



**GLOBUS**  
MEDICAL



# ANTHEM™

## Small Fragment Fracture System



*Our mission is to deliver cutting-edge technology, research, and innovative solutions to promote healing in patients with musculoskeletal disorders.*

***Life Moves Us***

The Surgical Technique shown is for illustrative purposes only. The technique(s) actually employed in each case always depends on the medical judgment of the surgeon exercised before and during surgery as to the best mode of treatment for each patient. Additionally, as instruments may occasionally be updated, the instruments depicted in this Surgical Technique may not be exactly the same as the instruments currently available. Please consult with your sales representative or contact Globus directly for more information.

# SURGICAL TECHNIQUE GUIDE

## ANTHEM™

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# ANTHEM™

## Small Fragment Fracture System



The ANTHEM™ Small Fragment System offers numerous treatment options for upper and lower extremity trauma. The system features a comprehensive set of implants and instruments designed to improve fracture care.

Multiple plate types are available in the system including 3.5mm Straight Plates, One Third Tubular Plates, Reconstruction Plates, and T-Plates. A range of 2.5mm, 3.5mm, and 4.0mm screws are available in lengths up to 100mm.

Innovative instruments are designed to improve procedure flow. Radiolucent retractors and Weitlaners improve visibility of the fracture site. Versatile bending irons and clamps help to expedite plate contouring.

### Comprehensive Plate Offering

The ANTHEM™ Small Fragment System offers 3.5mm Straight Plates, One Third Tubular Plates, Reconstruction Plates, and T-Plates.



### Versatile Screw Options

Screw holes accept a wide range of screw types and lengths up to 100mm.

## Locking and Non-Locking Plates

Locking and non-locking plates are available to accommodate diverse surgical preferences and clinical scenarios.



Locking plate hole



Non-locking plate hole



Screw Type	Drill Size	Drive Type
2.5mm Non-Locking	1.8mm	T15
3.5mm Non-Locking	2.7mm	
3.5mm Locking		
4.0mm Cancellous		

## Improved Procedure Flow

All 3.5mm and 4.0mm screws use the same drill and driver size to reduce intraoperative complexity and improve procedure flow.

## Enhanced Bending Instruments

The Universal Clamp provides three mechanisms for in-plane and out-of-plane bending. Bending Irons combine features of standard and reconstruction style irons into one instrument.



## Radiolucent Retractors

Radiolucent retractors aid in visibility of the fracture site.



# COLOR CODING

## Drill Bits, Taps, and Drill Guides

- Drill bits, taps, and drill guides are color-coded with bands for easy identification of screw and drill diameter
- Instruments with multiple color bands are compatible with multiple diameters

Color	Screw Diameter	Drill Diameter
Blue	2.5mm	1.8mm
Fuschia	3.5mm	2.7mm
Green	4.0mm	2.7mm



## Drivers

The color bands indicate driver type.

- **No color band:** Self-retaining drivers designed to retain screws without a retaining sleeve
- **Black color band:** Non-self-retaining drivers designed to seat fully in the screw head to prevent stripping screw head in challenging situations



Self-retaining driver



Non-self-retaining driver

# IMPLANT OVERVIEW

## 3.5mm Straight Plates

- Available in 4 to 16 hole configurations (54-179mm)
- Locking and dynamic compression holes
- K-wire holes provide multiple options for provisional fixation
- Low-profile design minimizes soft tissue irritation and allows for submuscular implantation
- Non-locking plates available in a separate module



## One Third Tubular Plates

- Available in 2 to 14 hole configurations (24-168mm)
- Accommodate locking, non-locking, cancellous screws, and suture buttons up to 6.5mm in diameter
- K-wire holes provide multiple options for provisional fixation
- Non-locking plates available



## Reconstruction Plates

- Available in 4 to 16 hole configurations (46-190mm)
- K-wire holes provide multiple options for provisional fixation
- Optimal design for in-plane, out-of-plane, and twist contouring
- Non-locking plates available



## T-Plates

- Available in 3 head hole and 3 or 5 shaft hole configurations (47-67mm)
- Available in 4 head hole and 4 or 6 shaft hole configurations (57-77mm)
- K-wire holes provide multiple options for provisional fixation
- Non-locking plates available



*All implants are available in stainless steel and titanium.*

# IMPLANT OVERVIEW

## 2.5mm Non-Locking Screws

- Universally accepted in all plates
- Offered in lengths from 8-70mm



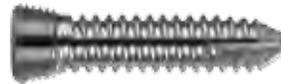
## 3.5mm Non-Locking Screws

- Universally accepted in all plates
- Offered in lengths from 8-100mm



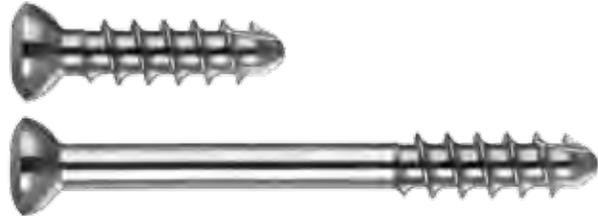
## 3.5mm Locking Screws

- Accepted in all threaded holes
- Offered in lengths from 8-60mm



## 4.0mm Cancellous Screws

- Universally accepted in all plates
- Fully threaded screws from 8-70mm
- Partially threaded screws from 30-70mm



*All implants are available in stainless steel and titanium.*

## SURGICAL TECHNIQUE

# ANTHEM™

## Small Fragment Fracture System

Refer to the package insert (also printed in the back of this manual) for important information on the intended use/indications, device description, contraindications, precautions, warnings, and potential risks associated with this system.

### STEP 1 PREOPERATIVE PLANNING

Assess the fracture using preoperative radiographs. Estimate the appropriate length and location of screws and proper plate type, plate position, and screw placement.

### STEP 2 APPROACH AND FRACTURE REDUCTION

Place the patient in the desired operative position. Create an incision to access the fracture site. Reduce the fracture using the appropriate reduction method for the fracture type. Ensure that bone length, alignment, and rotation are properly restored. Joint fractures often require anatomic reduction while functional reduction is usually sufficient for diaphyseal and meta-diaphyseal fractures.

Once reduction is achieved, **Point-to-Point Reduction Forceps** or **K-wires** may be used to provisionally hold the bone fragments in place. Confirm reduction under fluoroscopy.



Fracture reduction

# APPROACH AND FRACTURE REDUCTION (Cont'd)

## Lag Screw Placement

Lag screw fixation may be useful for interfragmentary compression across the fracture prior to plate placement.

For successful compression, the screw threads must engage in the far cortex only. If the screw threads engage both cortices, compression is prevented. Non-locking screws (2.5mm and 3.5mm) and cancellous screws (4.0mm) may be used as lag screws.

### 2.5mm Non-Locking Lag Screw

With the fracture reduced, drill the near cortex using the **2.5mm Drill Bit** and the **2.5mm Soft Tissue Protector**. Insert the **2.5/1.8mm Drill Sleeve** into the glide hole. Drill the far cortex using the **1.8mm Drill Bit**. Measure hole depth using the **Depth Gauge**. Select and place the desired 2.5mm Non-Locking Screw using the **T15 Driver** with the **Quick Connect Handle**.

### 3.5mm Non-Locking Lag Screw

With the fracture reduced, drill the near cortex using the **3.5mm Drill Bit** and the **3.5mm Soft Tissue Protector**. Insert the **3.5/2.7mm Drill Sleeve** into the glide hole. Drill the far cortex using the **2.7mm Drill Bit**. Measure hole depth using the Depth Gauge. Select and place the desired 3.5mm Non-Locking Screw using the T15 Driver with handle.



Drilling glide hole



Drilling far cortex with drill sleeve



Measuring depth

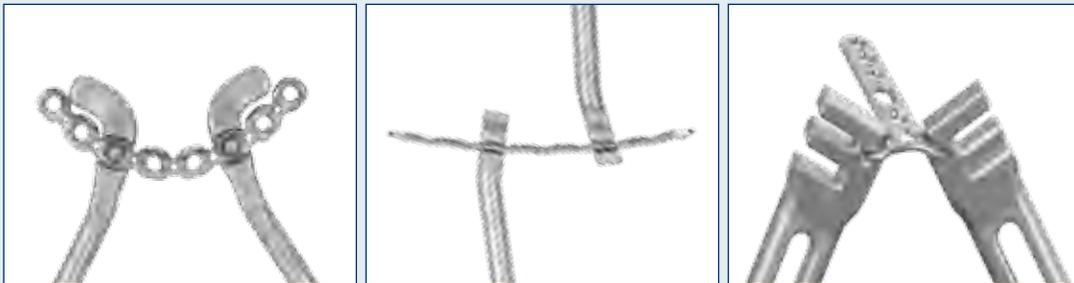


Lag screw placement

Select the plate that best accommodates patient anatomy and fracture pattern. If needed, contour the selected plate to the bone. **Bending Templates** are available for 7, 9, and 12 hole plates to aid in plate contouring.

### USING THE BENDING INSTRUMENTS

**Bending Irons** feature multiple slots for in-plane, out-of-plane, and rotational contouring. **Reconstruction Plates** feature cutouts for in-plane bending.



The **Universal Bending Clamp** provides additional options for plate contouring. Out-of-plane bending is achieved using the jaws of the clamp, while posts on each side of the clamp allow for broad and acute in-plane bending.



