

Surgical Technique



Acumed® is a global leader of innovative orthopaedic and medical solutions.



We are dedicated to developing products, service methods, and approaches that improve patient care.



Acumed® RibLoc® U Plus Chest Wall Plating System

The Acumed RibLoc U Plus Chest Wall Plating System is intended to stabilize and provide fixation for fractures, fusions, and osteotomies of the ribs, and for reconstructions of the chest wall and sternum. First to market with plates designed for the rib, this comprehensive system includes multiple plate options for varying fracture locations and patterns. Featuring patented U-plate technology, it is the only rib plating system that offers both U-plates and straight anterior plates. Color-coded screws and instrumentation are designed for accurate and efficient installation.

	Definition
Warning	Indicates critical information about a potential serious outcome to the patient or the user.
Caution	Indicates instructions that must be followed in order to ensure the proper use of the device.
Note	Indicates information requiring special attention.

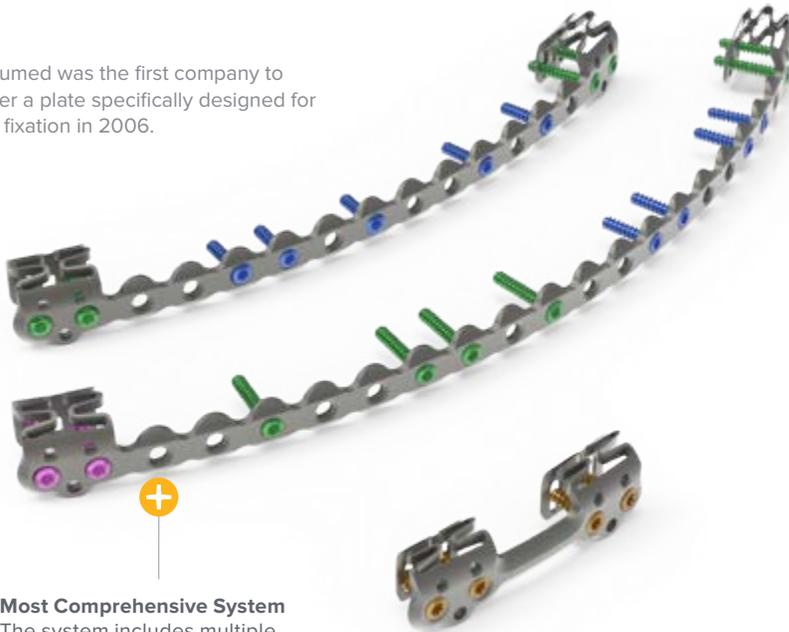
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System Features

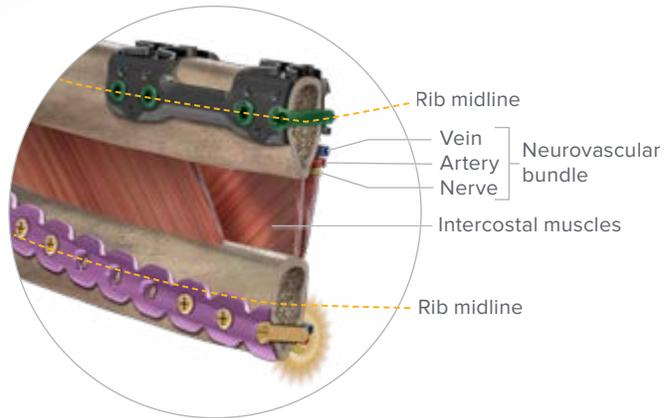


Acumed was the first company to offer a plate specifically designed for rib fixation in 2006.

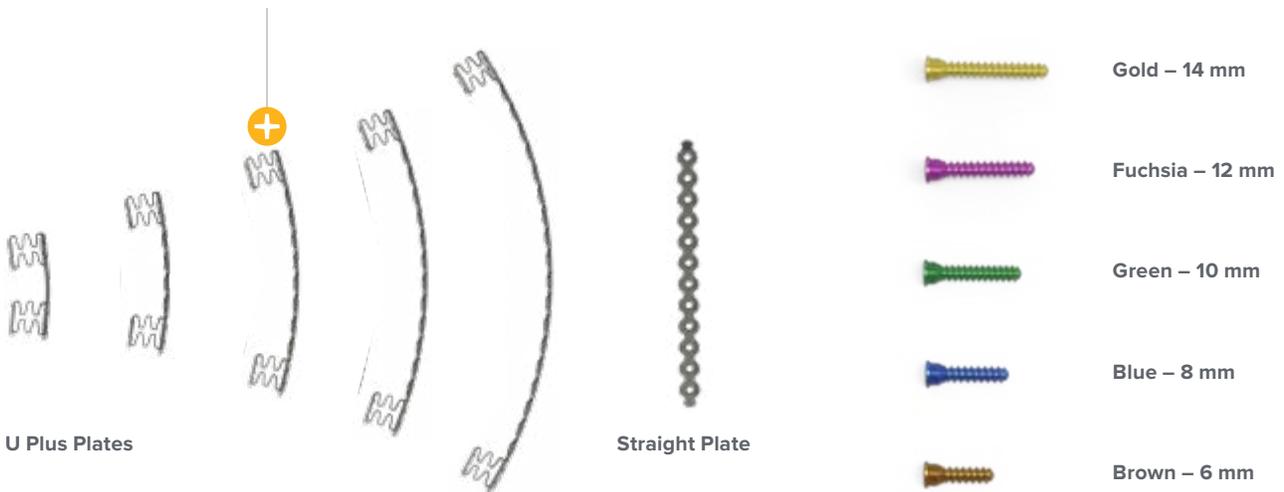


Anterior and Posterior Locking
The U-clips are designed to minimize stress on the rib by distributing physiologic loads over a greater surface area. Once the screws are engaged and fixed to the cortices of the bone, the plate locks both anteriorly and posteriorly.

Most Comprehensive System
The system includes multiple plate options for varying fracture locations and patterns.



Custom Fit
The RibLoc® U Plus plate was designed to be customizable to the individual patient. The plates range in length from 50–215 mm, which allows the surgeon to address a broad range of fracture patterns. The advanced design of the plate offers a compressible U-clip for a perfect fit to a broad range of rib thicknesses (6–14 mm).



RibLoc U Plus 90 instrumentation is intended for use in conjunction with the RibLoc U Plus Chest Wall Plating System implants and instruments.

