



# CAPTIVATE<sup>®</sup>

## Headed Cannulated Screw 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

## CAPTIVATE®

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# CAPTIVATE®

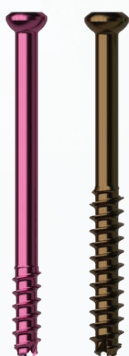
## Headed Cannulated Screw System

The CAPTIVATE® Headed Cannulated Screws deliver intraoperative versatility and efficiency through ample implant options and shared instruments for paired screw sizes.

Each set provides paired screw sizes: 2.5/3.0mm, 3.5/4.0mm, 4.5/5.5mm, and 6.5/7.5mm.

CAPTIVATE® Headed Screws are ideal for treatment of a wide variety of adult and pediatric applications.

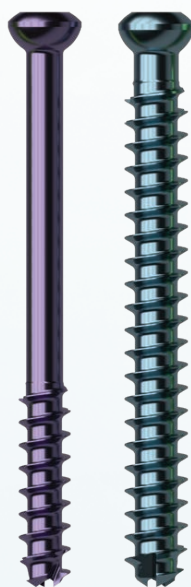
2.5/3.0mm



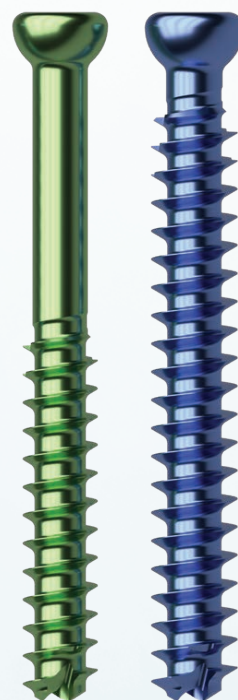
3.5/4.0mm



4.5/5.5mm



6.5/7.5mm



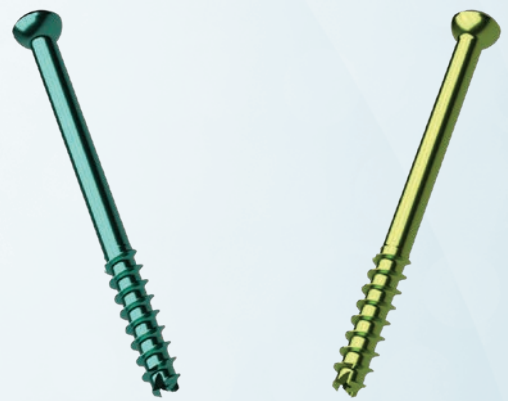
## Comprehensive

- Broad range of screw lengths from 8-180mm
- Short, long, partially, and fully threaded screws
- Available in stainless steel or titanium alloy



## Adaptable

- Each set provides paired screw sizes to meet a variety of surgical demands
- Screws are available in 1mm, 2mm, and 5mm length increments



## Efficient

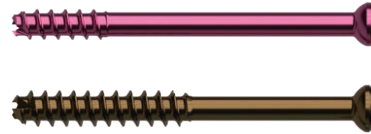
- Standardized instruments allow for seamless transition between paired screw sizes
- Graphic case laid out for efficient procedural flow



# IMPLANT OVERVIEW

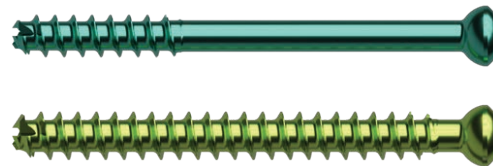
## 2.5/3.0mm Screws

- Screw lengths from 8-50mm
  - 1mm increments up to 20mm
  - 2mm increments up to 50mm
- Short Threaded = 25% of screw length
- Long Threaded = 50% of screw length



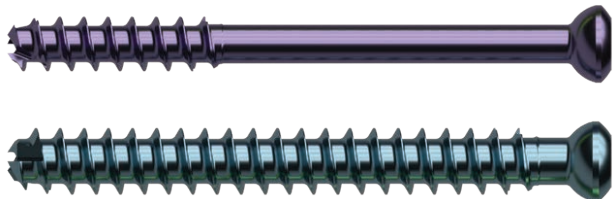
## 3.5/4.0mm Screws

- Screw lengths from 16-100mm
  - 2mm increments up to 50mm
  - 5mm increments thereafter
- Partially Threaded = 33% of screw length
- Fully Threaded



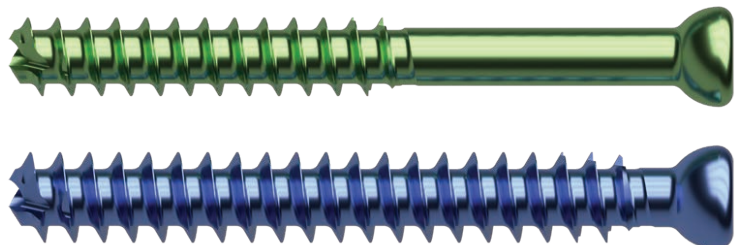
## 4.5/5.5mm Screws

- Screw lengths from 30-120mm
  - 2mm increments up to 50mm
  - 5mm increments thereafter
- Partially Threaded = 33% of screw length
- Fully Threaded



