods 300 mm
 - 8-0870** 1 Adjustable Connecting Rod
 - 8-1228** 3 Schanze Screws 4.0 x 170 mm



- 8-0804**
Universal Joint Clamp for 5 pins
and for 1 Connecting Rod



Adjustable Connecting Rod

L = mm Cat. No.
350 **8-0870**

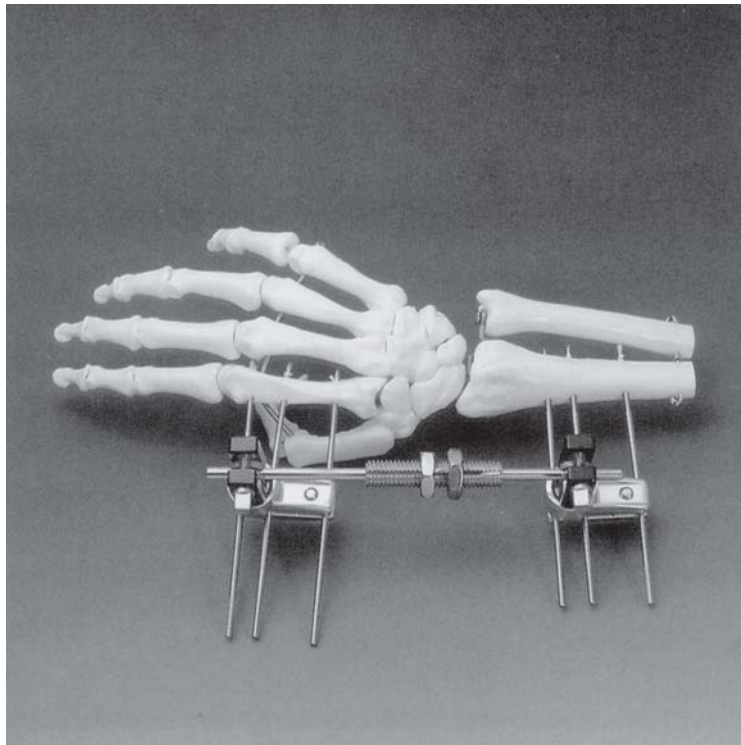


- 8-0822**
Articulation Coupling
8 mm / 8 mm



TREU - INSTRUMENTE

Midi - Fixateur - Externe



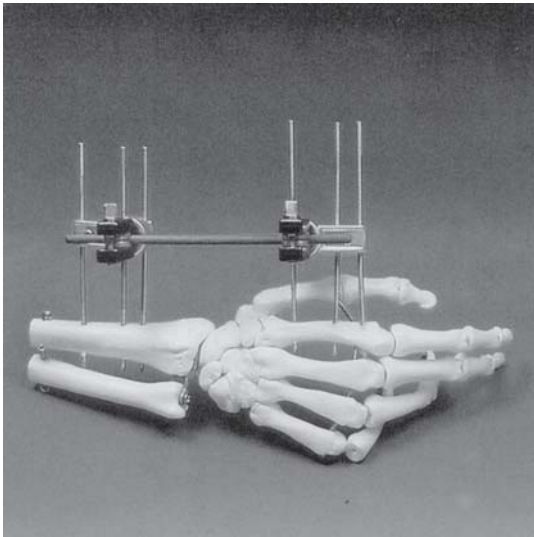
Midi - Fixateur

The forearm assembly requires smaller dimensions of components. In our hands the midi - version has been highly efficient in the management of distal radius fractures presenting the tendency to redislocate regardless of their original type. Lower weight and price compared to other systems together with ease and versatility of handling has made the midifixateur indispensable in our unit.

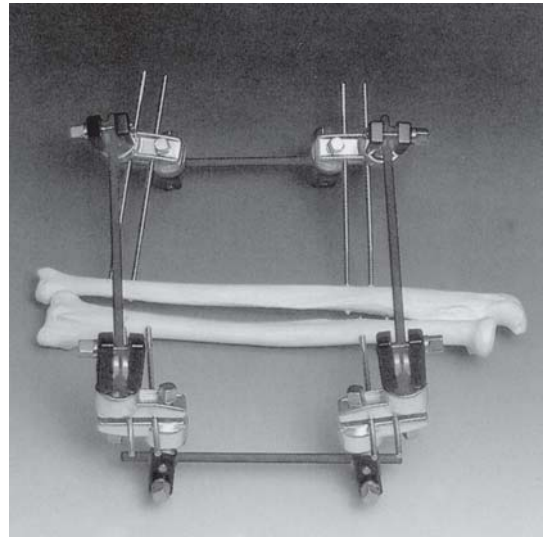
(Klinikum Villingen-Schwenningen, PD Dr. H. Henkemeyer)



TREU - INSTRUMENTE



8-0817 Simple Distal Radius Frame
8-0900 2 Universal Joint Clamps
8-0912 2 Connecting Rods 150 mm
8-1202 6 Schanz Screws 3.0 x 80 mm



8-0819 Forearm Frame
8-0902 4 Universal Joint Clamps
8-0912 2 Connecting Rods 150 mm
8-0914 2 Connecting Rods 200 mm
8-1202 8 Schanz Screws 3.0 x 80 mm



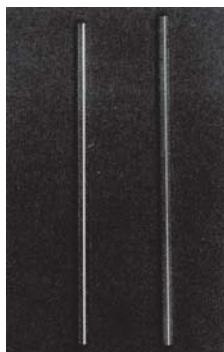
8-0900
 Universal Joint Clamp
 for 4 pins and for 1
 Connecting Rod



8-0902
 Universal Joint Clamp
 for 4 pins and 2
 Connecting Rods / diagonal



8-0904
 Adjustable Connecting
 Rod \varnothing 5 mm



Plain Connecting Rods \varnothing 5 mm

L = mm	steel	carbon
100	8-0910	8-0920
150	8-0912	8-0922
200	8-0914	8-0924
250	8-0916	8-0926
300	8-0918	8-0928



TREU - INSTRUMENTE

Instruments for Maxi and Midi External Fixation



8-0930 T-Wrench



9-090 T-Handle with quick action chuck



8-0934 Spanner width 7 mm



8-0936 Drill Brace



8-0942 Drill Sleeve for 2.5 mm Twist Drill



8-0944 Drill Sleeve for 3.2 mm Twist Drill
8-0946 Drill Sleeve for 4.0 mm Twist Drill
8-0948 Drill Sleeve for 4.5 mm Twist Drill



TREU = INSTRUMENTE

Instruments for Maxi and Midi External Fixation



8-0954 Maxi External Fixation Pin-Guide



8-0956 Midi External Fixation Pin-Guide



- 8-0947** Twist Drill d=2.5 mm for 3 mm pins
- 8-0951** Twist Drill d=3.2 mm for 4 mm pins
- 8-0955** Twist Drill d=4.0 mm for 5 mm pins
- 8-0957** Twist Drill d=4.5 mm for 6 mm pins



