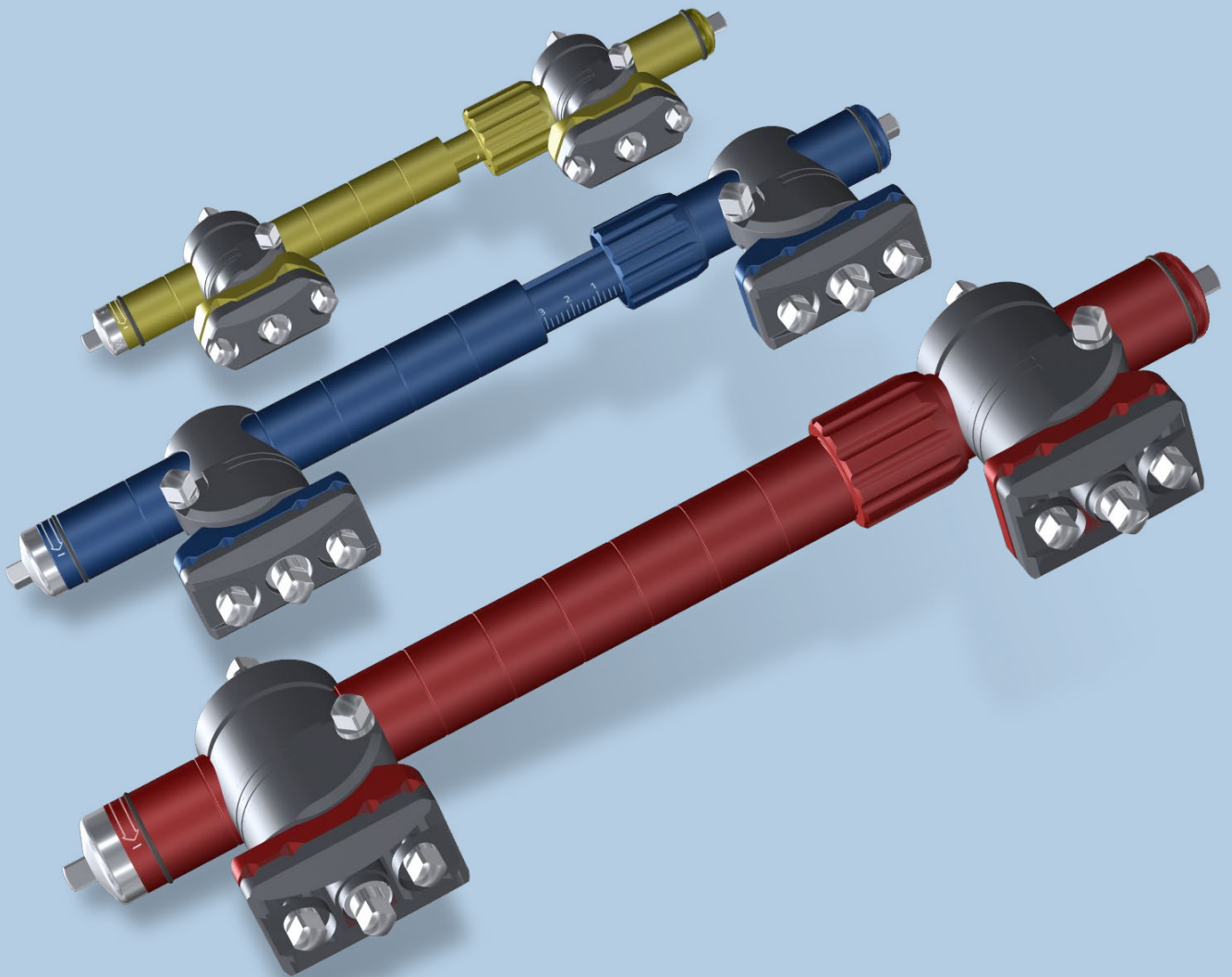


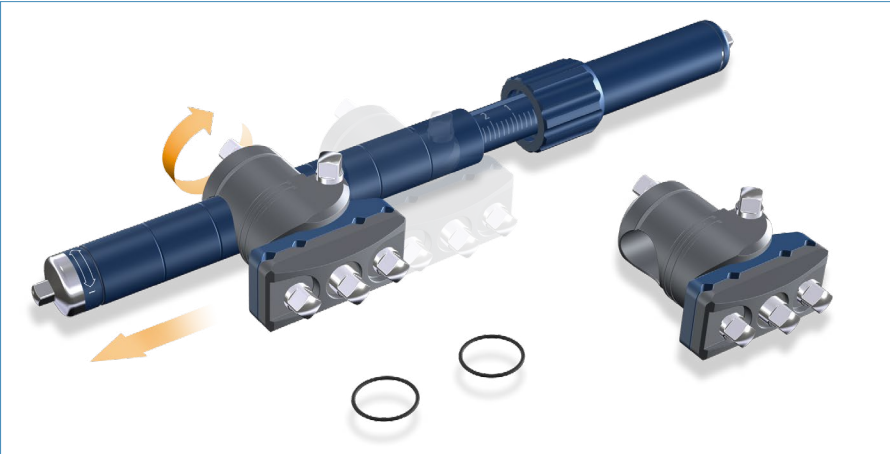
Monotube™ Triax™

Unilateral External Fixation

Assembly & Disassembly
Instruction



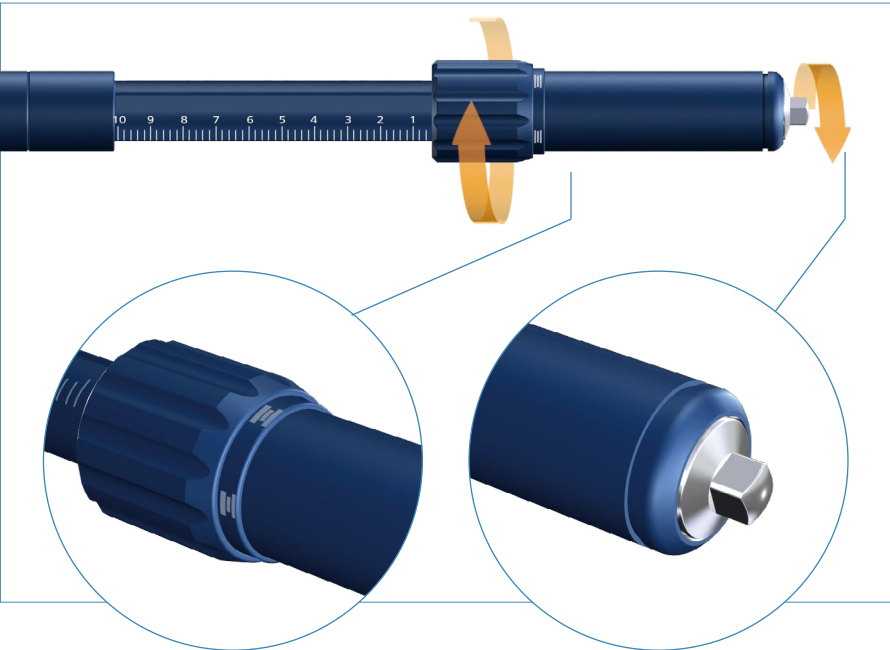
Disassembly Monotube Red, Blue & Yellow



Remove the two O-Rings from each end of the Monotube and slide the two Pin Clamps off. For sliding the Pin Clamps off make sure that the bolts at the tube connector are untightened.



Distract the Monotube completely by turning the Compression/Distraction Knob counter-clockwise.



Open the Dynamization Screw completely by turning it clockwise. The Dynamization Screw is opened completely when the 3mm scale is visible.