System Features [continued]

Low-Profile Primary Guides

- ▶ Compress the U-clip to match rib thickness
- ▶ Clamp implant in place and maintain fracture reduction while drilling and installing screws
- ▶ Indicate correct screw size

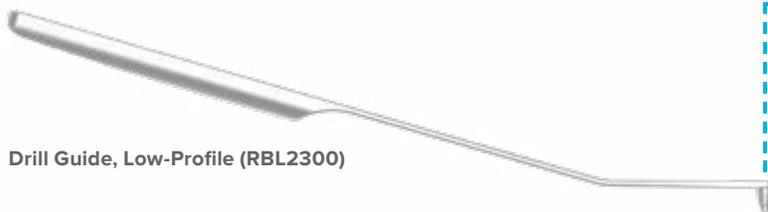


Primary Guide Assy, Low-Profile (RBL2320)

Color-Coded 2.0 Drills (RBL231X)



T8 Power Driver Bit, Low-Profile (MSP2014)



Drill Guide, Low-Profile (RBL2300)



Color-Coded Drill Guides (RBL234X)
Allow for one-handed guided drilling



Handle Extension (MSP2045)



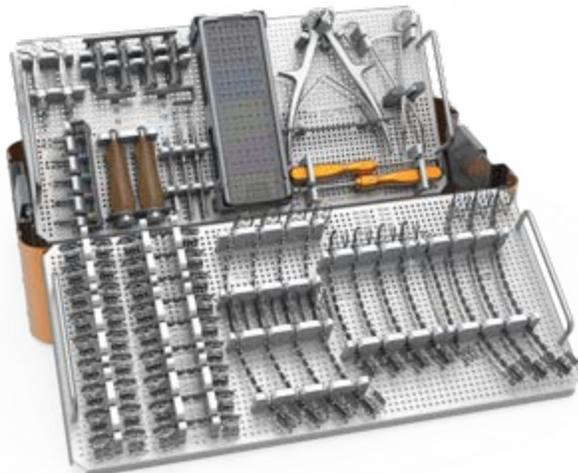
T8 Forward Ratchet Assy, Low-Profile (MSP2030)



T8 Reverse Ratchet Assy, Low-Profile (MSP2035)



T8 Wrench Assy, Low-Profile (MSP2040)



RibLoc U Plus Chest Wall Plating System

RibLoc U Plus 90 instrumentation is intended for use in conjunction with the RibLoc U Plus Chest Wall Plating System implants and instruments.

System Features [continued]

W&H Implantmed Control Unit

Preset speed and torque settings for:

- ▶ Compressing the U-clips
- ▶ Drilling
- ▶ Driving screws



Implantmed SI-915 Control Unit (16929001)

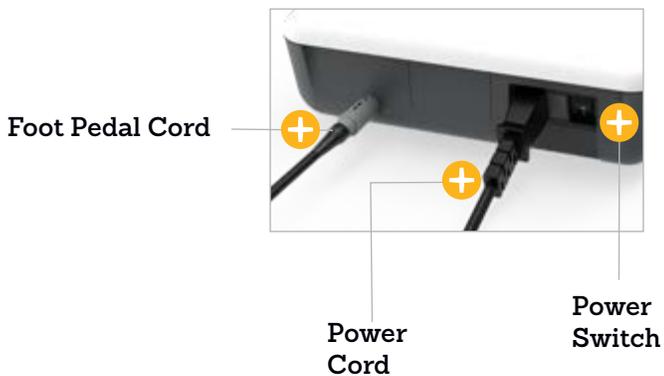
W&H Implantmed Control Unit
Pre-set speed and torque settings for:

- ▶ Compressing the U-clips
- ▶ Drilling
- ▶ Driving screws



The image shows a close-up of the control unit's buttons and icons. From left to right, there is a 'DO NOT USE' label, a play button, a stop button, two buttons labeled '20:1', and another 'DO NOT USE' label. Below the buttons are icons for 'DRILL', 'SCREW', and 'COMPRESS'.

Back of Control Unit



System Features [continued]

W&H Implantmed Control Unit Component



**WS-75 LG, Mini LED+ Surg
Contra-Angle Handpiece 20:1
(30032000)**

Handpieces

- ▶ Contra-angle allows access while clearing the chest wall
- ▶ LED light for enhanced visibility when drilling
- ▶ Two handpieces allow for rapid switching between drilling and driving without changing out small bits



Motor

**Motor With 3.5 m Cable
(06631600)**



The W&H Implantmed motor, foot pedal, and handpiece should be set up according to the W&H Instructions For Use (IFU).

https://www.wh.com/en_global

Foot Pedal

Mode
Cycle through
Compress, Drill,
and Screw modes

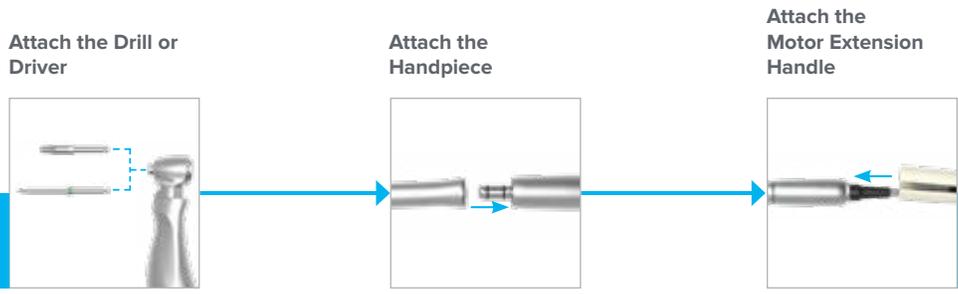


Direction
Switch between
Forward and Reverse

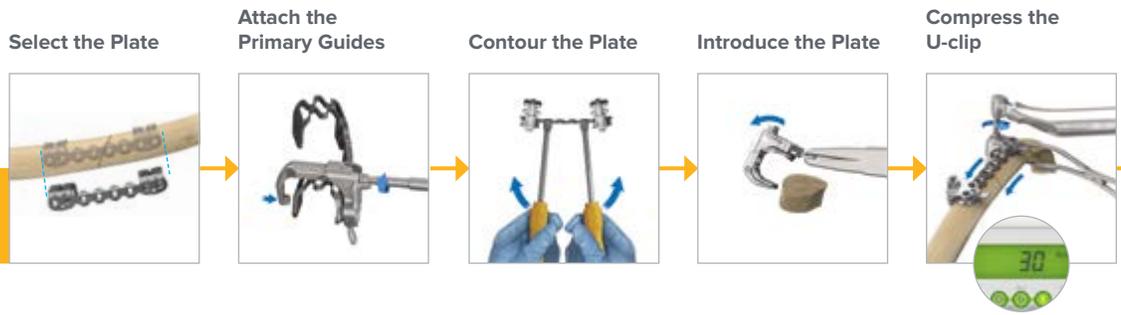
Foot Control SN-1 (06202400)

Surgical Technique Overview

Preparing Handpieces



U Plus 90 Surgical Technique



Drill Primary Holes



Install Screws in Primary Locations



Drill Intermediate Holes



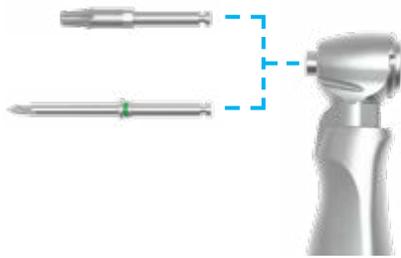
Place Intermediate Screws



Remove the Primary Guides



Preparing Handpieces



1 Attach the Drill or Driver

1. Insert the 10 mm x 2.0 Drill (RBL2313) or T8 Power Driver Bit, Low-Profile (MSP2014) until it stops.
2. Rotate the bit until it engages and clicks into place fully.
3. Check that the fit is secure by gently pulling on the bit.
4. To **remove**, push the button on the top of the head and release the bit.

