



Surgical Technique

Pelvic Reconstructive & Acetabular Surgery.

about us

Auxin Medical is an integrated, research based, orthopaedic Implants & instruments manufacturing company, producing a wide range of quality, affordable generic implants, trusted by healthcare professionals and patients across geographies. It is the Company's constant endeavor to provide a wide basket of generic and our innovator products that exceed the highest expectations of customers in term of quality and safety. The company has world-class manufacturing unit established in india and serves customers in over 75 countries worldwide.

Our Achievements



Guidelines

This publication sets forth detailed recommended procedures for using Auxein Medical devices and instruments.

It offers guidance that needs to be heeded. However, with any such technical guide, each surgeon must consider the unique needs of each patient and make appropriate adjustments when and as required.

A workshop training under DAIS Academy by Auxein will provide assistance prior to first surgery. It is vital to know that all non-sterile devices must be cleaned and sterilized before use.

Moreover, multi-component instruments must be disassembled for cleaning. The surgeon must discuss all relevant risks, including the finite lifetime of the device, with the patient, when necessary.

Please NOTE that all the bone screws referenced in this document here are not approved for screw attachment or fixation in the areas not mentioned in this publication.

Warning:

This description is not sufficient for immediate application of the instrumentation. Instruction by a surgeon experienced in handling this instrumentation is highly recommended.



Intended Use, Indications and Contraindications

Intended Use

Pelvic implants are intended for temporary fixation, correction or stabilization of bones in the pelvis.

Indications

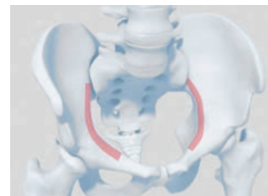
Symphysis fractures

- Pubic Symphysis Plates
- 3.5mm Pelvic Reconstruction Plate, Straight



Pelvic brim fractures

- 3.5mm Pelvic Reconstruction Plate, Straight
- 3.5mm Reconstruction Pelvis Plate, Curved
- 3.5mm Intrapelvic Plate
- 3.5mm Anterior Brim Plate
- 3.5mm Interlocking Reconstruction Plate



Ilium/Iliac wing fractures

- 3.5mm Pelvic Reconstruction Plate, Straight
- 3.5mm Superior Sacro-iliac Plate
- 3.5mm Reconstruction Pelvis Plate, Curved
- 3.5mm Quadrilateral Surface Plate



Acetabulum fractures

- 3.5mm Pelvic Reconstruction Plate, Straight
- 3.5mm Reconstruction Pelvis Plate, Curved
- 3.5mm Posterior Wall Acetabular Plate
- 3.5mm Acetabular Spring Plate



Contraindications: No specific contraindications.

1. Contour plate

Instruments

1550-032 Plate Bending Forcep

For plate contouring, place a plate between the ledge and the groove of the bending pliers. Place the concave surface on the side of pliers with the ledge. Squeeze the handles gradually and bend the plate as appropriate.

For in-plane bending, place a plate into the groove of the bending pliers. Squeeze the handles gradually and bend the plate as appropriate.

Precautions:

- Instruments and screws may have sharp edges or moving joints that may pinch or tear user's glove or skin.
- Handle devices with care and dispose worn bone cutting instruments in an approved sharps container.



2. Twist plate

Instruments

1550-032 Plate Bending Forcep

1550-031 Bender Pair

Hold the plate using the plier grips and twist the plate by using an additional bending iron.

Precaution: Reverse bending or use of the incorrect instrumentation for bending may weaken the plate and lead to premature plate failure (e.g. breakage). Do not bend the plate beyond what is required to match the anatomy. For reconstruction plates with coaxial combi-holes: use threaded pin to avoid screw hole deformation during bending.



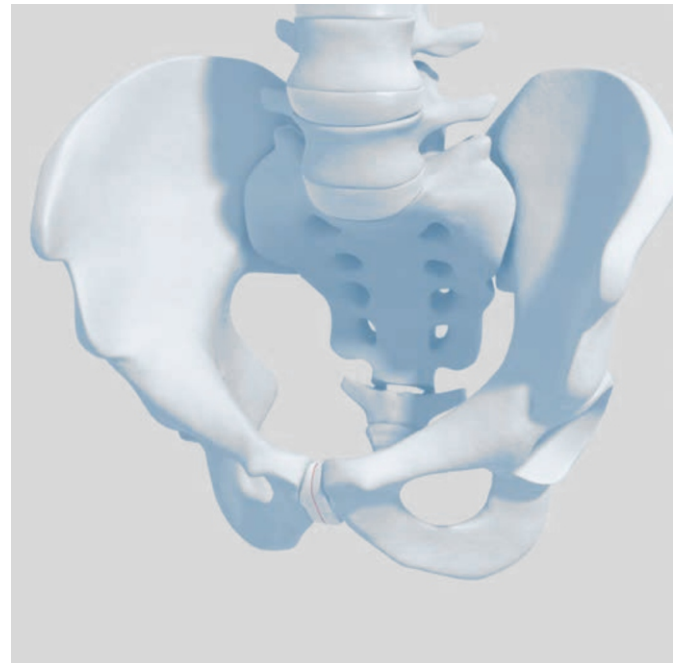
Fracture Fixation

Note: The following cases of fracture fixation represent possible uses of pelvic instruments. Several applications are shown but other applications are possible.

A. Pubic Symphysis Fractures

1. Approach

Use an anterior approach (e.g. Pfannenstiel or Stoppa).



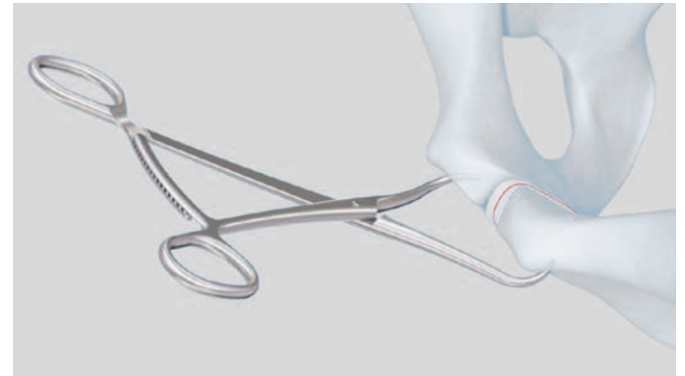
2. Reduce fracture

Instruments

1550-013 Reduction Forceps, with Sharp Points,

1550-004 Bone Holding Forceps Small

1550-005 Bone Holding Forceps Large



Achieve reduction of the pubic symphysis by using the large reduction forceps with points.

Alternatively, achieve reduction by inserting two screws anteriorly and using pelvic reduction forceps

Fracture Fixation

3. Fix plate

Instruments

1550-038 T-Handle with Quick Coupling for Pelvic Reconstruction



1550-037 Screwdriver Shaft with Quick Coupling, Hex 3.5mm



1550-019 Drill Bit Quick Coupling, Ø2.5mm x Length 230mm



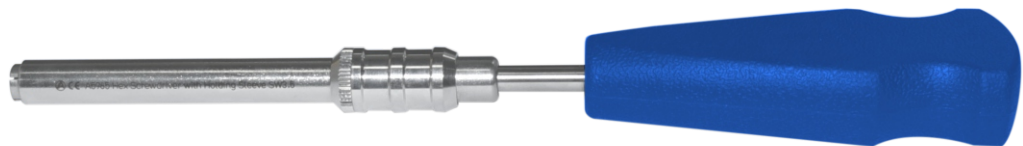
1550-026 Tap with Quick Coupling, Ø3.5mm



1550-023 Double Drill Guide Ø2.5/3.5mm



1550-040 Hexagonal Screwdriver with Holding Sleeve, Hex 3.5mm



1550-034 Screwdriver Shaft with Quick Coupling, Hex 2.5mm



1550-025 Depth Gauge upto 60mm



Place the Pubic Symphysis plate over the symphysis joint and make a temporary fixation (e.g. with plate holding forceps).

According to preoperative planning and plate selection, use 3.5mm Low Profile Cortical Screw to fix the plate. If compression is needed between the symphysis joint, use the plate with DCU holes.

Insert the first cortical screw in the lateral part of DCU hole (eccentric). Insert the second cortical screw eccentrically into the DCU hole of the contralateral side of the pubic symphysis.

Test fit the Plate .Make any final adjustments to the plate contour using the Large Plate Bender.

Caution: If bending the plate, please observe the following:
Place bends in plate sections which do not have holes
Use several small bends to achieve a smooth overall bend
Do not bend, unbend, and re-bend more than once.

