



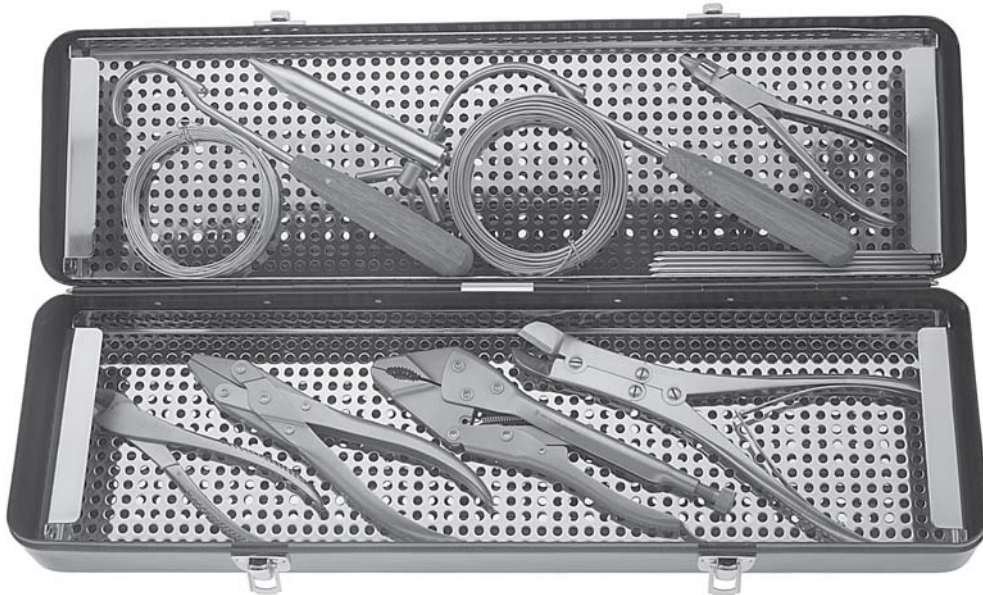
**Wire Instruments, Kirschner Wires, Extension Bows**





# TREU - INSTRUMENTE

## Wire Instrument Set



<b>T 700</b>	Wire Instrument Set	
<b>T 111</b>	Aluminium Case	
<b>T 112</b>	Upper Tray	
<b>T 112</b>	Lower Tray	
	Instruments	
	Tray (lower)	
<b>7-416</b>	Forceps for holding cerclage wire	2 units
<b>7-418</b>	Wire Bending-Cutting Pliers	
<b>7-402</b>	Flat-Nosed Parallel Pliers	
<b>7-398</b>	Vise Grip	
<b>7-414</b>	Wire Cutter, small	
<b>7-434</b>	Wire Cutter, large	
	Instruments	
	Tray (upper)	
<b>7-375</b>	Wire Guide 45 mm	
<b>7-377</b>	Wire Guide 70 mm	
<b>7-378</b>	Wire Tightener	
<b>7-022</b>	Cerclage Wires with eye, 1.0 mm $\varnothing$ , 280 mm long	10 units
<b>7-023</b>	Cerclage Wires with eye, 1.2 mm $\varnothing$ , 280 mm long	20 units
<b>7-010</b>	Wire Coil, 1.0 mm $\varnothing$ , length 10 metres	1 units
<b>7-012</b>	Wire Coil, 1.2 mm $\varnothing$ , length 10 metres	1 units
<b>7-252-</b>	1.0 / 1.2 / 2.0 / 2.5 / 3.0 mm $\varnothing$ , 10 each Kirschner	50 units
<b>7-270</b>		
<b>7-260</b>	1.6 mm $\varnothing$	20 units



# TREU - INSTRUMENTE



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.:	<b>7-002</b>	<b>7-003</b>	<b>7-004</b>	<b>7-005</b>	<b>7-006</b>	<b>7-007</b>	<b>7-008</b>	<b>7-009</b>	<b>7-010</b>	<b>7-012</b>	<b>7-015</b>



Cerclage Wires  
with eye, soft

	Diameter	Length
<b>7-020</b>	0.8 mm	280 mm
<b>7-022</b>	1.0 mm	280 mm
<b>7-023</b>	1.2 mm	280 mm
<b>7-024</b>	1.0 mm	600 mm
<b>7-025</b>	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