Make sure that the Bio-Spring Adjustment Screw is fully released by turning it counter-clockwise.

Note:
The Monotube can not be dismantled any further.

For cleaning and sterilization please refer to the guide lines in the brochure “Instructions for Cleaning and Sterilization” Ref.-No. L24002000.

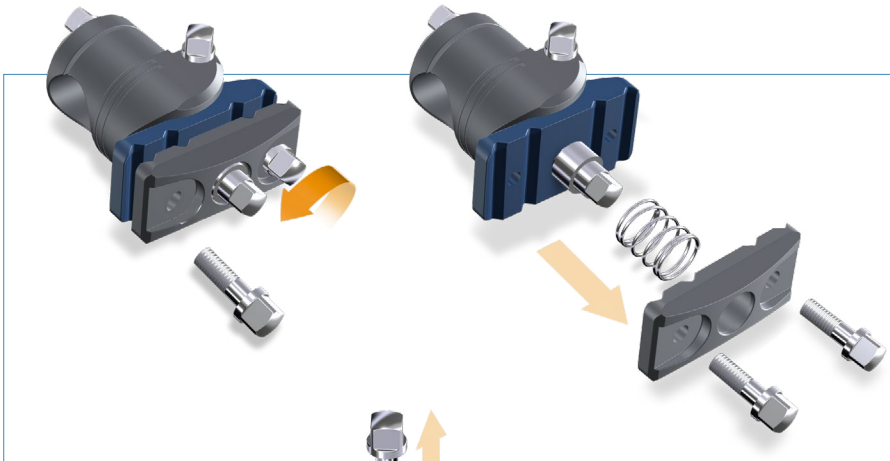
Disassembly Pin Clamp Red, Blue & Yellow

Untighten the middle bolt from the Pin Clamp completely by turning it counter-clockwise.

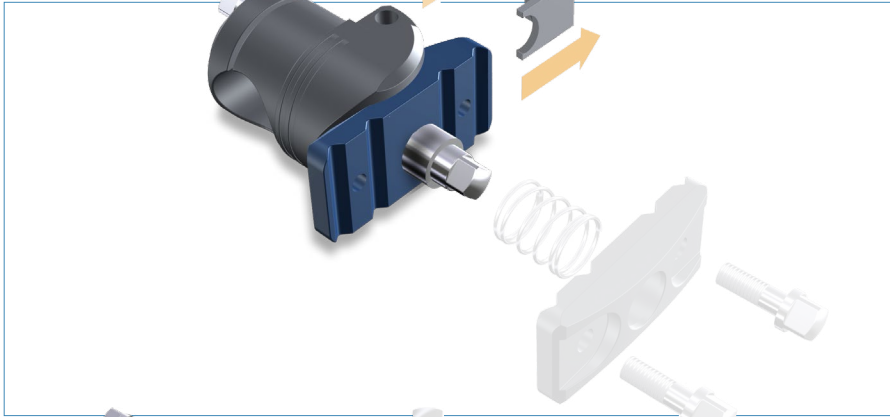
Note:
The middle bolt can not be removed from the Pin Clamp.



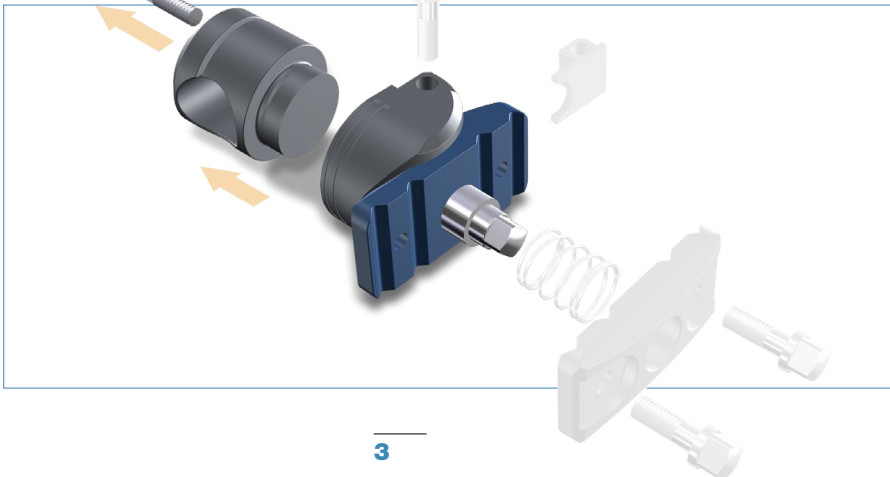
Dismantle the two outer bolts from the Pin Clamp and remove the pin clamp head and the spring.