Drilling

With reduction confirmed, drill using the 2.5 mm Qu and Offset Drill Guide through one of the dynamic compression slots on the plate. Using the Depth Gauge determine the proper screw length and insert the proper length 3.5 mm Cortical Screw.

Screw Insertion

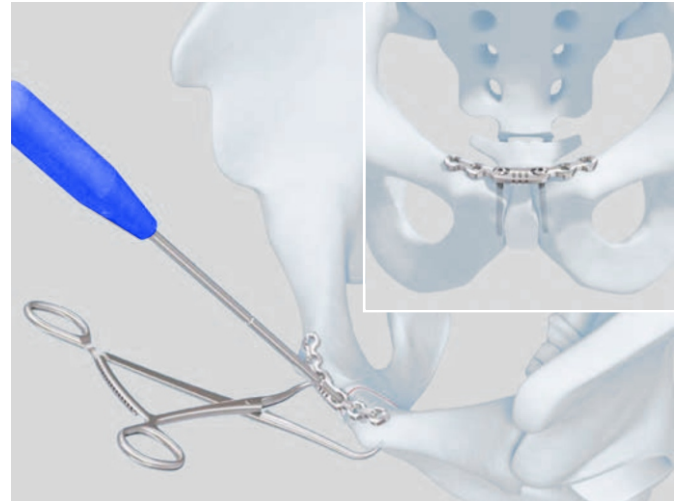
Drill through the opposing dynamic compression slot using the 2.5 mm Quick Release Drill and Offset Drill Guide. Using the Depth Gauge, determine the proper screw length and insert the proper length 3.5 mm Cortical Screw.

Fully seat this screw in the plate to begin compressing the pubic symphysis.

By hand, fully seat the screw you partially tightened in Step 4.

This will apply additional compression across the pubic symphysis.

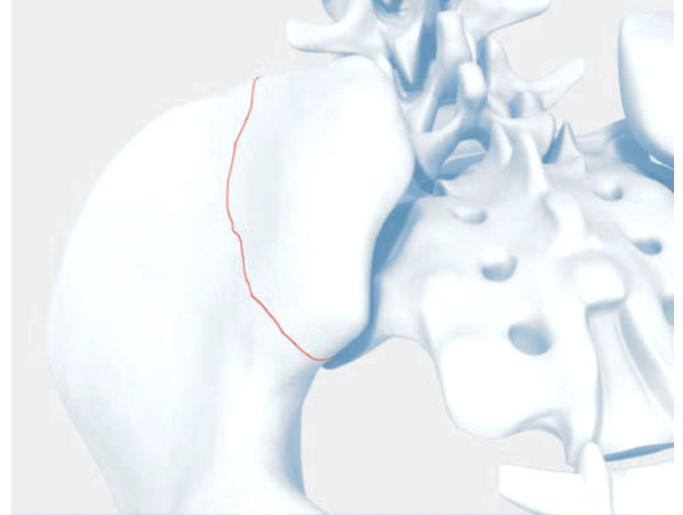
Caution: Driving the screws into the plate under power could cause the screw heads to go through the plate. To avoid this, tighten screws into the plate by hand.



B. Iliac Fractures

1. Approach

Use an anterior or posterior approach appropriate for the fracture pattern. The following example of an iliac fracture shows a possible fracture treatment using a posterior (Kocher – Langenbeck) approach.



2. Reduce fracture

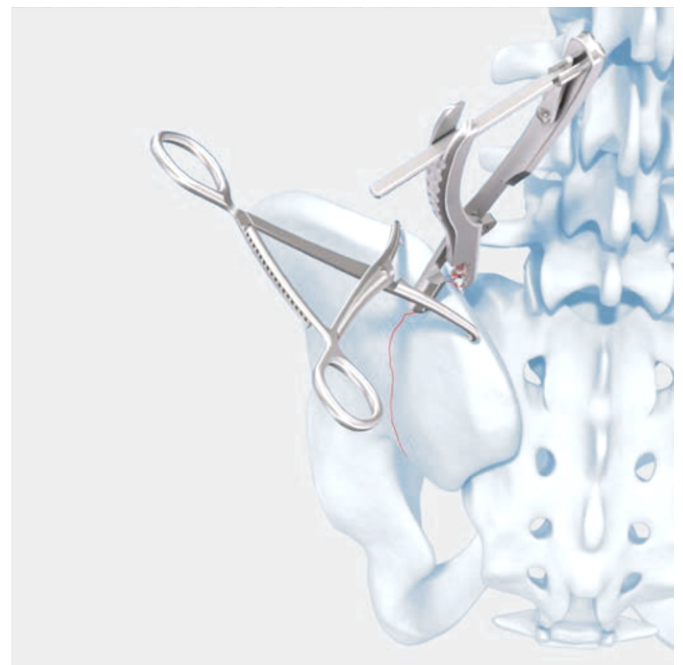
Instruments

1550-004 Bone Holding Forcep, Small

1550-013 Reduction Forcep with Sharp Point

Confirm anatomical reduction of the anterior aspect of the iliac wing by finger palpation.

To reduce the iliac bone, use reduction forceps on the iliac crest and the posterior iliac wing.

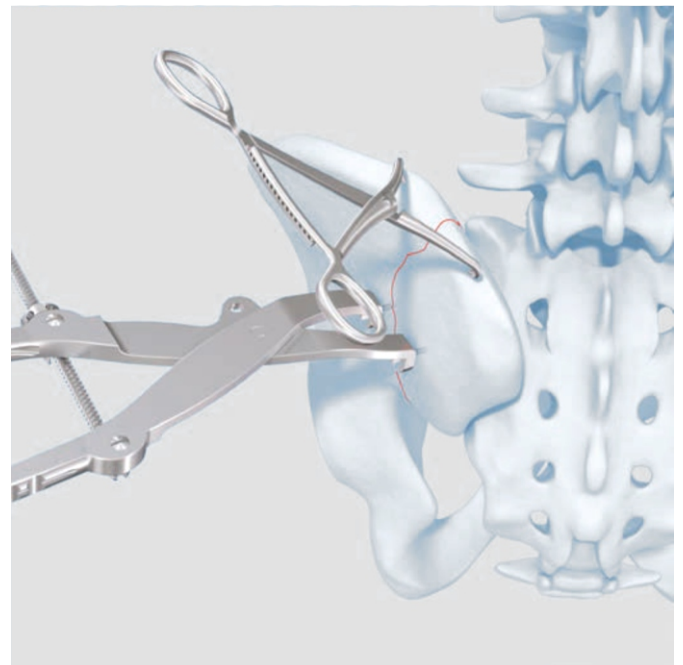
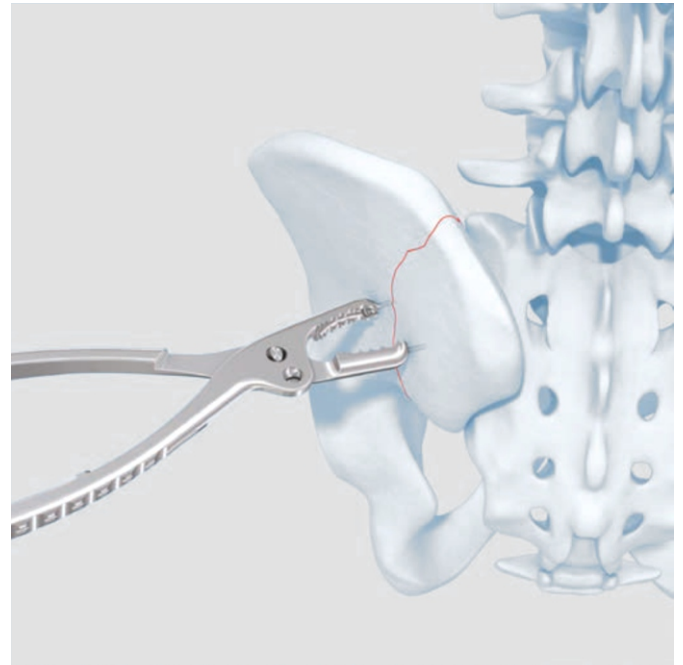


Alternative technique

Instruments

- 1550-026** Tap with Quick Coupling, Ø3.5mm
- 1550-034** Screwdriver Shaft with Quick Coupling, Hex 2.5mm
- 1550-019** Drill Bit Quick Coupling, Ø2.5mm x Length 230mm
- 1550-025** Depth Gauge upto 60mm
- 1550-013** Reduction Forceps, with Sharp Points,
- 1550-004** Bone Holding Forceps Small
- 1550-005** Bone Holding Forceps Large

Alternatively, insert two temporary cortical screws on either side of the fracture line and gain compression using Bone reduction forceps small & large



3. Fix plate on posterior inferior ilium

Instruments

1550-038	T-Handle with Quick Coupling for Pelvic Reconstruction
1550-037	Screwdriver Shaft with Quick Coupling, Hex 3.5mm
1550-019	Drill Bit Quick Coupling, Ø2.5mm x Length 230mm
1550-026	Tap with Quick Coupling, Ø3.5mm
1550-023	Double Drill Guide Ø2.5/3.5mm
1550-040	Hexagonal Screwdrive with Holding Sleeve, Hex 3.5mm
1550-034	Screwdriver Shaft with Quick Coupling, Hex 2.5mm
1550-025	Depth Gauge upto 60mm
1550-013	Reduction Forceps, with Sharp Points,

Insert a screw through the 4-hole low profile pelvic reconstruction plate into the body of the ilium, close to the sciatic notch.