## 6.5/7.5mm Screws

- Screw lengths from 40-180mm
  - 5mm increments for all lengths
- 16mm and 32mm Partially Threaded
- Fully Threaded



# IMPLANT OVERVIEW



## Thread Type

- Short Thread
- Long Thread
- Partial Thread
- Full Thread



## Hexalobe Recess

- Designed to optimize torque transmission and resist stripping



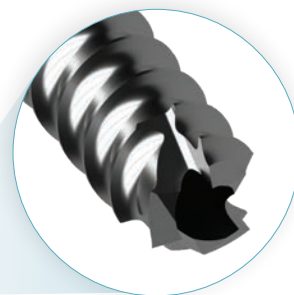
## Low-Profile Head

- Engineered to minimize soft tissue irritation



## Reverse Cutting Flutes

- To facilitate screw removal



## Self-Drilling and Self-Tapping

- For ease of insertion



## SURGICAL TECHNIQUE

# CAPTIVATE®

## Headed Cannulated Screw System

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

### STEP 1 APPROACH AND GUIDEWIRE INSERTION

Identify the fracture line and make the appropriate incision. Determine the guidewire size that corresponds to the selected screw(s), per the table below.

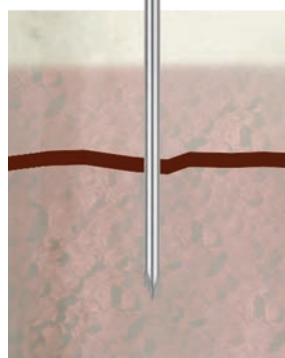
Insert the **Guidewire** to the appropriate depth, using fluoroscopy. Remove the soft tissue protector and confirm guidewire positioning using fluoroscopy.

For pre-drilling, proceed to step 3. For screw insertion, proceed to step 4.

Note: The **Parallel Wire Guide** permits fine repositioning for 6.5/7.5mm screws. Ensure screws are positioned at an optimal distance apart for final placement.



Identifying fracture line



Inserting guidewire

SCREW DIAMETER	GUIDEWIRE DIAMETER
● 2.5/3.0mm	1.1mm
● 3.5/4.0mm	1.4mm
● 4.5/5.5mm	1.6mm
● 6.5/7.5mm	2.8mm

## STEP

## 2

# MEASURING SCREW LENGTH

Measuring must be completed before all bone preparation steps, except when using a countersink.

Slide the corresponding size **Measuring Device** over the guidewire until flush with the bone.

Screw length is determined by the guidewire tip on the measuring device. If the measurement is between implant sizes, round down.

Note: If using a washer with a 6.5/7.5mm screw, add 3.75mm to the measurement to accommodate the portion of the screw outside of the bone.



Measuring Device  
showing 30mm length

## STEP

## 3

# BONE PREPARATION

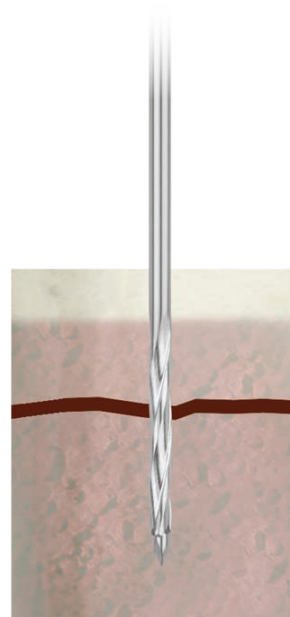
For self-drilling CAPTIVATE® screws, pre-drilling is optional.

Slide the **Soft Tissue Protector** over the guidewire, if applicable, and position on the surface of the bone. Attach the appropriate drill to the desired handle.

Insert the drill over the guidewire and pre-drill near the cortex. Use fluoroscopy to ensure that the trajectory is correct and drill to the appropriate length. The screw hole may be tapped prior to screw insertion if desired.

Ream to countersink the screw if a lower profile screw is desired. Ensure countersink does not penetrate the cortex.

SCREW DIAMETER	CANNULATED PRE-DRILL	CANNULATED OVER DRILL
● 2.5/3.0mm	2.5mm	-
● 3.5/4.0mm	2.7mm	4.2mm
● 4.5mm	3.2mm	5.7mm
● 5.5mm	3.9mm	5.7mm
● 6.5/7.5mm	5.0mm	7.5mm



Drilling

## STEP 4 SCREW INSERTION

Select the corresponding **Driver** and **Quick-Connect Handle** per the table below and load the selected screw.

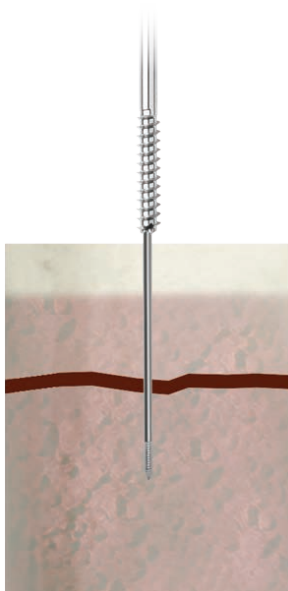
SCREW DIAMETER	DRIVER SIZE
● 2.5/3.0mm	T8
● 3.5/4.0mm	T15
● 4.5/5.5mm	T20
● 6.5/7.5mm	T30

If desired, a washer may be used in areas of poor bone quality or thin cortical bone. Before screw insertion, place the appropriate washer over the guidewire until flush with the bone. See the table below for washer styles and sizes by screw diameter.