## STEP

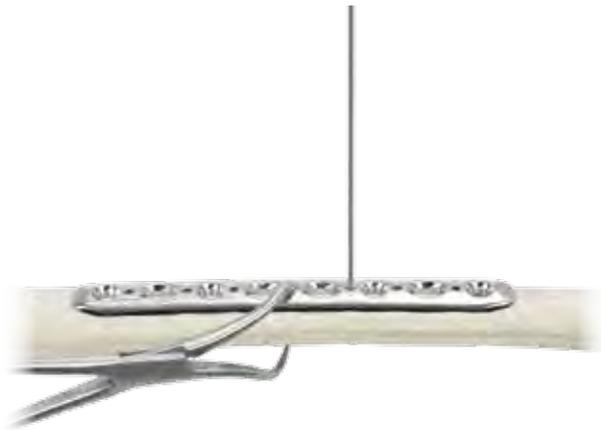
## 4

# PLATE POSITIONING

Position the selected plate on the bone. The plate may be provisionally held with **1.6mm K-wires**, **1.6mm Plate Holding K-wires**, or Point-to-Point Reduction Forceps through K-wire holes. Place Plate Holding K-wires into K-wire holes or any screw hole for provisional fixation.

The **Plate Reduction Instrument** is available to provisionally compress the plate to the bone. Attach the device to the drill. Carefully drill the reduction instrument through a screw hole and into the near cortex. Disconnect the drill from the instrument and spin the thumbwheel clockwise until it contacts the plate. Continue spinning clockwise until the desired reduction is achieved.

Confirm reduction and plate placement using fluoroscopy.



Provisional fixation using Point-to-Point Reduction Forceps and K-wire



Compressing using Plate Reduction Device and Plate Holding K-wire



### THREADED PLATE HOLDER

The **Threaded Plate Holder** can be used in any threaded hole to provisionally position the plate on the bone.



## STEP

## 5

# SCREW INSERTION

Determine the appropriate screw type (locking, non-locking, cancellous) and size for fixation. A combination of screw types and diameters may be used. Select the appropriate drill for the selected screw type and diameter. Drill a hole through the screw hole. The Threaded Drill Guide or the Soft Tissue Protector may be used.

### 2.5mm Non-Locking Screws

All plates accept 2.5mm Non-Locking Screws through any screw hole.

Drill to the desired depth with the 1.8mm Drill Bit and the 2.5mm Soft Tissue Protector. Measure hole depth using the Depth Gauge. Use the T15 Driver or **Screw Holding Forceps** to select the desired screw. Verify screw length and diameter using the gauges within the screw module. Using the T15 Driver, insert the screw into the desired hole with the Quick Connect Handle. A power drill with a torque limiting adapter may be used if desired.



Pre-drilling



Measuring hole depth



Inserting the screw

### 3.5mm Non-Locking and 4.0mm Cancellous Screws

All plates accept 3.5mm Non-Locking and 4.0mm Cancellous Screws through any screw hole.  
*Threaded holes in 3.5mm plates do not accept 4.0mm Cancellous Screws.*

Pre-drill to the desired depth using the 2.7mm Drill Bit and the 3.5mm Soft Tissue Protector. Measure hole depth using the Depth Gauge. Use the T15 Driver or Screw Holding Forceps to select the desired screw. Verify screw length and diameter using the gauges within the screw module. Using the T5 Driver, insert the screw into the desired hole with the Quick Connect Handle. A power drill with a torque limiting adapter may be used if desired.



Pre-drilling



Measuring hole depth



Inserting the screw

# SCREW INSERTION (Cont'd)

## CALIBRATED DRILL BIT

The **2.7mm Calibrated Drill Bit** may be used to measure hole depth from the end of the **3.5mm Soft Tissue Protector** or the **3.5mm Threaded Drill Guide**. Only lengths 20mm or greater can be measured using the drill bit.



## Dynamic Compression

Dynamic compression of the fracture may be achieved by eccentrically placing a Non-Locking or Cancellous Screw through an oblong screw hole. All 2.5mm Non-Locking, 3.5mm Non-Locking, and 4.0mm Cancellous Screws may be used for dynamic compression. If compression is not desired, drill the hole in a neutral position.

Place the Non-Locking or Cancellous Screw on one side of the fracture. Select an oblong hole on the opposite side of the fracture line. Insert the 2.5mm or the 3.5mm Soft Tissue Protector into the oblong hole with no downward pressure. Place the Soft Tissue Protector eccentrically in the oblong hole.

Drill to the desired depth with the selected drill. Measure hole depth using the Depth Gauge or Calibrated Drill Bit. Use the T15 Driver or Screw Holding Forceps to select the desired screw. Verify screw length and diameter using the gauges within the screw module. Using the T15 Driver, insert the screw into the desired hole with the Quick Connect Handle. A power drill with a torque limiting adapter may be used if desired.



Dynamic compression

### 3.5mm Locking Screws

Locking screws may be inserted into round holes in the locking plates. Ensure the plate is in final position before placing any locking screws. Thread the **2.7mm Threaded Drill Guide** into the selected screw hole.

Drill to the desired depth through the center of the drill guide and screw hole perpendicular to the plate, using the 2.7mm Drill Bit. Remove the Drill Guide and measure hole depth using the Depth Gauge. Select and place the corresponding 3.5mm Locking Screw using the T15 Driver and Quick Connect Handle.



Drilling through threaded drill guide



Measuring hole depth



Inserting screw



#### REMOVING THREADED DRILL GUIDES

The 2.7mm Threaded Drill Guide may be inserted and removed using the T15 Driver.



# SCREW INSERTION (Cont'd)

## Verifying Locking Screw Trajectories

Locking screw trajectories may be verified prior to placing the screws if desired. Place the **1.6mm K-Wire Sleeve Insert** into the 2.7mm Threaded Drill Guide. Drive the 1.6mm K-wire through the sleeve to the desired depth and confirm using fluoroscopy. The K-wire indicates the position and trajectory of the locking screw.

To measure depth, slide the **K-wire Measuring Device** over the k-wire until it rests on the 1.6mm K-wire Sleeve Insert. The corresponding screw length is indicated by the end of the K-wire. Remove the measuring device, K-wire, sleeve insert, and drill guide and continue placing locking screws.



Placing K-wire sleeve insert



Inserting K-wire



Using K-wire Measuring Device

STEP

6

## VERIFY PLACEMENT

Using fluoroscopy and direct visualization, confirm screw placement, screw trajectories, plate position, and reduction.



## OPTIONAL: REMOVAL

Unlock all screws from the plate with the non-self-retaining driver but do not remove the locking screws. This prevents simultaneous rotation of the plate during removal. Remove all locking, non-locking, and cancellous screws using the non-self-retaining driver. Once all screws are removed, the plate may be removed.

# ANTHEM™ SS Small Fragment IMPLANT AND INSTRUMENT SET 9179.9001

## Implants

PART NO.	DESCRIPTION	QTY
2179.3506	ANTHEM™ 3.5mm Straight Plate, 6 hole, 75mm, SS	2
2179.3507	ANTHEM™ 3.5mm Straight Plate, 7 hole, 85mm, SS	2
2179.3509	ANTHEM™ 3.5mm Straight Plate, 9 hole, 111mm, SS	2
2179.3510	ANTHEM™ 3.5mm Straight Plate, 10 hole, 122mm, SS	2
2179.3512	ANTHEM™ 3.5mm Straight Plate, 12 hole, 143mm, SS	2
2179.3514	ANTHEM™ 3.5mm Straight Plate, 14 hole, 169mm, SS	2
2179.3516	ANTHEM™ 3.5mm Straight Plate, 16 hole, 179mm, SS	2
2179.1305	ANTHEM™ One Third Tubular Plate, 5 hole, 60mm, SS	2
2179.1306	ANTHEM™ One Third Tubular Plate, 6 hole, 72mm, SS	2
2179.1307	ANTHEM™ One Third Tubular Plate, 7 hole, 84mm, SS	2
2179.1308	ANTHEM™ One Third Tubular Plate, 8 hole, 96mm, SS	2
2179.1310	ANTHEM™ One Third Tubular Plate, 10 hole, 120mm, SS	2
2179.1312	ANTHEM™ One Third Tubular Plate, 12 hole, 144mm, SS	2
2179.0004	ANTHEM™ Reconstruction Plate, 4 hole, 46mm, SS	2
2179.0006	ANTHEM™ Reconstruction Plate, 6 hole, 70mm, SS	2
2179.0008	ANTHEM™ Reconstruction Plate, 8 hole, 94mm, SS	2
2179.0010	ANTHEM™ Reconstruction Plate, 10 hole, 118mm, SS	2
2179.0012	ANTHEM™ Reconstruction Plate, 12 hole, 142mm, SS	2
2179.0014	ANTHEM™ Reconstruction Plate, 14 hole, 166mm, SS	2
2179.0303	ANTHEM™ T-Plate, 3 Hole Head, 3 Hole Shaft, 47mm, SS	2
2179.0305	ANTHEM™ T-Plate, 3 Hole Head, 3 Hole Shaft, 67mm, SS	2
2179.0404	ANTHEM™ T-Plate, 4 Hole Head, 4 Hole Shaft, 57mm, SS	2
2179.0406	ANTHEM™ T-Plate, 4 Hole Head, 6 Hole Shaft, 77mm, SS	2