Tip: Prepare WS-75 LG, Mini LED+ Surg Contra-Angle Handpiece 20:1 (30032000) with a T8 Power Driver Bit, Low-Profile and reserve the second handpiece for drilling. This allows for rapid switching between drilling and driving.



2 Attach the Handpiece to the Motor

1. Push the handpiece onto the Motor With 3.5 m Cable (06631600) until it clicks into place.
2. Check that the handpiece is secure. There should be no gap between the handpiece and motor.
3. To **remove**, pull the handpiece from the motor.



3 Attach the Motor Extension Handle

If additional length to hold the motor is desired, attach the Handle Extension (MSP2045) by laying the motor cable in the slot and pushing the handle onto the motor until it clicks into place.



10 mm x 2.0 Drill (RBL2313)



T8 Power Driver Bit, Low-Profile (MSP2014)



WS-75 LG, Mini LED+ Surg Contra-Angle Handpiece 20:1 (30032000)



Motor With 3.5 m Cable (06631600)

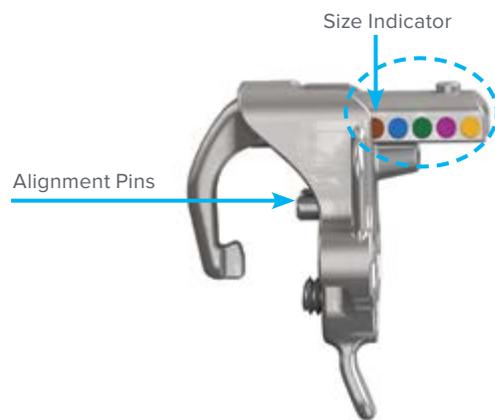


Handle Extension (MSP2045)

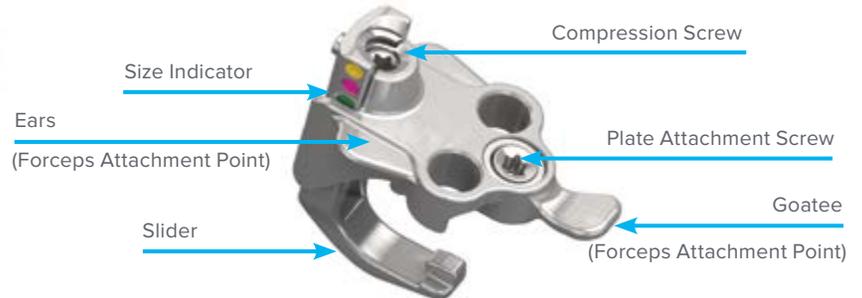
U Plus 90 Surgical Technique

1 Select the Plate

1. After exposing the fracture, select the desired Rib Plate (RBL130X) length and prepare for placement.
2. Select a plate that allows at least 5 mm between the fracture and the nearest U-clip.



Primary Guide Overview

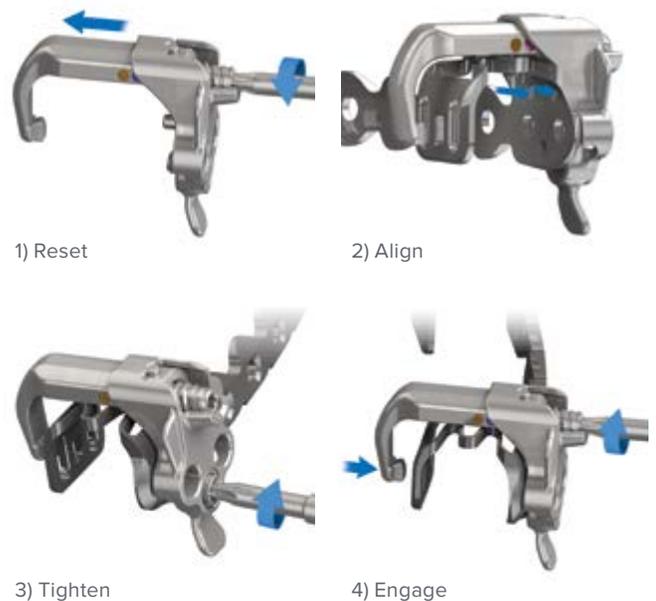


2 Attach the Primary Guides

1. Reset the Primary Guide Assy, Low-Profile (RBL2320) by turning the Compression Screw counterclockwise using the T8 Hexalobe Driver (MSP2013) from the U Plus tray until it stops.
2. Align the Primary Guide pins with the corresponding holes on the front of each U-clip.
3. Tighten the Attachment Screw with the T8 Hexalobe Driver.
4. Rotate the Compression Screw until the slider is engaged with the posterior rectangular slot of the U-clip.

Attention: Visually ensure the slider is engaged with the posterior rectangular slot of the U-clip. Adjust alignment by hand if necessary.

Do not start compressing the U-clip at this point.



Rib Plate (RBL130X)



Primary Guide Assy, Low-Profile (RBL2320)



T8 Hexalobe Driver (MSP2013)

U Plus 90 Surgical Technique [continued]



3 Contour the Plate

If needed, contour the plate to match the rib's geometry using the Bender Assembly (RBL2280) provided in the U Plus tray.

1. Hand Benders
 - ▶ For out-of-plane bending, place the plate between the rollers.
 - ▶ For in-plane bending, place the plate within the teardrop features.

Note: Contouring is typically needed for plates placed under the scapula.

Note: Contouring the plate with the Ribloc U Plus Bending Template (RBL2294) can be helpful when installing onto the rib.

Tip: Typical in-plane rib curvature is in the direction of a “smile” in higher rib levels and a “frown” in lower rib levels.



2. Bending Joystick Assembly (RBL2270)
 - ▶ Thread the two benders into the plate holes on either side of the desired contour location.
 - ▶ Use the handles to bend, twist, or straighten the plate.

Caution: Repetitive bending of the plate at the same location may fatigue and weaken it.



