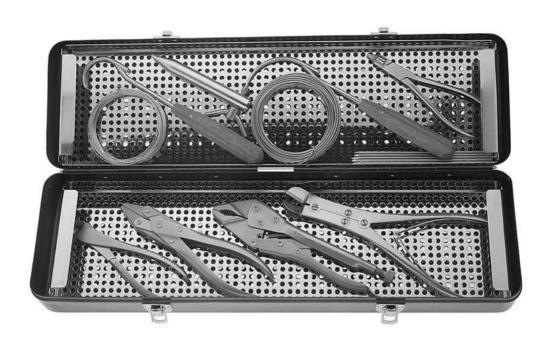


### Wire Instrument Set



T 700 19E-286.03 T 112 T 112	Wire Instrument Set Implant-Container,red, 500 x 155 x 75 mm Upper Tray Lower Tray	
7-416 7-418 16E-500.19 16E-505.18 7-414 16E-525.22	Instruments Tray (lower) Forceps for holding cerclage wire Wire Bending-Cutting Pliers Flat-Nosed Pliers, parallel, 18,5 cm Locking Pliers, 18,0 cm Wire Cutter, small Wire Cutting Pliers, TC, 22,0 cm	2 units
7-375 7-377 7-378	Instruments Tray (upper) Wire Guide 45 mm Wire Guide 70 mm Wire Tightener	
7-022 7-023 7-010 7-012	Cerclage Wires with eye, 1.0 mm ø, 280 mm long Cerclage Wires with eye, 1.2 mm ø, 280 mm long Wire Coil, 1.0 mm ø, length 10 metres Wire Coil, 1.2 mm ø, length 10 metres	10 units 20 units 1 units 1 units
7-252- 7-270	1.0 / 1.2 / 2.0 / 2.5 / 3.0 mm ø, 10 each Kirschner	50 units
7-260	1.6 mm ø Kirschner Wire	20 units





Cerclage Wire soft, in coils of 10 m

ø mm	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.5
Gauge	31	29	27	25	23	22	21	20	19	18	17
Cat. No.:	7-002	7-003	7-004	7-005	7-006	7-007	7-008	7-009	7-010	7-012	7-015

Oun

Cerclage Wires

with eye, soft Diameter Length 7-020 0.8 mm 280 mm 280 mm 7-022 1.0 mm 7-023 1.2 mm 280 mm 7-024 600 mm 1.0 mm 7-025 1.2 mm 600 mm



7-380 Wire Tightener



**7-030** Parham Martin Band Tightener



7-032 Parham Metal Bone Bands 19 cm x 0.5 mm



### **Kirschner Wires**

Point	Trocar	Trocar
Shaft End	round	Trocar
Length	310 mm	310 mm
ø 1.0 mm	7-120	7-140
ø 1.2 mm	7-121	7-141
ø 1.4 mm	7-122	7-142
ø 1.5 mm	7-123	7-143
ø 1.6 mm	7-124	7-144
ø 1.8 mm	7-126	7-145
ø 2.0 mm	7-127	7-146
ø 2.2 mm	7-128	7-147
ø 2.5 mm	7-129	7-148
ø 3.0 mm	7-130	

Point	Trocar	Trocar	Trocar	
Shaft End	Shaft End round		Trocar	
Length	70 mm	150 mm	150 mm	
ø 0.8 mm	7-200	7-250	7-280	
ø 1.0 mm	7-201	7-252	7-282	
ø 1.2 mm		7-254	7-284	
ø 1.4 mm		7-256	7-286	
ø 1.5 mm	7-208	7-258	7-288	
ø 1.6 mm		7-260	7-290	
ø 1.8 mm		7-262	7-292	
ø 2.0 mm		7-264	7-294	
ø 2.2 mm		7-266	7-296	
ø 2.5 mm	7-210	7-268	7-298	
ø 3.0 mm		7-270		

Kirschner Wires with thread and trocar points, round end

	Diameter	Length	Threaded Length
7-310	1.6 mm	150 mm	5 mm
7-312	1.6 mm	150 mm	15 mm
7-314	2.0 mm	150 mm	15 mm
7-316	2.0 mm	200 mm	15 mm
7-318	2.5 mm	200 mm	15 mm
7-320	2.5 mm	230 mm	20 mm