# TREU - INSTRUMENTE



**7-031**  
Wire Tightner  
260 mm



**7-033**  
Long Forceps for  
Twisting Wire  
230 mm



**7-034**  
Plier Cum Wire Bender  
155 mm



# TREU - INSTRUMENTE



7-370 Loute 22 cm Bone Wire Tightener



7-372 Demel 28 cm Bone Wire Tightener



7-375 Wire Guide 45 mm



7-377 Wire Guide 70 mm



7-378 Wire Tightener



# TREU = INSTRUMENTE

## Dispenser for Kirschner Wires

- Stores, sterilizes, and dispenses one size at a time
- Sharp points are protected by silicone insert in cap
- To avoid injury, load wire with blunt end down
- Hexagonal shape of cap prevents unmanted movement of dispenser
- Diameter is marked for easy identification
- Full Perforation allows for proper sterilization

easy to transport and storage



Wire Length	Wire ø 0,8 mm	Wire ø 1,0 mm	Wire ø 1,2 mm	Wire ø 1,4 mm	Wire ø 1,5 mm	Wire ø 1,6 mm	Wire ø 1,8 mm	Wire ø 2,0 mm	Wire ø 2,2 mm	Wire ø 2,5 mm
16,0 cm	<b>7-850</b>	<b>7-852</b>	<b>7-854</b>	<b>7-856</b>	<b>7-857</b>	<b>7-858</b>	<b>7-859</b>	<b>7-860</b>	<b>7-862</b>	<b>7-864</b>
31,0cm	<b>7-870</b>	<b>7-872</b>	<b>7-874</b>	<b>7-876</b>	<b>7-877</b>	<b>7-878</b>	<b>7-879</b>	<b>7-880</b>	<b>7-882</b>	<b>7-884</b>

## Kirschner Wires



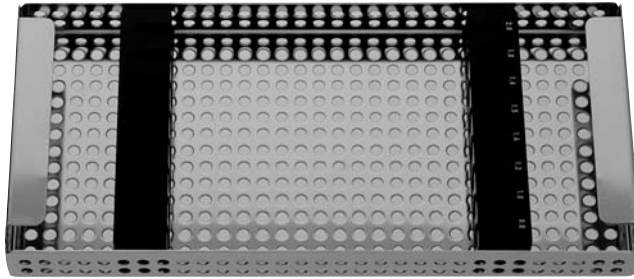
Point	Trocar	Trocar
Shaft End	round	Trocar
Length	310 mm	310 mm
ø 1.0 mm	<b>7-120</b>	<b>7-140</b>
ø 1.2 mm	<b>7-121</b>	<b>7-141</b>
ø 1.4 mm	<b>7-122</b>	<b>7-142</b>
ø 1.5 mm	<b>7-123</b>	<b>7-143</b>
ø 1.6 mm	<b>7-124</b>	<b>7-144</b>
ø 1.8 mm	<b>7-126</b>	<b>7-145</b>
ø 2.0 mm	<b>7-127</b>	<b>7-146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

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



# TREU - INSTRUMENTE

## Metall Rack for Kirschner Wires



### Metall Rack for Kirschner Wires

For storage and sterilization of Kirschner Wires only Dispenser

for 8 different sizes 310 mm    **7-840**    0,8 - 1,0 mm - 1,2 mm - 1,4 mm - 1,5 mm - 1,6 mm - 1,8 mm - 2,0 mm

for 8 different sizes 150 mm    **7-842**    0,8 - 1,0 mm - 1,2 mm - 1,4 mm - 1,5 mm - 1,6 mm - 1,8 mm - 2,0 mm



**7-895**    Basket for Dispensers for K-wires  
0,8 - 1,0 mm - 1,2 mm - 1,4 mm - 1,5 mm - 1,6 mm - 1,8 mm - 2,0 mm - 2,5 mm  
empty · nicht gefüllt

**7-896**    Basket for Dispensers for K-wires complete    7-850 - 7-884 (20 pieces)  
7-434 Wire Cutter (1 piece)  
7-350 Bending Iron (1 piece)