Precaution: Check appropriate length and position of screw under image intensifier control.

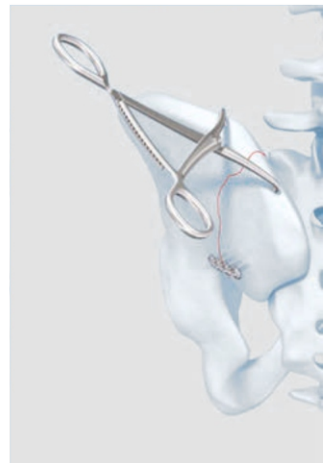
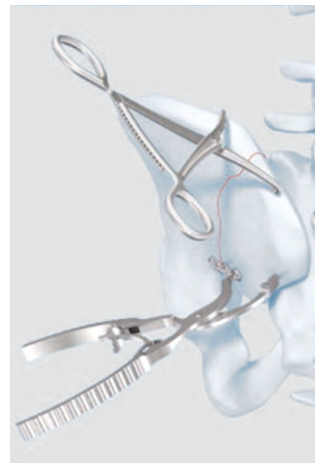
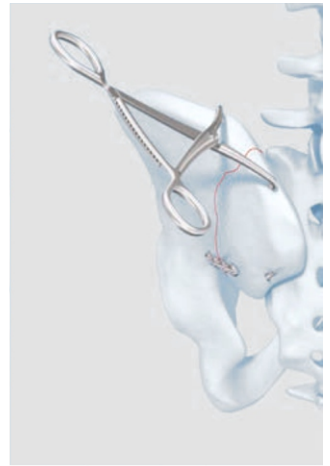
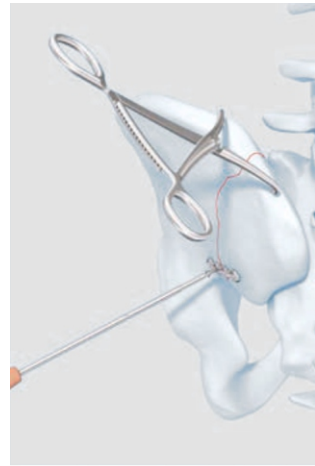
To reduce the posterior iliac fragment, insert a temporary screw into the posterior superior iliac spine.

Compress the fracture using the bone holding forceps. The forceps is therefore hooked into the most posterior plate hole and the temporary screw on the other side of the fracture line is used as a counter bearing.

After additional screw fixation through the plate, remove the temporary screw.

Precaution: During fixation close to the greater sciatic notch, control drill bit penetration and screw lengths with two-finger palpation to prevent damage to the nerve or vessels.

NOTE: Repeat the Fixation steps Mentioned on Page No. 6



4. Fix plate on iliac crest

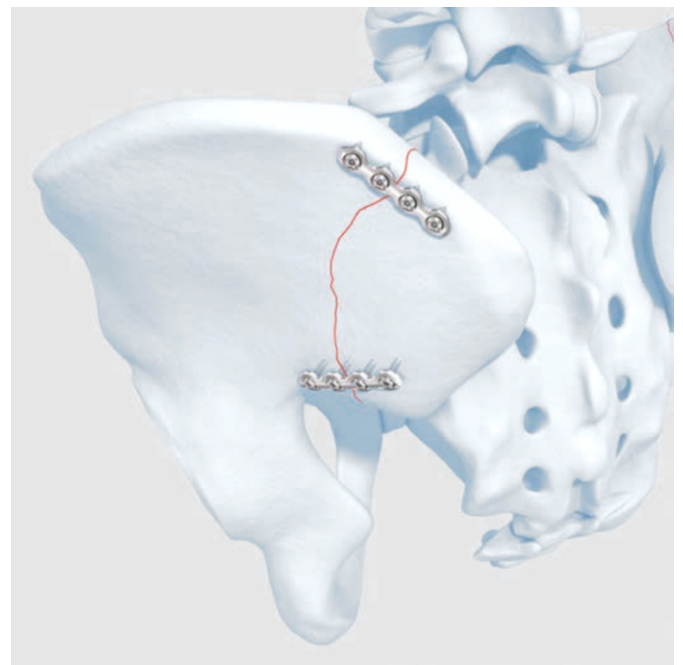
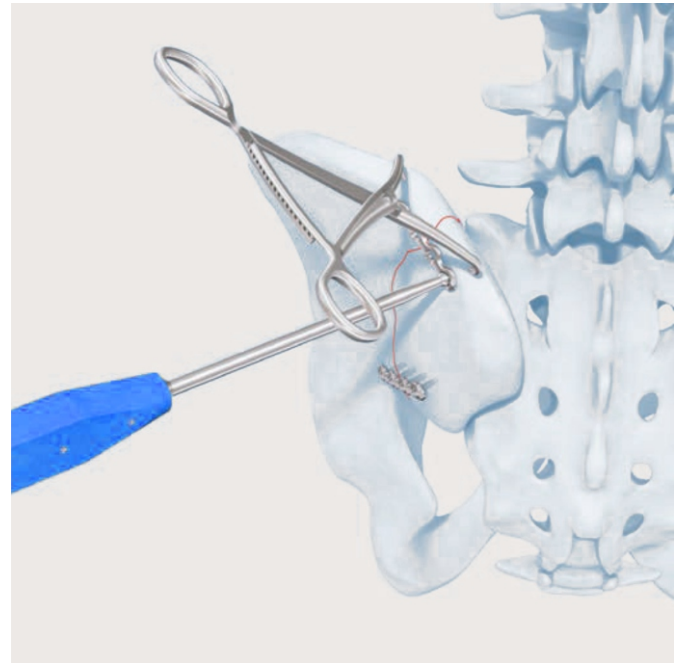
Instrument

1550-038	T-Handle with Quick Coupling for Pelvic Reconstruction
1550-037	Screwdriver Shaft with Quick Coupling, Hex 3.5mm
1550-019	Drill Bit Quick Coupling, Ø2.5mm x Length 230mm
1550-026	Tap with Quick Coupling, Ø3.5mm
1550-023	Double Drill Guide Ø2.5/3.5mm
1550-040	Hexagonal Screwdrive with Holding Sleeve, Hex 3.5mm
1550-034	Screwdriver Shaft with Quick Coupling, Hex 2.5mm
1550-025	Depth Gauge upto 60mm
7-032-33	Depth Gauge upto 150mm
1550-013	Reduction Forceps, with Sharp Points,
1550-012	Ejector Bar

Place a low profile pelvic reconstruction plate posterior to the iliac crest, and fix it with 3.5 mm cortical screws.

The ball spike with pointed ball tip may also be used to achieve reduction.

Precaution: Check appropriate length and position of screw under image intensifier control.