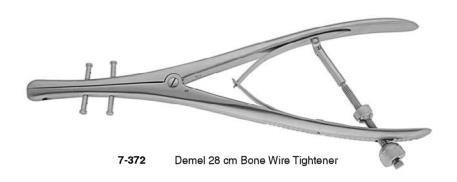


7-353 Pliers with serrated jaws and groove
 7-356 Pliers with serrated jaws without groove

**7-358** Rounded Pliers with serrated jaws















7-388 Extraction Pliers for boring wire 130 mm7-390 Extraction Pliers for boring wire 180 mm



 16E-505.18
 Vise Grip 18,0 cm

 Stainless Steel
 Vise Grip 20,0 cm

 Stainless Steel
 Vise Grip 24,0 cm

 Stainless Steel
 Vise Grip 24,0 cm

 Stainless Steel
 Vise Grip 24,0 cm



16E-511.02 Flat Nose Pliers, parallel action, 18,0 cm size 2
16E-510.03 Flat Nose Pliers, TC, 18,0 cm, size 3



16E-500.19 Flat-nosed Pliers, parallel, without lateral Wire Cutter, 18,0 cm Stainless Steel
16E-501.19 Flat-nosed Pliers, parallel, with lateral Wire Cutter, 18,0 cm Stainless Steel



### **Extraction Instruments**





### **Dolphin Locking Pliers**





















Wire Bending Pliers soft wire 1.5 mm hard wire 1.0 mm

7-418

7-420 W Pliers

Wire Bending Cutting soft wire 1.5 mm hard wire 1.0 mm





**16E-525.18** TC 18,0 cm soft wire 2.0 mm hard wire 1.5 mm



16E-530.18 18,0 cm frontal and lateral cutting action TC soft wire 2.0 mm hard wire 1.5 mm



Wire Cutter 22,0 cm TC soft wire 3.0 mm hard wire 2.5 mm



16E-527.15

16E-527.22

Wire Cutter 15,0 cm TC soft wire 1.5 mm Wire Cutter 22,0 cm TC soft wire 2.5 mm hard wire 2.2 mm



7-438

Wire Cutter TC 140 mm soft wire 1.2 mm hard wire 0.8 mm



### **Diamond Pin Cutter**



16E-524.19 Wire Cutter cannulated 18,0 cm soft wire 2.4 mm hard wire 1.6 mm



7-443 Wire Cutter Hard Wire 2.0 mm

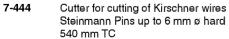


**7-441** Wire Cutter TC Hard Wire 1.2 mm



#### **Wire Cutters**





7-446 Cutter for cutting of Kirschner wires Steinmann Pins up to 6 mm ø hard 460 mm TC



**7-450** 575 mm Hard wire 6.0 mm



7-452

260 mm Hard wire 3.5 mm

## Draht Extension Wire Extension



#### **Wire Extension**



Kirscher, American type

Size Max. Jaw Opening Medium 130 mm

 7-460
 Medium
 130 mm

 7-462
 Large
 185 mm

 7-464
 Extra Large
 220 mm



7-468 Kirscher 7-470 40 x 140 mm 60 x 220 mm



7-472 20.0 cm x 15.5 cm 7-474 15.5 cm x 15.5 cm 7-476 13.5 cm x 13.0 cm 7-478 12.0 cm x 12.0 cm 7-480 10.5 cm x 10.0 cm 7-482 9.5 cm x 11.0 cm 7-484 9.5 cm x 7.0 cm



7-490 Wire Strainer for Kirschner Extension Bow



### **Wire Extension**





	Inside Length	Inside Width
7-496	90 mm	75 mm
7-498	160 mm	90 mm
7-500	210 mm	110 mm
7-502	210 mm	150 mm

7-520 Hexagonal Wrench for Tibia Bolt



**7-524** Tibia Bolt ø 2.4 mm, 180 mm length **7-526** Tibia Bolt ø 3.2 mm, 180 mm length





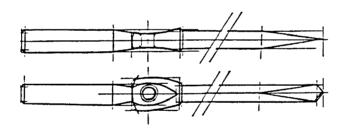
7-540	Larsen Pin Dia. 1.6 mm x Length 60 mm	
7-541	Larsen Pin Dia. 1.6 mm x Length 80 mm	
7-542	Larsen Pin Dia. 1.6 mm x Length 100 mm	
7-543	Larsen Pin Dia. 1.6 mm x Length 120 mm	