- 8-0960** Guide Sleeve for 4 mm pins
- 8-0962** Guide Sleeve for 5 mm pins



8-0870 Adjustable Connecting Rod



- 8-0970** Stop clip 5 mm
- 8-0972** Stop clip 8 mm



8-0904 Adjustable Connecting Rod ø 5 mm

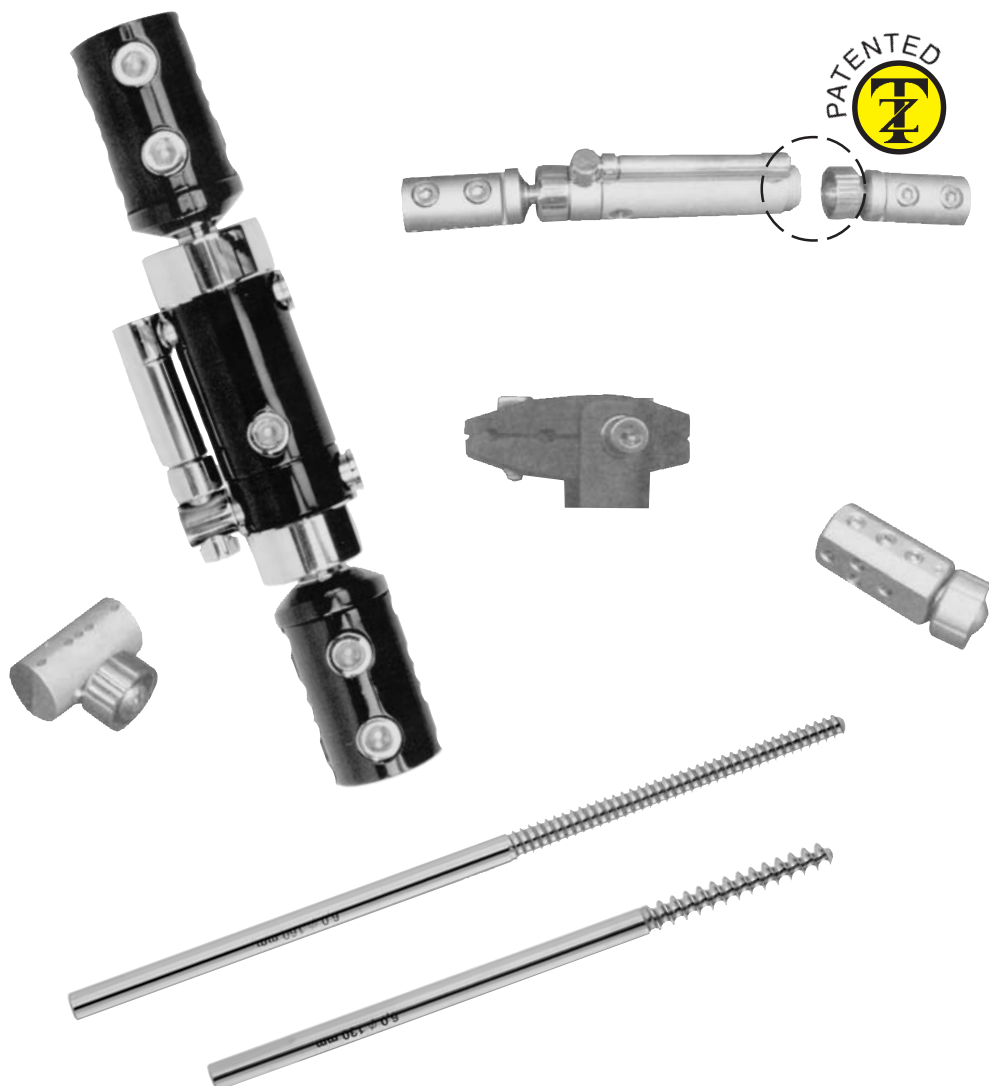


4-184 Applying Forceps



TREU - INSTRUMENTE

**ORTHO DYNO - FIX
EXTERNAL FIXATEURS MODUL - SYSTEM**



Rev: 260805



TREU - INSTRUMENTE



TREU - INSTRUMENTE

External Fixateur ORTHO DYNO FIX for Femur and Tibia

Material: Special aluminium alloys
Type: Dynamic Axial, Long, Standard, Short
Move angle: 50°
Diameter: 30 mm



8-0406
135° Clamp



8-0408
T Clamp

Cat. No.:	Type	Lenght	Weight gr	Lengtening
8-0404	Short	230	600	25
8-0402	Standard	250	640	45
8-0400	Long	280	700	65



TREU - INSTRUMENTE

PILON External Fixateur ORTHO DYNO FIX



8-0414
Pilon Clamp with standard fixator

Cat. No.:	Type	Lenght	Weight gr
8-0412	Standard	250	640



TREU - INSTRUMENTE

TREU Limb Lengthener Fixateur
Femur and Tibia
DINO-FIX



Cat. No.:	Type	Lenght mm	Weight gr	Lengtening
8-0430	Long	230	540	80
8-0432	Standard	200	480	60
8-0434	Short	180	420	50



TREU - INSTRUMENTE

LIMB Reconstruction Fixateur for Femur and Tibia **DINO-Fix**



8-0440
Short Model
200 mm long with 2 clamps



8-0442
Standard Model
250 mm long with 3 clamps



8-0444
Long Model
300 mm long with 3 clamps

Cat. No.:	Type	Lenght mm	Weight gr
8-0440	Short	200	410
8-0442	Standard	250	480
8-0444	Long	300	560



TREU = INSTRUMENTE

External Fixateur for Pelvic



Pelvic External Fixator with Clamp	
Cat. No.:	Model
8-0450	Short
8-0452	Standard
8-0454	Long

Rod and Clamp Fixateur Multipurpose



Rod and Clamp Fixator Multipurpose	
Cat. No.:	Model
8-0460	Short
8-0462	Standard
8-0464	Long
8-0466	Small

Axial Fixator for Humerus and Small Tibia

Material: Special Aluminium Alloys
 Type: Dynamic Axial, Long, Standard
 Move Angle: 45°
 Diameter: 25 mm



8-0474
T Clamp

Cat. No.	Type	Length mm	Lengthening mm	Weight gr
8-0470	Standard	170	25	300
8-0472	Long	195	46	340