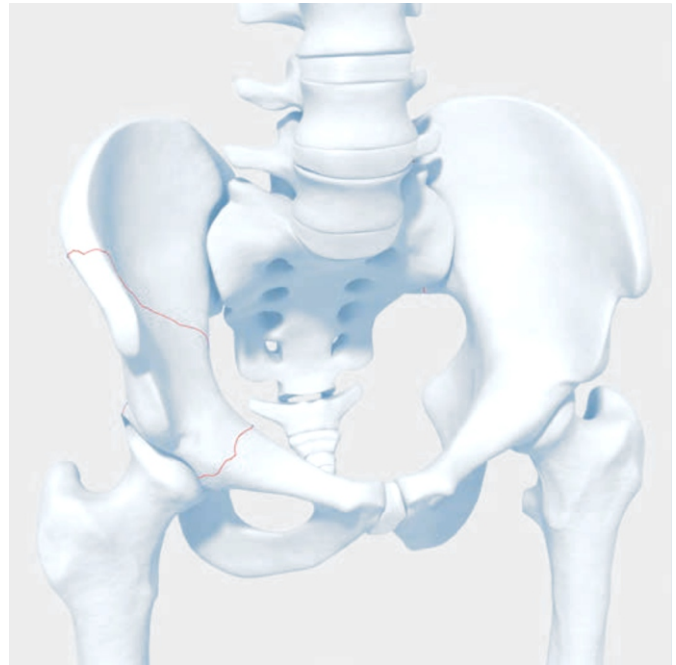


NOTE: Repeat the Fixation steps Mentioned on Page No. 6

C. Acetabulum Two Column Fractures

1. Approach

Use an ilioinguinal approach.



2. Reduce fracture in iliac crest

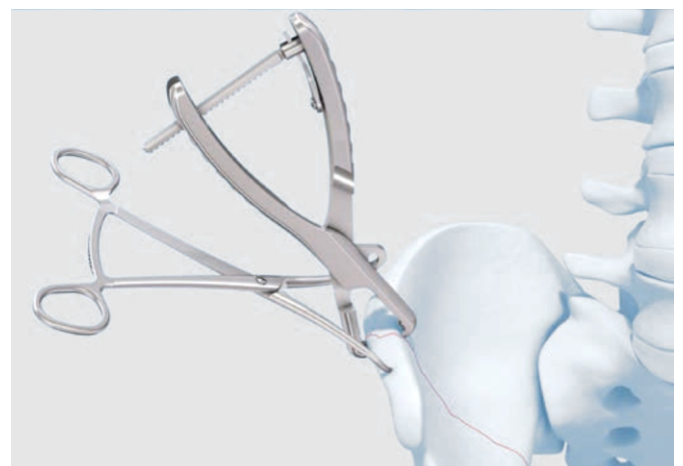
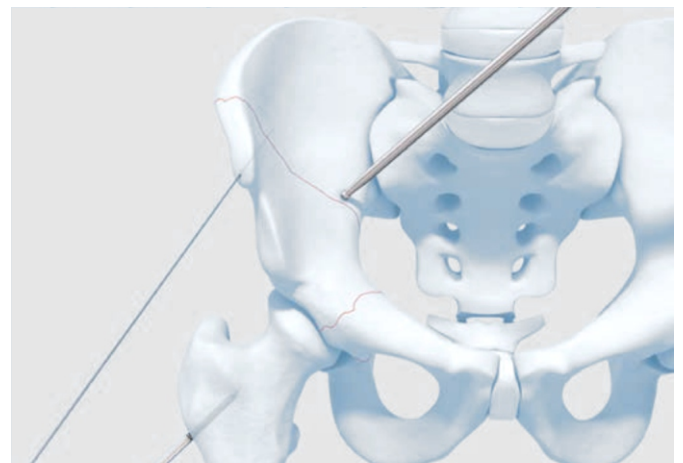
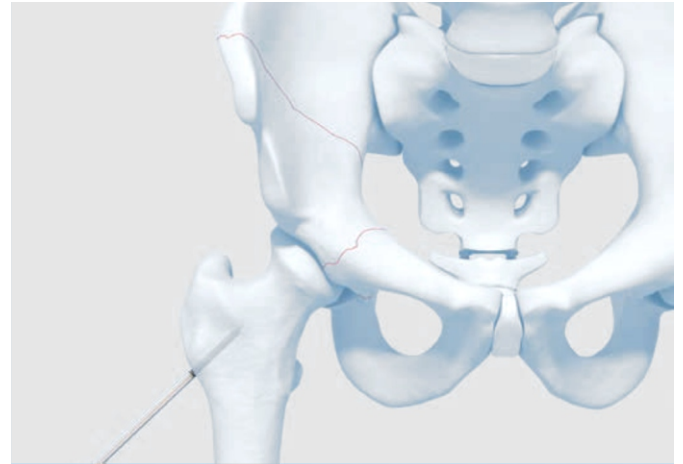
Instruments

- 1550-004** Bone Holding Forcep, Small
- 1550-013** Reduction Forcep with Sharp Point
- 1550-012** Ejector Bar
- 7-032-20** Fixation Pin for Pelvic Plate
- 7-032-19** Kirschner Wire

Insert a Fixation Pin into the proximal femur to allow intraoperative manual traction.

Confirm anatomic reduction of the different fracture fragments. Fragments may be temporarily fixated with Kirschner wires.

Different reduction instruments (e.g. ball spike, reduction forceps) may aid in achieving appropriate reduction.



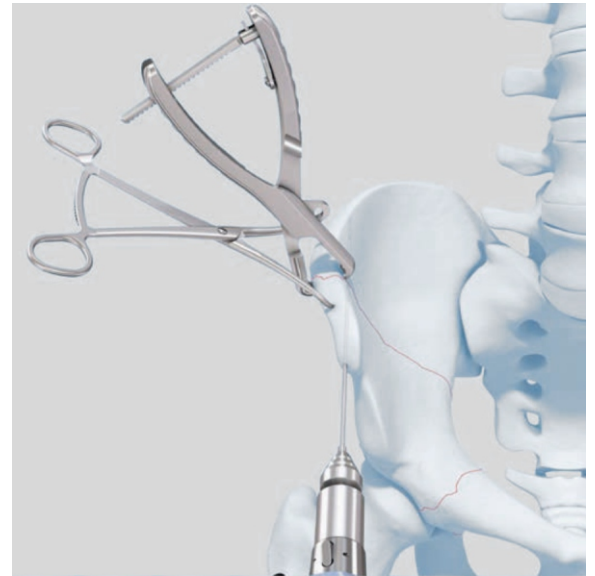
3. Insert screw in iliac crest

Instruments

1550-038	T-Handle with Quick Coupling for Pelvic Reconstruction
1550-037	Screwdriver Shaft with Quick Coupling, Hex 3.5mm
1550-019	Drill Bit Quick Coupling, Ø2.5mm x Length 230mm
1550-026	Tap with Quick Coupling, Ø3.5mm
1550-023	Double Drill Guide Ø2.5/3.5mm
1550-040	Hexagonal Screwdriver with Holding Sleeve, Hex 3.5mm
1550-034	Screwdriver Shaft with Quick Coupling, Hex 2.5mm
1550-025	Depth Gauge upto 60mm
1550-013	Reduction Forceps, with Sharp Points,
1550-004	Bone Holding forcep Small

Use the pelvic reduction forceps and/or the large reduction forceps with points to maintain reduction.

Precaution: Use oscillating mode while drilling to avoid soft tissue damage and penetration of the anterior or posterior iliac cortical.



4. Insert screw in body of ilium

Instrument

1550-003 Reduction Forceps, Finger Ring side, Straight

Alternative Instrumens

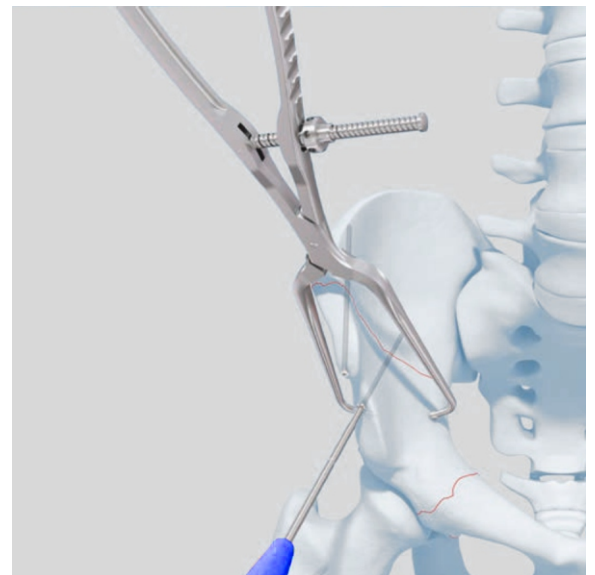
1550-001 Curved Reduction Forceps, Finger Ring side, Long

1550-010 Double Jaws Reduction Forcep

Insert a second lag screw into the body of the ilium perpendicular to the fracture line.

Precaution: Check appropriate length and position of screw under image intensifier control.

Use the pelvic reduction forceps to maintain reduction.