Bender Assembly (RBL2280)



RibLoc U Plus Bending Template (RBL2294)



Bending Joystick Assembly (RBL2270)

U Plus 90 Surgical Technique [continued]

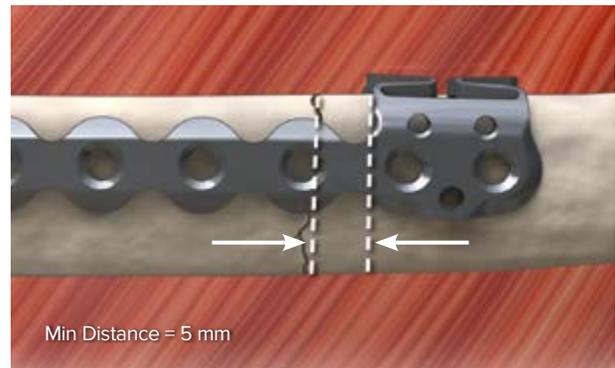
4 Introduce the Plate

1. At each U-clip location, make a small incision immediately superior to the rib margin.

Tip: A curved periosteal elevator or curved forceps can be useful for intercostal dissection.

2. Place the Rib Plate (RBL130X) onto the rib at the desired location, using forceps to grasp the Primary Guide Assy, Low-Profile (RBL2320) at attachment points (ears or goatee).
3. Use visualization and palpation to assess the contour and tracking of the plate. Reposition and re-contour the plate, according to **Step 3**, as necessary.

Tip: Using straight or curved forceps can be helpful during plate placement.



Rib Plate
(RBL130X)



Primary Guide
Assy, Low-Profile
(RBL2320)

U Plus 90 Surgical Technique [continued]



Ensure that the Implantmed Motor With 3.5 m Cable (06631600), Foot Control SN-1 (06202400), and WS-75 LG, Mini LED+ Surg Contra-Angle Handpiece 20:1 (30032000) are set up according to the W&H Instructions For Use (IFU).



5 Prepare Control Unit to Compress U-clip

Prepare Implantmed SI-915 Control Unit (16929001) for U-clip compression.

1. Attach WS-75 LG, Mini LED+ Surg Contra-Angle Handpiece 20:1 (30032000) with the installed T8 Power Driver Bit, Low-Profile (MSP2014) to the Implantmed Motor With 3.5 m Cable (06631600).
2. Put the Control Unit in Compress mode by stepping on the orange pedal until Compress mode is selected.
3. Ensure the control unit is set to a torque of 30 Ncm. If necessary, use the +/- buttons to adjust.

Warning: Hand-tightening may break Primary Guide Assy, Low-Profile (RBL2320).

Caution: Over-compressing the U-clip may damage the bone or Primary Guide Assy, Low-Profile.



Motor With 3.5 m Cable (06631600)



Foot Control SN-1 (06202400)



WS-75 LG, Mini LED+ Surg Contra-Angle Handpiece 20:1 (30032000)



Implantmed SI-915 Control Unit (16929001)



T8 Power Driver Bit, Low-Profile (MSP2014)



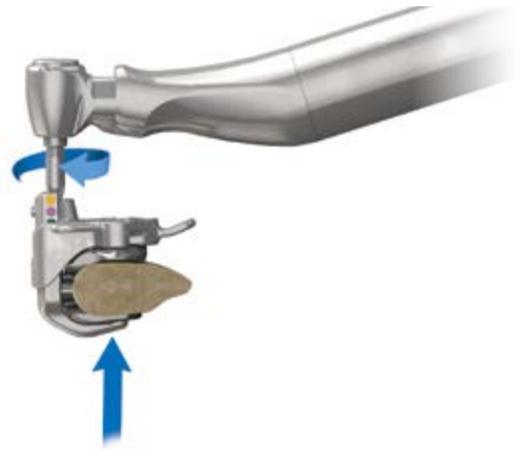
Primary Guide Assy, Low-Profile (RBL2320)

U Plus 90 Surgical Technique [continued]

6 Compress One U-clip to Rib

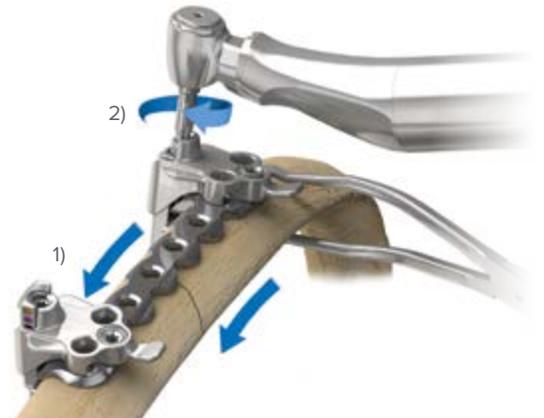
1. Drive the Compression Screw, compressing the U-clip to match the thickness of the rib, until the control unit stops and beeps once.
2. Assess the compression of the U-clip by moving the U-clip relative to the bone. Little to no motion should be present.

Warning: Compressing the U-clip in a mode other than Compress mode may damage the bone or break the WS-75 LG, Mini LED+ Surg Contra-Angle Handpiece 20:1 (30032000) and Primary Guide Assy, Low-Profile (RBL2320).



7 Approximate the Fracture and Compress Second U-clip

1. With one U-clip compressed, manipulate the rib to reduce the fracture.
2. Compress the second U-clip to maintain reduction for drilling and screw placement.



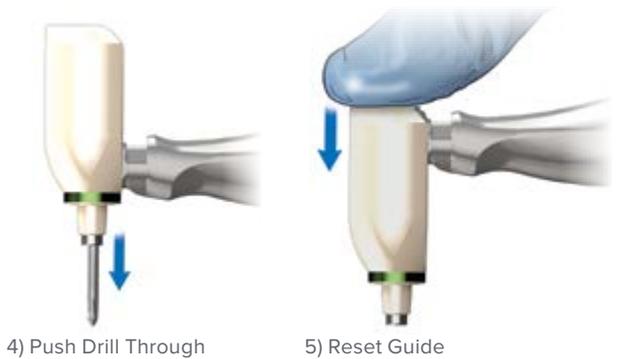
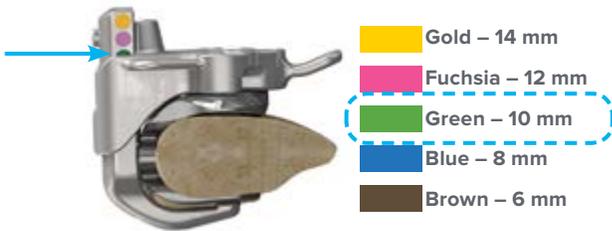
WS-75 LG,
Mini LED+ Surg
Contra-Angle
Handpiece 20:1
(30032000)



Primary Guide
Assy, Low-Profile
(RBL2320)

U Plus 90 Surgical Technique [continued]

1) Select Drill Length



8 Prepare Drill and Drill Guide

1. Read the size indicator on the Primary Guide Assy, Low-Profile (RBL2320) by identifying the lowest color marking visible above the top surface of the guide.
2. Insert corresponding color-coded 2.0 Drill (RBL231X) into the WS-75 LG, Mini LED+ Surg Contra-Angle Handpiece 20:1 (30032000) and install Handpiece onto Motor With 3.5 m Cable (06631600).
3. Install the corresponding color-coded Drill Guide Assembly (RBL234X) onto the head of the Handpiece by inserting the tip of the Drill into the nose of the Drill Guide Assembly from the side and clicking the head into place.
4. Push the Drill all the way through the Drill Guide Assembly.
5. Reset the Drill Guide Assembly by clicking it into place at the top of the Handpiece head. The Drill tip should be fully covered.