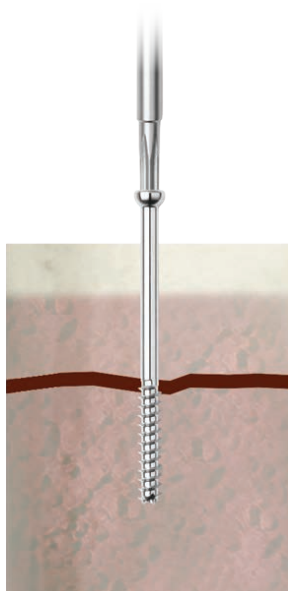
SCREW DIAMETER	WASHER STYLE	WASHER SIZE	WASHER THICKNESS
● 2.5/3.0mm	Round	7.0mm	1.0mm
● 3.5/4.0mm	Round	8.0mm	1.3mm
● 4.5/5.5mm	Round	10.2mm	1.5mm
● 6.5/7.5mm	Round	13.0mm	1.5mm
	Oval	22x13mm	

Drive the screw over the guidewire, if applicable, and rotate the handle clockwise to insert the screw to the desired position. Continue to drive until the fracture is reduced. Fluoroscopy is required during this step to ensure proper trajectory and placement.

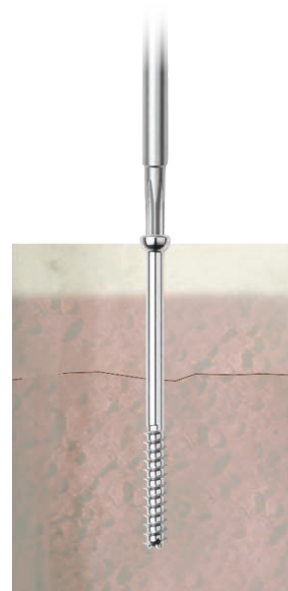
When the desired screw position is achieved, remove both the driver and guidewire. Remove the driver by pulling out axially, away from the screw tip. Remove the guidewire using the guidewire driver.



Guiding screw by  
guidewire



Inserting screw



Reducing fracture

## FINAL POSITION



## OPTIONAL: IMPLANT REMOVAL

Expose the head of the screw by removing any bony presence. Engage the screw drive feature with the appropriate **Solid Driver** and rotate counterclockwise to remove the screw. Use screw forceps or other instruments to pull the screw out axially. For broken or damaged 6.5/7.5mm screws, remove using the **6.5/7.5mm Screw Extractor**. To remove the screw, insert the screw extractor into the screw and rotate counterclockwise.