To disassemble the tube connection from the Pin Clamp, unscrew the pin clamp bolt and remove the pin clamp insert.

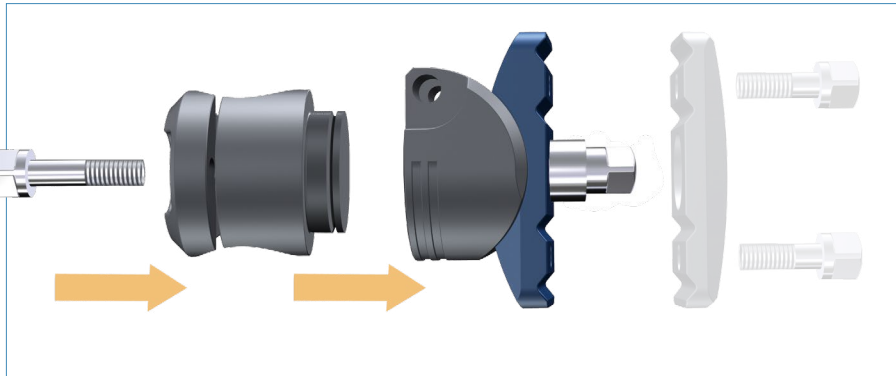


Take the tube connector off the pin clamp socket and remove the bolt from the tube connector.

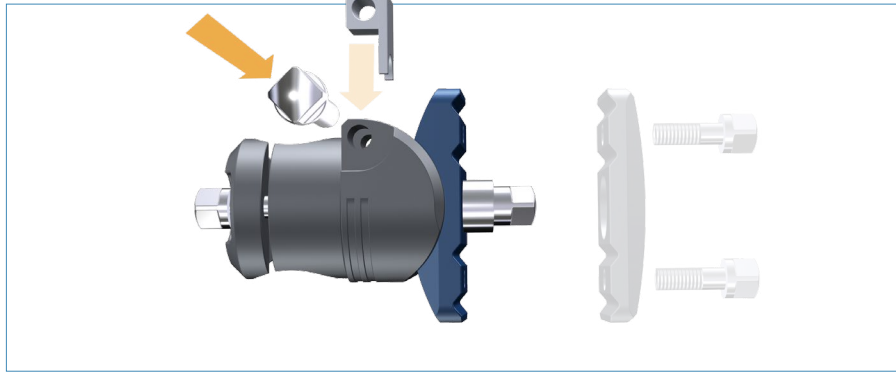


For cleaning and sterilization please refer to the guide lines in the brochure “Instructions for Cleaning and Sterilization” Ref.-No. L24002000.

Assembly Pin Clamp Red, Blue & Yellow

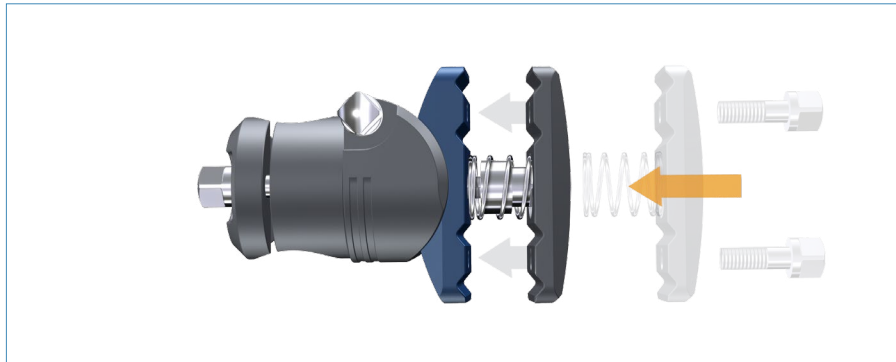


For assembling the Pin Clamp start by inserting the bolt back into the tube connector and place the tube conector fully into the pin clamp socket.



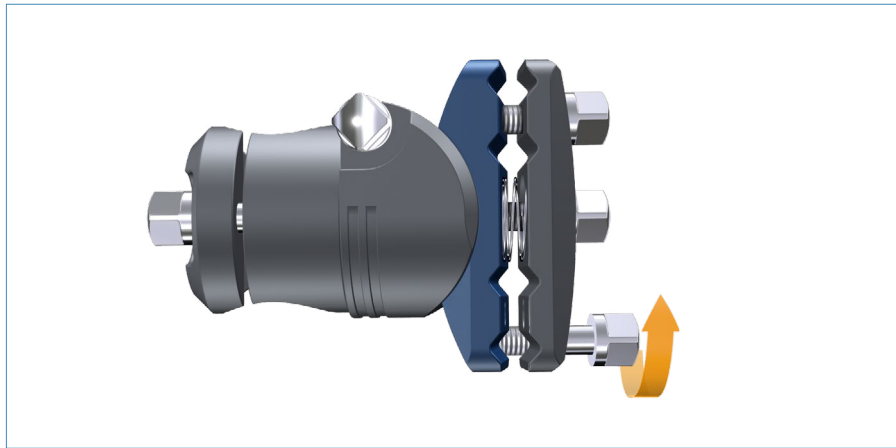
Place the pin clamp insert into the dedicated opening at the pin clamp socket and seat the bolt back into the socket.

Note:
Place the bolt through the threadless side of the opening.