#### The Larsen Pin

### A non-sliding device for Tension Absorbing Wire (TAW) technique

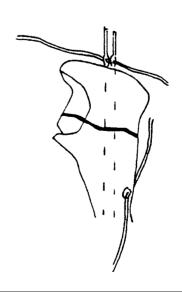
#### **FEATURES**

The stainless steel (W14310 - AISI 302) pin is a high polished 1,6 mm diamond shaped implant, which is available in 4 sizes, 60, 80, 100 and 120 mm of length. The head of the pin is 2,5 mm thick, and the anchoring hole is 1,2 mm to facilitate a 1 mm cerglage wire. The proximal part of the Larsen Pin is prepared for cutting, and fits in conventional as well as mini drivers. This part of the pin is 2 mm thick. No special device or tool is required for the insertion, and a normal wire cutter will suffice for cutting off the pin.



### **GENERAL OPERATIVE TECHNIQUES**

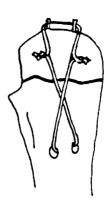
When using tension absorbing wire techniques in connection with this non-sliding pin, the risk of skin problems, sliding off the cerclage wire, pin migration and fragmentation of small bone fragments will be excluded.





#### **TECHNIQUE**

The Larsen Pin is designed for the treatment of transverse or oblique fracures of the olecranon and the patella, but is also well suited in all cases where the tension absorbing wire techniques is desirable.



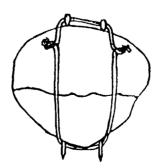
#### **INDICATIONS**

The operation technique when using the Larsen Pin is very simple, and in many ways similar to the routine used with conventional Kischner wires. The fracture and joint is exposed through a postero-lateral approach. The fracture is reduced, and the two Larsen Pins are drilled in parallel to the axis of the diaphyseal part of the ulna. The holes of the pins should at this stage be left 0,5 - 1 cm apart from the aligeranon bone. The pins are then positioned with the holes aligned to facilitate the insertion of the cerclage wire.

A 2 mm hole is drilled perpendicular to the long axis of the on and 3 - 4 mm distally of the fracture line.

A 1 mm cerclage wire is inserted through the holes in the pin heads, and another similar cerclage is placed through the hole in the ulnar bone.

The pins are impacted until stopped by the pin heads. The importance of good impaction on the fracture side is empassised. Further compression of the fracture is achieved by twisting the free ends of the cerclage wires, making sure that equal tension is reached on both sides. In cases of olecranon fractures, a figure-of-eight technique is recommended. The loop-ends are bent and placed properly, taking into account the risk of skin affection.



### K-Draht, Zubehör K-Wire, Accessories



#### **Metall Rack for Kirschner Wires**



#### **Metall Rack for Kirschner Wires**

For storage and sterilization of Kirschner Wires

for different sizes 310 mm 7-840

for 8 different sizes 150 mm 7-842

3 different sizes for Kirschner Wires, 10 cm, 16 cm, 31 cm made of stainless material, sterilizable - 134° for 4, 6, 8 and 10 different diameters each each compartment can receive from 6 up to 20 Kirschner Wires (depending on the diameters) with special Silicon strip to protect the wire tips with integrated measuring gauge



## K-Draht, Zubehör K-Wire, Accessories

### Wire Drill Dispenser

easy to transport and storage

- silicone insert avoids damiging the wire tips



Wire length	Wire ø 0,8 mm	Wire ø 1,0 mm	Wire ø 1,2 mm	Wire ø 1,4 mm	Wire ø 1,6 mm	Wire ø 2,0 mm	Wire ø 2,2 mm	Wire ø 2,5 mm
16,0 cm	7-850	7-852	7-854	7-856	7-858	7-860	7-862	7-864
31,0 cm	7-870	7-872	7-874	7-876	7-878	7-880	7-882	7-884



7-890 Vickers Easidriver



This specially designed dispender holds four different wire gauges ø 1.0 / 1.2 / 1.4 / and 1.6 mm, each 10 cm long.



7-892 Wire Drill Dispenser