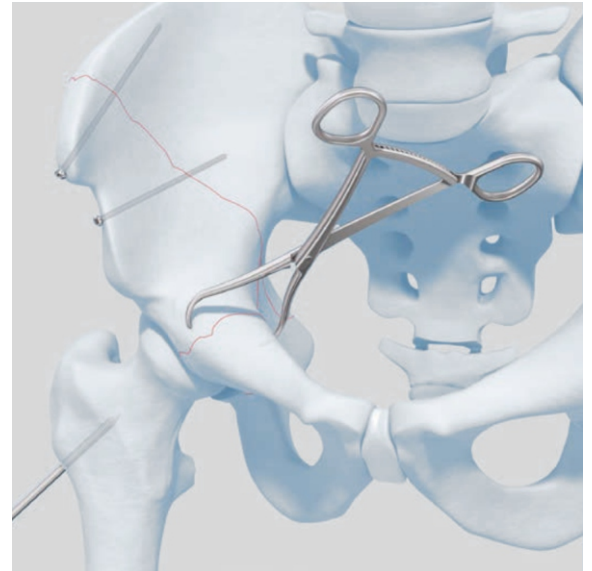


5. Reduce posterior column

Instrument

1550-013 Reduction Forceps, with Sharp Points,

Use the reduction forceps with points to reduce the fragment of the quadrilateral surface. The forceps bridge from the pelvic brim to the quadrilateral surface.



Alternative technique

Instruments

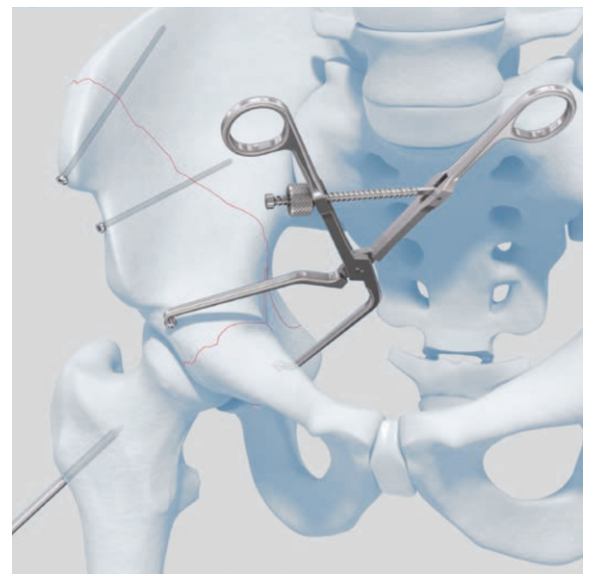
1550-013 Reduction Forceps, with Sharp Points,

1550-001 Curved Reduction Forcep finger ring side, Long

1550-007 / 1550-009 Movable Clamp Head (Arc) /
Movable Clamp Head (flat)

Alternatively the pelvic reduction forceps with pointed ball tips (straight or angled) can be used to reduce the fracture.

If necessary, spiked discs can be used with all pelvic reduction forceps with ball tips.



6. Fix plate on pelvic brim

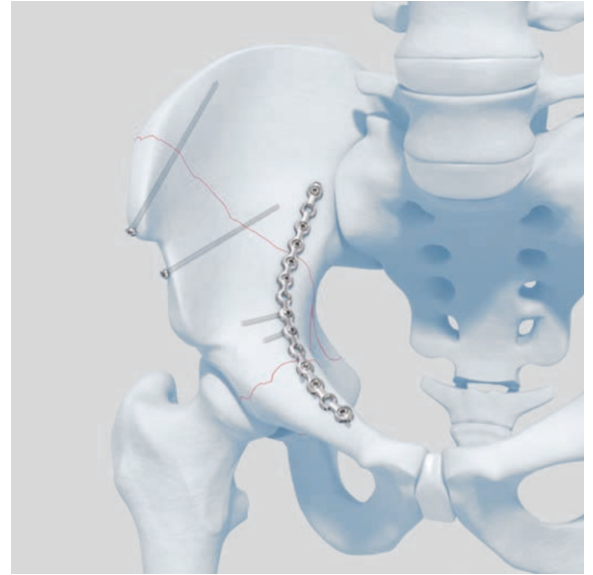
Instrument

1550-038	T-Handle with Quick Coupling for Pelvic Reconstruction
1550-037	Screwdriver Shaft with Quick Coupling, Hex 3.5mm
1550-019	Drill Bit Quick Coupling, Ø2.5mm x Length 230mm
1550-026	Tap with Quick Coupling, Ø3.5mm
1550-023	Double Drill Guide Ø2.5/3.5mm
1550-040	Hexagonal Screwdrive with Holding Sleeve, Hex 3.5mm
1550-034	Screwdriver Shaft with Quick Coupling, Hex 2.5mm
1550-025	Depth Gauge upto 60mm
7-032-33	Depth Gauge upto 150mm
1550-013	Reduction Forceps, with Sharp Points,
1550-004	Bone Holding forcep Small
1550-012	Ejector Bar

7. Fix plate on pubic rami

Insert additional screws through the plate into the pubic rami to maintain reduction and stable fixation of the anterior column.

Precaution: Check appropriate length and position of screw under image intensifier control.



NOTE: Repeat the Fixation steps Mentioned on Page No. 6

Implant Removal

Unlock all screws from the plate, then remove the screws completely from the bone. This prevents simultaneous rotation of the plate when unlocking the last locking screw.



Pelvic Plating System

Pelvic Plating System is a comprehensive set of plates, screws, and instrumentation for the treatment of pelvic ring and acetabular fractures. Designed to treat a wide variety of challenging pelvic fractures, the plates of the Pelvic Plating System are strategically precontoured where it may save time for the surgeon, and left noncontoured in some sections to allow for buttressing of fractures. Indication-specific plates are offered, as well as reconstruction-style plates to address a variety of fracture patterns. Enhancements to traditional pelvic instrumentation are designed to simplify surgical techniques.

Indications for Use:

- Fractures, fusions, and osteotomies of the acetabulum
- Fractures, fusions, and osteotomies of the sacrum
- Fractures, fusions, and osteotomies of the ilium
- Fractures, fusions, and osteotomies of the pelvic ring
- Sacroiliac joint dislocations
- Pubic symphysis disruptions



Golden for Right Direction



Blue for Left Direction

3.5mm Pubic Symphysis Plate



Holes	Titanium	Stainless Steel
4	13-005-04TI	13-005-04SS
6	13-005-06TI	13-005-06SS

3.5mm Posterior Wall Acetabular Fragment Plate



Holes	Titanium	Stainless Steel	Direction
9	13-006-09LTI	13-006-09LSS	Left
9	13-006-09RTI	13-006-09RSS	Right

3.5mm Curved Posterior Wall Acetabular Fragment Plate



Holes	Titanium	Stainless Steel	Direction
11	13-007-011LTI	13-007-011LSS	Left
11	13-007-011RTI	13-007-011RSS	Right

3.5mm Superior Sacro-iliac Plate



Holes	Titanium	Stainless Steel
4	13-008-04TI	13-008-04SS

3.5mm Posterior Wall Acetabular Plate



Holes	Titanium	Stainless Steel
8	13-009-08TI	13-009-08SS

3.5mm Acetabular Spring Plate



Holes	Titanium	Stainless Steel
2	13-010-02TI	13-010-02SS
3	13-010-03TI	13-010-03SS

3.5mm Reconstruction Pelvic Plate

Holes	Titanium	Stainless Steel
3	13-011-03TI	13-011-03SS
4	13-011-04TI	13-011-04SS
6	13-011-06TI	13-011-06SS
8	13-011-08TI	13-011-08SS
10	13-011-10TI	13-011-10SS
12	13-011-12TI	13-011-12SS
14	13-011-14TI	13-011-14SS
16	13-011-16TI	13-011-16SS



3.5mm Interlocking Reconstruction Plate

Holes	Titanium	Stainless Steel
11	13-012-11TI	13-012-11SS



3.5mm Quadrilateral Surface Plate

Holes	Titanium	Stainless Steel	Direction
2	13-013-02LTI	13-013-02LSS	Left
2	13-013-02RTI	13-013-02RSS	Right



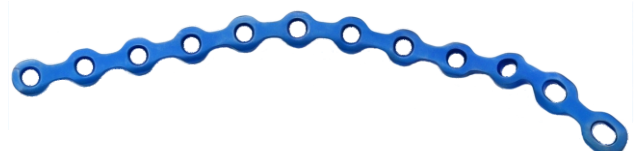
3.5mm Intrapelvic Plate

Holes	Titanium	Stainless Steel	Direction
5	13-014-05LTI	13-014-05LSS	Left
5	13-014-05RTI	13-014-05RSS	Right
9	13-014-09LTI	13-014-09LSS	Left
9	13-014-09RTI	13-014-09RSS	Right