PENING External Fixator for Hand - Wrist and Radius



Cat. No.	Type
8-0482	Standard
8-0484	Long

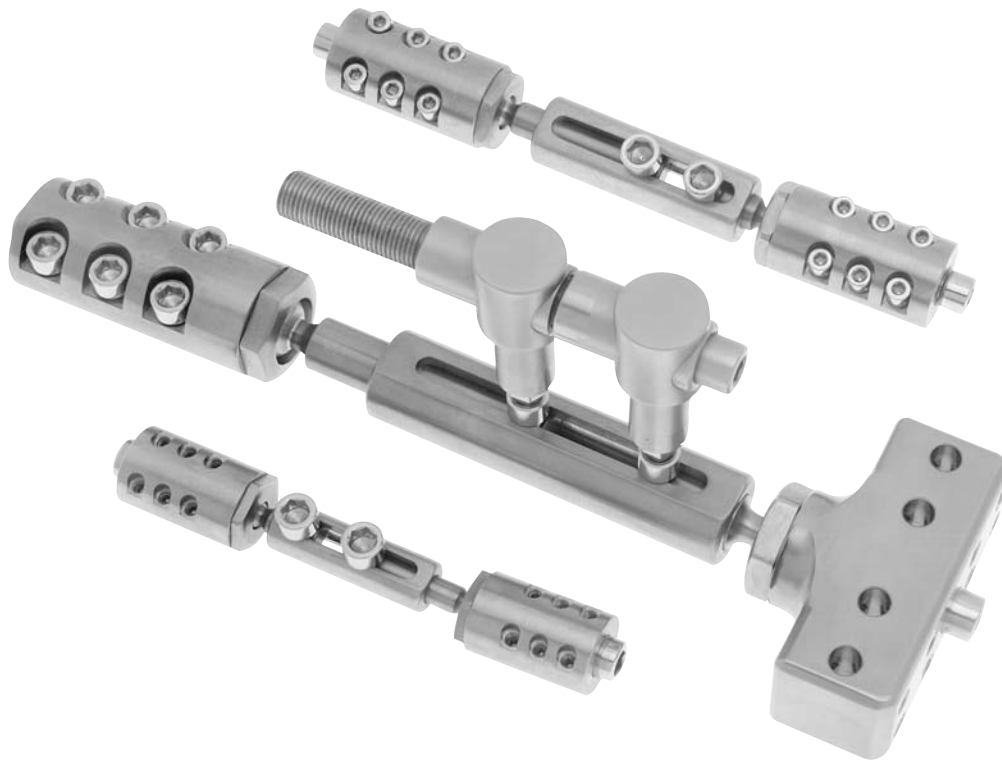


TREU - INSTRUMENTE



TREU - INSTRUMENTE

TREU - DYNAMIC FIXATEUR EXTERNE MODULAR SYSTEM





TREU - INSTRUMENTE

ALLE MODELLE AUS "TITAN" MATERIAL

1. extrem leichtes Gewicht
2. hohe Belastbarkeit

ALL TYPES MADE OF TITANIUM

1. extremely light weight
2. high stability under load



8-0300 TREU - Dynamic Fixateur großes Modell
Dynamic TREU Fixateur Externe large type



8-0302 TREU - Dynamic Fixateur mittleres Modell
Dynamic TREU Fixateur Externe medium type



8-0304 TREU - Dynamic Fixateur kleines Modell
Dynamic TREU Fixateur Externe small type



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8-0312 **Distraktor für Fixateure**
Distractor for Fixateur Externe



8-0320 **T - Backe**
T - Jaw



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- 8-0330** **Maulschlüssel für TREU - Fixateur 8-0300**
Open End Wrench for TREU Fixateur Externe 8-0300
- 8-0332** **Maulschlüssel für TREU - Fixateur 8-0302**
Open End Wrench for TREU Fixateur Externe 8-0302
- 8-0334** **Maulschlüssel für TREU - Fixateur 8-0304**
Open End Wrench for TREU Fixateur Externe 8-0304



- 8-0338** **Imbusschlüssel 5,0 mm für TREU - Fixateur 8-0300 / 8-0302 / 8-0304 / 8-0320**
Allen Key 5,0 mm for TREU Fixateur Externe 8-0300 / 8-0302 / 8-0304 / 8-0320
- 8-0339** **Imbusschlüssel 4,0 mm für T - Backe 8-0320**
Allen Key 4,0 mm for T - Jaw 8-0320
- 8-0340** **Imbusschlüssel 2,5 mm für TREU - Fixateur 8-0302**
Allen Key 2,5 mm for TREU Fixateur Externe 8-0302
- 8-0342** **Imbusschlüssel 1,5 mm für TREU - Fixateur 8-0304**
Allen Key 1,5 mm for TREU Fixateur Externe 8-0304



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- 8-0350** Bohrbuchse 6/5 mm für TREU - Fixateur 8-0300
Drill Sleeve 6/5 mm for TREU Fixateur Externe 8-0300
- 8-0352** Bohrbuchse 5/4 mm für TREU - Fixateur 8-0300 und 8-0302
Drill Sleeve 5/4 mm for TREU Fixateur Externe 8-0300 and 8-0302
- 8-0354** Bohrbuchse 4/3 mm für TREU - Fixateur 8-0304
Drill Sleeve 4/3 mm for TREU Fixateur Externe 8-0304



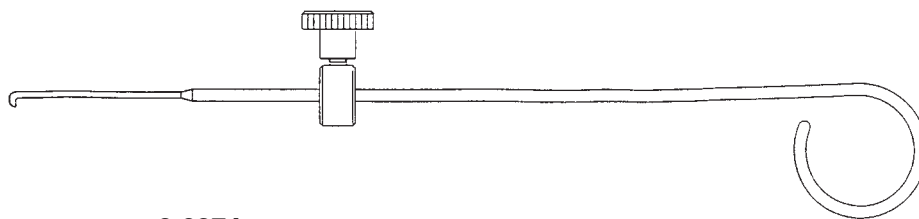
- 8-0360** Trokar für Bohrbuchse 6/5 mm
Trocar for Drill Sleeve 6/5 mm
- 8-0362** Trokar für Bohrbuchse 5/4 mm
Trocar for Drill Sleeve 5/4 mm
- 8-0364** Trokar für Bohrbuchse 4/3 mm
Trocar for Drill Sleeve 4/3 mm



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8-0370 Kardanschlüssel für TREU - Fixateure und Distraktor
Socket Wrench for TREU Fixateur Externe and Distractor



8-0374
Depth Gauge for Schanz Scews
Tiefmesser für Schanze Schrauben



TREU - INSTRUMENTE

OPERATIONSANLEITUNG

OPERATING INSTRUCTIONS

Bild 1

Der Fixateur dient als Bohrschablone. Um eine eventuelle Distraction oder Kompression zu ermöglichen, wird der Fixateur auf eine mittlere Länge eingestellt (gerade Position). Bohrbuchse in die beiden endständigen Löcher einbringen und mit beiden Imbusschrauben leicht festziehen.

Picture 1

Fixateur Externe serves as well as drill template. To obtain the requested distraction or compression the Fixateur Externe is adjusted to medium length in straight position. Introduce drill sleeve into distal hole and fix slightly with screws.

Bild 2

Fixateur mit beiden Bohrhülsen auf den Knochen führen. Selbstschneidende Schanz'sche Schrauben (keine zusätzliche Bohrung erforderlich) über die Bohrbuchse einbringen. In gleiche Weise werden die anderen Schanz - Schrauben eingebracht und angezogen.

Achtung: Bei Verwendung von Schanz'sche Schrauben 8-1200 bis 8-1272 Vorbohren erforderlich.

Picture 2

Place Fixateur Externe with both drill sleeves on bone. Introduce self - cutting Schanz screws through drill sleeves (no additional drilling requested). Introduce and fix further Schanz screws in the same way.

Caution: When using Schanz screws ref. 8-1200 to 8-1272 pre - drilling is necessary.

Bild 3

Durch Lösen der Kugelgelenke wird die endgültige Feinreposition der Fraktur unter Bildwandlerkontrolle durchgeführt. Anschliessend Kugelgelenke und Schrauben fest anziehen.

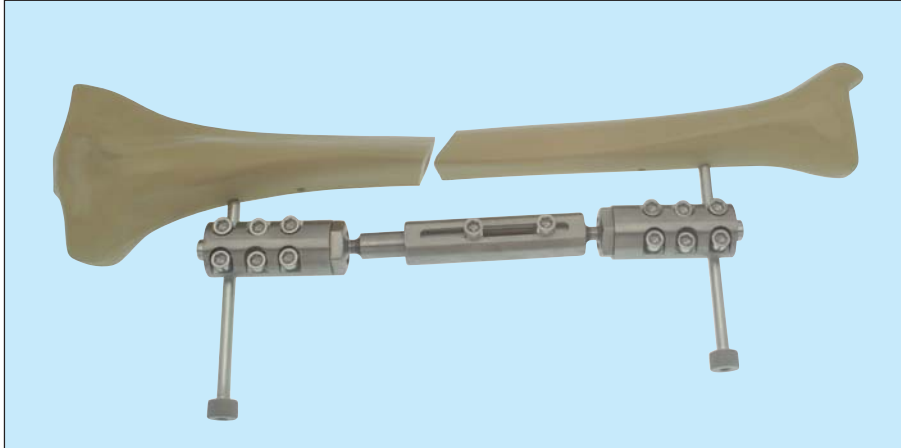
Picture 3

Final fracture reposition is achieved under X - Ray control by loosening the ball joints. Fix tightly ball joints and screws.