## ADDITIONALLY AVAILABLE

2179.3504	ANTHEM™ 3.5mm Straight Plate, 4 hole, 54mm, SS
2179.3505	ANTHEM™ 3.5mm Straight Plate, 5 hole, 64mm, SS
2179.3508	ANTHEM™ 3.5mm Straight Plate, 8 hole, 101mm, SS
2179.1302	ANTHEM™ One Third Tubular Plate, 2 hole, 24mm, SS
2179.1303	ANTHEM™ One Third Tubular Plate, 3 hole, 36mm, SS
2179.1304	ANTHEM™ One Third Tubular Plate, 4 hole, 48mm, SS
2179.1309	ANTHEM™ One Third Tubular Plate, 9 hole, 108mm, SS
2179.1314	ANTHEM™ One Third Tubular Plate, 14 hole, 168mm, SS
2179.0005	ANTHEM™ Reconstruction Plate, 5 hole, 58mm, SS
2179.0007	ANTHEM™ Reconstruction Plate, 7 hole, 82mm, SS
2179.0009	ANTHEM™ Reconstruction Plate, 9 hole, 106mm, SS
2179.0016	ANTHEM™ Reconstruction Plate, 16 hole, 190mm, SS

# ANTHEM™ SS Small Fragment IMPLANT AND INSTRUMENT SET 9179.9001 (Cont'd)

## Implants

PART NO.	DESCRIPTION	QTY
6179.1113	1.25mm K-Wire, Trocar Tip, 150mm	10
6179.1116	1.6mm K-Wire, Trocar Tip, 150mm	10
6179.1120	2.0mm K-Wire, Trocar Tip, 150mm	10
6179.1216	1.6mm Plate Holding K-Wire, Threaded Trocar Tip, 75mm	5
6179.2000	Screw Holding Forceps	1
6179.2001	Lobster Claw Reduction Forceps, Ratcheting	2
6179.2003	Point-to-Point Reduction Forceps, Narrow, Ratcheting	1
6179.2004	Point-to-Point Reduction Forceps, Wide, Ratcheting	1
6179.2005	Verbrugge Clamp	1
6179.2007	Wire Bending Pliers	1
6179.3135	3.5mm Soft Tissue Protector	1
6179.3125	2.5mm Soft Tissue Protector	1
6179.3137	3.5/2.7mm Drill Sleeve	1
6179.3128	2.5/1.8mm Drill Sleeve	1
6179.3227	2.7mm Threaded Drill Guide	4
6179.3316	1.6mm K-Wire Sleeve Insert	2
6179.5018	1.8mm Drill Bit, 140mm, AO Quick Connect	4
6179.5025	2.5mm Drill Bit, 110mm, AO Quick Connect	4
6179.5027	2.7mm Drill Bit, 125mm, AO Quick Connect	4
6179.5028	2.7mm Calibrated Drill Bit, 180mm, AO Quick Connect	2
6179.5035	3.5mm Drill Bit, 110mm, AO Quick Connect	4
6179.5125	2.5mm Non-Locking Tap	1
6179.5135	3.5mm Non-Locking Tap	1
6179.5140	4.0mm Cancellous Tap	1
6179.6315	T15 Screwdriver, SR	1
6179.6115	T15 Driver, Non-Self Retaining, 100mm, AO Quick Connect	2
6179.6015	T15 Driver, SR, 100mm, AO Quick Connect	4
6179.7000	Countersink, AO Quick Connect	1
6179.7013	Medium Handle, Ratcheting, Cannulated, AO Quick Connect	2
6179.7002	Bending Iron	1
6179.7003	Bending Iron, Inverted	1
6179.7005	Universal Bending Clamp	1
6179.7007	Threaded Plate Holder	1
6179.7009	Bending Template, 7 Hole	1
6179.7010	Bending Template, 9 Hole	1
6179.7011	Bending Template, 12 Hole	1
6179.7025	Dental Pick, Curved Tip, Large Handle	2

# ANTHEM™ SS Small Fragment IMPLANT AND INSTRUMENT SET 9179.9001 (Cont'd)

## Implants

PART NO.	DESCRIPTION	QTY
6179.7014	Radiolucent Hohmann Retractor, 8mm	2
6179.7015	Radiolucent Hohmann Retractor, 16mm	2
6179.7016	Hohmann Retractor, 8mm	2
6179.7017	Hohmann Retractor, 15mm	2
6179.7018	Torque Limiting Attachment, 1.5Nm, AO Quick Connect	1
6179.7019	Periosteal Elevator, Curved Round Tip, 6mm	1
6179.7020	Depth Gauge, 60mm	1
6179.7021	K-Wire Measuring Device	1
6179.7031	Depth Gauge, 110mm	1
6179.7023	Plate Reduction Instrument, AO Quick Connect	1
6179.7024	Screw Retaining Sleeve	1
6179.7026	Easy-Out Extraction Driver, AO Quick Connect	2
6179.7027	Rescue Reamer, AO Quick Connect	2
6171.0002	Stabilizing Radiolucent Weitlaners 3x4, 8", Sharp Tip	1
6171.0001	Stabilizing Radiolucent Weitlaners 2x3, 5", Sharp Tip	1
6171.7008	Malleable Wire Replacement	5
9179.0001	ANTHEM™ SS Small Fragment Plating System Graphic Case	

## ADDITIONALLY AVAILABLE

6179.7001	Medium Handle, Cannulated, AO Quick Connect
6179.7029	Reduction Spreader

# ANTHEM™ Ti Small Fragment IMPLANT AND INSTRUMENT SET 9179.9002

## Implants

PART NO.	DESCRIPTION	QTY
1179.3506	ANTHEM™ 3.5mm Straight Plate, 6 Hole, 75mm, Ti	2
1179.3507	ANTHEM™ 3.5mm Straight Plate, 7 Hole, 85mm, Ti	2
1179.3509	ANTHEM™ 3.5mm Straight Plate, 9 Hole, 111mm, Ti	2
1179.3510	ANTHEM™ 3.5mm Straight Plate, 10 Hole, 122mm, Ti	2
1179.3512	ANTHEM™ 3.5mm Straight Plate, 12 Hole, 143mm, Ti	2
1179.3514	ANTHEM™ 3.5mm Straight Plate, 14 Hole, 169mm, Ti	2
1179.3516	ANTHEM™ 3.5mm Straight Plate, 16 Hole, 179mm, Ti	2
1179.1305	ANTHEM™ One Third Tubular Plate, 5 Hole, 60mm, Ti	2
1179.1306	ANTHEM™ One Third Tubular Plate, 6 Hole, 72mm, Ti	2
1179.1307	ANTHEM™ One Third Tubular Plate, 7 Hole, 84mm, Ti	2
1179.1308	ANTHEM™ One Third Tubular Plate, 8 Hole, 96mm, Ti	2
1179.1310	ANTHEM™ One Third Tubular Plate, 10 Hole, 120mm, Ti	2
1179.1312	ANTHEM™ One Third Tubular Plate, 12 Hole, 144mm, Ti	2
1179.0004	ANTHEM™ Reconstruction Plate, 4 Hole, 46mm, Ti	2
1179.0006	ANTHEM™ Reconstruction Plate, 6 Hole, 70mm, Ti	2
1179.0008	ANTHEM™ Reconstruction Plate, 8 Hole, 94mm, Ti	2
1179.0010	ANTHEM™ Reconstruction Plate, 10 Hole, 118mm, Ti	2
1179.0012	ANTHEM™ Reconstruction Plate, 12 Hole, 142mm, Ti	2
1179.0014	ANTHEM™ Reconstruction Plate, 14 Hole, 166mm, Ti	2
1179.0303	ANTHEM™ T-Plate, 3 Hole head, 3 Hole shaft, 47mm, Ti	2
1179.0305	ANTHEM™ T-Plate, 3 Hole head, 5 Hole shaft, 67mm, Ti	2
1179.0404	ANTHEM™ T-Plate, 4 Hole head, 4 Hole shaft, 57mm, Ti	2
1179.0406	ANTHEM™ T-Plate, 4 Hole head, 6 Hole shaft, 77mm, Ti	2

## ADDITIONALLY AVAILABLE

2179.3504	ANTHEM™ 3.5mm Straight Plate, 4 Hole, 54mm, SS
2179.3505	ANTHEM™ 3.5mm Straight Plate, 5 Hole, 64mm, SS
2179.3508	ANTHEM™ 3.5mm Straight Plate, 8 Hole, 101mm, SS
2179.1302	ANTHEM™ One Third Tubular Plate, 2 Hole, 24mm, SS
2179.1303	ANTHEM™ One Third Tubular Plate, 3 Hole, 36mm, SS
2179.1304	ANTHEM™ One Third Tubular Plate, 4 Hole, 48mm, SS
2179.1309	ANTHEM™ One Third Tubular Plate, 9 Hole, 108mm, SS
2179.1314	ANTHEM™ One Third Tubular Plate, 14 Hole, 168mm, SS
2179.0005	ANTHEM™ Reconstruction Plate, 5 Hole, 58mm, SS
2179.0007	ANTHEM™ Reconstruction Plate, 7 Hole, 82mm, SS
2179.0009	ANTHEM™ Reconstruction Plate, 9 Hole, 106mm, SS
2179.0016	ANTHEM™ Reconstruction Plate, 16 Hole, 190mm, SS