# INSTRUMENT OVERVIEW

## GUIDEWIRES



1.1x150mm Trocar Guidewire 6188.1111



1.4x180mm Trocar Guidewire 6178.1214



1.6x220mm Trocar Guidewire 6178.1216



1.1x150mm Threaded Trocar Guidewire 6178.1311



1.4x180mm Threaded Trocar Guidewire 6178.1414



1.6x220mm Threaded Trocar Guidewire 6178.1416



2.8x300mm Threaded Trocar Guidewire 6178.0115



2.8x450mm Threaded Trocar Guidewire 6178.0183



2.8x300mm Drill Tip Guidewire 6178.0116



2.8x450mm Drill Tip Guidewire 6178.0185

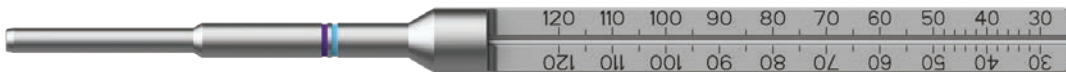
## MEASURING DEVICES



●● 2.5/3.0mm Measuring Device 6178.3025



●● 3.5/4.0mm Measuring Device 6178.3035



●● 4.5/5.5mm Measuring Device 6178.3045



6.5/7.5mm Measuring Device 6178.0167

## DRILL BITS



●● 2.0 Drill Bit, Cannulated 6178.5325



●● 2.7 Drill Bit, Cannulated 6178.5335



●● 3.2 Drill Bit, Cannulated 6178.5345



●● 3.9 Drill Bit, Cannulated 6178.5355



5.0 Drill Bit, Cannulated 6178.5350

## SOFT TISSUE PROTECTORS



2.0mm Soft Tissue Protector 6178.4025



2.7mm Soft Tissue Protector 6178.4035



3.2mm Soft Tissue Protector 6178.4045



3.9mm Soft Tissue Protector 6178.4055



Guide Stick, Short 6178.3302

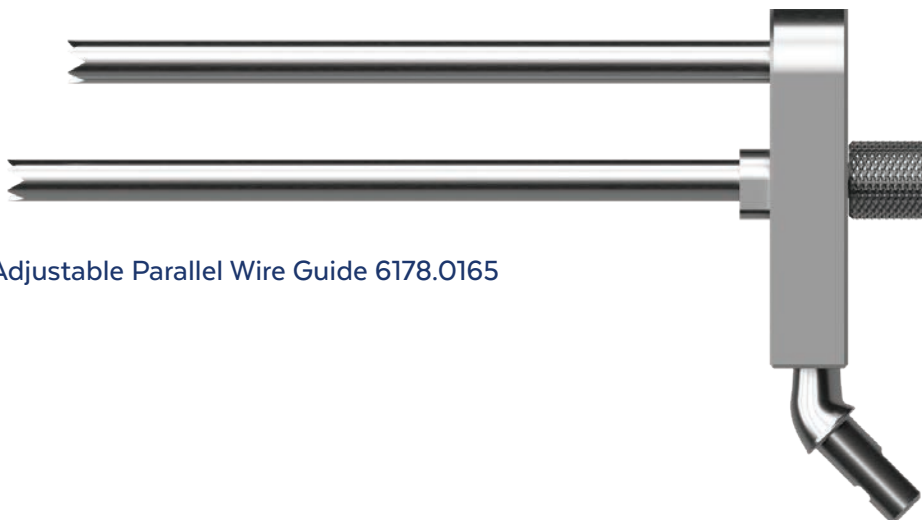


Guide Stick, Long 6178.3301

## WIRE GUIDES



Multiple Wire Guide 6178.0164



Adjustable Parallel Wire Guide 6178.0165



QC Handle for Multiple & Parallel Wire Guides 6178.7005

## INSERTION SLEEVES



2.8mm Trocar 6178.0162



2.8mm Guide Wire Sleeve 6178.0163



Holding Sleeve 6178.0182



Screw Insertion Sleeve 6178.0174



Washer Sleeve 6178.0175

## OVER DRILLS



●● 4.2 Over Drill, Cannulated 6178.5440



●● 5.7 Over Drill, Cannulated 6178.5455



7.5 Over Drill, Cannulated 6178.5375

## OVER DRILL GUIDES



4.2 Over Drill Guide 6178.4140



5.7 Over Drill Guide 6178.4155

## COUNTERSINKS



2.5/3.0mm Countersink, Cannulated 6178.8025



3.5/4.0mm Countersink, Cannulated 6178.8035



4.5/5.5mm Countersink, Cannulated 6178.8045



6.5/7.5mm Countersink, Cannulated 6178.0117

## FORCEPS



Screw Holding Forceps 6188.2015



Screw Holding Forceps 6179.2000

## TAPS



- 2.5mm Tap, Cannulated 6178.5225



- 3.0mm Tap, Cannulated 6178.5230



- 3.5mm Tap, Cannulated 6178.5235



- 4.0mm Tap, Cannulated 6178.5240



- 4.5mm Tap, Cannulated 6178.5245



- 5.5mm Tap, Cannulated 6178.5255



- 6.5/7.5mm Tap, Cannulated 6178.5165

## AO QUICK-CONNECT HANDLES



Quick-Connect Handle, Cannulated 6188.7000



Quick-Connect Handle, Cannulated 6188.7001



Quick-Connect Handle 6178.3000



Large Quick Coupling 6178.0181

## SOLID DRIVERS



T8 Driver, Solid 6179.6108



T15 Driver, Solid 6179.6115



T20 Driver, Solid 6178.6120



T30 Driver, Solid 6178.6430

## CANNULATED DRIVERS



T8 Driver, Cannulated 6188.6308



T15 Driver, Cannulated 6188.6315



T20 Driver, Cannulated 6178.6320



T30 Driver, Cannulated 6178.6130

## CLEANING BRUSHES



1.3mm Cleaning Brush 6188.7130



1.8mm Cleaning Brush 6178.7145



3.4mm Cleaning Brush 6178.7165

## CLEANING STYLETS



1.1mm Cleaning Stylet 6178.7225



1.4mm Cleaning Stylet 6178.7235



1.6mm Cleaning Stylet 6178.7245



2.8mm Cleaning Stylet 6178.7265

## REMOVAL INSTRUMENTS



6.5/7.5mm Screw Extractor 6178.0176

# CAPTIVATE® 2.5/3.0mm

## Headed Cannulated Screw System

### Instrument Set 9178.9101 and 9178.9102

Part No.	Description	Qty
6188.7000	Small Handle, Short, AO Quick-Connect	2
6179.6108	T8 Driver, Solid	1
6178.8025	2.5/3.0mm Countersink, Cannulated	1
6188.6308	T8 Driver, Cannulated	2
6188.7130	1.3mm Cleaning Brush	1
6178.7225	1.1mm Cleaning Stylet	1
6178.4025	2.0mm Soft Tissue Protector	1
6178.5325	2.0mm Drill Bit, Cannulated	2
6178.3025	2.5/3.0mm Measuring Device	1
6178.1311	1.1x150mm Threaded Trocar Guide Wire	10
6188.1111	1.1x150mm Trocar Guide Wire	10
9178.2531	Ti 2.5/3.0mm Headed Graphic Case	
9178.2532	SS 2.5/3.0mm Headed Graphic Case	