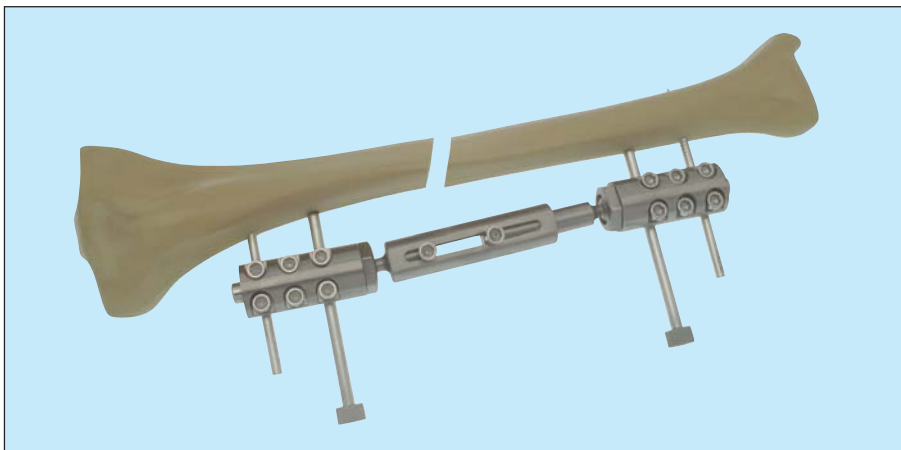
TREU - INSTRUMENTE

Bild 1



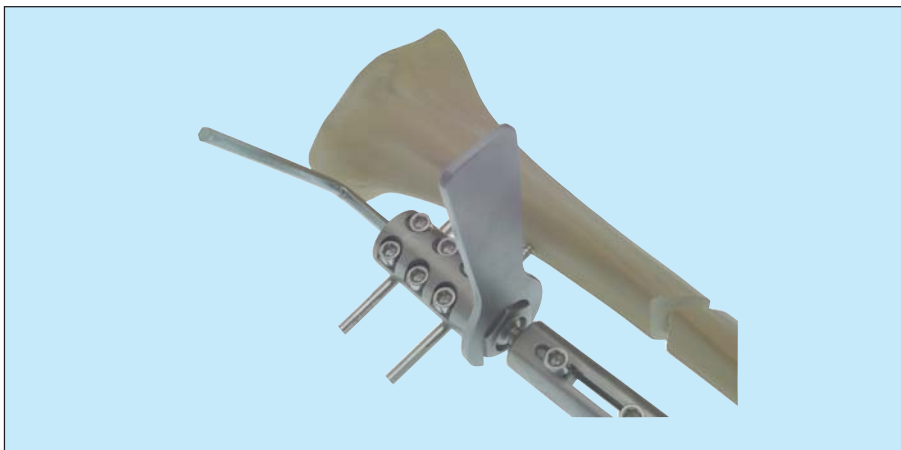
Picture 1

Bild 2



Picture 2

Bild 3

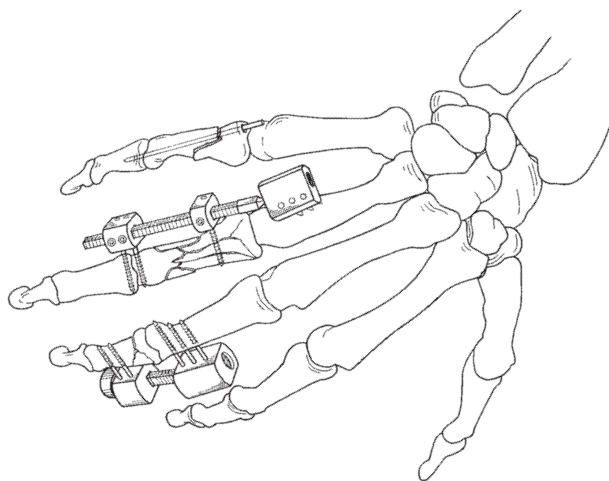
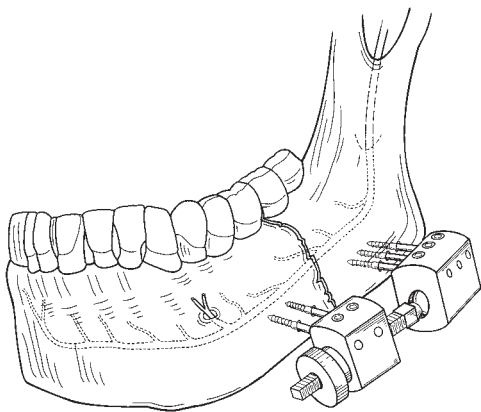


Picture 3



TREU - INSTRUMENTE

HAND / FINGER AND MANDIBULA FIXATOR HAND / FINGER UND MANDIBULA FIXATEUR





Operationsanleitung TREUFIX und Produktbeschreibung

Einführung

Schwere Handverletzungen stellen für den Chirurgen eine große Herausforderung dar. Es ist das Ziel, möglichst viel an Funktion in möglichst kurzer Zeit wiederherzustellen. Der Hand - Fixateur **TREUFIX** bietet ein ungewöhnlich vielseitiges und kostengünstiges System zur Behandlung von komplexen und offenen Frakturen sowie von Defekten an den Knochen der Hand und der Mandibula.

Produktbeschreibung

Der Hand - Fixateur **TREUFIX** besteht aus zwei oder mehreren Titankörpern zur Fixation der Gewindeschrauben. Die Titankörper werden auf Spindeln entsprechend der gewünschten Länge justiert. **TREUFIX I, II** und **III** erlauben die Sekundärdistraktion oder Kompression. Gelenke können fixiert oder zum Funktionstraining freigegeben werden. **TREUFIX III** ist speziell schmal gehalten und deshalb besonders für die interdigitale Anlage geeignet.

An dem **TREUFIX** sind Spitzen und scharfe Kanten vermieden worden. Aus diesem Grund erfolgt keine Irritation von Gewebe und keine Beschädigung der Kleidung.

Präoperative Planung

Eine sorgfältige präoperative Planung zur optimalen Anlage des **TREUFIX** ist erforderlich. Eine Verletzung von Nerven und Gefäßen ist zu vermeiden. Wenn die Bewegung von Gelenken freigegeben werden soll, muß das Gelenk des **TREUFIX** seitlich positioniert werden. Falls erforderlich, ist eine Knochentransplantation vorzubereiten. Die Patienten sind präoperativ über die Dauer und die Behandlungen sowie über evtl. Komplikationsmöglichkeiten aufzuklären.

Zur Operation ist in der Regel ein Röntgenbildverstärker erforderlich.

Bei verschiedenen Verletzungsformen ist die Kombination mit Schrauben, Zuggurtung oder Spickdrahtfixation ratsam.