3.5mm Anterior Brim Plate

Holes	Titanium	Stainless Steel	Direction
12	13-015-12LTI	13-015-12LSS	Left
12	13-015-12RTI	13-015-12RSS	Right
14	13-015-14LTI	13-015-14LSS	Left
14	13-015-14RTI	13-015-14RSS	Right



3.5mm Low Profile Cortical Screw, (Hex Head)

Length	Titanium	Stainless Steel
10mm	13-017-010TI	13-017-010SS
12mm	13-017-012TI	13-017-012SS
14mm	13-017-014TI	13-017-014SS
16mm	13-017-016TI	13-017-016SS
18mm	13-017-018TI	13-017-018SS
20mm	13-017-020TI	13-017-020SS
22mm	13-017-022TI	13-017-022SS
24mm	13-017-024TI	13-017-024SS
26mm	13-017-026TI	13-017-026SS
28mm	13-017-028TI	13-017-028SS
30mm	13-017-030TI	13-017-030SS
32mm	13-017-032TI	13-017-032SS
34mm	13-017-034TI	13-017-034SS
36mm	13-017-036TI	13-017-036SS
38mm	13-017-038TI	13-017-038SS
40mm	13-017-040TI	13-017-040SS
45mm	13-017-045TI	13-017-045SS
50mm	13-017-050TI	13-017-050SS
55mm	13-017-055TI	13-017-055SS
60mm	13-017-060TI	13-017-060SS
65mm	13-017-065TI	13-017-065SS
70mm	13-017-070TI	13-017-070SS
75mm	13-017-075TI	13-017-075SS
80mm	13-017-080TI	13-017-080SS
85mm	13-017-085TI	13-017-085SS
90mm	13-017-090TI	13-017-090SS
95mm	13-017-095TI	13-017-095SS
100mm	13-017-100TI	13-017-100SS
105mm	13-017-105TI	13-017-105SS
110mm	13-017-110TI	13-017-110SS
115mm	13-017-115TI	13-017-115SS
120mm	13-017-120TI	13-017-120SS
125mm	13-017-125TI	13-017-125SS
130mm	13-017-130TI	13-017-130SS
135mm	13-017-135TI	13-017-135SS
140mm	13-017-140TI	13-017-140SS
145mm	13-017-145TI	13-017-145SS
150mm	13-017-150TI	13-017-150SS



4.0mm Low Profile Cancellous Screw, (Hex Head)

Length	Titanium	Stainless Steel
50mm	13-018-50TI	13-018-50SS
55mm	13-018-55TI	13-018-55SS
60mm	13-018-60TI	13-018-60SS
65mm	13-018-65TI	13-018-65SS
70mm	13-018-70TI	13-018-70SS
75mm	13-018-75TI	13-018-75SS
80mm	13-018-80TI	13-018-80SS
85mm	13-018-85TI	13-018-85SS
90mm	13-018-90TI	13-018-90SS
95mm	13-018-95TI	13-018-95SS
100mm	13-018-100TI	13-018-100SS
105mm	13-018-105TI	13-018-105SS
110mm	13-018-110TI	13-018-110SS
115mm	13-018-115TI	13-018-115SS
120mm	13-018-120TI	13-018-120SS
125mm	13-018-125TI	13-018-125SS
130mm	13-018-130TI	13-018-130SS
135mm	13-018-135TI	13-018-135SS
140mm	13-018-140TI	13-018-140SS
145mm	13-018-145TI	13-018-145SS
150mm	13-018-150TI	13-018-150SS



1550-001 Curved Reduction Forcep, Finger Ring Side, Long



1550-002 Curved Reduction Forcep, Finger Ring Side, Short



1550-003 Reduction Forcep, Finger Ring Side, Straight



1550-004 Bone Holding Forcep, Small



1550-005 Bone Holding Forcep, Large



1550-006 Three Jaws Reduction Forcep



1550-007 Movable Clamp Head (ARC)



1550-008 High and Low Jaw Reduction Forcep



1550-009 Movable Clamp Head (Flat)



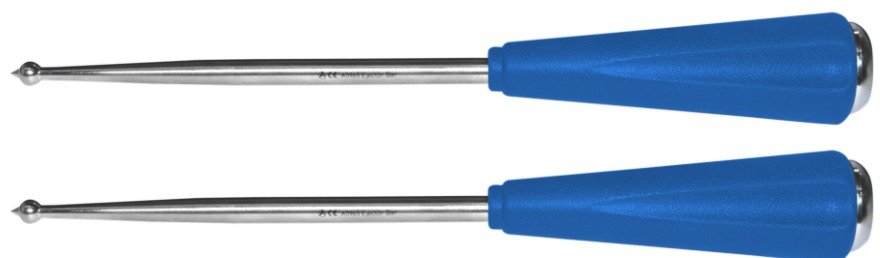
1550-010 Double Jaws Reduction Forcep

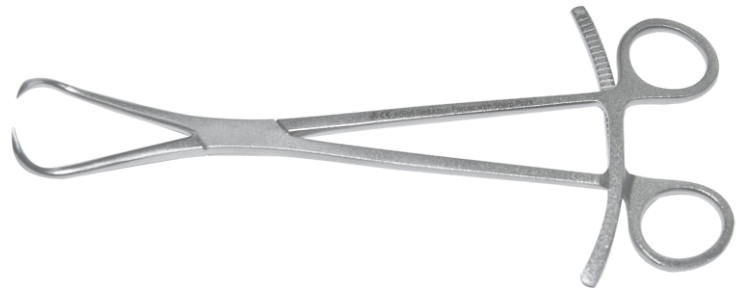


1550-011 Acetabular Reduction Forcep



1550-012 Ejector bar



1550-013 Reduction Forcep with Sharp Point**1550-014** Sciatic Nerve Retractor**1550-015** Retractor**1550-016** Retractor with T Handle**1550-017** Ø2.5mm Flexible Drill with Quick Coupling**1550-018** Drill Guide Ø2.5mm

1550-019 Drill Bit Quick Coupling, Ø2.5mm x Length 230mm



1550-020 Drill Bit Quick Coupling, Ø3.5mm x Length 195mm



1550-021 Drill Bit Quick Coupling, Ø3.2mm x Length 230mm



1550-022 Drill Bit Quick Coupling, Ø4.5mm x Length 195mm



1550-023 Double Drill Guide Ø2.5/3.5mm



1550-024 Double Drill Guide Ø3.2/4.5mm



1550-025 Depth Gauge upto 60mm



1550-026 Tap with Quick Coupling, Ø3.5mm



1550-027 Tap with Quick Coupling, Ø4.0mm



1550-028 Tap with Quick Coupling, Ø4.5mm



1550-029 Bending Template, Short



1550-030 Bending Template, Long

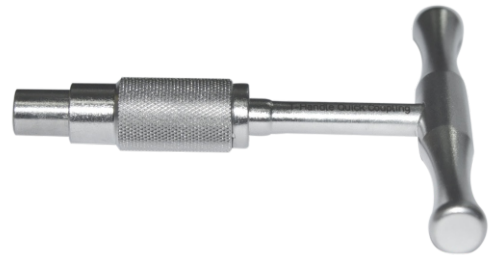


1550-031 Bender Pair**1550-032** Plate Bending Forcep**1550-033** Screw Holding Forcep (Long)**1550-034** Screwdriver Shaft with Quick Coupling, Hex 2.5mm**1550-035** Hexagonal Screwdriver with Holding Sleeve, Hex 2.5mm**1550-036** Universal Screwdriver, Hex 2.5mm