#### Additionally Available

6178.5225	2.5mm Tap, Cannulated
6178.5230	3.0mm Tap, Cannulated

# CAPTIVATE® 2.5/3.0mm

## Headed Cannulated Screw System

### Titanium Screw Module 9178.9111

#### 2.5mm, Short Thread, Titanium

Part No.	Length	Qty
1178.2716	16mm	2
1178.2717	17mm	3
1178.2718	18mm	3
1178.2719	19mm	3
1178.2720	20mm	3
1178.2722	22mm	3
1178.2724	24mm	3
1178.2726	26mm	3
1178.2728	28mm	3
1178.2730	30mm	3
1178.2732	32mm	3
1178.2734	34mm	2
1178.2736	36mm	2
1178.2738	38mm	2
1178.2740	40mm	2

#### 2.5/3.0mm Washers, Titanium

Part No.	Size	Qty
1178.0025	7.0mm	4

#### Instrument

6188.2015	Screw Holding Forceps	1
9178.0251	Ti 2.5/3.0mm Headed Screw Module	

#### 2.5mm, Long Thread, Titanium

Part No.	Length	Qty
1178.2908	8mm	2
1178.2909	9mm	2
1178.2910	10mm	2
1178.2911	11mm	2
1178.2912	12mm	2
1178.2913	13mm	2
1178.2914	14mm	2
1178.2915	15mm	2
1178.2916	16mm	2
1178.2917	17mm	2
1178.2918	18mm	2
1178.2919	19mm	2
1178.2920	20mm	2
1178.2922	22mm	2
1178.2924	24mm	2
1178.2926	26mm	2
1178.2928	28mm	2
1178.2930	30mm	2
1178.2932	32mm	2
1178.2934	34mm	2
1178.2936	36mm	2
1178.2938	38mm	2
1178.2940	40mm	2

# CAPTIVATE® 2.5/3.0mm

## Headed Cannulated Screw System

### Titanium Screw Module 9178.9111

#### 3.0mm, Short Thread, Titanium

Part No.	Length	Qty
1178.3208	8mm	2
1178.3209	9mm	2
1178.3210	10mm	2
1178.3211	11mm	2
1178.3212	12mm	2
1178.3213	13mm	2
1178.3214	14mm	2
1178.3215	15mm	2
1178.3216	16mm	2
1178.3217	17mm	3
1178.3218	18mm	3
1178.3219	19mm	3
1178.3220	20mm	3
1178.3222	22mm	3
1178.3224	24mm	3
1178.3226	26mm	3
1178.3228	28mm	2
1178.3230	30mm	2
1178.3232	32mm	2
1178.3234	34mm	2
1178.3236	36mm	2
1178.3238	38mm	2
1178.3240	40mm	2
1178.3242	42mm	2
1178.3244	44mm	2
1178.3246	46mm	2
1178.3248	48mm	2
1178.3250	50mm	2

#### 3.0mm, Long Thread, Titanium

Part No.	Length	Qty
1178.3414	14mm	2
1178.3415	15mm	2
1178.3416	16mm	2
1178.3417	17mm	2
1178.3418	18mm	2
1178.3419	19mm	2
1178.3420	20mm	2
1178.3422	22mm	2
1178.3424	24mm	2
1178.3426	26mm	2
1178.3428	28mm	2
1178.3430	30mm	2
1178.3432	32mm	2
1178.3434	34mm	2
1178.3436	36mm	2
1178.3438	38mm	2
1178.3440	40mm	2
1178.3442	42mm	2
1178.3444	44mm	2
1178.3446	46mm	2
1178.3448	48mm	2
1178.3450	50mm	2

# CAPTIVATE® 2.5/3.0mm

## Headed Cannulated Screw System

### Stainless Steel Screw Module 9178.9112

#### 2.5mm, Short Thread, Stainless Steel

Part No.	Length	Qty
2178.2716	16mm	2
2178.2717	17mm	3
2178.2718	18mm	3
2178.2719	19mm	3
2178.2720	20mm	3
2178.2722	22mm	3
2178.2724	24mm	3
2178.2726	26mm	3
2178.2728	28mm	3
2178.2730	30mm	3
2178.2732	32mm	3
2178.2734	34mm	2
2178.2736	36mm	2
2178.2738	38mm	2
2178.2740	40mm	2

#### 2.5/3.0mm Washers, Stainless Steel

Part No.	Size	Qty
2178.0025	7.0mm	4

#### Instrument

6188.2015	Screw Holding Forceps	1
9178.0252	SS 2.5/3.0mm Headed Screw Module	

#### 2.5mm, Long Thread, Stainless Steel

Part No.	Length	Qty
2178.2908	8mm	2
2178.2909	9mm	2
2178.2910	10mm	2
2178.2911	11mm	2
2178.2912	12mm	2
2178.2913	13mm	2
2178.2914	14mm	2
2178.2915	15mm	2
2178.2916	16mm	2
2178.2917	17mm	2
2178.2918	18mm	2
2178.2919	19mm	2
2178.2920	20mm	2
2178.2922	22mm	2
2178.2924	24mm	2
2178.2926	26mm	2
2178.2928	28mm	2
2178.2930	30mm	2
2178.2932	32mm	2
2178.2934	34mm	2
2178.2936	36mm	2
2178.2938	38mm	2
2178.2940	40mm	2