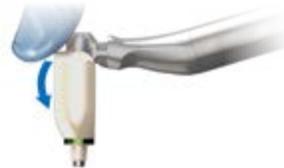
Caution: The Drill tip is sharp. Use caution when loading and unloading the Drill Guide Assembly.

Note: If desired, the handheld Drill Guide, Low-Profile (RBL2300) may be used with any size drill in lieu of the color-coded Drill Guides.

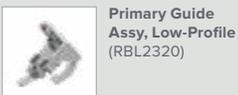


Handheld Drill Guide

Note: To remove the Drill Guide Assembly, push down on the rim with thumb.



Color	Drill Bit	Drill Guide
Brown	6 mm x 2.0 Drill (RBL2311)	6 mm Drill Guide Assembly (RBL2341)
Blue	8 mm x 2.0 Drill (RBL2312)	8 mm Drill Guide Assembly (RBL2342)
Green	10 mm x 2.0 Drill (RBL2313)	10 mm Drill Guide Assembly (RBL2343)
Fuchsia	12 mm x 2.0 Drill (RBL2314)	12 mm Drill Guide Assembly (RBL2344)
Gold	14 mm x 2.0 Drill (RBL2315)	14 mm Drill Guide Assembly (RBL2345)



Primary Guide Assy, Low-Profile (RBL2320)



2.0 Drill (RBL231X)



WS-75 LG, Mini LED+ Surg Contra-Angle Handpiece 20:1 (30032000)



Motor With 3.5 m Cable (06631600)



Drill Guide Assembly (RBL234X)

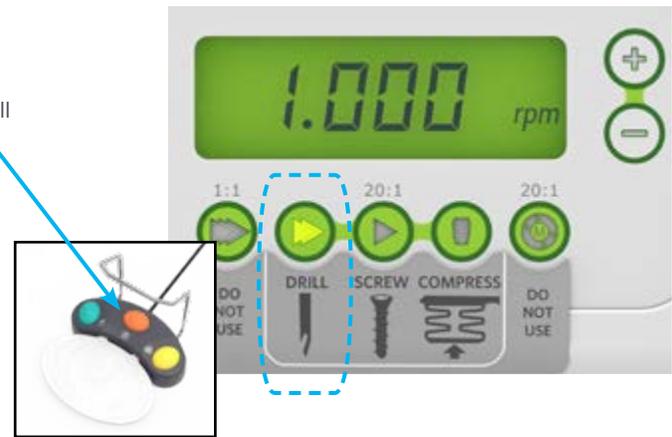


Drill Guide, Low-Profile (RBL2300)

U Plus 90 Surgical Technique [continued]

9 Prepare Control Unit to Drill

1. Put the Implantmed SI-915 Control Unit (16929001) in Drill mode by stepping on the orange pedal until Drill mode is selected.
2. Ensure the control unit is set to 1000 rpm. If necessary, use the +/- buttons to adjust.



10 Drill Primary Holes

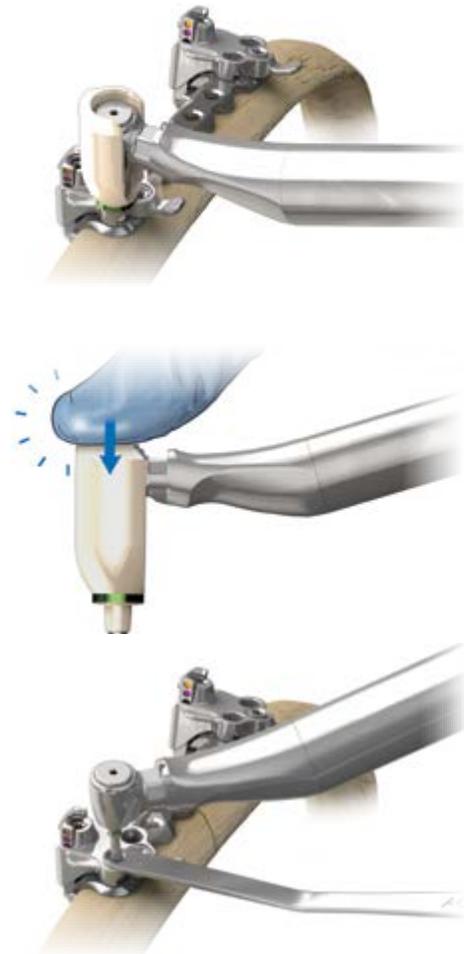
Use the Drill Guide Assembly (RBL234X) to drill primary holes.

1. Fully insert the nose of the Drill Guide Assembly into the barrel of the Primary Guide Assy, Low-Profile (RBL2320).
2. Advance the Drill until it bottoms out on the guide.
3. Repeat until all primary holes have been drilled.

Note: The color-coded Drill Guide Assembly must be reset before drilling each subsequent hole by clicking it into place at the top of the Handpiece head, fully covering the Drill tip.

Note: Rib sizing may be different at each U-clip location. Check that the drill length matches the Primary Guide size indicator before drilling.

If desired, the handheld Drill Guide, Low-Profile (RBL2300) may be used instead of the color-coded Drill Guides.



Implantmed SI-915 Control Unit (16929001)



Drill Guide Assembly (RBL234X)

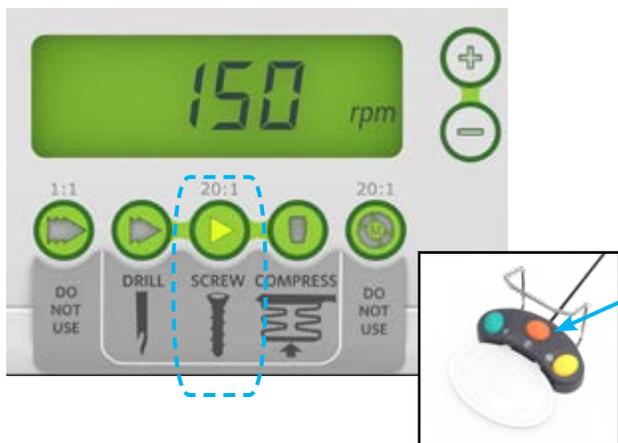


Primary Guide Assy, Low-Profile (RBL2320)



Drill Guide, Low-Profile (RBL2300)

U Plus 90 Surgical Technique [continued]



11 Prepare Control Unit to Drive Screws

Prepare Implantmed SI-915 Control Unit (16929001) for screw installation.