Indikation (Beispiele)

- Schafffrakturen, einfach oder mehrfragmentär
- gelenknahe Frakturen
- Frakturen mit Weichteilschäden
- trauma- und tumorbedingte Defekte am Carpus, Metacarpus und den Phalangen
- Arthrodesen
- Distraktionsosteogenesen, z. B. Daumenverlängerung
- Segmenttransport am Metacarpus
- Capitatum - Distraktion bei Lunatum - Malazie
- Unterkieferfrakturen



TREU - INSTRUMENTE



Standard

T 250 Hand / Finger und Mandibula Fixator Set

Cat. Nr.	Beschreibung	Stück
8-2506	TREUFIX Nr. I	1
8-2510	TREUFIX Nr. II	1
8-2520	TREUFIX Nr. III	1
T 251	Aluminium Behälter für Finger-Fixateur	1
8-2530	Ersatzspindeln 40 mm	1
8-2532	Ersatzspindeln 50 mm	1
8-2534	Ersatzspindeln 60 mm	1
8-2526	Ersatzfeststellschrauben	20
8-0342	Imbusschlüssel 1,5 mm	1
8-0339	Imbusschlüssel 4,0 mm	1
8-2540	Schraubendreher	1
8-2550	Haltebolzen schmal	1
8-2552	Haltebolzen breit	1
7-300	Kirschnerdrähte ø 1,8 mm 70 mm lang, 30 mm Gewinde	12
7-301	Kirschnerdrähte ø 1,6 mm 70 mm lang, 30 mm Gewinde	12

zusätzlich empfohlene Instrumente:

8-2560	Haltezange	1
7-430	Zwickzange	1
7-432	Zwickzange	1
7-388	Kirschner Extraktionszange 130 mm	1
7-390	Kirschner Extraktionszange 180 mm	1
7-400	Ausziehzange Chrom Vanadium	1
7-402	Ausziehzange rostfrei	1

Standard

T 250 Hand / Finger and Mandibula Fixator Set

Cat. No.	Description	Pieces
8-2506	TREUFIX No. I	1
8-2510	TREUFIX No. II	1
8-2520	TREUFIX No. III	1
T 251	Aluminium Box	1
8-2530	Threaded Rod 40 mm	1
8-2532	Threaded Rod 50 mm	1
8-2534	Threaded Rod 60 mm	1
8-2526	Fixation Screws	20
8-0342	Allen Key 1.5 mm	1
8-0339	Allen Key 4.0 mm	1
8-2540	Screw Driver	1
8-2550	Holding Lever small	1
8-2552	Holding Lever wide	1
7-300	Kirschner Wire ø 1.8 mm 70 mm long, thread 30 mm	12
7-301	Kirschner Wire ø 1.6 mm 70 mm long, thread 30 mm	12

Recommended Instruments

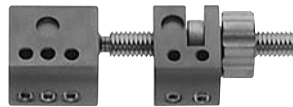
8-2560	Holding Forceps	1
7-430	Wire Cutter	1
7-432	Wire Cutter	1
7-388	Kirschner Wire Extracting Pliers 130 mm	1
7-390	Kirschner Wire Extracting Pliers 180 mm	1
7-400	Flat Nose Parallel Pliers Chrome Vanadium	1
7-402	Flat Nose Parallel Pliers stainless steel	1



TREU - INSTRUMENTE



8-2506 TREUFIX Nr. I



8-2510 TREUFIX Nr. II



8-2520 TREUFIX Nr. III



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8-2530 Ersatzspindel 40 mm
Threaded Rod 40 mm



8-2532 Ersatzspindel 50 mm
Threaded Rod 50 mm



8-2534 Ersatzspindel 60 mm
Threaded Rod 60 mm



8-2540 Schraubendreher
Screwdriver



8-2550 Haltebolzen schmal
Holding Lever small



8-2552 Haltebolzen breit
Holding Lever wide



TREU - INSTRUMENTE



8-2560

Haltezange
Holding Forceps



7-300 Kirschnerdraht mit Gewinde und Trokarspitze ø 1,8 mm, 70 mm lang, 30 mm Gewinde
Kirschner Wire with thread and trocar point ø 1.8 mm, 70 mm long, 30 mm thread

7-301 Kirschnerdraht mit Gewinde und Trokarspitze ø 1,6 mm, 70 mm lang, 30 mm Gewinde
Kirschner Wire with thread and trocar point ø 1.6 mm, 70 mm long, 30 mm thread



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7-430

TC 180 mm

weicher Draht	2,0 mm
soft Wire	2.0 mm
harter Draht	1,5 mm
hard Wire	1.5 mm



7-432

TC 180 mm

Front und Seitenschneider	
front and lateral cutting action	
weicher Draht	2,0 mm
soft Wire	2.0 mm
harter Draht	1,5 mm
hard Wire	1.5 mm



TREU - INSTRUMENTE

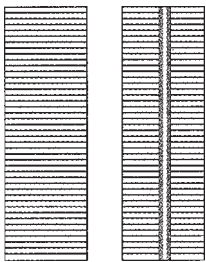


7-388

Extraktionszange für Bohrdraht, 130 mm
Extraction Pliers for Boring Wire, 130 mm

7-390

Extraktionszange für Bohrdraht, 180 mm
Extraction Pliers for Boring Wire, 180 mm



7-400

Parallel - Flachzange mit Seitenschneider
180 mm Chrom Vanadium
Flat - Nose Pliers parallel, with lateral Wire
cutter 180 mm Chrome Vanadium

7-402

Parallel - Flachzange ohne Seitenschneider
180 mm Stainless Steel
Flat - Nose Pliers parallel, without lateral
wire cutter 180 mm Stainless Steel



Circular Hybrid External Fixator



Circular Hybrid External Fixator consisting of:

- 4 x halfrings
- 1 x Axial fixator
- 3 x Schanz Pins
- 1 x Hybrid clamp
- 4 x Kirschner wires
- 8 x Bolts for Kirschner wires
- 16 x Washer
- 10 x Nuts
- 4 x Distance Holders
- 14 x Locking Screws

- 8-0500 Cicular Hybrid External Fixator complete Standard
- 8-0502 Hybrid Fixator short modell
- 8-0504 Hybrid Fixator long modell

Half-Ring Aluminium Alloy



Cat. No.	Description
8-0510	Half-Ring ø 80 mm
8-0511	Half-Ring ø 100 mm
8-0512	Half-Ring ø 110 mm
8-0513	Half-Ring ø 120 mm
8-0514	Half-Ring ø 130 mm
8-0515	Half-Ring ø 140 mm
8-0516	Half-Ring ø 150 mm
8-0517	Half-Ring ø 160 mm
8-0518	Half-Ring ø 180 mm
8-0519	Half-Ring ø 200 mm
8-0520	Half-Ring ø 220 mm
8-0521	Half-Ring ø 240 mm

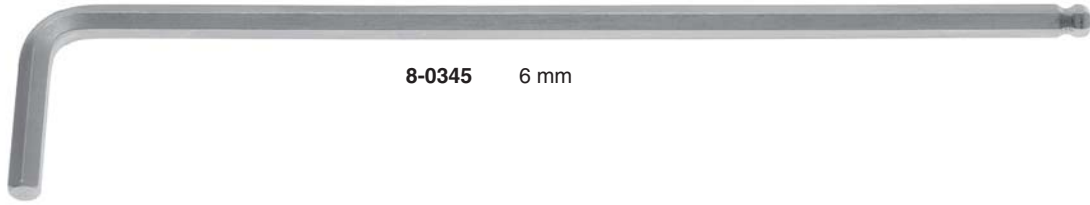
Carbon-Fiber Half Rings



Cat. No.	Description
8-0522	Carbon-Fiber Half-Ring ø 80 mm
8-0523	Carbon-Fiber Half-Ring ø 100 mm
8-0524	Carbon-Fiber Half-Ring ø 110 mm
8-0525	Carbon-Fiber Half-Ring ø 120 mm
8-0526	Carbon-Fiber Half-Ring ø 130 mm
8-0527	Carbon-Fiber Half-Ring ø 140 mm
8-0528	Carbon-Fiber Half-Ring ø 150 mm
8-0529	Carbon-Fiber Half-Ring ø 160 mm
8-0530	Carbon-Fiber Half-Ring ø 180 mm
8-0531	Carbon-Fiber Half-Ring ø 200 mm
8-0532	Carbon-Fiber Half-Ring ø 220 mm
8-0533	Carbon-Fiber Half-Ring ø 240 mm