Position the spring over the middle bolt of the Pin Clamp and place the pin head on top. Depress the spring until the pin clamp head has come into contact with the opposite side.

Note:
This construct needs to be held by hand until the two outer bolts are inserted and lightly hand-tightened.



Reassemble the two outer bolts in the Pin Clamp and hand-tighten them.

Assembly T-Adapter/Pin Clamp Red, Blue & Yellow

To create a 90° angle within the Pin Clamp, the T-Adapter can be applied. Therefore the Pin Clamp (5150-3-0..) and the T-Adapter (5150-4-0..) are required.

Remove the bolts and the inserts from the T-Adapter and the Pin Clamp and disassemble the tube connector from the pin clamp socket.

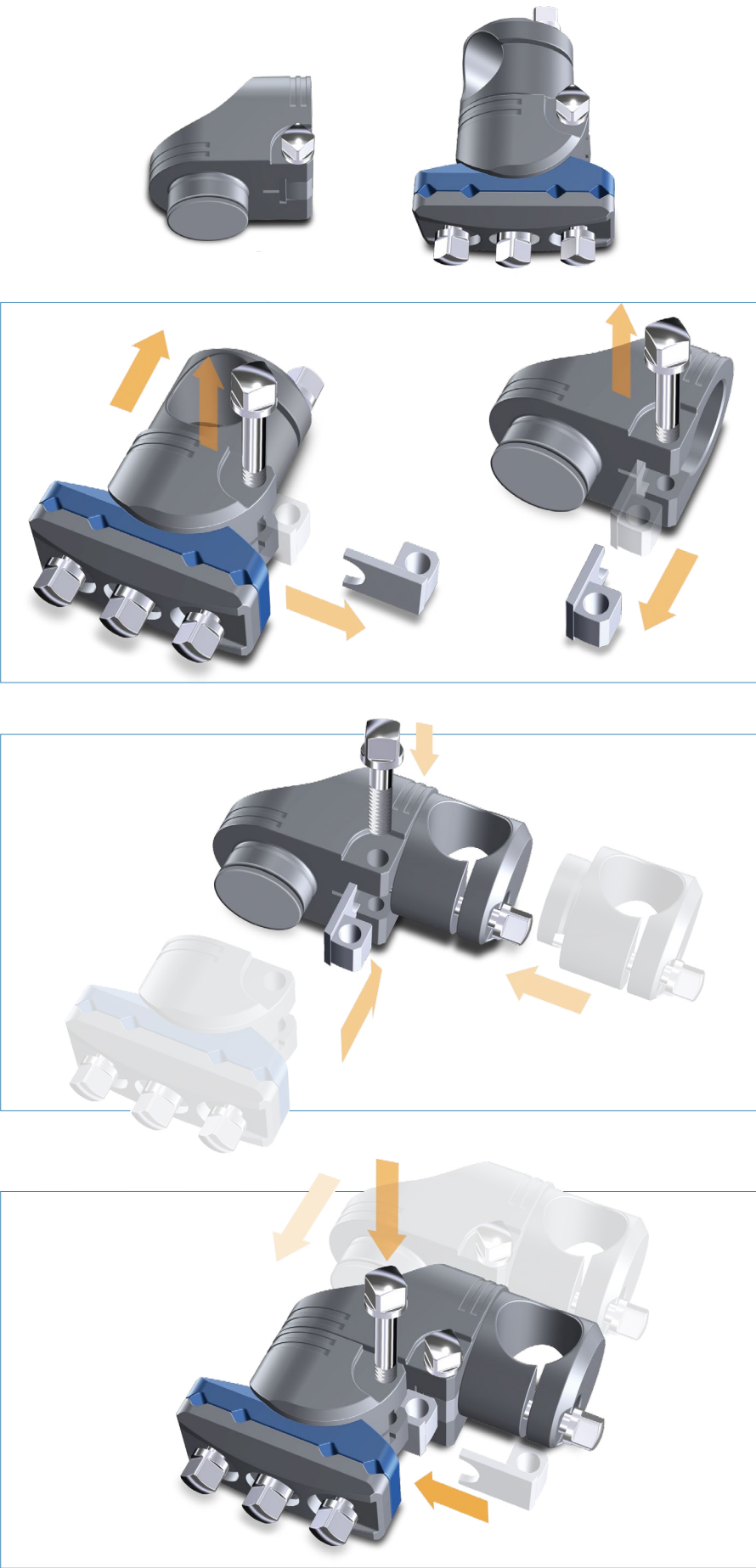
Position the tube connector fully into the open side of the T-Adapter and set the T-Adapter insert back into place. Reinsert and lightly hand-tighten the bolt to secure this construct.

Note:
Place the bolt through the threadless side of the opening.

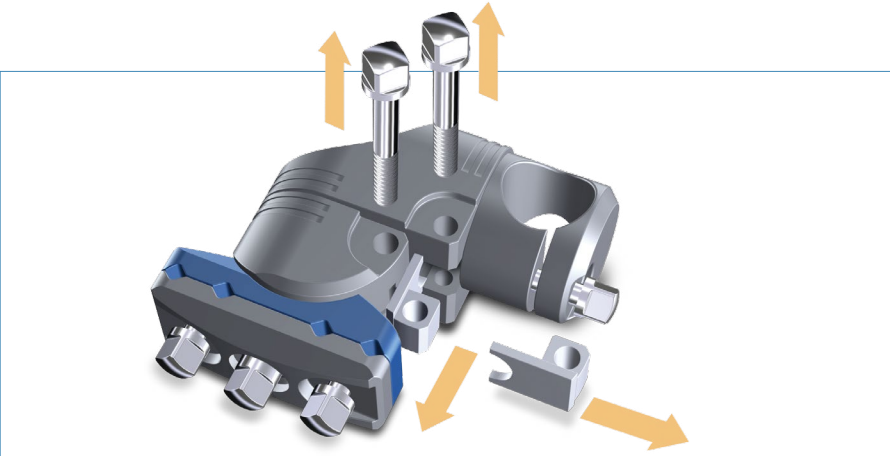
Seat the Tube Connector/T-Adapter construct into the pin clamp socket and position the pin clamp insert back into place. Reinsert and lightly hand-tighten the bolt to secure this construct.