1550-037 Screwdriver Shaft with Quick Coupling, Hex 3.5mm



1550-038 T-Handle with Quick Coupling for Pelvic Reconstruction



1550-040 Hexagonal Screwdriver with Holding Sleeve, Hex 3.5mm



1550-041 Universal Screwdriver, Hex 3.5mm

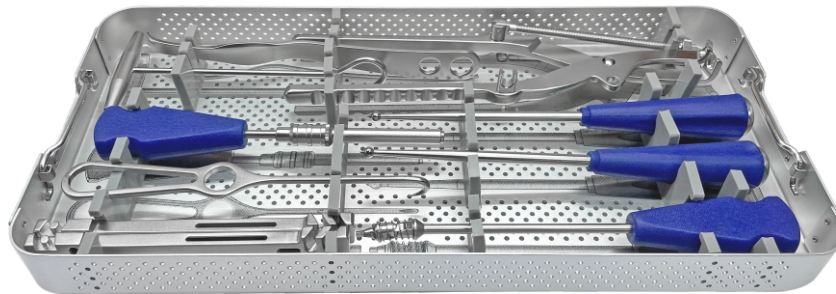
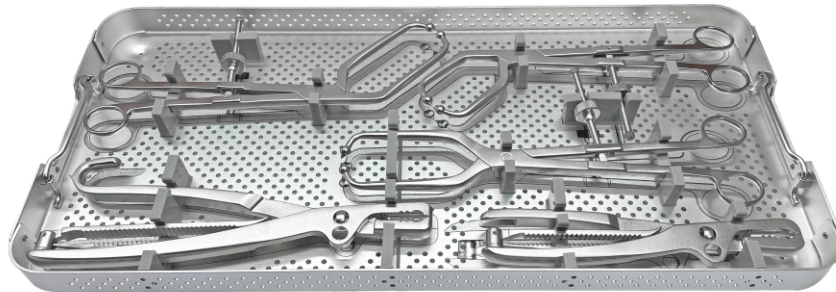
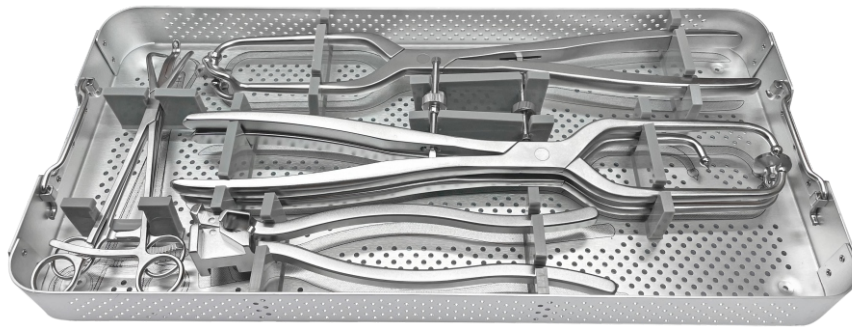
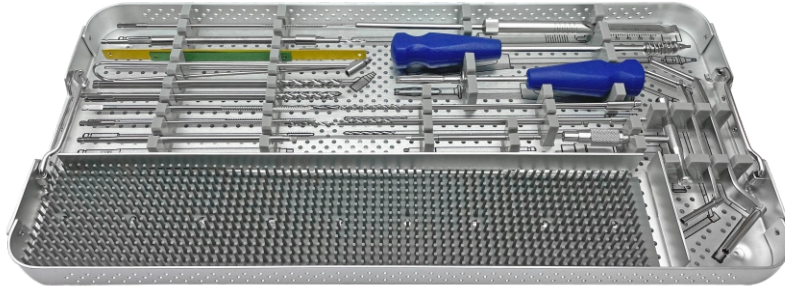


1550-039 Trays for Pelvic Reconstruction Instrument Set



1550-042 Container for Pelvic Reconstruction Instruments



1550-000 Pelvic Reconstruction Instrument set

1550-000 Pelvic Reconstruction Instrument set

Code	Set Consisting of	Qty.
1550-001	Curved Reduction Forcep, Finger Ring Side, Long	1
1550-002	Curved Reduction Forcep, Finger Ring Side, Short	1
1550-003	Reduction Forcep, Finger Ring Side, Straight	1
1550-004	Bone Holding Forcep, Small	1
1550-005	Bone Holding Forcep, Large	1
1550-006	Three Jaws Reduction Forcep	1
1550-007	Movable Clamp Head (ARC)	1
1550-008	High and Low Jaw Reduction Forcep	1
1550-009	Movable Clamp Head (Flat)	1
1550-010	Double Jaws Reduction Forcep	1
1550-011	Acetabular Reduction Forcep	1
1550-012	Ejector bar	2
1550-013	Reduction Forcep with Sharp Point	1
1550-014	Sciatic Nerve Retractor	1
1550-015	Retractor	1
1550-016	Retractor with T Handle	1
1550-017	Ø2.5mm Flexible Drill with Quick Coupling	1
1550-018	Drill Guide Ø2.5mm	1
1550-019	Drill Bit Quick Coupling, Ø2.5mm x Length 230mm	2
1550-020	Drill Bit Quick Coupling, Ø3.5mm x Length 195mm	2
1550-021	Drill Bit Quick Coupling, Ø3.2mm x Length 230mm	2
1550-022	Drill Bit Quick Coupling, Ø4.5mm x Length 195mm	2
1550-023	Double Drill Guide Ø2.5/3.5mm	1
1550-024	Double Drill Guide Ø3.2/4.5mm	1
1550-025	Depth Gauge upto 60mm	1
1550-026	Tap with Quick Coupling, Ø3.5mm	1
1550-027	Tap with Quick Coupling, Ø4.0mm	1
1550-028	Tap with Quick Coupling, Ø4.5mm	1
1550-029	Bending Template, Short	1
1550-030	Bending Template, Long	1
1550-031	Bender Pair	1
1550-032	Plate Bending Forcep	1
1550-033	Screw Holding Forcep (Long)	1
1550-034	Screwdriver Shaft with Quick Coupling, Hex 2.5mm	1
1550-035	Hexagonal Screwdrive with Holding Sleeve, Hex 2.5mm	1
1550-036	Universal Screwdriver, Hex 2.5mm	1
1550-037	Screwdriver Shaft with Quick Coupling, Hex 3.5mm	1
1550-038	T-Handle with Quick Coupling for Pelvic Reconstruction	1
1550-040	Hexagonal Screwdrive with Holding Sleeve, Hex 3.5mm	1
1550-041	Universal Screwdriver, Hex 3.5mm	1
1550-039	Trays for Pelvic Reconstruction Instrument Set	4
1550-042	Container for Pelvic Reconstruction Instruments	1

Optional Instruments**7-032-01**

Template A, Small

**7-032-02**

Template B, Medium

**7-032-03**

Template C, Large

**7-032-04**

Template D, Large Pointed

**7-032-05**

Bone Retractor

**7-032-06**

Muscle Retractor



Optional Instruments

7-032-07 Periosteum Elevator, 14mm, Curved



7-032-08 Hammer for Pelvic Plate



7-032-09 Bending Forcep for Pelvic Plate



7-032-10 Reduction Forcep for Pelvic Plate



7-032-11 Multi-Angle Adjustment Forcep



7-032-12 Eccentric Multi-Angle Adjustment Forcep



Optional Instruments

7-032-13 Holding Forcep, Large



7-032-14 Holding Forcep, Small



7-032-15 Plate Cutting Forcep



7-032-16 Bone Retractor, Short



7-032-17 Bone Retractor, Long



7-032-18 Kirschner Wire, Ø1.2mm x Length 155mm

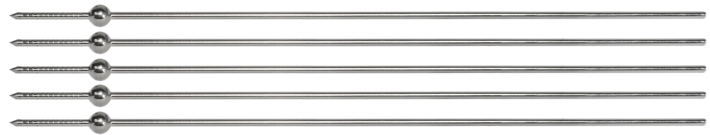


Optional Instruments**7-032-19**

Kirschner Wire, Ø1.6mm x Length 215mm

**7-032-20**

Fixation Pin for Pelvic Plate

**7-032-21**

Drill Bit with Quick Coupling, Ø2.0mm x Length 145mm

**7-032-22**

Drill Bit with Quick Coupling, Ø2.8mm x Length 300mm

**7-032-23**

Quick Release Flexible Drill Bit, Ø3.5mm x Length 300mm

**7-032-24**

Drill Bit with Quick Coupling, Ø 3.5mm x Length 300mm



Optional Instruments

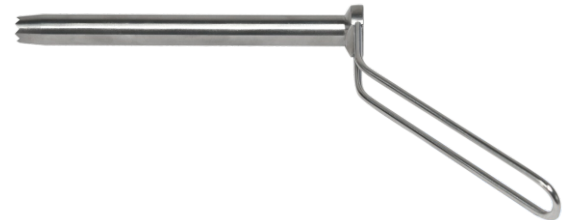
7-032-25 Drill Guide, Ø3.5mm



7-032-26 Drill Guide, Ø2.8mm



7-032-27 Soft Tissue Protector, Long, Ø7.8mm



7-032-28 Drill Guide, Ø3.5mm (for Quick Release Flexible Drill Bit)