# ANTHEM™ Ti Small Fragment IMPLANT AND INSTRUMENT SET 9179.9002 (Cont'd)

## Instruments

PART NO.	DESCRIPTION	QTY
6179.1113	1.25mm K-Wire, Trocar Tip, 150mm	10
6179.1116	1.6mm K-Wire, Trocar Tip, 150mm	10
6179.1120	2.0mm K-Wire, Trocar Tip, 150mm	10
6179.1216	1.6mm Plate Holding K-Wire, Threaded Trocar Tip, 75mm	5
6179.2000	Screw Holding Forceps	1
6179.2001	Lobster Claw Reduction Forceps, Ratcheting	2
6179.2003	Point to Point Reduction Forceps, Narrow, Ratcheting	1
6179.2004	Point to Point Reduction Forceps, Wide, Ratcheting	1
6179.2005	Verbrugge Clamp	1
6179.2007	Wire Bending Pliers	1
6179.3135	3.5mm Soft Tissue Protector	1
6179.3125	2.5mm Soft Tissue Protector	1
6179.3137	3.5/2.7mm Drill Sleeve	1
6179.3128	2.5/1.8mm Drill Sleeve	1
6179.3227	2.7mm Threaded Drill Guide	4
6179.3316	1.6mm K-Wire Sleeve Insert	2
6179.5018	1.8mm Drill Bit, 140mm, AO Quick Connect	4
6179.5025	2.5mm Drill Bit, 110mm, AO Quick Connect	4
6179.5027	2.7mm Drill Bit, 125mm, AO Quick Connect	4
6179.5028	2.7mm Calibrated Drill Bit, 180mm, AO Quick Connect	2
6179.5035	3.5mm Drill Bit, 110mm, AO Quick Connect	4
6179.5125	2.5mm Non-Locking Tap	1
6179.5135	3.5mm Non-Locking Tap	1
6179.5140	4.0mm Cancellous Tap	1
6179.6315	T15 Screwdriver, SR	1
6179.6115	T15 Driver, Non-Self Retaining, 100mm, AO Quick Connect	2
6179.6015	T15 Driver, SR, 100mm, AO Quick Connect	4
6179.7000	Countersink, AO Quick Connect	1
6179.7013	Medium Handle, Ratcheting, Cannulated, AO Quick Connect	2
6179.7002	Bending Iron	1
6179.7003	Bending Iron, Inverted	1
6179.7005	Universal Bending Clamp	1
6179.7007	Threaded Plate Holder	1
6179.7009	Bending Template, 7 hole	1
6179.7010	Bending Template, 9 hole	1
6179.7011	Bending Template, 12 hole	1
6179.7025	Dental Pick, Curved Tip, Large Handle	2

# ANTHEM™ Ti Small Fragment IMPLANT AND INSTRUMENT SET 9179.9002 (Cont'd)

## Instruments

PART NO.	DESCRIPTION	QTY
6179.7014	Radiolucent Hohmann Retractor, 8mm	2
6179.7015	Radiolucent Hohmann Retractor, 16mm	2
6179.7016	Hohmann Retractor, 8mm	2
6179.7017	Hohmann Retractor, 15mm	2
6179.7018	Torque Limiting Attachment, 1.5Nm, AO Quick Connect	1
6179.7019	Periosteal Elevator, Curved Round Tip, 6mm	1
6179.7020	Depth Gauge, 60mm	1
6179.7021	K-Wire Measuring Device	1
6179.7031	Depth Gauge, 110mm	1
6179.7023	Plate Reduction Device, AO Quick Connect	1
6179.7024	Screw Retaining Sleeve	1
6179.7026	Easy-Out Extraction Driver, AO Quick Connect	2
6179.702	Rescue Reamer, AO Quick Connect	2
6171.0002	Stabilizing Radiolucent Weitlaners 3x4, 8", Sharp Tip	1
6171.0001	Stabilizing Radiolucent Weitlaners 2x3, 5", Sharp Tip	1
6171.7008	Malleable Wire Replacement	5
9179.0002	ANTHEM™ Ti Small Fragment Plating System Graphic Case	

## ADDITIONALLY AVAILABLE

6179.7001	Medium Handle, Cannulated, AO Quick Connect
6179.7029	Reduction Spreader

# ANTHEM™ SS Small Fragment NON-LOCKING PLATE SET 9179.9003

PART NO.	DESCRIPTION	QTY
2179.3536	ANTHEM™ 3.5mm Straight Plate, Non-Locking, 6 Hole, 85mm, SS	2
2179.3537	ANTHEM™ 3.5mm Straight Plate, Non-Locking, 7 Hole, 98mm, SS	2
2179.3539	ANTHEM™ 3.5mm Straight Plate, Non-Locking, 9 Hole, 124mm, SS	2
2179.3540	ANTHEM™ 3.5mm Straight Plate, Non-Locking, 10 Hole, 137mm, SS	2
2179.3542	ANTHEM™ 3.5mm Straight Plate, Non-Locking, 12 Hole, 163mm, SS	2
2179.3544	ANTHEM™ 3.5mm Straight Plate, Non-Locking, 14 Hole, 189mm, SS	2
2179.3546	ANTHEM™ 3.5mm Straight Plate, Non-Locking, 16 Hole, 163mm, SS	2
2179.1325	ANTHEM™ One Third Tubular Plate, Non-Locking, 5 Hole, 60mm, SS	2
2179.1326	ANTHEM™ One Third Tubular Plate, Non-Locking, 6 Hole, 72mm, SS	2
2179.1327	ANTHEM™ One Third Tubular Plate, Non-Locking, 7 Hole, 84mm, SS	2
2179.1328	ANTHEM™ One Third Tubular Plate, Non-Locking, 8 Hole, 96mm, SS	2
2179.1330	ANTHEM™ One Third Tubular Plate, Non-Locking, 10 Hole, 120mm, SS	2
2179.1332	ANTHEM™ One Third Tubular Plate, Non-Locking, 12 Hole, 144mm, SS	2
2179.0034	ANTHEM™ Reconstruction Plate, Non-Locking, 4 Hole, 51mm, SS	2
2179.0036	ANTHEM™ Reconstruction Plate, Non-Locking, 6 Hole, 77mm, SS	2
2179.0038	ANTHEM™ Reconstruction Plate, Non-Locking, 8 Hole, 103mm, SS	2
2179.0040	ANTHEM™ Reconstruction Plate, Non-Locking, 10 Hole, 129mm, SS	2
2179.0042	ANTHEM™ Reconstruction Plate, Non-Locking, 12 Hole, 155mm, SS	2
2179.0044	ANTHEM™ Reconstruction Plate, Non-Locking, 14 Hole, 181mm, SS	2
2179.0313	ANTHEM™ T-Plate, Non-Locking, 3 Hole head, 3 Hole shaft, 47mm, SS	2
2179.0315	ANTHEM™ T-Plate, Non-Locking, 3 Hole head, 5 Hole shaft, 67mm, SS	2
2179.0414	ANTHEM™ T-Plate, Non-Locking, 4 Hole head, 4 Hole shaft, 57mm, SS	2
2179.0416	ANTHEM™ T-Plate, Non-Locking, 4 Hole head, 6 Hole shaft, 77mm, SS	2
9179.0003	ANTHEM™ SS Small Fragment Non-Locking Plate Module	

## ADDITIONALLY AVAILABLE

2179.3534	ANTHEM™ 3.5mm Straight Plate, Non-Locking, 4 Hole, 59mm, SS
2179.3535	ANTHEM™ 3.5mm Straight Plate, Non-Locking, 5 Hole, 72mm, SS
2179.3538	ANTHEM™ 3.5mm Straight Plate, Non-Locking, 8 Hole, 111mm, SS
2179.1322	ANTHEM™ One Third Tubular Plate, Non-Locking, 2 Hole, 24mm, SS
2179.1323	ANTHEM™ One Third Tubular Plate, Non-Locking, 3 Hole, 36mm, SS
2179.1324	ANTHEM™ One Third Tubular Plate, Non-Locking, 4 Hole, 48mm, SS
2179.1329	ANTHEM™ One Third Tubular Plate, Non-Locking, 9 Hole, 108mm, SS
2179.1334	ANTHEM™ One Third Tubular Plate, Non-Locking, 14 Hole, 168mm, SS
2179.0035	ANTHEM™ Reconstruction Plate, Non-Locking, 5 Hole, 64mm, SS
2179.0037	ANTHEM™ Reconstruction Plate, Non-Locking, 7 Hole, 90mm, SS
2179.0039	ANTHEM™ Reconstruction Plate, Non-Locking, 9 Hole, 116mm, SS
2179.0046	ANTHEM™ Reconstruction Plate, Non-Locking, 16 Hole, 207mm, SS