# TREU - INSTRUMENTE



Kirschner Wires with thread and trocar points, round end

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



**7-348** Bending Iron for K-Wire  $\varnothing$  0,8 bis 1,25 mm



**7-350** Bending Iron for Kirschner Wires



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



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

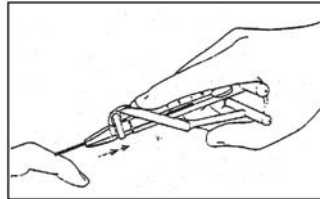
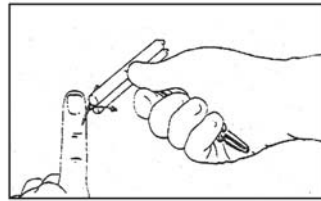
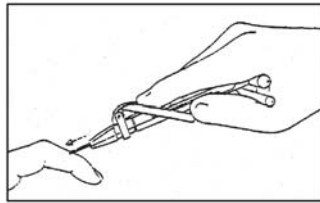


# TREU - INSTRUMENTE



7-890 Vickers Easidriver

- Single handed operation
- Chuckless
- Depthscale
- Wire bending facility
- No maintenance
- No set-up
- Autoclavable



**No manual device has ever achieved this function**

For years, surgeons have sought a simple pin driver that could actually be fully controlled with one hand. The new Vickers Easidriver leaves the other hand free to manipulate tissue, leaving the patient in better hands.

**Ideal back up unit for official and hospital**

What do you use when your power equipment fails during surgery? Now you have the handy Vickers Easidriver. Without loss of precious time, it is ready for use. In cases where power equipment is not indicated or available, the Vickers can become your primary driver, allowing for feel and control that power units don't offer



7-897  
k-Wire Introducer, for 1.5 and 2.0 mm Wires



# TREU - INSTRUMENTE



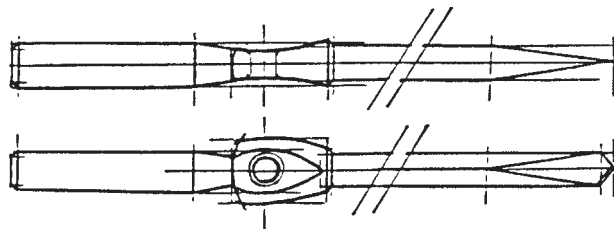
<b>7-540</b>	Larsen Pin Dia. 1.6 mm x Length 60 mm
<b>7-541</b>	Larsen Pin Dia. 1.6 mm x Length 80 mm
<b>7-542</b>	Larsen Pin Dia. 1.6 mm x Length 100 mm
<b>7-543</b>	Larsen Pin Dia. 1.6 mm x Length 120 mm

## The Larsen Pin

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

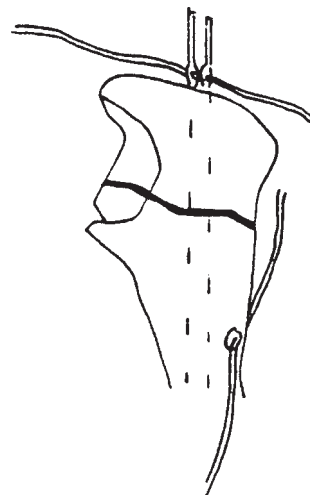
### FEATURES

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 cerclage 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.

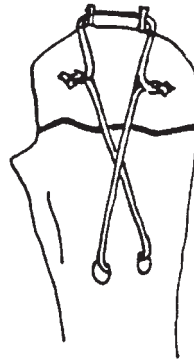




# TREU = INSTRUMENTE

## TECHNIQUE

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



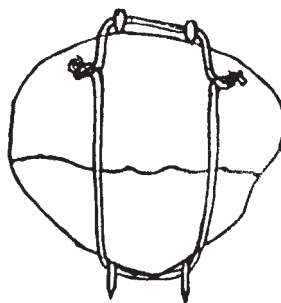
## INDICATIONS

The operation technique when using the Larsen Pin is very simple, and in many ways similar to the routine used with conventional Kirschner 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 olecranon 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 olecranon 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.