Note:
Place the bolt through the threadless side of the opening.

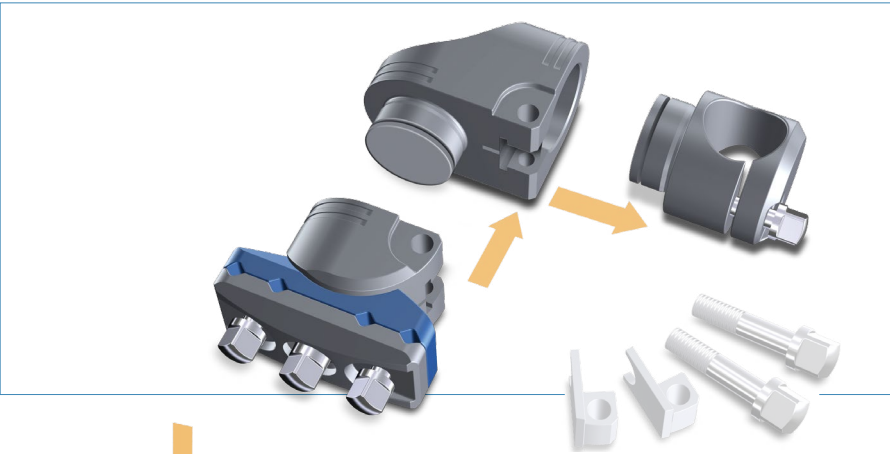
The Pin Clamp can now be used for pin placements with 90° orientation for example at the tibia plateau.



Disassembly T-Adapter/Pin Clamp Red, Blue & Yellow

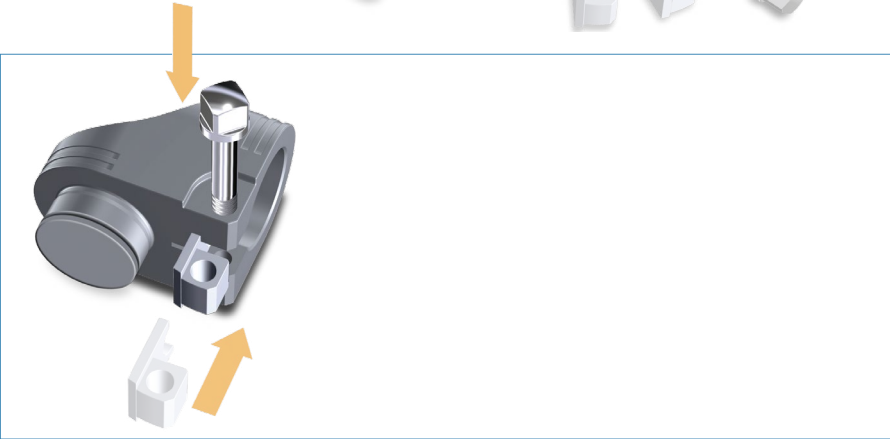


To remove the T-Adapter from the Pin Clamp, dismantle the insert from the Pin Clamp and T-Adapter by releasing the bolts and removing the inserts.



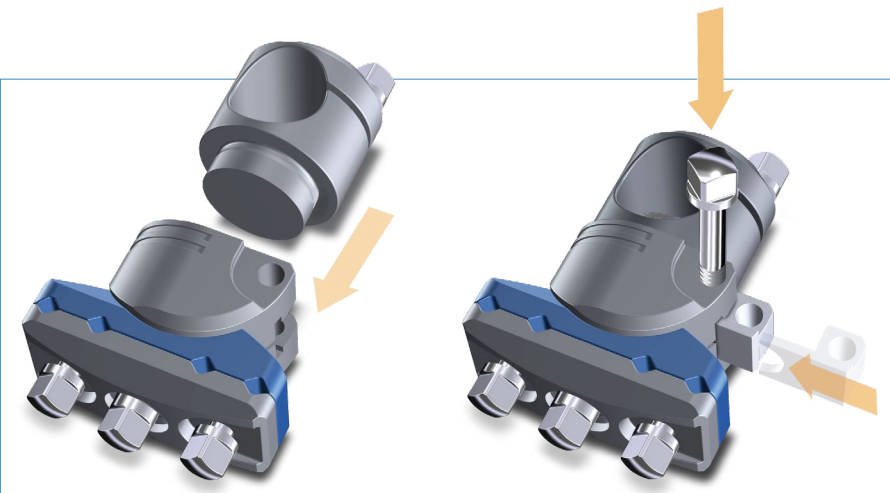
Remove the tube connector from the T-Adapter and the T-Adapter from the pin clamp socket.

For cleaning and sterilization please refer to the guide lines in the brochure “Instructions for Cleaning and Sterilization” Ref.-No. L24002000.



To assemble the T-Adapter, push the insert back into the insert opening and secure it by placing the bolt back into place.

Note:
The insert may completely slide through the opening. Be sure to hold it in position while placing the bolt. Place the bolt through the threadless side of the opening.



To assemble the Pin Clamp, position the tube connector back into the pin clamp socket.