1. Switch Handpieces so that the T8 Power Driver Bit, Low-Profile (MSP2014) is installed.
2. Put the control unit in Screw mode by stepping on the orange pedal on the Foot Control SN-1 (06202400) until Screw mode is selected.
3. Ensure the Control Unit is set to 150 rpm. If necessary, use the +/- buttons to adjust.

Caution: The Handpiece can be damaged if a screw is installed while in Drill mode.



12 Select Screw

Select appropriate 2.7 mm Locking Screw (RBL122X).

1. Use the driver to retrieve the screw length indicated by the Primary Guide Assy, Low-Profile (RBL2320).

Color	Screw
Brown	6 mm x 2.7 mm Locking Screw (RBL 1221)
Blue	8 mm x 2.7 mm Locking Screw (RBL 1222)
Green	10 mm x 2.7 mm Locking Screw (RBL 1223)
Fuchsia	12 mm x 2.7 mm Locking Screw (RBL 1224)
Gold	14 mm x 2.7 mm Locking Screw (RBL 1225)



Implantmed SI-915 Control Unit (16929001)



T8 Power Driver Bit, Low-Profile (MSP2014)



Foot Control SN-1 (06202400)



2.7 mm Locking Screw (RBL122X)



Primary Guide Assy, Low-Profile (RBL2320)

U Plus 90 Surgical Technique [continued]

13 Install Screws in Primary Locations

1. Place the screw through the barrel of the Primary Guide Assy, Low-Profile (RBL2320) and advance until the unit stops. A seated screw may be visualized through the window in the Primary Guide.
2. The T8 Forward Ratchet Assy, Low-Profile (MSP2030) only needs to be used when the screw is not seated all the way with the power driver.
3. Repeat until all screws have been placed in the U-clips.

Note: Implantmed SI-915 Control Unit (16929001) will NOT beep in Screw mode.

Note: When using the Ratchet, the user should only apply torque until the screw is fully seated. The rep and surgeon should be aware that the Ratchet has a long handle and can supply excess torque if not used properly.

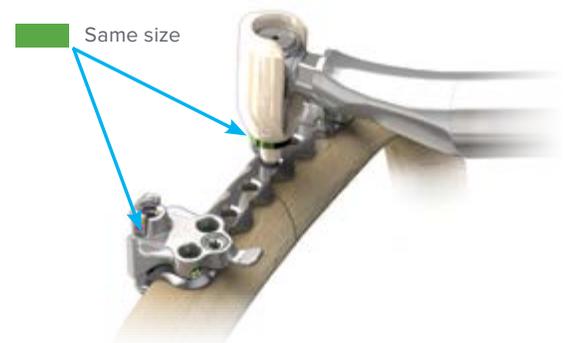
Tip: Let the WS-75 LG, Mini LED+ Surg Contra-Angle Handpiece 20:1 (30032000) do the work. Significant force is not needed.



14 Drill Intermediate Holes

1. Prepare the Implantmed SI-915 Control Unit (16929001) to drill according to **Step 9**.
2. Use the same 2.0 Drill (RBL231X) length as that indicated by the nearest Primary Guide Assy, Low-Profile for the intermediate holes.
3. Introduce the nose of the Drill Guide Assembly (RBL234X) or handheld Drill Guide, Low-Profile (RBL2300) directly into the threaded plate hole.
4. Drill until the Drill bottoms out on the Guide.

Note: Feel for the Drill penetrating both cortices to ensure the correct drill depth has been reached.



Attention: Check your Control Unit to ensure it's in the correct mode before your next step.



Primary Guide Assy, Low-Profile (RBL2320)



T8 Forward Ratchet Assy, Low-Profile (MSP2030)



Implantmed SI-915 Control Unit (16929001)



WS-75 LG, Mini LED+ Surg Contra-Angle Handpiece 20:1 (30032000)



2.0 Drill (RBL231X)

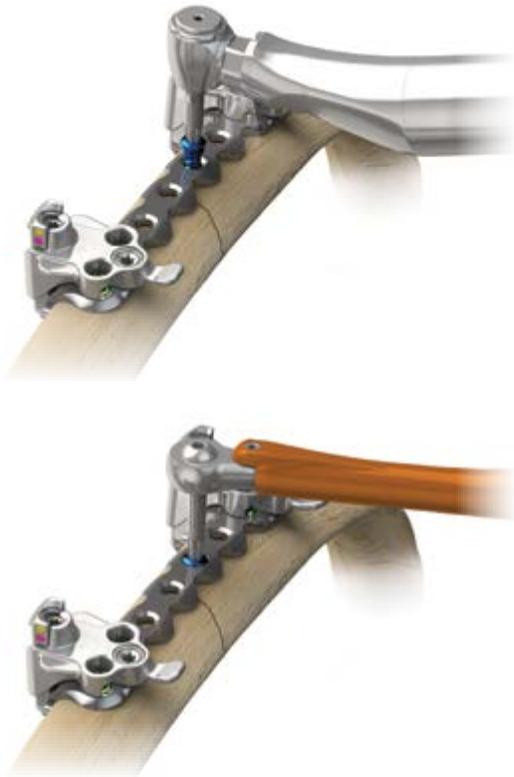


Drill Guide Assembly (RBL234X)



Drill Guide, Low-Profile (RBL2300)

U Plus 90 Surgical Technique [continued]



15 Place Intermediate Screws

1. Prepare the Implantmed SI-915 Control Unit (16929001) to place screws according to **Step 11**.
2. Check the color marking on the nearest Primary Guide Assy, Low-Profile (RBL2320) and select a screw length that allows bicortical purchase. This is typically one size down, unless the rib is thicker than at the Guide location.
3. The T8 Forward Ratchet Assy, Low-Profile (MSP2030) only needs to be used when the screw does not seat all the way with the power driver.

Note: When using the T8 Forward Ratchet Assy, Low-Profile, the user should only apply torque until the screw is fully seated. The rep and surgeon should be aware that the Ratchet has a long handle and can supply excess torque if not used properly.

Note: Insert screw minimum 5 mm from fracture location.

Note: If there is access, manually palpate the posterior rib surface for the screw tip to determine if there is bicortical purchase. If there isn't, replace with a longer screw.



Implantmed SI-915
Control Unit
(16929001)



Primary Guide
Assy, Low-Profile
(RBL2320)



T8 Forward
Ratchet Assy,
Low-Profile
(MSP2030)

U Plus 90 Surgical Technique [continued]

16 Remove Primary Guides

1. Put the Implantmed SI-915 Control Unit (16929001) into Compress mode by pressing the orange pedal.
2. Set the Control Unit to reverse by pressing the yellow pedal. The Compress mode light on the Control Unit will flash repeatedly when in reverse.