# CAPTIVATE® 2.5/3.0mm

## Headed Cannulated Screw System

### Stainless Steel Screw Module 9178.9112

#### 3.0mm, Short Thread, Stainless Steel

Part No.	Length	Qty
2178.3208	8mm	2
2178.3209	9mm	2
2178.3210	10mm	2
2178.3211	11mm	2
2178.3212	12mm	2
2178.3213	13mm	2
2178.3214	14mm	2
2178.3215	15mm	2
2178.3216	16mm	2
2178.3217	17mm	3
2178.3218	18mm	3
2178.3219	19mm	3
2178.3220	20mm	3
2178.3222	22mm	3
2178.3224	24mm	3
2178.3226	26mm	3
2178.3228	28mm	2
2178.3230	30mm	2
2178.3232	32mm	2
2178.3234	34mm	2
2178.3236	36mm	2
2178.3238	38mm	2
2178.3240	40mm	2
2178.3242	42mm	2
2178.3244	44mm	2
2178.3246	46mm	2
2178.3248	48mm	2
2178.3250	50mm	2

#### 3.0mm, Long Thread, Stainless Steel

Part No.	Length	Qty
2178.3414	14mm	2
2178.3415	15mm	2
2178.3416	16mm	2
2178.3417	17mm	2
2178.3418	18mm	2
2178.3419	19mm	2
2178.3420	20mm	2
2178.3422	22mm	2
2178.3424	24mm	2
2178.3426	26mm	2
2178.3428	28mm	2
2178.3430	30mm	2
2178.3432	32mm	2
2178.3434	34mm	2
2178.3436	36mm	2
2178.3438	38mm	2
2178.3440	40mm	2
2178.3442	42mm	2
2178.3444	44mm	2
2178.3446	46mm	2
2178.3448	48mm	2
2178.3450	50mm	2

# CAPTIVATE® 3.5/4.0mm

## Headed Cannulated Screw System

### Instrument Set 9178.9201 and 9178.9202

Part No.	Description	Qty
6188.7001	Quick-Connect Handle, AO	2
6179.6115	T15 Driver, Solid	1
6178.8035	3.5/4.0mm Countersink, Cannulated	1
6188.6315	T15 Driver, Cannulated	2
6178.7145	1.8mm Cleaning Brush	1
6178.7235	1.4mm Cleaning Stylet	1
6178.4140	4.2mm Over Drill Guide	1
6178.5440	4.2mm Over Drill, Cannulated	1
6178.4035	2.7mm Soft Tissue Protector	1
6178.5335	2.7mm Drill Bit, Cannulated	2
6178.3035	3.5/4.0mm Measuring Device	1
6178.1414	1.4x180mm Threaded Trocar Guide Wire	10
6178.1214	1.4x180mm Trocar Guide Wire	10
9178.3541	Ti 3.5/4.0mm Headed Graphic Case	
9178.3542	SS 3.5/4.0mm Headed Graphic Case	

#### Additionally Available

6178.5235	3.5mm Tap, Cannulated
6178.5240	4.0mm Tap, Cannulated

# CAPTIVATE® 3.5/4.0mm

## Headed Cannulated Screw System

### Titanium Screw Module 9178.9211

#### 3.5mm, Full Thread, Titanium

Part No.	Length	Qty
1178.3516	16mm	2
1178.3518	18mm	2
1178.3520	20mm	2
1178.3522	22mm	2
1178.3524	24mm	2
1178.3526	26mm	2
1178.3528	28mm	2
1178.3530	30mm	2
1178.3532	32mm	2
1178.3534	34mm	2
1178.3536	36mm	2
1178.3538	38mm	2
1178.3540	40mm	2
1178.3542	42mm	2
1178.3544	44mm	2
1178.3546	46mm	2
1178.3548	48mm	2
1178.3550	50mm	2
1178.3555	55mm	2
1178.3560	60mm	2
1178.3565	65mm	2
1178.3570	70mm	2

#### 3.5mm, Partial Thread, Titanium

Part No.	Length	Qty
1178.3716	16mm	2
1178.3718	18mm	2
1178.3720	20mm	2
1178.3722	22mm	2
1178.3724	24mm	2
1178.3726	26mm	2
1178.3728	28mm	2
1178.3730	30mm	2
1178.3732	32mm	2
1178.3734	34mm	2
1178.3736	36mm	3
1178.3738	38mm	3
1178.3740	40mm	3
1178.3742	42mm	3
1178.3744	44mm	3
1178.3746	46mm	3
1178.3748	48mm	3
1178.3750	50mm	3
1178.3755	55mm	3
1178.3760	60mm	2
1178.3765	65mm	2
1178.3770	70mm	2

#### 3.5/4.0mm Washers, Titanium

Part No.	Size	Qty
1178.0035	8.0mm	4

#### Instrument

6179.2000	Screw Holding Forceps	1
9178.0351	Ti 3.5/4.0mm Headed Screw Module	

# CAPTIVATE® 3.5/4.0mm

## Headed Cannulated Screw System

### Titanium Screw Module 9178.9211

#### 4.0mm, Full Thread, Titanium

Part No.	Length	Qty
1178.4020	20mm	2
1178.4022	22mm	2
1178.4024	24mm	2
1178.4026	26mm	2
1178.4028	28mm	2
1178.4030	30mm	2
1178.4032	32mm	2
1178.4034	34mm	2
1178.4036	36mm	2
1178.4038	38mm	2
1178.4040	40mm	2
1178.4042	42mm	2
1178.4044	44mm	2
1178.4046	46mm	2
1178.4048	48mm	2
1178.4050	50mm	2
1178.4055	55mm	2
1178.4060	60mm	2
1178.4065	65mm	2
1178.4070	70mm	2
1178.4075	75mm	2
1178.4080	80mm	2