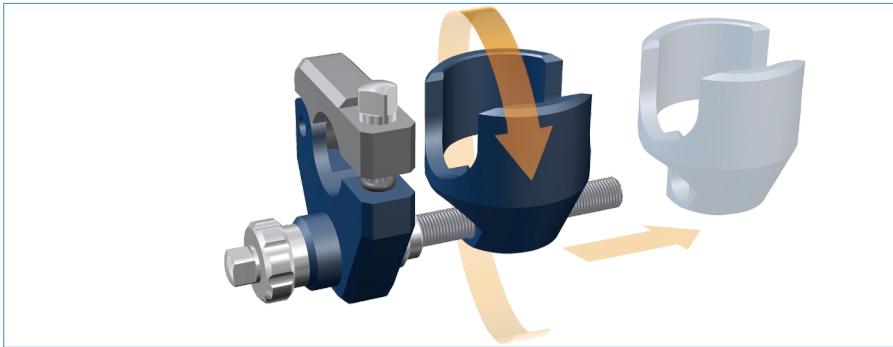
Place the insert into the insert opening and secure it by lightly hand-tighten the bolt.

Note:
Place the bolt through the threadless side of the opening.

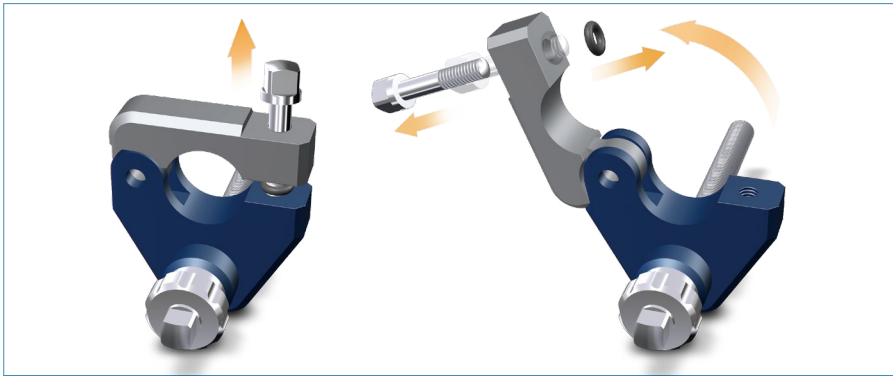
Compression/Distracton Device Red, Blue & Yellow

Disassembly

To disassemble the Compression/ Distracton Device start by turning the body around the threaded rod until it is completely removed.



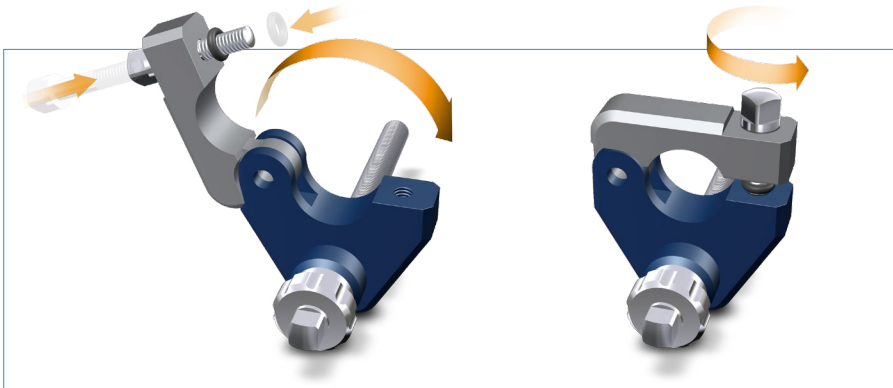
Loosen the bolt from the tube connector until the tube connector opens up. Remove the O-Ring from the bolt, after which the bolt can be disengaged from the tube connector.



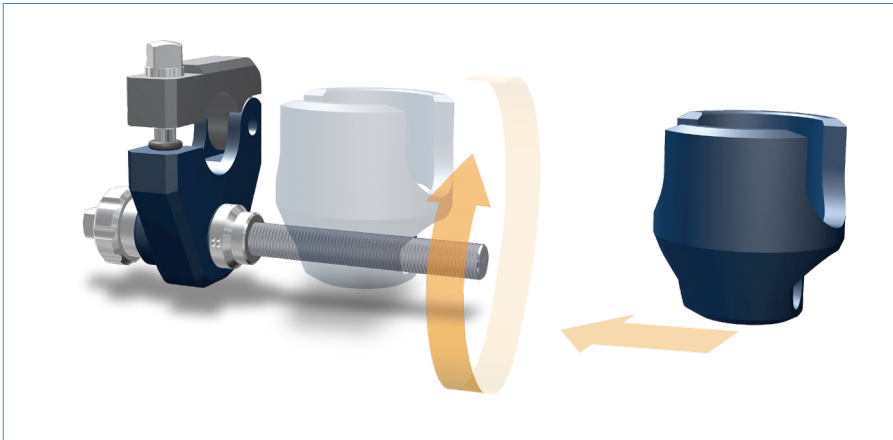
For cleaning and sterilization please refer to the guide lines in the brochure “Instructions for Cleaning and Sterilization” Ref.-No. L24002000.

Assembly

Place the bolt through the tube connector of the Compression/ Distracton Device and position the O-Ring at the end of the bolt. After positioning the O-Ring, the tube connector can be closed by hand-tightening the bolt.

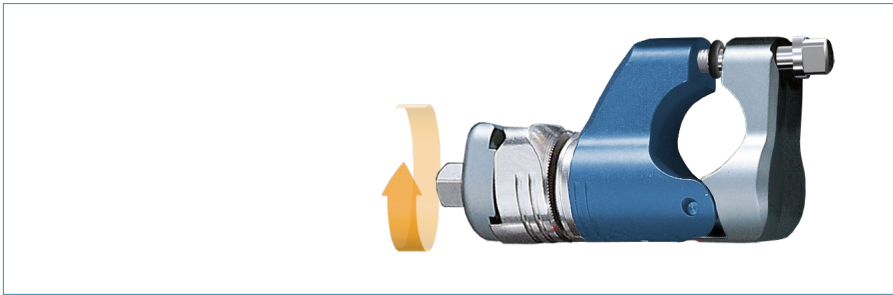


Place the body at the end of the threaded rod and start turning it until the threaded rod is visible at the other end of the body.