7-032-29 Double Drill Guide, Ø2.0/2.8mm



7-032-30 Plate Bender, Large



Optional Instruments

7-032-31 Template for Pelvic Plate



7-032-32 Bone Graft Drill Assembly, Ø7.0mm



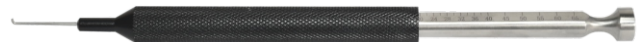
7-032-33 Depth Gauge measuring upto 150mm for Pelvic Plate



7-032-34 Reduction Clamp



7-032-35 Depth Gauge measuring upto 65mm for Pelvic Plate



7-032-36 Plate Reduction Clamp



Optional Instruments

7-032-37 Screwdriver Shaft Quick Coupling, Hex 2.5 x Length 150mm



7-032-38 Screwdriver Shaft Quick Coupling, Hex 2.5 x Length 228mm



7-032-39 Screwdriver Shaft Quick Coupling, Hex 2.5 x Length 250mm



7-032-40 Ratchet Handle for Pelvic Plate



7-032-41 2.8mm Offset Double Drill Guide



7-032-44 Instrument Trays for Container-I for Pelvic Plating System Instrument set

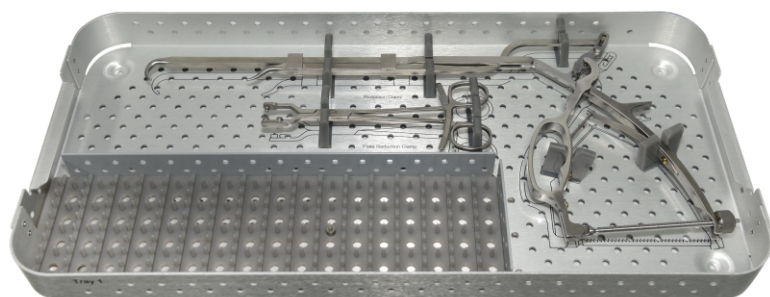
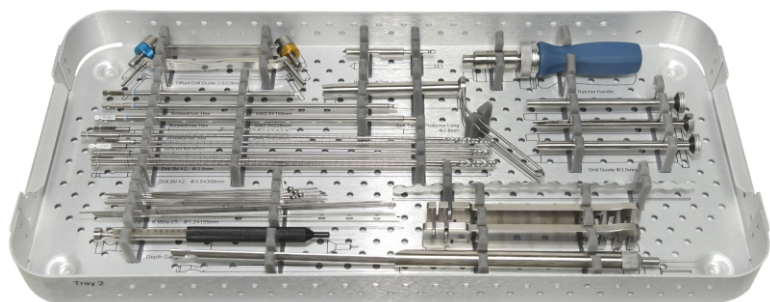
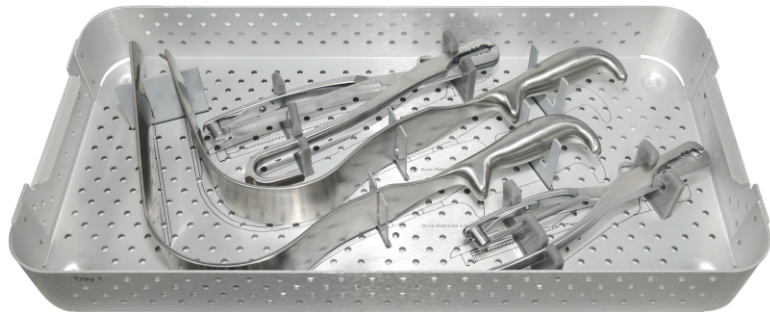
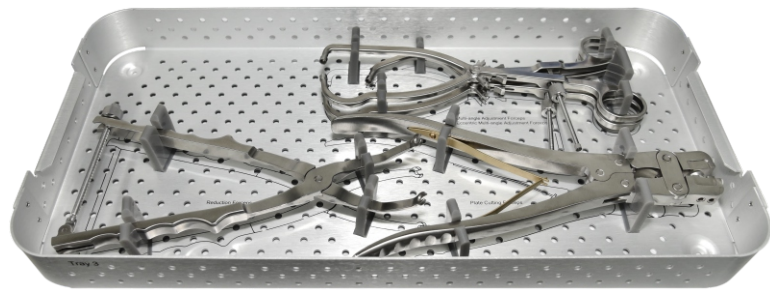
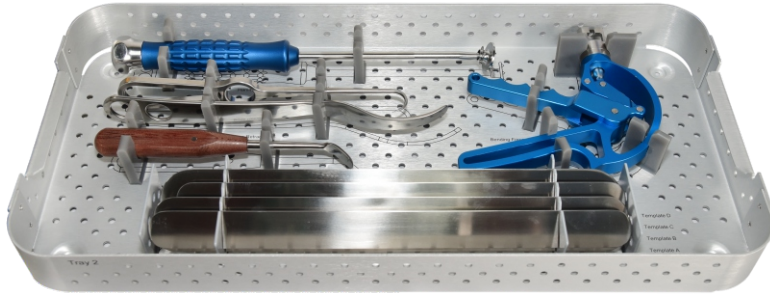


7-032-45 Instrument Trays for Container-II for Pelvic Plating System Instrument set



Optional Instruments

7-032 Pelvic Plating System Instrument set



7-032-44

Instrument Trays for Container-I
for Pelvic Plating System Instrument set

7-032-45

Instrument Trays for Container-II
for Pelvic Plating System Instrument set

7-032-42 Container-I for Pelvic Plating System Instrument set



7-032-43 Container-II for Pelvic Plating System Instrument set



Optional Instruments

7-032 Pelvic Instrument Set

Item Code	Item Name	Unit
7-032-01	Template A, Small	1
7-032-02	Template B, Medium	1
7-032-03	Template C, Large	1
7-032-04	Template D, Large Pointed	1
7-032-05	Bone Retractor	1
7-032-06	Muscle Retractor	1
7-032-07	Periosteum Elevator, 14mm, Curved	1
7-032-08	Hammer for Pelvic Plate	1
7-032-09	Bending Forcep for Pelvic Plate	1
7-032-10	Reduction Forcep for Pelvic Plate	1
7-032-11	Multi-Angle Adjustment Forcep	1
7-032-12	Eccentric Multi-Angle Adjustment Forcep	1
7-032-13	Holding Forcep, Large	1
7-032-14	Holding Forcep, Small	1
7-032-15	Plate Cutting Forcep	1
7-032-16	Bone Retractor, Short	1
7-032-17	Bone Retractor, Long	1
7-032-18	Kirschner Wire, Ø1.2mm x Length 155mm	5
7-032-19	Kirschner Wire, Ø1.6mm x Length 215mm	5
7-032-20	Fixation Pin for Pelvic Plate	5
7-032-21	Drill Bit with Quick Coupling, Ø2.0mm x Length 145mm	1
7-032-22	Drill Bit with Quick Coupling, Ø2.8mm x Length 300mm	2
7-032-23	Quick Release Flexible Drill Bit, Ø3.5mm x Length 300mm	2
7-032-24	Drill Bit with Quick Coupling, Ø 3.5mm x Length 300mm	2
7-032-25	Drill Guide, Ø3.5mm	1
7-032-26	Drill Guide, Ø2.8mm	1
7-032-27	Soft Tissue Protector, Long, Ø7.8mm	1
7-032-28	Drill Guide, Ø3.5mm (for Quick Release Flexible Drill Bit)	1
7-032-29	Double Drill Guide, Ø2.0/2.8mm	1
7-032-30	Plate Bender, Large	2
7-032-31	Template for Pelvic Plate	1
7-032-32	Bone Graft Drill Assembly, Ø7.0mm	1
7-032-33	Depth Gauge measuring upto 150mm for Pelvic Plate	1
7-032-34	Reduction Clamp	1
7-032-35	Depth Gauge measuring upto 65mm for Pelvic Plate	1

Optional Instruments

Item Code	Item Name	Unit
7-032-36	Plate Reduction Clamp	1
7-032-37	Screwdriver Shaft Quick Coupling, Hex 2.5 x Length 150mm	1
7-032-38	Screwdriver Shaft Quick Coupling, Hex 2.5 x Length 228mm	1
7-032-39	Screwdriver Shaft Quick Coupling, Hex 2.5 x Length 250mm	1
7-032-40	Ratchet Handle for Pelvic Plate	1
7-032-41	2.8mm Offset Double Drill Guide	1
7-032-44	Instrument Trays for Container-I for Pelvic Plating System Instrument set	3
7-032-45	Instrument Trays for Container-II for Pelvic Plating System Instrument set	2
7-032-42	Container-I for Pelvic Plating System Instrument set	1
7-032-43	Container-II for Pelvic Plating System Instrument set	1



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