#### 4.0mm, Partial Thread, Titanium

Part No.	Length	Qty
1178.4220	20mm	2
1178.4222	22mm	2
1178.4224	24mm	2
1178.4226	26mm	2
1178.4228	28mm	2
1178.4230	30mm	2
1178.4232	32mm	2
1178.4234	34mm	3
1178.4236	36mm	3
1178.4238	38mm	3
1178.4240	40mm	3
1178.4242	42mm	3
1178.4244	44mm	3
1178.4246	46mm	3
1178.4248	48mm	3
1178.4250	50mm	2
1178.4255	55mm	2
1178.4260	60mm	2
1178.4265	65mm	2
1178.4270	70mm	2
1178.4275	75mm	2
1178.4280	80mm	2

#### Additionally Available

1178.4085	85mm	1178.4285	85mm
1178.4090	90mm	1178.4290	90mm
1178.4095	95mm	1178.4295	95mm
1178.4100	100mm	1178.4300	100mm

# CAPTIVATE® 3.5/4.0mm

## Headed Cannulated Screw System

### Stainless Steel Screw Module 9178.9212

#### 3.5mm, Full Thread, Stainless Steel

Part No.	Length	Qty
2178.3516	16mm	2
2178.3518	18mm	2
2178.3520	20mm	2
2178.3522	22mm	2
2178.3524	24mm	2
2178.3526	26mm	2
2178.3528	28mm	2
2178.3530	30mm	2
2178.3532	32mm	2
2178.3534	34mm	2
2178.3536	36mm	2
2178.3538	38mm	2
2178.3540	40mm	2
2178.3542	42mm	2
2178.3544	44mm	2
2178.3546	46mm	2
2178.3548	48mm	2
2178.3550	50mm	2
2178.3555	55mm	2
2178.3560	60mm	2
2178.3565	65mm	2
2178.3570	70mm	2

#### 3.5mm, Partial Thread, Stainless Steel

Part No.	Length	Qty
2178.3716	16mm	2
2178.3718	18mm	2
2178.3720	20mm	2
2178.3722	22mm	2
2178.3724	24mm	2
2178.3726	26mm	2
2178.3728	28mm	2
2178.3730	30mm	2
2178.3732	32mm	2
2178.3734	34mm	2
2178.3736	36mm	3
2178.3738	38mm	3
2178.3740	40mm	3
2178.3742	42mm	3
2178.3744	44mm	3
2178.3746	46mm	3
2178.3748	48mm	3
2178.3750	50mm	3
2178.3755	55mm	3
2178.3760	60mm	2
2178.3765	65mm	2
2178.3770	70mm	2

#### 3.5/4.0mm Washers, Stainless Steel

Part No.	Size	Qty
2178.0035	8.0mm	4

#### Instrument

6179.2000	Screw Holding Forceps	1
9178.0352	SS 3.5/4.0mm Headed Screw Module	

# CAPTIVATE® 3.5/4.0mm

## Headed Cannulated Screw System

### Stainless Steel Screw Module 9178.9212

#### 4.0mm, Full Thread, Stainless Steel

Part No.	Length	Qty
2178.4020	20mm	2
2178.4022	22mm	2
2178.4024	24mm	2
2178.4026	26mm	2
2178.4028	28mm	2
2178.4030	30mm	2
2178.4032	32mm	2
2178.4034	34mm	2
2178.4036	36mm	2
2178.4038	38mm	2
2178.4040	40mm	2
2178.4042	42mm	2
2178.4044	44mm	2
2178.4046	46mm	2
2178.4048	48mm	2
2178.4050	50mm	2
2178.4055	55mm	2
2178.4060	60mm	2
2178.4065	65mm	2
2178.4070	70mm	2
2178.4075	75mm	2
2178.4080	80mm	2

#### 4.0mm, Partial Thread, Stainless Steel

Part No.	Length	Qty
2178.4220	20mm	2
2178.4222	22mm	2
2178.4224	24mm	2
2178.4226	26mm	2
2178.4228	28mm	2
2178.4230	30mm	2
2178.4232	32mm	2
2178.4234	34mm	3
2178.4236	36mm	3
2178.4238	38mm	3
2178.4240	40mm	3
2178.4242	42mm	3
2178.4244	44mm	3
2178.4246	46mm	3
2178.4248	48mm	3
2178.4250	50mm	2
2178.4255	55mm	2
2178.4260	60mm	2
2178.4265	65mm	2
2178.4270	70mm	2
2178.4275	75mm	2
2178.4280	80mm	2

#### Additionally Available

2178.4085	85mm	2178.4285	85mm
2178.4090	90mm	2178.4290	90mm
2178.4095	95mm	2178.4295	95mm
2178.4100	100mm	2178.4300	100mm