TREU - INSTRUMENTE



8-0345 6 mm



8-0786 Combination Spanner width AA10



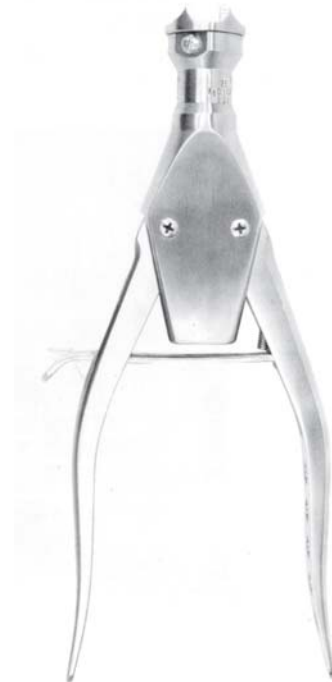
8-0070 Socket Wrench with across flats 10 mm
180 mm long, for threaded conical bolts
and external fixateur



9-090 T-Handle with quick action chuck



8-0068 Simple T-Handle for Steinmann Pin insertion



8-0940 Wire Thightener



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Steinmann Pins



Point	Trocar	Trocar	Trocar	Trocar
Shaft end	Triangular	Triangular	Triangular	Triangular
Length	ø 3.5 mm	ø 4.0 mm	ø 4.5 mm	ø 5.0 mm
120 mm	8-1100	8-1112	8-1124	8-1136
150 mm	8-1102	8-1114	8-1126	8-1138
180 mm	8-1104	8-1116	8-1128	8-1140
200 mm	8-1106	8-1118	8-1130	8-1142
250 mm	8-1108	8-1120	8-1132	8-1144
300 mm	8-1110	8-1122	8-1134	8-1146



- 8-1147** Protective Caps for Steinmann Pins 3.0 mm
- 8-1148** Protective Caps for Steinmann Pins 4.0 mm
- 8-1149** Protective Caps for Steinmann Pins 5.0 mm



TREU - INSTRUMENTE

Steinmann Pins with Central Thread with Trocar Point and Triangular Shaft

(on request, available in other shafts needed)



thread - \emptyset is 0.5 mm
more than pin - \emptyset

Order No.	mm \emptyset	Length mm
8-1150	3.00	150
8-1151	3.00	180
8-1152	3.00	200
8-1153	3.00	230
8-1154	3.50	150
8-1155	3.50	180
8-1156	3.50	200
8-1157	3.50	230
8-1158	4.00	150
8-1159	4.00	180
8-1160	4.00	200
8-1161	4.00	230
8-1162	4.00	250
8-1163	4.50	150
8-1164	4.50	180
8-1165	4.50	200
8-1166	4.50	230
8-1167	4.50	250
8-1168	4.50	300
8-1169	5.00	150
8-1170	5.00	180
8-1171	5.00	200
8-1172	5.00	230
8-1173	5.00	250
8-1174	5.00	300



TREU - INSTRUMENTE

Schanz Screws (with Trocar Point and Triangular Shaft)



Order No.	mm ø	Length mm	Thread length mm
8-1200	3.00	60	20
8-1202	3.00	80	20
8-1220	4.00	60	25
8-1222	4.00	100	25
8-1224	4.00	130	25
8-1228	4.00	170	25
8-1240	4.50	100	50
8-1242	4.50	120	50
8-1244	4.50	150	50
8-1246	4.50	170	50
8-1248	4.50	200	50
8-1250	4.50	250	50
8-1260	5.00	100	50
8-1264	5.00	125	50
8-1266	5.00	150	50
8-1268	5.00	170	50
8-1270	5.00	200	50
8-1272	5.00	250	50
8-1280	6.00	100	30
8-1284	6.00	150	50
8-1285	6.00	170	50
8-1286	6.00	200	50
8-1287	6.00	250	50



TREU - INSTRUMENTE

TREU - DYNAMIC - SCHRAUBE TREU - DYNAMIC SCREW

Selbstschneidend mit
Bohrerspitze und
Spiralanschliff.

Vorteil:
Kein Vorbohren
erforderlich.



Self - cutting with
drill bit and spiral
groove.

Advantage:
Pre - drilling is not
necessary.



Cat. No.	mm \varnothing	Length mm	Thread length mm
8-1300	3.00	60	20
8-1302	3.00	80	20
8-1310	5.00	150	50
8-1312	5.00	170	50
8-1314	5.00	200	50
8-1320	6.00	150	50
8-1322	6.00	170	50
8-1324	6.00	200	50



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Cortical Screws
 ø Shaft 6 mm
 ø Thread 6/5 mm
 ø Drill 4.8 mm



Total length mm	Thread length mm							
	30	40	50	60	70	80	90	100
90	8-1350							
100	8-1352	8-1356						
110		8-1358	8-1370					
120		8-1360		8-1380				
130		8-1362	8-1372	8-1382				
140			8-1374					
150				8-1384				
160					8-1390		8-1400	
170						8-1396		
180							8-1402	8-1410
200						8-1398	8-1404	

Cancellous Screws
 ø Shaft 6 mm
 ø Thread 6/5 mm
 ø Drill 4.8 mm



Total length mm	Thread length mm			
	30	40	50	60
90	8-1450			
100	8-1452	8-1456		
110		8-1458	8-1464	
120		8-1460		8-1470
130		8-1462	8-1466	8-1472
150			8-1468	8-1474



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Blunt Half Pin, self tapping, with Triangle End



Order No.	mm ø	Length mm	Thread length mm	Twist Drill
8-1500	3.00	75	25	25
8-1502	3.00	110	22	25
8-1504	4.00	120	45	45
8-1506	5.00	120	40	40
8-1508	5.00	150	50	50
8-1510	5.00	180	50	50
8-1512	6.00	150	50	50
8-1514	6.00	180	50	50
8-1516	6.00	200	60	60

Threaded Steinmann Pins 230 mm
Trocar point and round end



Diameter	2.0	2.5	3.0	3.5	4.0	4.5	5.0
Cat. No.:	8-1600	8-1602	8-1604	8-1606	8-1608	8-1610	8-1612

Calibrated Steinmann Pins 230 mm (Watson Jones)
Trocar point and round end



Diameter	2.0	2.5	3.0	3.5	4.0	4.5	5.0
Cat. No.:	8-1620	8-1622	8-1624	8-1626	8-1628	8-1630	8-1632



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Drill Bits

ø mm	AO shaft	Length mm	round shaft	Length mm
2.0	9-014	100 / 75	9-044	85 / 70
2.5	9-016	110 / 85	9-046	95 / 80
2.7	9-018	100 / 75	9-048	85 / 70
3.2	9-020	145 / 120	9-050	130 / 115
3.2	9-021	195 / 170	9-051	180 / 165
4.8	9-030	195 / 170	9-054	180 / 165



Drill Bits Cannulated hole ø 2.1 mm Length 150 mm (recommended)
Kannulierter Bohrer Bohrung ø 2,1 mm Länge 150 mm (empfohlen)