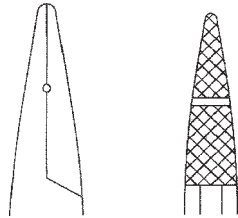
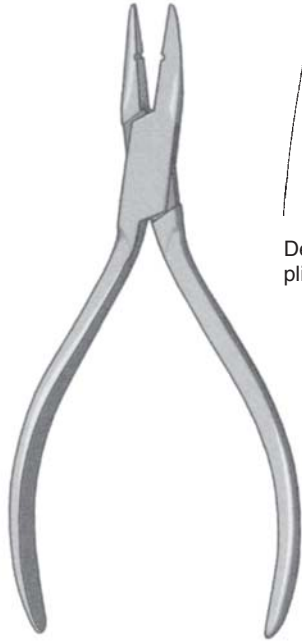
The pins are impacted until stopped by the pin heads. The importance of good impaction on the fracture side is emphasized. Further compression of the fracture is achieved by twisting the free ends of the cerclage wires, making sure that equal tension is reached on both sides. In cases of olecranon fractures,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





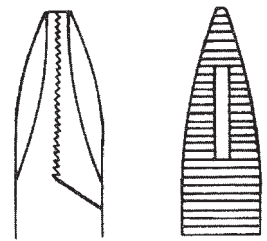
# TREU - INSTRUMENTE

## PLIERS



Delicate needle nose  
pliers for cerclage wire

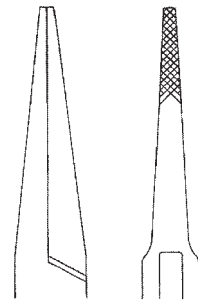
**7-360** Needle Nose Pliers  
delicate with wire guide  
13,5 cm