Note: Control Unit will beep 3 times before the system begins to drive in reverse.

3. Using the T8 Power Driver Bit, Low-Profile (MSP2014), release the Primary Guide Assy, Low-Profile (RBL2320) Compression Screw and Attachment Screw.
4. Use forceps to remove the Primary Guides.



Caution: Reversing in a mode other than Compress mode may damage the Primary Guide or WS-75 LG, Mini LED+ Surg Contra-Angle Handpiece 20:1 (30032000).



Implant Removal

For implant removal, screws may be removed with the T8 Reverse Ratchet Assy, Low-Profile (MSP2035) and Control Unit.

Additional System Information

If desired, one of the U-clips may be cut off using standard OR plate cutters. Use a minimum of three screws to secure the plate at the cut end.

Straight Plate (RBL1401) Information

If using the 126 mm Straight Plate (RBL1401) straight plate for the ribs or sternum fixation, please use the Sternum Fracture Technique RBL7029.



Implantmed SI-915 Control Unit (16929001)



T8 Power Driver Bit, Low-Profile (MSP2014)



Primary Guide Assy, Low-Profile (RBL2320)



WS-75 LG, Mini LED+ Surg Contra-Angle Handpiece 20:1 (30032000)



T8 Reverse Ratchet Assy, Low-Profile (MSP2035)



126 mm Straight Plate (RBL1401)

Ordering Information

Tray Components

Instruments

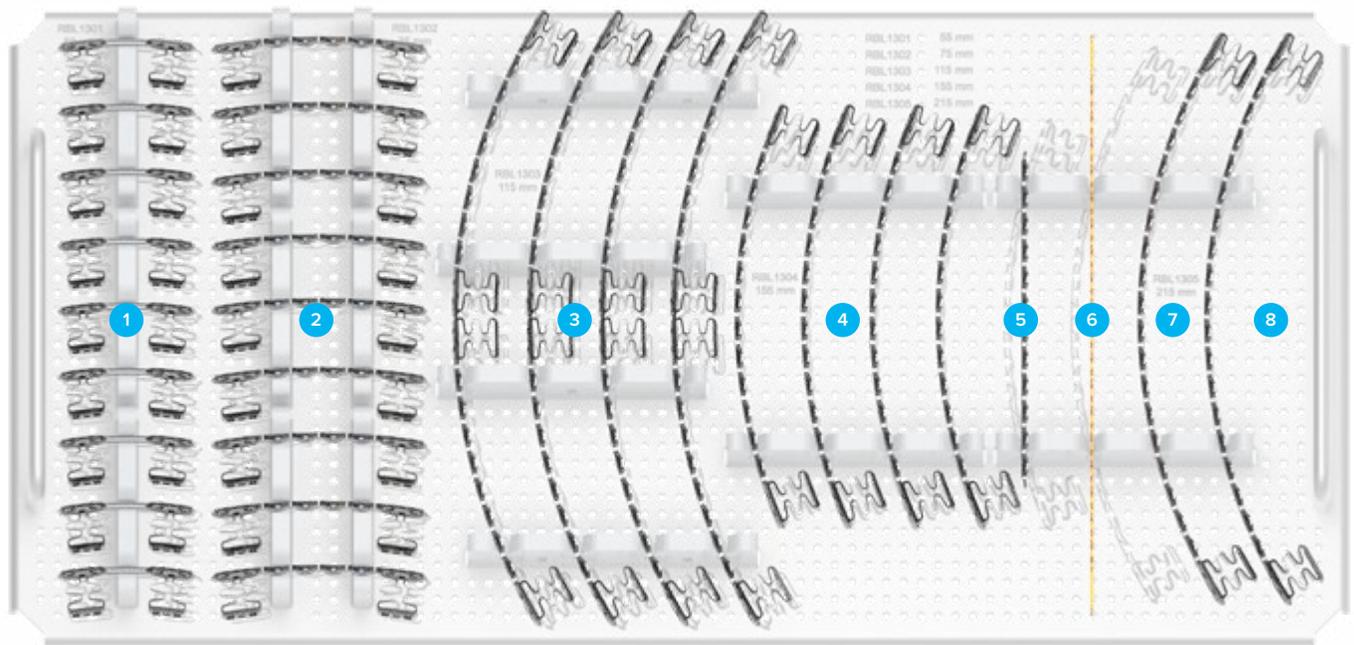
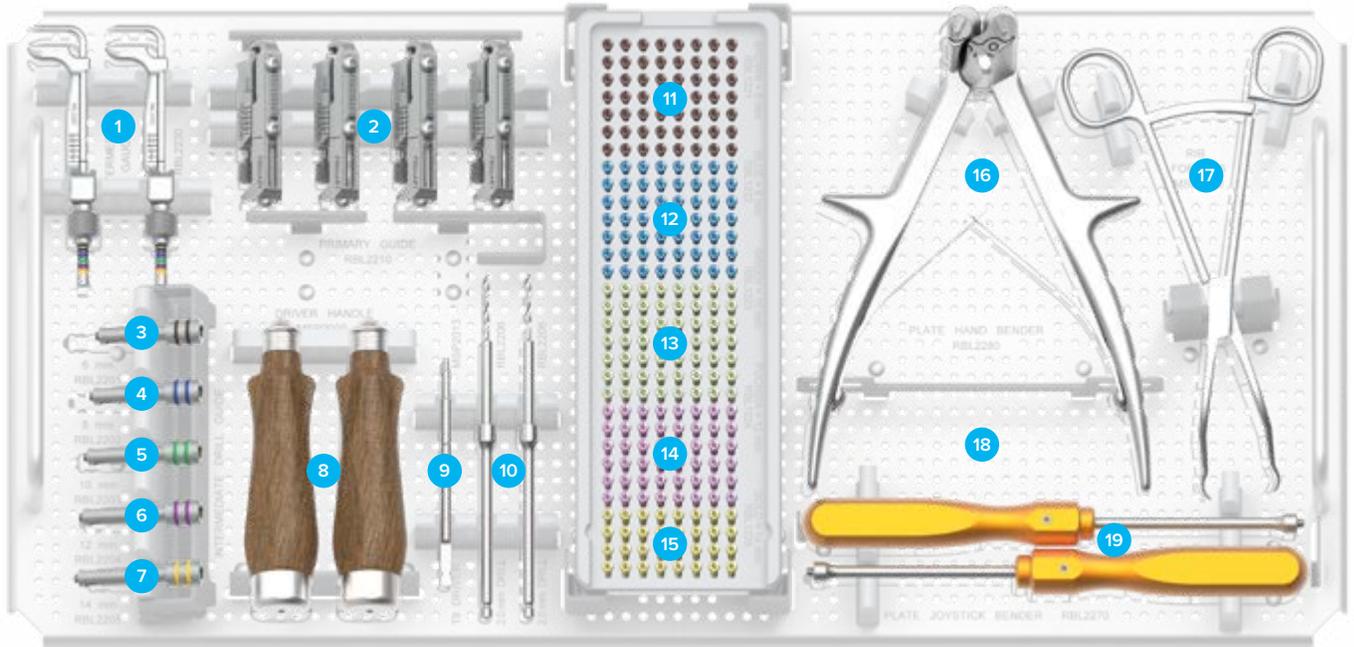
1	Intermediate Gauge Assembly	RBL2230	11	6 mm x 2.7 mm Locking Screw	RBL1221
2	Primary Guide Assembly	RBL2210	12	8 mm x 2.7 mm Locking Screw	RBL1222
3	6 mm Intermediate Guide	RBL2201	13	10 mm x 2.7 mm Locking Screw	RBL1223
4	8 mm Intermediate Guide	RBL2202	14	12 mm x 2.7 mm Locking Screw	RBL1224
5	10 mm Intermediate Guide	RBL2203	15	14 mm x 2.7 mm Locking Screw	RBL1225
6	12 mm Intermediate Guide	RBL2204	16	Bender Assembly	RBL2280
7	14 mm Intermediate Guide	RBL2205	17	Rib Forceps	MSP2020
8	Quick Release Driver	MSP2000	18	RibLoc U+ Chest Wall Plating System	RBL4020
9	T8 Hexalobe Driver	MSP2014	19	Bending Joystick Assembly	RBL2270
10	2.0 mm Drill	MSP2013			