# ANTHEM™ Ti Small Fragment NON-LOCKING PLATE SET 9179.9004

PART NO.	DESCRIPTION	QTY
1179.3536	ANTHEM™ 3.5mm Straight Plate, Non-Locking, 6 Hole, 85mm, Ti	2
1179.3537	ANTHEM™ 3.5mm Straight Plate, Non-Locking, 7 Hole, 98mm, Ti	2
1179.3539	ANTHEM™ 3.5mm Straight Plate, Non-Locking, 9 Hole, 124mm, Ti	2
1179.3540	ANTHEM™ 3.5mm Straight Plate, Non-Locking, 10 Hole, 137mm, Ti	2
1179.3542	ANTHEM™ 3.5mm Straight Plate, Non-Locking, 12 Hole, 163mm, Ti	2
1179.3544	ANTHEM™ 3.5mm Straight Plate, Non-Locking, 14 Hole, 189mm, Ti	2
1179.3546	ANTHEM™ 3.5mm Straight Plate, Non-Locking, 16 Hole, 163mm, Ti	2
1179.1325	ANTHEM™ One Third Tubular Plate, Non-Locking, 5 Hole, 60mm, Ti	2
1179.1326	ANTHEM™ One Third Tubular Plate, Non-Locking, 6 Hole, 72mm, Ti	2
1179.1327	ANTHEM™ One Third Tubular Plate, Non-Locking, 7 Hole, 84mm, Ti	2
1179.1328	ANTHEM™ One Third Tubular Plate, Non-Locking, 8 Hole, 96mm, Ti	2
1179.1330	ANTHEM™ One Third Tubular Plate, Non-Locking, 10 Hole, 120mm, Ti	2
1179.1332	ANTHEM™ One Third Tubular Plate, Non-Locking, 12 Hole, 144mm, Ti	2
1179.0034	ANTHEM™ Reconstruction Plate, Non-Locking, 4 Hole, 51mm, Ti	2
1179.0036	ANTHEM™ Reconstruction Plate, Non-Locking, 6 Hole, 77mm, Ti	2
1179.0038	ANTHEM™ Reconstruction Plate, Non-Locking, 8 Hole, 103mm, Ti	2
1179.0040	ANTHEM™ Reconstruction Plate, Non-Locking, 10 Hole, 129mm, Ti	2
1179.0042	ANTHEM™ Reconstruction Plate, Non-Locking, 12 Hole, 155mm, Ti	2
1179.0044	ANTHEM™ Reconstruction Plate, Non-Locking, 14 Hole, 181mm, Ti	2
1179.0313	ANTHEM™ T-Plate, Non-Locking, 3 Hole head, 3 Hole shaft, 47mm, Ti	2
1179.0315	ANTHEM™ T-Plate, Non-Locking, 3 Hole head, 5 Hole shaft, 67mm, Ti	2
1179.0414	ANTHEM™ T-Plate, Non-Locking, 4 Hole head, 4 Hole shaft, 57mm, Ti	2
1179.0416	ANTHEM™ T-Plate, Non-Locking, 4 Hole head, 6 Hole shaft, 77mm, Ti	2
9179.0004	ANTHEM™ Ti Small Fragment Plating System Graphic Case	

## ADDITIONALLY AVAILABLE

1179.3534	ANTHEM™ 3.5mm Straight Plate, Non-Locking, 4 Hole, 59mm
1179.3535	ANTHEM™ 3.5mm Straight Plate, Non-Locking, 5 Hole, 72mm, Ti
1179.3538	ANTHEM™ 3.5mm Straight Plate, Non-Locking, 8 Hole, 111mm, Ti
1179.1322	ANTHEM™ One Third Tubular Plate, Non-Locking, 2 Hole, 24mm, Ti
1179.1323	ANTHEM™ One Third Tubular Plate, Non-Locking, 3 Hole, 36mm, Ti
1179.1324	ANTHEM™ One Third Tubular Plate, Non-Locking, 4 Hole, 48mm, Ti
1179.1329	ANTHEM™ One Third Tubular Plate, Non-Locking, 9 Hole, 108mm, Ti
1179.1334	ANTHEM™ One Third Tubular Plate, Non-Locking, 14 Hole, 168mm, Ti
1179.0035	ANTHEM™ Reconstruction Plate, Non-Locking, 5 Hole, 64mm, Ti
1179.0037	ANTHEM™ Reconstruction Plate, Non-Locking, 7 Hole, 90mm, Ti
1179.0039	ANTHEM™ Reconstruction Plate, Non-Locking, 9 Hole, 116mm, Ti
1179.0046	ANTHEM™ Reconstruction Plate, Non-Locking, 16 Hole, 207mm, Ti

# ANTHEM™ SS Small Fragment SCREW SET 9179.9005

PART NO.	DESCRIPTION	QTY
2179.2508	Non-Locking Screw, 2.5x8mm, SS	4
2179.2510	Non-Locking Screw, 2.5x10mm, SS	4
2179.2512	Non-Locking Screw, 2.5x12mm, SS	4
2179.2514	Non-Locking Screw, 2.5x14mm, SS	4
2179.2516	Non-Locking Screw, 2.5x16mm, SS	4
2179.2518	Non-Locking Screw, 2.5x18mm, SS	4
2179.2520	Non-Locking Screw, 2.5x20mm, SS	4
2179.2522	Non-Locking Screw, 2.5x22mm, SS	4
2179.2524	Non-Locking Screw, 2.5x24mm, SS	4
2179.2526	Non-Locking Screw, 2.5x26mm, SS	4
2179.2528	Non-Locking Screw, 2.5x28mm, SS	2
2179.2530	Non-Locking Screw, 2.5x30mm, SS	2
2179.2532	Non-Locking Screw, 2.5x32mm, SS	2
2179.2534	Non-Locking Screw, 2.5x34mm, SS	2
2179.2536	Non-Locking Screw, 2.5x36mm, SS	2
2179.2538	Non-Locking Screw, 2.5x38mm, SS	2
2179.2540	Non-Locking Screw, 2.5x40mm, SS	4
2179.2542	Non-Locking Screw, 2.5x42mm, SS	4
2179.2544	Non-Locking Screw, 2.5x44mm, SS	4
2179.2546	Non-Locking Screw, 2.5x46mm, SS	4
2179.2548	Non-Locking Screw, 2.5x48mm, SS	4
2179.2550	Non-Locking Screw, 2.5x50mm, SS	4
2179.2555	Non-Locking Screw, 2.5x55mm, SS	4
2179.2560	Non-Locking Screw, 2.5x60mm, SS	2
2179.2565	Non-Locking Screw, 2.5x65mm, SS	2
2179.2570	Non-Locking Screw, 2.5x70mm, SS	2

# ANTHEM™ SS Small Fragment SCREW SET 9179.9005 (Cont'd)

PART NO.	DESCRIPTION	QTY
2179.3008	Non-Locking Screw, 3.5x8mm, SS	6
2179.3010	Non-Locking Screw, 3.5x10mm, SS	6
2179.3012	Non-Locking Screw, 3.5x12mm, SS	6
2179.3014	Non-Locking Screw, 3.5x14mm, SS	6
2179.3016	Non-Locking Screw, 3.5x16mm, SS	6
2179.3018	Non-Locking Screw, 3.5x18mm, SS	6
2179.3020	Non-Locking Screw, 3.5x20mm, SS	6
2179.3022	Non-Locking Screw, 3.5x22mm, SS	6
2179.3024	Non-Locking Screw, 3.5x24mm, SS	6
2179.3026	Non-Locking Screw, 3.5x26mm, SS	6
2179.3028	Non-Locking Screw, 3.5x28mm, SS	6
2179.3030	Non-Locking Screw, 3.5x30mm, SS	6
2179.3032	Non-Locking Screw, 3.5x32mm, SS	6
2179.3034	Non-Locking Screw, 3.5x34mm, SS	6
2179.3036	Non-Locking Screw, 3.5x36mm, SS	6
2179.3038	Non-Locking Screw, 3.5x38mm, SS	6
2179.3040	Non-Locking Screw, 3.5x40mm, SS	6
2179.3042	Non-Locking Screw, 3.5x42mm, SS	6
2179.3044	Non-Locking Screw, 3.5x44mm, SS	6
2179.3046	Non-Locking Screw, 3.5x46mm, SS	6
2179.3048	Non-Locking Screw, 3.5x48mm, SS	6
2179.3050	Non-Locking Screw, 3.5x50mm, SS	6
2179.3052	Non-Locking Screw, 3.5x52mm, SS	6
2179.3054	Non-Locking Screw, 3.5x54mm, SS	6
2179.3056	Non-Locking Screw, 3.5x56mm, SS	6
2179.3058	Non-Locking Screw, 3.5x58mm, SS	6
2179.3060	Non-Locking Screw, 3.5x60mm, SS	6
2179.3065	Non-Locking Screw, 3.5x65mm, SS	2
2179.3070	Non-Locking Screw, 3.5x70mm, SS	2
2179.3075	Non-Locking Screw, 3.5x75mm, SS	2
2179.3080	Non-Locking Screw, 3.5x80mm, SS	2
2179.3090	Non-Locking Screw, 3.5x90mm, SS	2
2179.3100	Non-Locking Screw, 3.5x100mm, SS	2