Cat. No.	ø mm
1-1861	3,5
1-1862	4,0
1-1863	4,8



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External Circular Fixator



Rev: 050406

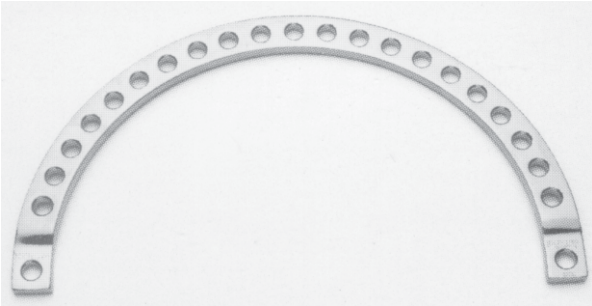


TREU - INSTRUMENTE



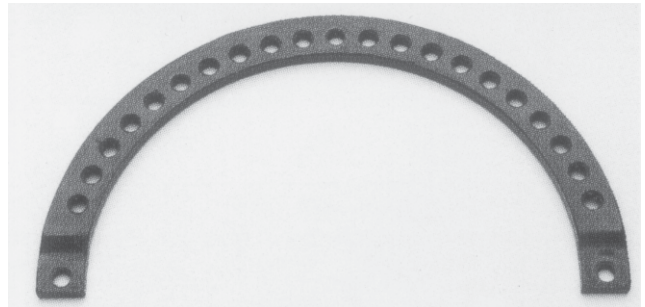
TREU - INSTRUMENTE

Half-Ring Aluminium Alloy



Cat. No.	Description
8-0510	Half-Ring ø 80 mm
8-0511	Half-Ring ø 100 mm
8-0512	Half-Ring ø 110 mm
8-0513	Half-Ring ø 120 mm
8-0514	Half-Ring ø 130 mm
8-0515	Half-Ring ø 140 mm
8-0516	Half-Ring ø 150 mm
8-0517	Half-Ring ø 160 mm
8-0518	Half-Ring ø 180 mm
8-0519	Half-Ring ø 200 mm
8-0520	Half-Ring ø 220 mm
8-0521	Half-Ring ø 240 mm

Carbon-Fiber Half Rings



Cat. No.	Description
8-0522	Carbon-Fiber Half-Ring ø 80 mm
8-0523	Carbon-Fiber Half-Ring ø 100 mm
8-0524	Carbon-Fiber Half-Ring ø 110 mm
8-0525	Carbon-Fiber Half-Ring ø 120 mm
8-0526	Carbon-Fiber Half-Ring ø 130 mm
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8-0530	Carbon-Fiber Half-Ring ø 180 mm
8-0531	Carbon-Fiber Half-Ring ø 200 mm
8-0532	Carbon-Fiber Half-Ring ø 220 mm
8-0533	Carbon-Fiber Half-Ring ø 240 mm

$\frac{5}{8}$ C Rings Stainless

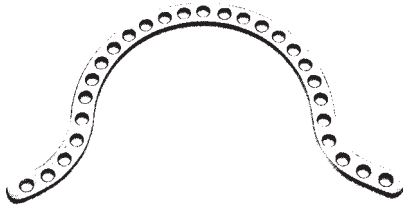


Cat. No.	Description
8-0536	$\frac{5}{8}$ C Ring ø 100 mm
8-0537	$\frac{5}{8}$ C Ring ø 120 mm
8-0538	$\frac{5}{8}$ C Ring ø 140 mm
8-0539	$\frac{5}{8}$ C Ring ø 160 mm
8-0540	$\frac{5}{8}$ C Ring ø 180 mm



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Omega Ring Stainless



Cat. No.	Description
8-0544	Omega-Ring, \varnothing 120 mm
8-0545	Omega-Ring, \varnothing 130 mm
8-0546	Omega-Ring, \varnothing 150 mm

Femoral Arches Stainless



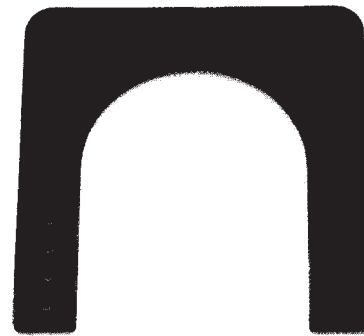
Cat. No.	Description
8-0547	Femoral-Arch, 90°, 200 mm
8-0548	Femoral-Arch, 120°, 200 mm

Carbon-Fiber Femoral Arches



Cat. No.	Description
8-0550	Carbon-Fiber Femoral Arch, \varnothing 80 x 90°
8-0551	Carbon-Fiber Femoral Arch, \varnothing 80 x 120°
8-0552	Carbon-Fiber Femoral Arch, \varnothing 110 x 90°
8-0553	Carbon-Fiber Femoral Arch, \varnothing 110 x 120°

Carbon-Fiber Foot Rings



Cat. No.	Description
8-0555	Carbon-Fiber Foot Ring, 80 mm
8-0556	Carbon-Fiber Foot Ring, 120 mm

Connection Plates



Cat. No.	Description
8-0558	Connection Plate, 38 mm, 2 Holes
8-0559	Connection Plate, 49 mm, 3 Holes
8-0560	Connection Plate, 60 mm, 4 Holes
8-0561	Connection Plate, 71 mm, 5 Holes
8-0562	Connection Plate, 82 mm, 6 Holes
8-0563	Connection Plate, 93 mm, 7 Holes
8-0564	Connection Plate, 104 mm, 8Holes
8-0565	Connection Plate, 115 mm, 9Holes
8-0566	Connection Plate, 126 mm, 10 Holes

Long Connection Plates



Cat. No.	Description
8-0568	Carbon-Fiber Connection Plate, 159 mm, 8 Holes
8-0569	Carbon-Fiber Connection Plate, 236 mm, 12 Holes
8-0570	Carbon-Fiber Connection Plate, 336 mm, 17 Holes



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Carbon-Fiber Connection Plates



Cat. No.	Description
8-0572	Carbon-Fiber Connection Plate, 155 mm 8 mm
8-0573	Carbon-Fiber Connection Plate, 235 mm 12 mm
8-0574	Carbon-Fiber Connection Plate, 338 mm 17 mm

Connection Plates with Threaded Rod



Cat. No.	Description
8-0576	Connection Plate With Threaded Rod, 131 mm, 5 Holes
8-0578	Connection Plate With Threaded Rod, 171 mm, 7 Holes
8-0580	Connection Plate With Threaded Rod, 211 mm, 9 Holes
8-0582	Connection Plate With Threaded Rod, 251 mm, 11 Holes

Twisted Plates



Cat. No.	Description
8-0584	Twisted Plate, 46 mm, 2 Holes
8-0586	Twisted Plate, 67 mm, 3 Holes
8-0588	Twisted Plate, 88 mm, 4 Holes

Curved Plate



Cat. No.	Description
8-0590	Curved Plate

Serrated Washer



Cat. No.	Description
8-0591	Serrated Washer

Threaded Rods



Cat. No.	Description
8-0592	Threaded Rod, 60 mm
8-0594	Threaded Rod, 80 mm
8-0596	Threaded Rod, 100 mm
8-0598	Threaded Rod, 120 mm
8-0600	Threaded Rod, 150 mm
8-0602	Threaded Rod, 200 mm



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Threaded Rods (With Hole)



Cat. No.	Description
8-0604	Threaded Rod (With Hole), 60 mm
8-0606	Threaded Rod (With Hole), 80 mm
8-0608	Threaded Rod (With Hole), 100 mm
8-0610	Threaded Rod (With Hole), 120 mm
8-0612	Threaded Rod (With Hole), 150 mm
8-0614	Threaded Rod (With Hole), 200 mm

Threaded Rods (Slotted)