Tray Components

Implants

1	50 mm Rib Plate	RBL1301	5	126 mm Straight Plate	RBL1401
2	75 mm Rib Plate	RBL1302	6	RibLoc U Plus Bending Template	RBL2294
3	115 mm Rib Plate	RBL1303	7	215 mm Rib Plate	RBL1305
4	155 mm Rib Plate	RBL1304	8	RibLoc U+ Chest Wall Plating System	RBL4020

Note: To learn more about the full line of Acumed innovative surgical solutions, please contact your authorized Acumed distributor, call 888.627.9957, or visit www.acumed.net.



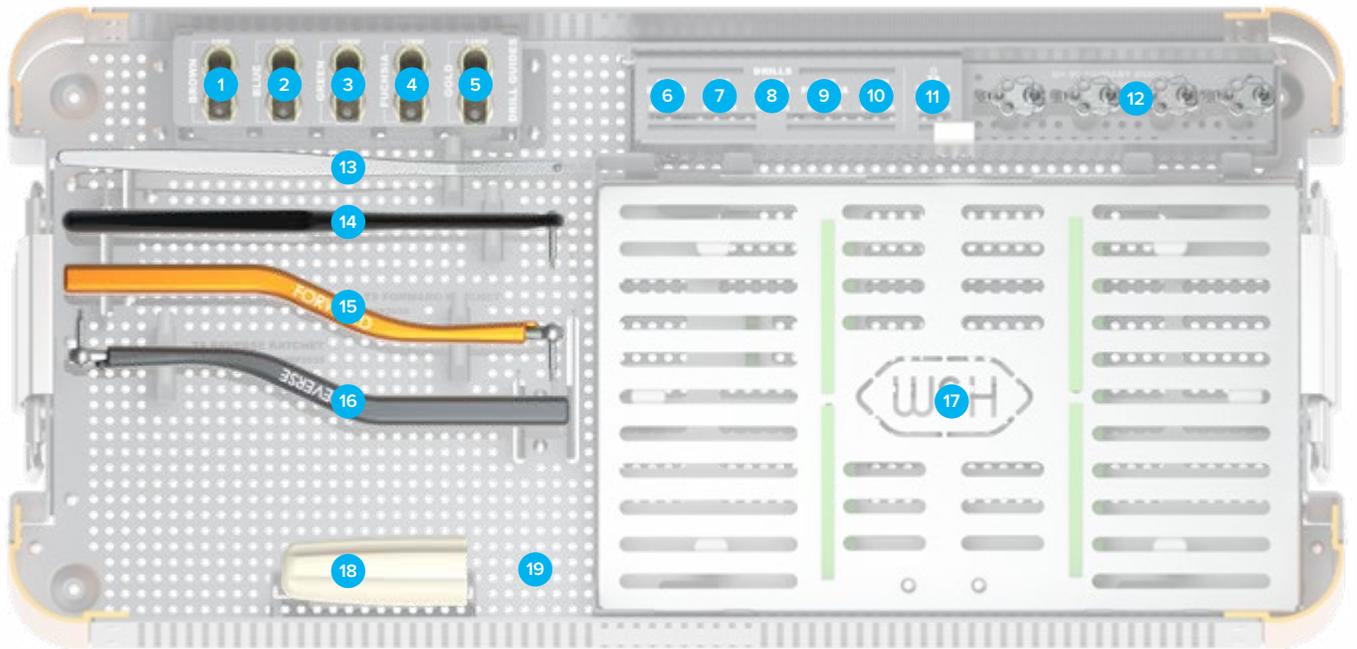
Ordering Information

Tray Components

RibLoc U Plus 90 Instrumentation Set

1	6 mm Drill Guide Assembly	RBL2341	11	T8 Power Driver Bit, Low-Profile	MSP2014
2	8 mm Drill Guide Assembly	RBL2342	12	Primary Guide Assy, Low-Profile	RBL2320
3	10 mm Drill Guide Assembly	RBL2343	13	Drill Guide, Low-Profile	RBL2300
4	12 mm Drill Guide Assembly	RBL2344	14	T8 Wrench Assy, Low-Profile	MSP2040
5	14 mm Drill Guide Assembly	RBL2345	15	T8 Forward Ratchet Assy, Low-Profile	MSP2030
6	6 mm x 2.0 mm Drill	RBL2311	16	T8 Reverse Ratchet Assy, Low-Profile	MSP2035
7	8 mm x 2.0 mm Drill	RBL2312	17	Sterilization Cassette	04013500
8	10 mm x 2.0 mm Drill	RBL2313	18	Handle Extension	MSP2045
9	12 mm x 2.0 mm Drill	RBL2314	19	RibLoc U Plus Low-Profile Instrument Tray	RBL4030
10	14 mm x 2.0 mm Drill	RBL2315			

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Ordering Information

W&H Power Control - Implantmed (US Only)

Implantmed

1	Implantmed SI-915 Control Unit	16929001	4	Foot Control SN-1	06202400
2	Motor With 3.5 m Cable	06631600	5	Handle For Foot Pedal	4653500
3	WS-75 LG, Mini LED+ Surg Contra-Angle Handpiece 20:1	30032000			

Additional Components

Implantmed

Spray Cap With Nozzle	02038200
Power Cord HG – US/Canada	02821400
W&H Service-Oil F1, MD-400	10940021

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