# ANTHEM™ SS Small Fragment SCREW SET 9179.9005 (Cont'd)

PART NO.	DESCRIPTION	QTY
2179.5008	Locking Screw, 3.5x8mm, SS	8
2179.5010	Locking Screw, 3.5x10mm, SS	8
2179.5012	Locking Screw, 3.5x12mm, SS	8
2179.5014	Locking Screw, 3.5x14mm, SS	8
2179.5016	Locking Screw, 3.5x16mm, SS	8
2179.5018	Locking Screw, 3.5x18mm, SS	8
2179.5020	Locking Screw, 3.5x20mm, SS	8
2179.5022	Locking Screw, 3.5x22mm, SS	8
2179.5024	Locking Screw, 3.5x24mm, SS	8
2179.5026	Locking Screw, 3.5x26mm, SS	8
2179.5028	Locking Screw, 3.5x28mm, SS	8
2179.5030	Locking Screw, 3.5x30mm, SS	8
2179.5032	Locking Screw, 3.5x32mm, SS	8
2179.5034	Locking Screw, 3.5x34mm, SS	8
2179.5036	Locking Screw, 3.5x36mm, SS	8
2179.5038	Locking Screw, 3.5x38mm, SS	8
2179.5040	Locking Screw, 3.5x40mm, SS	8
2179.5042	Locking Screw, 3.5x42mm, SS	8
2179.5044	Locking Screw, 3.5x44mm, SS	8
2179.5046	Locking Screw, 3.5x46mm, SS	8
2179.5048	Locking Screw, 3.5x48mm, SS	4
2179.5050	Locking Screw, 3.5x50mm, SS	4
2179.5052	Locking Screw, 3.5x52mm, SS	4
2179.5054	Locking Screw, 3.5x54mm, SS	4
2179.5056	Locking Screw, 3.5x56mm, SS	4
2179.5058	Locking Screw, 3.5x58mm, SS	4
2179.5060	Locking Screw, 3.5x60mm, SS	4

# ANTHEM™ SS Small Fragment SCREW SET 9179.9005 (Cont'd)

PART NO.	DESCRIPTION	QTY
2179.4008	Cancellous Screw, 4.0x8mm, Fully Threaded, SS	3
2179.4010	Cancellous Screw, 4.0x10mm, Fully Threaded, SS	3
2179.4012	Cancellous Screw, 4.0x12mm, Fully Threaded, SS	3
2179.4014	Cancellous Screw, 4.0x14mm, Fully Threaded, SS	3
2179.4016	Cancellous Screw, 4.0x16mm, Fully Threaded, SS	3
2179.4018	Cancellous Screw, 4.0x18mm, Fully Threaded, SS	3
2179.4020	Cancellous Screw, 4.0x20mm, Fully Threaded, SS	3
2179.4022	Cancellous Screw, 4.0x22mm, Fully Threaded, SS	3
2179.4024	Cancellous Screw, 4.0x24mm, Fully Threaded, SS	3
2179.4026	Cancellous Screw, 4.0x26mm, Fully Threaded, SS	2
2179.4028	Cancellous Screw, 4.0x28mm, Fully Threaded, SS	2
2179.4030	Cancellous Screw, 4.0x30mm, Fully Threaded, SS	2
2179.4032	Cancellous Screw, 4.0x32mm, Fully Threaded, SS	2
2179.4034	Cancellous Screw, 4.0x34mm, Fully Threaded, SS	2
2179.4036	Cancellous Screw, 4.0x36mm, Fully Threaded, SS	2
2179.4038	Cancellous Screw, 4.0x38mm, Fully Threaded, SS	2
2179.4040	Cancellous Screw, 4.0x40mm, Fully Threaded, SS	2
2179.4045	Cancellous Screw, 4.0x45mm, Fully Threaded, SS	2
2179.4050	Cancellous Screw, 4.0x50mm, Fully Threaded, SS	2
2179.4055	Cancellous Screw, 4.0x55mm, Fully Threaded, SS	2
2179.4060	Cancellous Screw, 4.0x60mm, Fully Threaded, SS	2
2179.4065	Cancellous Screw, 4.0x65mm, Fully Threaded, SS	2
2179.4070	Cancellous Screw, 4.0x70mm, Fully Threaded, SS	2
2179.8030	Cancellous Screw, 4.0x30mm, Partially Threaded, SS	2
2179.8032	Cancellous Screw, 4.0x32mm, Partially Threaded, SS	2
2179.8034	Cancellous Screw, 4.0x34mm, Partially Threaded, SS	2
2179.8036	Cancellous Screw, 4.0x36mm, Partially Threaded, SS	2
2179.8038	Cancellous Screw, 4.0x38mm, Partially Threaded, SS	2
2179.8040	Cancellous Screw, 4.0x40mm, Partially Threaded, SS	2
2179.8045	Cancellous Screw, 4.0x45mm, Partially Threaded, SS	2
2179.8050	Cancellous Screw, 4.0x50mm, Partially Threaded, SS	2
2179.8055	Cancellous Screw, 4.0x55mm, Partially Threaded, SS	2
2179.8060	Cancellous Screw, 4.0x60mm, Partially Threaded, SS	2
2179.8065	Cancellous Screw, 4.0x65mm, Partially Threaded, SS	2
2179.8070	Cancellous Screw, 4.0x70mm, Partially Threaded, SS	2
2179.0003	7.0mm Washer, SS	6
2179.0002	9.0mm Washer, SS	6
9179.0005	ANTHEM™ Small Fragment Screw Module, SS	

# ANTHEM™ Ti Small Fragment SCREW SET 9179.9006

PART NO.	DESCRIPTION	QTY
1179.2508	Non-Locking Screw, 2.5x8mm, Ti	4
1179.2510	Non-Locking Screw, 2.5x10mm, Ti	4
1179.2512	Non-Locking Screw, 2.5x12mm, Ti	4
1179.2514	Non-Locking Screw, 2.5x14mm, Ti	4
1179.2516	Non-Locking Screw, 2.5x16mm, Ti	4
1179.2518	Non-Locking Screw, 2.5x18mm, Ti	4
1179.2520	Non-Locking Screw, 2.5x20mm, Ti	4
1179.2522	Non-Locking Screw, 2.5x22mm, Ti	4
1179.2524	Non-Locking Screw, 2.5x24mm, Ti	4
1179.2526	Non-Locking Screw, 2.5x26mm, Ti	4
1179.2528	Non-Locking Screw, 2.5x28mm, Ti	2
1179.2530	Non-Locking Screw, 2.5x30mm, Ti	2
1179.2532	Non-Locking Screw, 2.5x32mm, Ti	2
1179.2534	Non-Locking Screw, 2.5x34mm, Ti	2
1179.2536	Non-Locking Screw, 2.5x36mm, Ti	2
1179.2538	Non-Locking Screw, 2.5x38mm, Ti	2
1179.2540	Non-Locking Screw, 2.5x40mm, Ti	4
1179.2542	Non-Locking Screw, 2.5x42mm, Ti	4
1179.2544	Non-Locking Screw, 2.5x44mm, Ti	4
1179.2546	Non-Locking Screw, 2.5x46mm, Ti	4
1179.2548	Non-Locking Screw, 2.5x48mm, Ti	4
1179.2550	Non-Locking Screw, 2.5x50mm, Ti	4
1179.2555	Non-Locking Screw, 2.5x55mm, Ti	4
1179.2560	Non-Locking Screw, 2.5x60mm, Ti	2
1179.2565	Non-Locking Screw, 2.5x65mm, Ti	2
1179.2570	Non-Locking Screw, 2.5x70mm, Ti	2

# ANTHEM™ Ti Small Fragment SCREW SET 9179.9006 (Cont'd)

PART NO.	DESCRIPTION	QTY
1179.3008	Non-Locking Screw, 3.5x8mm, Ti	6
1179.3010	Non-Locking Screw, 3.5x10mm, Ti	6
1179.3012	Non-Locking Screw, 3.5x12mm, Ti	6
1179.3014	Non-Locking Screw, 3.5x14mm, Ti	6
1179.3016	Non-Locking Screw, 3.5x16mm, Ti	6
1179.3018	Non-Locking Screw, 3.5x18mm, Ti	6
1179.3020	Non-Locking Screw, 3.5x20mm, Ti	6
1179.3022	Non-Locking Screw, 3.5x22mm, Ti	6
1179.3024	Non-Locking Screw, 3.5x24mm, Ti	6
1179.3026	Non-Locking Screw, 3.5x26mm, Ti	6
1179.3028	Non-Locking Screw, 3.5x28mm, Ti	6
1179.3030	Non-Locking Screw, 3.5x30mm, Ti	6
1179.3032	Non-Locking Screw, 3.5x32mm, Ti	6
1179.3034	Non-Locking Screw, 3.5x34mm, Ti	6
1179.3036	Non-Locking Screw, 3.5x36mm, Ti	6
1179.3038	Non-Locking Screw, 3.5x38mm, Ti	6
1179.3040	Non-Locking Screw, 3.5x40mm, Ti	6
1179.3042	Non-Locking Screw, 3.5x42mm, Ti	6
1179.3044	Non-Locking Screw, 3.5x44mm, Ti	6
1179.3046	Non-Locking Screw, 3.5x46mm, Ti	6
1179.3048	Non-Locking Screw, 3.5x48mm, Ti	6
1179.3050	Non-Locking Screw, 3.5x50mm, Ti	6
1179.3052	Non-Locking Screw, 3.5x52mm, Ti	6
1179.3054	Non-Locking Screw, 3.5x54mm, Ti	6
1179.3056	Non-Locking Screw, 3.5x56mm, Ti	6
1179.3058	Non-Locking Screw, 3.5x58mm, Ti	6
1179.3060	Non-Locking Screw, 3.5x60mm, Ti	6
1179.3065	Non-Locking Screw, 3.5x65mm, Ti	2
1179.3070	Non-Locking Screw, 3.5x70mm, Ti	2
1179.3075	Non-Locking Screw, 3.5x75mm, Ti	2
1179.3080	Non-Locking Screw, 3.5x80mm, Ti	2
1179.3090	Non-Locking Screw, 3.5x90mm, Ti	2
1179.3100	Non-Locking Screw, 3.5x100mm, Ti	2