**7-362** Needle Nose Pliers  
serrated jaw 2 mm tip  
14,0 cm



**7-364** Needle Nose Pliers  
serrated jaw 5 mm tip  
14,0 cm

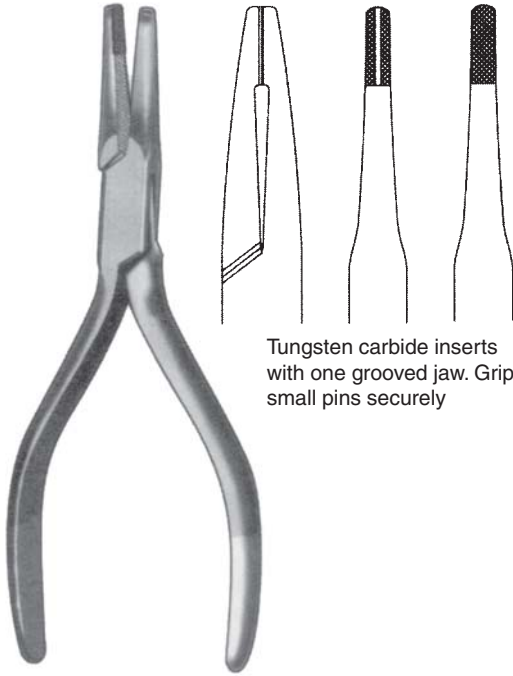


**7-365** Needle Nose Pliers  
delicate jaw tapers to 2 mm  
for cerclage wire  
15,0 cm



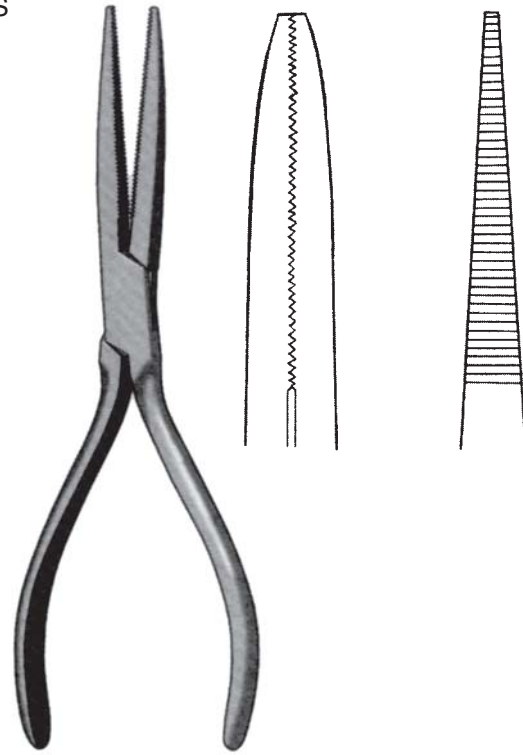
# TREU - INSTRUMENTE

## PLIERS

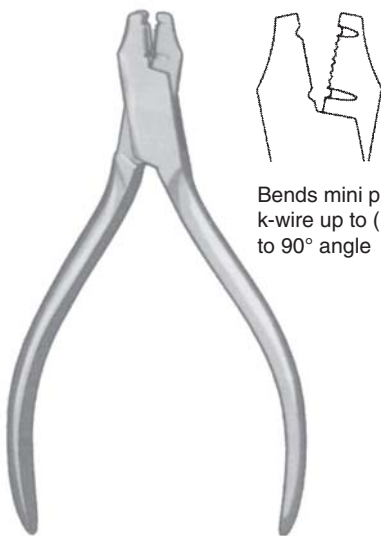


Tungsten carbide inserts  
with one grooved jaw. Grips  
small pins securely

**7-367** Pin Puller  
jaw tapers to 3 mm  
tungsten carbide inserts  
14,0 cm

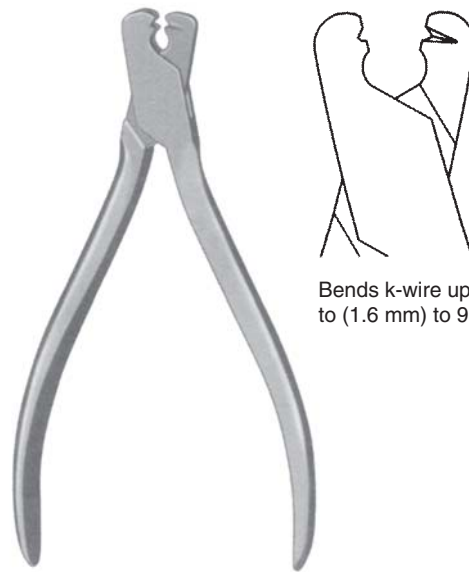


**7-368** Needle Nose Pliers  
2" long delicate jaw  
tapers to 2 mm at tip  
18,0 cm



Bends mini plates and  
k-wire up to (1.1 mm)  
to 90° angle

**7-369** K-Wire and Plate Bender  
max. (1.1) mm  
12,0 cm



Bends k-wire up  
to (1.6 mm) to 90° angle

**7-366** K-Wire and Plate Bender  
max. (1.6) mm  
14,0 cm



# TREU - INSTRUMENTE

## PLIERS



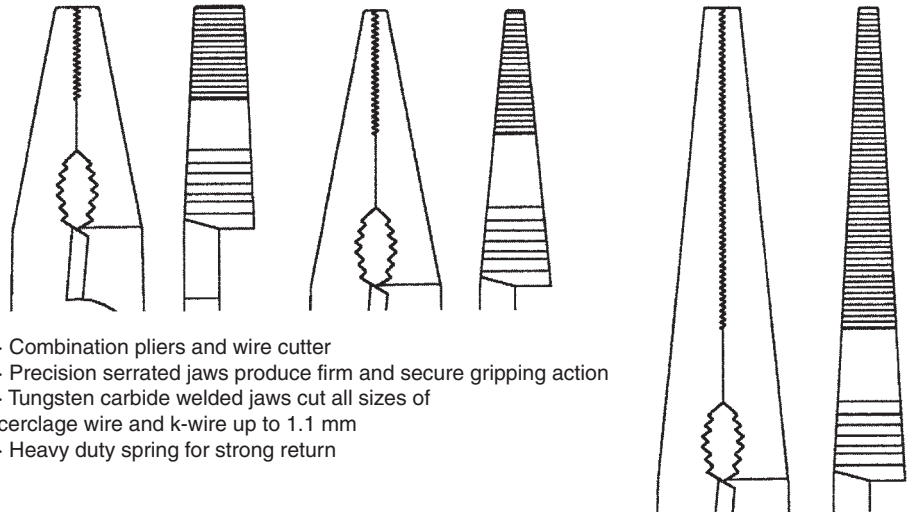
**7-371** 2 mm jaw  
2" maximum opening  
20,0 cm