Cat. No.	Description
8-0616	Threaded Rod (Slotted), 40 mm
8-0618	Threaded Rod (Slotted), 50 mm
8-0620	Threaded Rod (Slotted), 60 mm
8-0622	Threaded Rod (Slotted), 80 mm
8-0624	Threaded Rod (Slotted), 100 mm

Telescopic Rods (Graduated)



Cat. No.	Description
8-0626	Telescopic Rod (Graduated), 100 mm
8-0628	Telescopic Rod (Graduated), 150 mm
8-0630	Telescopic Rod (Graduated), 200 mm
8-0632	Telescopic Rod (Graduated), 250 mm

Male Supports



Cat. No.	Description
8-0636	Male Support, 1 Hole
8-0638	Male Support, 2 Holes
8-0640	Male Support, 3 Holes
8-0642	Male Support, 4 Holes

Female Posts



Cat. No.	Description
8-0646	Female Post, 1 Hole
8-0648	Female Post, 2 Holes
8-0650	Female Post, 3 Holes
8-0652	Female Post, 4 Holes

Male Half-Hinge



Cat. No.	Description
8-0657	Male Half-Hinge

Female Half-Hinge



Cat. No.	Description
8-0658	Female Half-Hinge

Twisted Support 90°



Cat. No.	Description
8-0659	Twisted Support 90°



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Bushing



Cat. No. 8-0660
Description Bushing

M6 Bolts



Cat. No. 8-0662
Description M6 x 18 mm
8-0664 M6 x 22 mm
8-0666 M6 x 30 mm

M6 Nut



Cat. No. 8-0668
Description M6 Nut

Lock Nut



Cat. No. 8-0669
Description Lock Nut

Nut with Quadragonal Head



Cat. No. 8-0670
Description Nut with Quadragonal Head

Washer ø16



Cat. No. 8-0671
Description Washer ø16

Oval Washer



Cat. No. 8-0672
Description Oval Washer ø16

Oval Washer



Cat. No. 8-0673
Description Oval Washer ø12

Spherical Washers

(Male) (Female)



Cat. No. 8-0674
Description Conical Washer
8-0676 Conical Couple

Translation / Rotation Device (Graduated)



Cat. No. 8-0678
Description Translation / Rotation Device
(Graduated)

Adjustable Half-Pin Clamp



Cat. No. 8-0677
Description Adjustable Half-Pin Clamp



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Femoral Joint (Mono-Axial)



Cat. No. 8-0747
Description Femoral Joint (Mono-Axial)

Femoral Joint (Poli-Axial)



Cat. No. 8-0748
Description Femoral Joint (Poli-Axial)

Universal Joint



Cat. No. 8-0749
Description Universal Joint

Oblique Support Connector



Cat. No. 8-0750
Description Oblique Support Connector
 32 mm

Oblique Support Connector



Cat. No. 8-0752
Description Oblique Support Connector
 74 mm

Wire Retaining Bolt (With Hole)



Cat. No. 8-0753
Description Wire Retaining Bolt
 (With Hole) \varnothing 1.8 mm

Wire Retaining Bolt (Slotted)



Cat. No. 8-0754
Description Wire Retaining Bolt (Slotted)

Wire Retaining Washer (Slotted)



Cat. No. 8-0755
Description Wire Retaining Washer
 (Slotted)

Half-Pin Retaing Bolts



Cat. No. 8-0756
Description Wire Retaining Bolt , Half Pin \varnothing 4 x 26
 8-0758
Description Wire Retaining Bolt , Half Pin \varnothing 5 x 26
 8-0760
Description Wire Retaining Bolt , Half Pin \varnothing 6 x 26

Half-Pin Universal Retaing Bolt



Cat. No. 8-0761
Description Half-Pin Universal Retaing Bolt
 (Suitable for \varnothing 4 mm, \varnothing 5 mm, \varnothing 6 mm)



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Single Pin Fixation Bolt



Cat. No.	Description
8-0762	Single Pin Fixaton Bolt (Suitable for ø4 mm, ø5 mm, ø6 mm)

Cubes



Cat. No.	Description
8-0765	Cube 1 Hole
8-0766	Cube 2 Hole
8-0767	Cube 3 Hole
8-0768	Cube 4 Hole
8-0769	Cube 5 Hole

Half-Pin Centering Sleeves



Cat. No.	Description
8-0770	Centering Sleeve ø4
8-0772	Centering Sleeve ø5
8-0774	Centering Sleeve ø6

M6 Bolt-Setting



Cat. No.	Description
8-0775	M6 x 10 mm Bolt Setting

M6 Set-Screw



Cat. No.	Description
8-0776	Set Screw M6

Olive Wires (Trochar Pointed)



Cat. No.	Description
7-158	Olive Wire (Trochar Pointed) ø 1.5 mm x 300 mm
7-160	Olive Wire (Trochar Pointed) ø 1.5 mm x 370 mm
7-162	Olive Wire (Trochar Pointed) ø 1.5 mm x 400 mm
7-164	Olive Wire (Trochar Pointed) ø 1.8 mm x 300 mm
7-166	Olive Wire (Trochar Pointed) ø 1.8 mm x 370 mm
7-168	Olive Wire (Trochar Pointed) ø 1.8 mm x 400 mm

Trochar Pointed Wires



Cat. No.	Description
7-123	Trochar Pointed Wire ø 1.5 mm x 310 mm
7-152	Trochar Pointed Wire ø 1.5 mm x 370 mm
7-153	Trochar Pointed Wire ø 1.5 mm x 400 mm
7-126	Trochar Pointed Wire ø 1.8 mm x 310 mm
7-154	Trochar Pointed Wire ø 1.8 mm x 370 mm
7-156	Trochar Pointed Wire ø 1.8 mm x 400 mm

Ratchet Handle



Cat. No.	Description
8-0784	Ratched Handle

Socket Wrench



Cat. No.	Description
8-0785	Socket Wrench 10 mm



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Combination Spanners



- | Cat. No. | Description |
|----------|---------------------------------------|
| 8-0786 | Combination Spanner AA 10 mm |
| 8-0788 | Double Open Ended Spanner AA 14-17 mm |

U.Joint Socket Wrench



- | Cat. No. | Description |
|----------|--------------------------------|
| 8-0790 | U.Joint Socket Wrench AA 10 mm |

90° Hex Driver



- | Cat. No. | Description |
|----------|-----------------------|
| 8-0791 | 90° Hex Driver AA3 mm |

Hex Driver



- | Cat. No. | Description |
|----------|-------------------|
| 8-0792 | Hex Driver AA3 mm |

Drill Guides



- | Cat. No. | Description |
|----------|------------------|
| 8-0794 | Drill Guide ø3.2 |
| 8-0796 | Drill Guide ø4.5 |
| 8-0798 | Drill Guide ø6 |

Trocar



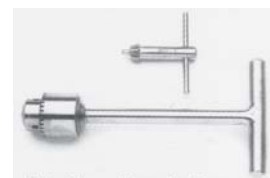
- | Cat. No. | Description |
|----------|-------------|
| 8-0793 | Trocar |

Drills



- | Cat. No. | Description |
|----------|------------------|
| 9-051 | Drill Guide ø3.2 |
| 9-053 | Drill Guide ø3.5 |
| 9-057 | Drill Guide ø4.5 |

Universal chuck with T-Handle



- | Cat. No. | Description |
|----------|-------------------------------|
| 9-090 | Universal Chuck With T-Handle |



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Depth Gauge



Cat. No.	Description
8-0374	Depth Gauge

Side Cutter



Cat. No.	Description
7-414	Side Cutter

Wire Tensioner



Cat. No.	Description
8-0799	Wire Tensioner



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