# ANTHEM™ Ti Small Fragment SCREW SET 9179.9006 (Cont'd)

PART NO.	DESCRIPTION	QTY
1179.5008	Locking Screw, 3.5x8mm, Ti	8
1179.5010	Locking Screw, 3.5x10mm, Ti	8
1179.5012	Locking Screw, 3.5x12mm, Ti	8
1179.5014	Locking Screw, 3.5x14mm, Ti	8
1179.5016	Locking Screw, 3.5x16mm, Ti	8
1179.5018	Locking Screw, 3.5x18mm, Ti	8
1179.5020	Locking Screw, 3.5x20mm, Ti	8
1179.5022	Locking Screw, 3.5x22mm, Ti	8
1179.5024	Locking Screw, 3.5x24mm, Ti	8
1179.5026	Locking Screw, 3.5x26mm, Ti	8
1179.5028	Locking Screw, 3.5x28mm, Ti	8
1179.5030	Locking Screw, 3.5x30mm, Ti	8
1179.5032	Locking Screw, 3.5x32mm, Ti	8
1179.5034	Locking Screw, 3.5x34mm, Ti	8
1179.5036	Locking Screw, 3.5x36mm, Ti	8
1179.5038	Locking Screw, 3.5x38mm, Ti	8
1179.5040	Locking Screw, 3.5x40mm, Ti	8
1179.5042	Locking Screw, 3.5x42mm, Ti	8
1179.5044	Locking Screw, 3.5x44mm, Ti	8
1179.5046	Locking Screw, 3.5x46mm, Ti	8
1179.5048	Locking Screw, 3.5x48mm, Ti	4
1179.5050	Locking Screw, 3.5x50mm, Ti	4
1179.5052	Locking Screw, 3.5x52mm, Ti	4
1179.5054	Locking Screw, 3.5x54mm, Ti	4
1179.5056	Locking Screw, 3.5x56mm, Ti	4
1179.5058	Locking Screw, 3.5x58mm, Ti	4
1179.5060	Locking Screw, 3.5x60mm, Ti	4

# ANTHEM™ Ti Small Fragment SCREW SET 9179.9006 (Cont'd)

PART NO.	DESCRIPTION	QTY
1179.4008	Cancellous Screw, 4.0x8mm, Fully Threaded, Ti	3
1179.4010	Cancellous Screw, 4.0x10mm, Fully Threaded, Ti	3
1179.4012	Cancellous Screw, 4.0x12mm, Fully Threaded, Ti	3
1179.4014	Cancellous Screw, 4.0x14mm, Fully Threaded, Ti	3
1179.4016	Cancellous Screw, 4.0x16mm, Fully Threaded, Ti	3
1179.4018	Cancellous Screw, 4.0x18mm, Fully Threaded, Ti	3
1179.4020	Cancellous Screw, 4.0x20mm, Fully Threaded, Ti	3
1179.4022	Cancellous Screw, 4.0x22mm, Fully Threaded, Ti	3
1179.4024	Cancellous Screw, 4.0x24mm, Fully Threaded, Ti	3
1179.4026	Cancellous Screw, 4.0x26mm, Fully Threaded, Ti	2
1179.4028	Cancellous Screw, 4.0x28mm, Fully Threaded, Ti	2
1179.4030	Cancellous Screw, 4.0x30mm, Fully Threaded, Ti	2
1179.4032	Cancellous Screw, 4.0x32mm, Fully Threaded, Ti	2
1179.4034	Cancellous Screw, 4.0x34mm, Fully Threaded, Ti	2
1179.4036	Cancellous Screw, 4.0x36mm, Fully Threaded, Ti	2
1179.4038	Cancellous Screw, 4.0x38mm, Fully Threaded, Ti	2
1179.4040	Cancellous Screw, 4.0x40mm, Fully Threaded, Ti	2
1179.4045	Cancellous Screw, 4.0x45mm, Fully Threaded, Ti	2
1179.4050	Cancellous Screw, 4.0x50mm, Fully Threaded, Ti	2
1179.4055	Cancellous Screw, 4.0x55mm, Fully Threaded, Ti	2
1179.4060	Cancellous Screw, 4.0x60mm, Fully Threaded, Ti	2
1179.4065	Cancellous Screw, 4.0x65mm, Fully Threaded, Ti	2
1179.4070	Cancellous Screw, 4.0x70mm, Fully Threaded, Ti	2
1179.8030	Cancellous Screw, 4.0x30mm, Partially Threaded, Ti	2
1179.8032	Cancellous Screw, 4.0x32mm, Partially Threaded, Ti	2
1179.8034	Cancellous Screw, 4.0x34mm, Partially Threaded, Ti	2
1179.8036	Cancellous Screw, 4.0x36mm, Partially Threaded, Ti	2
1179.8038	Cancellous Screw, 4.0x38mm, Partially Threaded, Ti	2
1179.8040	Cancellous Screw, 4.0x40mm, Partially Threaded, Ti	2
1179.8045	Cancellous Screw, 4.0x45mm, Partially Threaded, Ti	2
1179.8050	Cancellous Screw, 4.0x50mm, Partially Threaded, Ti	2
1179.8055	Cancellous Screw, 4.0x55mm, Partially Threaded, Ti	2
1179.8060	Cancellous Screw, 4.0x60mm, Partially Threaded, Ti	2
1179.8065	Cancellous Screw, 4.0x65mm, Partially Threaded, Ti	2
1179.8070	Cancellous Screw, 4.0x70mm, Partially Threaded, Ti	2
1179.0003	7.0mm Washer, Ti	6
1179.0002	9.0mm Washer, Ti	6
9179.0006	ANTHEM™ Ti Small Fragment Screw Module	

# IMPORTANT INFORMATION ON ANTHEM™ FRACTURE SYSTEM

## DESCRIPTION

The ANTHEM™ Fracture System is a family of plates and screws designed to be used for internal bone fixation. The implants are available in various sizes and shapes to accommodate patient anatomy, and may be contoured or straight, with locking and non-locking screws. ANTHEM™ implants are manufactured from titanium alloy, cobalt chromium molybdenum alloy, or stainless steel. All implants are for single use only.

## INDICATIONS

The ANTHEM™ Fracture System is indicated for fixation of fractures, osteotomies, arthrodesis and reconstruction of bones for the appropriate size of the device to be used in adult patients, including the clavicle, scapula, humerus, radius, ulna, small bones (metacarpals, metatarsals, phalanges), wrist, pelvis, femur, tibia, fibula, ankle, and foot. Small fragment and distal fibula plates may be used in all pediatric subgroups (except neonates) and small stature adults. Distal radius plates may be used in adolescents (12-21 years of age).

## WARNINGS

The correct implant selection is extremely important. Failure to use the appropriate implant for the fracture condition may accelerate clinical failure. Failure to use the proper component to maintain adequate blood supply and provide rigid fixation may result in loosening, bending, cracking or fracture of the implant and/or bone. The correct implant size for a given patient can be determined by evaluating the patient's height, weight, functional demands and anatomy. Every implant must be used in the correct anatomic location, consistent with accepted standards of internal fixation.

## PRECAUTION

The implantation of fixation devices should be performed only by experienced surgeons with specific training in the use of this system because this is a technically demanding procedure presenting a risk of serious injury to the patient. Preoperative planning and patient anatomy should be considered when selecting implant size.

Surgical implants must never be reused. Even though the device appears undamaged, it may have small defects and internal stress patterns which could lead to breakage.

## MR SAFETY INFORMATION

The ANTHEM™ Fracture implants have not been evaluated for safety and compatibility in the MR environment. They have not been tested for heating, migration, or image artifact in the MR environment. The safety of these devices in the MR environment is unknown. Scanning a patient who has this device may result in patient injury.

## CONTRAINDICATIONS

Use of these implants is contraindicated in patients in the following cases:

- Any active or suspended latent infection or marked local inflammation in or about the affected area.
- Compromised vascularity that would inhibit adequate blood supply to the fracture or the operative site.
- Bone stock compromised by disease, infection or prior implantation that cannot provide adequate support and/or fixation of the devices.
- Use of plating on or around growth plates in pediatric patients.
- Material sensitivity, documented or suspected.
- Obesity. An overweight or obese patient can produce loads on the implant that can lead to failure of the device itself.
- Patients having inadequate tissue coverage over the operative site.
- Implant utilization that would interfere with anatomical structures or physiological performance.
- Any mental or neuromuscular disorder which would create an unacceptable risk of fixation failure or complications in postoperative care.
- Other medical or surgical conditions which would preclude the potential benefit of surgery.

## CAUTIONS

### Pre-operative

- These implants are single use only.
- Implants that came in contact with body fluids should never be reused.
- Ensure that all components needed for surgery are available in the surgical suite.
- Inspection is recommended prior to surgery to determine if implants have been damaged during storage.
- While rare, intra-operative fracture or breakage of instruments can occur.

Instruments which have experienced excessive use or excessive force are susceptible to fracture. Instruments should be examined for wear or damage prior to surgery.