All purpose pliers for wires,  
pins, screws and rods



Universal Pliers  
serrated with spring and cutting edge  
(1.1 mm) max cut



- Combination pliers and wire cutter
- Precision serrated jaws produce firm and secure gripping action
- Tungsten carbide welded jaws cut all sizes of cerclage wire and k-wire up to 1.1 mm
- Heavy duty spring for strong return

- 7-381** 6½" square 7 mm jaw
- 7-382** 7" tapers from 8 mm to 2 mm at tip
- 7-383** 8" needle nose 2" long jaw tapers to 2 mm at tip



# TREU - INSTRUMENTE



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



**7-392** Extraction Pliers for wire 180 mm  
**7-394** Extraction Pliers TC jaws



**7-396** Vise Grip 180 mm  
Chrom Vanadium  
**7-398** Vise Grip 180 mm  
Stainless Steel  
**7-397** Vise Grip 200 mm  
Stainless Steel  
**7-399** Vise Grip 240 mm  
Stainless Steel



**7-400** Flat-nosed Pliers, parallel,  
with lateral Wire Cutter, 180 mm  
Chrom Vanadium Steel  
**7-401** Flat-nosed Pliers, parallel,  
without lateral Wire Cutter, 180 mm  
Chrom Vanadium Steel  
**7-402** Flat-nosed Pliers, parallel,  
without lateral Wire Cutter, 180 mm  
Stainless Steel  
**7-403** Flat-nosed Pliers, parallel,  
with lateral Wire Cutter, 180 mm  
Stainless Steel



# TREU - INSTRUMENTE

## Extraction Instruments



**7-404** Extraction Pliers, 190 mm TC



**7-406** Extraction Pliers, 200 mm TC



# TREU - INSTRUMENTE

## Needle Nosed Locking Pliers



7-407 30,0 cm



7-408 25,0 cm



7-409 22,0 cm



# TREU - INSTRUMENTE



**7-410** Universal Scissors  
**7-412** Universal Scissors  
with TC cutting edges



**7-414** Wire Cutter



**7-416** Wire Tightening Pliers TC



**7-418** Wire Bending Pliers  
soft wire 1.5 mm  
hard wire 1.0 mm



**7-420** Wire Bending Cutting  
Pliers  
soft wire 1.5 mm  
hard wire 1.0 mm



**7-422** Wire Cutter  
soft wire 2.0 mm  
hard wire 1.2 mm



# TREU - INSTRUMENTE

## Wire Cutters



**7-430** TC 180 mm  
soft wire 2.0 mm  
hard wire 1.5 mm



**7-432** 180 mm frontal and lateral  
cutting action TC  
soft wire 2.0 mm  
hard wire 1.5 mm



**7-434** Wire Cutter 220 mm TC  
soft wire 3.0 mm  
hard wire 2.5 mm



**7-436** Wire Cutter 220 mm 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



# TREU - INSTRUMENTE

## Diamond Pin Cutter



**7-442** Wire Cutter  
cannulated 180 mm  
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



# TREU - INSTRUMENTE

## Wire Cutters



**7-444** Cutter for cutting of Kirschner wires  
Steinmann Pins up to 6 mm ø hard  
540 mm TC

**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



# TREU - INSTRUMENTE



**7-453**  
Pin Cutter / Side cutter  
max. 4 mm  
38,0 cm



**7-454**  
End Cutter  
end cutting max. 4,8 mm  
38,0 cm



**7-452**  
End Cutter  
end cutting jaws max. 3,2 mm  
26,0 cm



**7-456**  
Double Action Pin Cutter  
cuts plates and wires max. 3.2 mm  
24,0 cm



# TREU - INSTRUMENTE

## Wire Extension



Kirscher, American type

Size	Max. Jaw Opening
7-460 Medium	130 mm
7-462 Large	185 mm
7-464 Extra Large	220 mm



Kirscher

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



Kirscher

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



7-492 Screw Nut Wrench  
14 x 17 mm



# TREU - INSTRUMENTE

## Wire Extension



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



**7-520** Hexagonal Wrench for Tibia Bolt



**7-524** Tibia Bolt  $\varnothing$  2.4 mm, 180 mm length  
**7-526** Tibia Bolt  $\varnothing$  3.2 mm, 180 mm length



**7-530** Charnley-Mueller  
Compression Clamp



# TREU - INSTRUMENTE