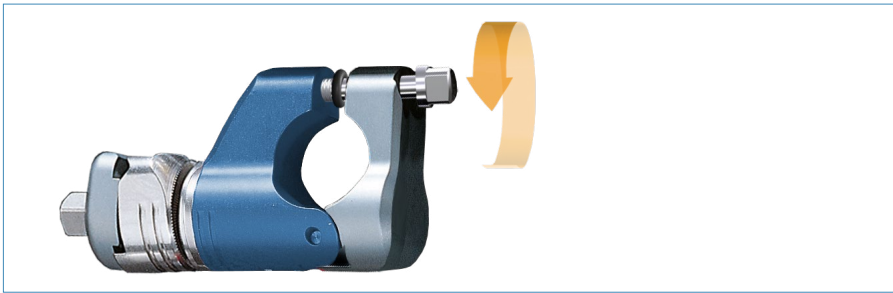
Single Pin Clamp Red, Blue & Yellow

Disassembly



Open the bolt of the pin clamp completely by turning it counter-clockwise.

Note:
This screw can not be removed from the device.



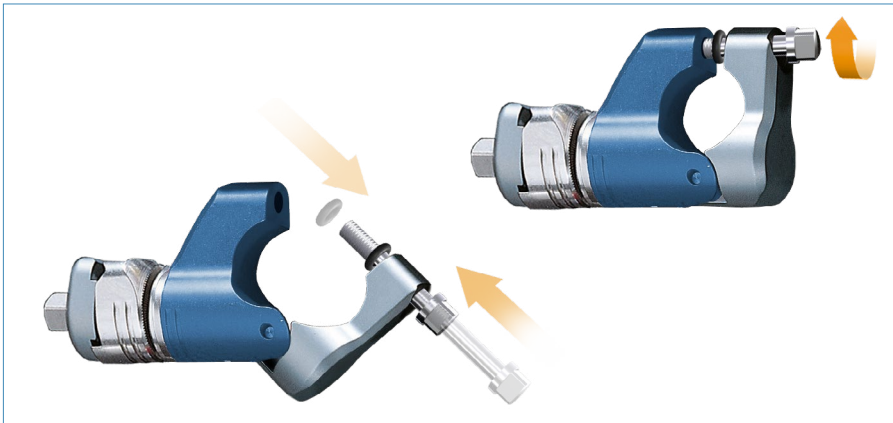
Loosen the bolt of the tube connector until it opens up.



Remove the O-Ring from the bolt, after which the bolt can be removed from the tube connector.

For cleaning and sterilization please refer to the guide lines in the brochure “Instructions for Cleaning and Sterilization” Ref.-No. L24002000.

Assembly



To assemble the Single Pin Clamp place the bolt through the tube connector and seat the O-Ring back on the bolt.

After the O-Ring has been set in place the bolt can be hand-tightened and the tube connector be closed.

Carbon Tubes & Reduction Handle

Disassembly/Assembly Carbon Tubes

For disassembly remove the two end caps on each side by pulling them off.

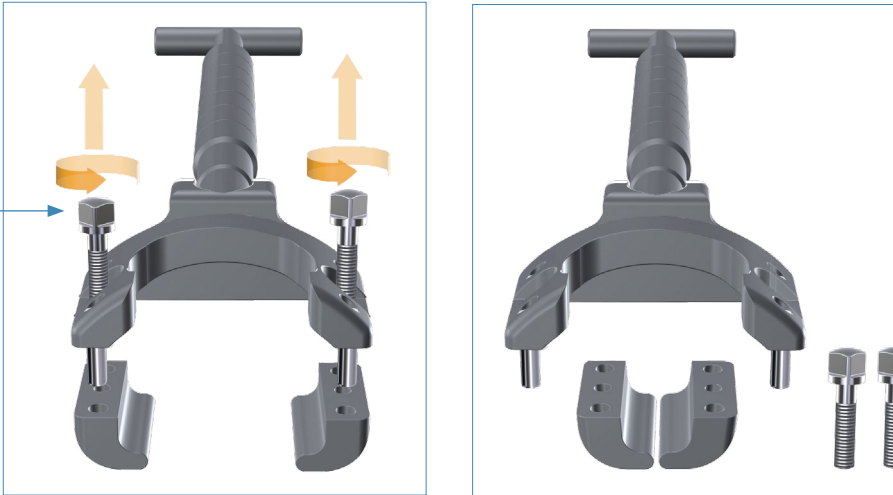
For assembly push the end caps back on at each side.



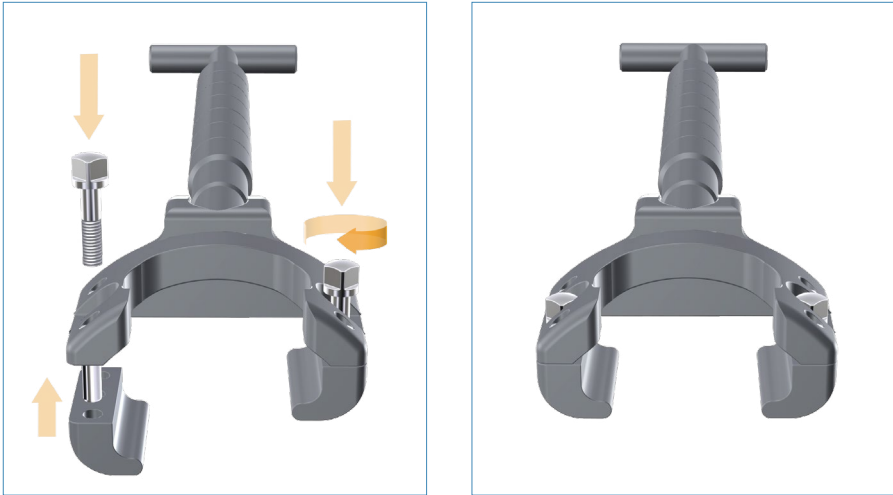
Disassembly/Assembly Reduction Handle

Remove the bolts on both sides of the Reduction Handle by releasing them.