### Intra-operative

- Avoid surface damage of implants.
- Discard all damaged or mishandled implants.
- Contouring or bending of an implant should be avoided where possible, because it may reduce its fatigue strength and can cause failure under load.
- Implants are available in different versions, varying for example in length, diameter, material and number of drilled holes. Select the required version carefully.
- During the course of the operation, repeatedly check to ensure that the connection between the implant and the instrument, or between the instruments, is secure.
- Implants which consist of several components must only be used in the prescribed combination (refer to the ANTHEM™ Surgical Technique Guide).
- After the procedure check the proper positioning of all implants using the image intensifier.
- Do not use components from this system in conjunction with components from any other manufacturer's system unless otherwise specified (refer to the ANTHEM™ Surgical Technique Guide).

### Post-operative

- Post-operative patient activity: These implants are neither intended to carry the full load of the patient acutely, nor intended to carry a significant portion of the load for extended periods of time. For this reason post-operative instructions and warnings to patients are extremely important. External immobilization (e.g. bracing or casting) may be employed until X-rays or other procedures confirm adequate bone consolidation.
- The implant is a short-term implant. In the event of a delay in bone consolidation, or if such consolidation does not take place, or if explantation is not carried out, complications may occur, for example fracture or loosening of the implant or instability of the implant system. Regular post-operative examinations (e.g., X-ray checks) are advisable.
- The risk of post-operative complication (e.g. failure of an implant) is higher if patients are obese and/or cannot follow the recommendations of the physician because of any mental or neuromuscular disorder. For this reason those patients must have additional post-operative follow-up.
- Implant removal should be followed by adequate postoperative management to avoid fracture or refracture of the bone.

### Informing the Patient

The implant affects the patient's ability to carry loads and her/his mobility and general living circumstances. The surgeon must counsel each patient individually on correct behavior and activity after the implantation.

The surgeon must warn each patient that the device cannot and does not replicate a normally healthy bone, that the device can break or become damaged as a result of strenuous activity, trauma, mal-union or non-union and that the device has a finite expected service life and may need to be removed at some time in the future.

## ADVERSE EFFECTS

In many instances, adverse results may be clinically related rather than device related. The following are the most frequent adverse effects involving the use of internal fracture fixation devices:

- Delayed union or non-union of the fracture site.
- These devices can break when subjected to the increased loading associated with delayed unions and/or non-unions. Internal fixation devices are load sharing devices which are intended to hold fracture bone surface in a position to facilitate healing. If healing is delayed or does not occur, the appliance may eventually break due to metal fatigue. Loads on the device produced by load bearing and the patient's activity level will dictate the longevity of the device.
- Conditions attributable to non-union, osteoporosis, osteomalacia, diabetes, inhibited revascularization and poor bone formation can cause loosening, bending, cracking, fracture of the device or premature loss of rigid fixation with the bone.
- Improper alignment can cause a malunion of the bone and/or bending, cracking or even breakage of the device.
- Increased fibrous tissue response around the fracture site due to unstable comminuted fractures.

# IMPORTANT INFORMATION ON ANTHEM™ FRACTURE SYSTEM

- Early or late infection, deep or superficial.
- Deep venous thrombosis.
- Avascular necrosis.
- Shortening of the effected bone/fracture site.
- Subclinical nerve damage may possibly occur as a result of the surgical trauma.
- Material sensitivity reactions in patients following surgical implantation have rarely been reported, however their significance awaits further clinical evaluation.

## PACKAGING

These implants may be supplied pre-packaged and sterile, using gamma irradiation. The integrity of the sterile packaging should be checked to ensure that sterility of the contents is not compromised. Packaging should be carefully checked for completeness and all components should be carefully checked to ensure that there is no damage prior to use. Damaged packages or products should not be used, and should be returned to Globus Medical. During surgery, after the correct size has been determined, remove the products from the packaging using aseptic technique.

The instruments are provided nonsterile and are steam sterilized prior to use, as described in the STERILIZATION section below. Following use or exposure to soil, instruments and instrument trays and cases must be cleaned, as described in the CLEANING section below.

## HANDLING

All instruments and implants should be treated with care. Improper use or handling may lead to damage and/or possible malfunction. Instruments should be checked to ensure that they are in working order prior to surgery.

Implants are single use devices and should not be cleaned. Re-cleaning of single use implants might lead to mechanical failure and/or material degradation. Discard any implants that may have been accidentally contaminated.

## CLEANING

Instruments should be cleaned separately from instrument trays and cases. Lids should be removed from cases for the cleaning process, if applicable. All instruments that can be disassembled must be disassembled for cleaning. All handles must be detached. Instruments may be reassembled following sterilization. The products should be cleaned using neutral cleaners before sterilization and introduction into a sterile surgical field or (if applicable) return of the product to Globus Medical.

Cleaning and disinfecting can be performed with aldehyde-free solvents at higher temperatures. Cleaning and decontamination must include the use of neutral cleaners followed by a deionized water rinse. Note: certain cleaning solutions such as those containing formalin, glutaraldehyde, bleach and/or other alkaline cleaners may damage some devices, particularly instruments; these solutions should not be used.

The following cleaning methods should be observed when cleaning instruments after use or exposure to soil, and prior to sterilization:

1. Immediately following use, ensure that the instruments are wiped down to remove all visible soil and kept from drying by submerging or covering with a wet towel.
2. Disassemble all instruments that can be disassembled.
3. Rinse the instruments under running tap water to remove all visible soil. Flush the lumens a minimum of 3 times, until the lumens flush clean.
4. Prepare Enzo<sup>®</sup> (or a similar enzymatic detergent) per manufacturer's recommendations.
5. Immerse the instruments in the detergent and allow them to soak for a minimum of 2 minutes.
6. Use a soft bristled brush to thoroughly clean the instruments. Use a pipe cleaner for any lumens. Pay close attention to hard to reach areas.
7. Using a sterile syringe, draw up the enzymatic detergent solution. Flush any lumens and hard to reach areas until no soil is seen exiting the area.
8. Remove the instruments from the detergent and rinse them in running warm tap water.
9. Prepare Enzo<sup>®</sup> (or a similar enzymatic detergent) per manufacturer's recommendations in an ultrasonic cleaner.
10. Completely immerse the instruments in the ultrasonic cleaner and ensure detergent is in lumens by flushing the lumens. Sonicate for a minimum of 3 minutes.
11. Remove the instruments from the detergent and rinse them in running deionized water or reverse osmosis water for a minimum of 2 minutes.

12. Dry instruments using a clean soft cloth and filtered pressurized air.
13. Visually inspect each instrument for visible soil. If visible soil is present, then repeat cleaning process starting with Step 3.

## CONTACT INFORMATION

Globus Medical may be contacted at 1-866-GLOBUS1 (456-2871). A surgical technique manual may be obtained by contacting Globus Medical.

## STERILIZATION

These implants may be available sterile or nonsterile. Instruments are available nonsterile.

Sterile implants are sterilized by gamma radiation, validated to ensure a Sterility Assurance Level (SAL) of 10<sup>-6</sup>. Sterile products are packaged in a heat sealed, Tyvek pouch. The expiration date is provided in the package label. These products are considered sterile unless the packaging has been opened or damaged. Sterile implants meet pyrogen limit specifications.

Nonsterile implants and instruments have been validated following ANSI/AAMI/ISO 17665-1:2006 Guidelines for Steam Sterility Validation to assure a Sterility Assurance Level (SAL) of 10<sup>-6</sup>. The use of an FDA-cleared wrap is recommended, per the Association for the Advancement of Medical Instrumentation (AAMI) ST79, *Comprehensive Guide to Steam Sterilization and Sterility Assurance in Health Care Facilities*. It is the end user's responsibility to use only sterilizers and accessories (such as sterilization wraps, sterilization pouches, chemical indicators, biological indicators, and sterilization cassettes) that have been cleared by the FDA for the selected sterilization cycle specifications (time and temperature).

When using a rigid sterilization container, the following must be taken into consideration for proper sterilization of Globus devices and loaded graphic cases:

- Recommended sterilization parameters are listed in the table below.
- Only FDA-cleared rigid sterilization containers for use with pre-vacuum steam sterilization may be used.
- When selecting a rigid sterilization container, it must have a minimum filter area of 176 in<sup>2</sup> total, or a minimum of four (4) 7.5 in diameter filters.
- No more than one (1) loaded graphic case or its contents can be placed directly into a rigid sterilization container.
- Stand-alone modules/racks or single devices must be placed, without stacking, in a container basket to ensure optimal ventilation.
- The rigid sterilization container manufacturer's instructions for use are to be followed; if questions arise, contact the manufacturer of the specific container for guidance.
- Refer to AAMI ST79 for additional information concerning the use of rigid sterilization containers.

For implants and instruments provided NONSTERILE, sterilization is recommended (wrapped or containerized) as follows:

Method	Cycle Type	Temperature	Exposure Time	Drying Time
Steam	Pre-vacuum	132°C (270°F)	4 Minutes	30 Minutes

*These parameters are validated to sterilize only this device. If other products are added to the sterilizer, the recommended parameters are not valid and new cycle parameters must be established by the user. The sterilizer must be properly installed, maintained, and calibrated. Ongoing testing must be performed to confirm inactivation of all forms of viable microorganisms.*

**CAUTION:** Federal Law (USA) Restricts this Device to Sale by or on the order of a Physician.

SYMBOL TRANSLATION			
	CATALOGUE NUMBER		STERILIZED BY IRRADIATION
	LOT NUMBER		AUTHORISED REPRESENTATIVE IN THE EUROPEAN COMMUNITY
	CAUTION		MANUFACTURER
	SINGLE USE ONLY		USE BY (YYYY-MM-DD)
	QUANTITY		

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