After removing the bolts the clamp fixation blocks on the opposite side are effectively disassembled.













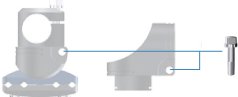


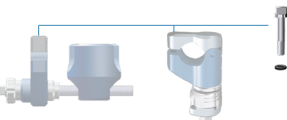











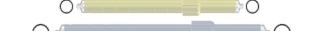









For assembly place the clamp fixation blocks with the lip oriented towards the inside of the Reduction Handle over the pins and hand-tighten the bolts from the opposite side.



Ordering Information – Implants

REF	Description
	5150-0-065 Dynamic Tube Assembly Yellow (15mm)
	5150-0-070 Dynamic Tube Assembly Blue (20mm)
	5150-0-075 Dynamic Tube Assembly Red (25mm)
	5150-0-465 Dynamic Tube Yellow (15mm)
	5150-0-470 Dynamic Tube Blue (20mm)
	5150-0-475 Dynamic Tube Red (25mm)
	5150-3-065 Pin Clamp Yellow (15mm)
	5150-3-070 Pin Clamp Blue (20mm)
	5150-3-075 Pin Clamp Red (25mm)
	5150-3-165 Single Pin Clamp Yellow (15mm)
	5150-3-170 Single Pin Clamp Blue (20mm)
	5150-3-175 Single Pin Clamp Red (25mm)
	5150-4-065 T-Adapter Yellow (15mm)
	5150-4-070 T-Adapter Blue (20mm)
	5150-4-075 T-Adapter Red (25mm)
	5150-3-415 Tube to Tube Clamp Yellow (15mm)
	5150-3-420 Tube to Tube Clamp Blue/Blue (20mm)
	5150-3-425 Tube to Tube Clamp Red/Red (25mm)
	5150-3-435 Tube to Tube Clamp Yellow (15mm)/Blue (20mm)
	5150-3-445 Tube to Tube Clamp Blue (20mm)/Red (25mm)
	5150-2-371 Carbon Tube Yellow 15/150mm
	5150-2-381 Carbon Tube Yellow 15/200mm
	5150-2-391 Carbon Tube Yellow 15/250mm
	5150-2-396 Carbon Tube Yellow 15/300mm
	5150-2-431 Carbon Tube Blue 20/200mm
	5150-2-421 Carbon Tube Blue 20/250mm
	5150-2-411 Carbon Tube Blue 20/300mm
	5150-2-401 Carbon Tube Blue 20/350mm
	5150-2-451 Carbon Tube Red 25/200mm
	5150-2-461 Carbon Tube Red 25/250mm
	5150-2-471 Carbon Tube Red 25/300mm
	5150-2-481 Carbon Tube Red 25/350mm
	5150-9-465 Compression Distraction Device Yellow (15mm)
	5150-9-470 Compression Distraction Device Blue (20mm)
	5150-9-475 Compression Distraction Device Red (25mm)

Ordering Information – Instruments/Spareparts

REF	Description
Instruments	
	5150-9-265 Long Handle Wrench Yellow
	5150-9-270 Long Handle Wrench Blue
	5150-9-275 Long Handle Wrench Red
	5150-9-115 Dynamization Wrench Yellow
	5150-9-120 Dynamization Wrench Blue
	5150-9-125 Dynamization Wrench Red
	5150-9-585 Reduction Handle Blue/Red Clamps
	5154-8-009 7mm Spanner Wrench
	5150-9-916 Storage and Sterilisation Case – Monotube Triax Yellow
	5150-9-946 Storage and Sterilisation Case – Monotube Triax Red/Blue
Spareparts	
	5150-7-110 Pin Clamp & T-Adapter Screw Yellow (15mm)
	5150-7-140 Pin Clamp & T-Adapter Screw Blue (20mm)
	5150-7-170 Pin Clamp & T-Adapter Screw Red (25mm)
	5150-7-120 Single Pin Clamp Screw & Compression / Distraction Device Screw Yellow (15mm)
	5150-7-150 Single Pin Clamp Screw & Compression / Distraction Device Screw Blue (20mm)
	5150-7-180 Single Pin Clamp Screw & Compression / Distraction Device Screw Red (25mm)
	5150-7-125 Single Pin Clamp & Compression /Distraction Device O-Ring Yellow (15mm)
	5150-7-155 Single Pin Clamp & Compression /Distraction Device O-Ring Blue (20mm)
	5150-7-185 Single Pin Clamp & Compression /Distraction Device O-Ring Red (25mm)
	5150-2-615 Carbon Tube End Cap Assembly Yellow (15mm)
	5150-2-620 Carbon Tube End Cap Assembly Blue (20mm)
	5150-2-625 Carbon Tube End Cap Assembly Red (25mm)
	5150-7-615 O-Ring for Carbon Tube End Cap Yellow (15mm)
	5150-7-620 O-Ring for Carbon Tube End Cap Blue (20mm)
	5150-7-625 O-Ring for Carbon Tube End Cap Red (25mm)
	5150-7-020 Dynamic Tube O-Ring Yellow (15mm)
	5150-7-025 Dynamic Tube O-Ring Blue (20mm)
	5150-7-030 Dynamic Tube O-Ring Red (25mm)
	5150-7-105 Pin Clamp Insert Yellow (15mm)
	5150-7-135 Pin Clamp Insert Blue (20mm)
	5150-7-165 Pin Clamp Insert Red (25mm)
	5150-7-115 Pin Clamp Screw Yellow (15mm)
	5150-7-145 Pin Clamp Screw Blue (20mm)
	5150-7-145 Pin Clamp Screw Red (25mm)
	5150-7-175 Pin Clamp Screw Red (25mm)