# CAPTIVATE® 4.5/5.5mm

## Headed Cannulated Screw System

### Instrument Set 9178.9301 and 9178.9302

Part No.	Description	Qty
6188.7001	Quick-Connect Handle, AO	2
6179.6120	T20 Driver, Solid	1
6178.8045	4.5/5.5mm Countersink, Cannulated	1
6188.6320	T20 Driver, Cannulated	2
6178.7145	1.8mm Cleaning Brush	1
6178.7245	1.6mm Cleaning Stylet	1
6178.4155	5.7mm Over Drill Guide	1
6178.5455	5.7mm Over Drill, Cannulated	1
6178.4055	3.9mm Soft Tissue Protector	1
6178.5355	3.9mm Drill Bit, Cannulated	2
6178.4045	3.2mm Soft Tissue Protector	1
6178.5345	3.2mm Drill Bit, Cannulated	2
6178.3045	4.5/5.5 Measuring Device	1
6178.1416	1.6x220mm Threaded Trocar Guide Wire	10
6178.1216	1.6x220mm Trocar Guide Wire	10
9178.4556	Ti 4.5/5.5mm Headed Graphic Case	
9178.4557	SS 4.5/5.5mm Headed Graphic Case	

#### Additionally Available

6178.5245	4.5mm Tap, Cannulated
6178.5255	5.5mm Tap, Cannulated

# CAPTIVATE® 4.5/5.5mm

## Headed Cannulated Screw System

### Titanium Screw Module 9178.9311

#### 4.5mm, Full Thread, Titanium

Part No.	Length	Qty
1178.4530	30mm	2
1178.4532	32mm	2
1178.4534	34mm	2
1178.4536	36mm	2
1178.4538	38mm	2
1178.4540	40mm	2
1178.4542	42mm	2
1178.4544	44mm	2
1178.4546	46mm	2
1178.4548	48mm	2
1178.4550	50mm	2
1178.4555	55mm	2
1178.4560	60mm	2
1178.4565	65mm	2
1178.4570	70mm	2
1178.4575	75mm	2
1178.4580	80mm	2
1178.4585	85mm	2
1178.4590	90mm	2
1178.4595	95mm	2
1178.4600	100mm	2

#### 4.5mm, Partial Thread, Titanium

Part No.	Length	Qty
1178.4730	30mm	2
1178.4732	32mm	2
1178.4734	34mm	2
1178.4736	36mm	2
1178.4738	38mm	2
1178.4740	40mm	2
1178.4742	42mm	2
1178.4744	44mm	2
1178.4746	46mm	2
1178.4748	48mm	2
1178.4750	50mm	2
1178.4955	55mm	2
1178.4760	60mm	2
1178.4765	65mm	2
1178.4770	70mm	2
1178.4775	75mm	2
1178.4780	80mm	2
1178.4785	85mm	2
1178.4790	90mm	2
1178.4795	95mm	2
1178.4800	100mm	2

#### 4.5/5.5mm Washers, Titanium

Part No.	Size	Qty
1178.0045	10.2mm	4

#### Instrument

6179.2000	Screw Holding Forceps	1
9178.0451	Ti 4.5/5.5mm Headed Screw Module	

# CAPTIVATE® 4.5/5.5mm

## Headed Cannulated Screw System

### Titanium Screw Module 9178.9311

#### 5.5mm, Full Thread, Titanium

Part No.	Length	Qty
1178.5540	40mm	2
1178.5542	42mm	2
1178.5544	44mm	2
1178.5546	46mm	2
1178.5548	48mm	2
1178.5550	50mm	2
1178.5555	55mm	2
1178.5560	60mm	2
1178.5565	65mm	2
1178.5570	70mm	2
1178.5575	75mm	2
1178.5580	80mm	2
1178.5585	85mm	2
1178.5590	90mm	2
1178.5595	95mm	2
1178.5600	100mm	2
1178.5605	105mm	2
1178.5610	110mm	2
1178.5615	115mm	2
1178.5620	120mm	2

#### 5.5mm, Partial Thread, Titanium

Part No.	Length	Qty
1178.5740	40mm	2
1178.5742	42mm	2
1178.5744	44mm	2
1178.5746	46mm	2
1178.5748	48mm	2
1178.5750	50mm	2
1178.5955	55mm	2
1178.5760	60mm	2
1178.5765	65mm	2
1178.5770	70mm	2
1178.5775	75mm	2
1178.5780	80mm	2
1178.5785	85mm	2
1178.5790	90mm	2
1178.5795	95mm	2
1178.5800	100mm	2
1178.5805	105mm	2
1178.5810	110mm	2
1178.5815	115mm	2
1178.5820	120mm	2

# CAPTIVATE® 4.5/5.5mm

## Headed Cannulated Screw System

### Stainless Steel Screw Module 9178.9312

#### 4.5mm, Full Thread, Stainless Steel

Part No.	Length	Qty
2178.4530	30mm	2
2178.4532	32mm	2
2178.4534	34mm	2
2178.4536	36mm	2
2178.4538	38mm	2
2178.4540	40mm	2
2178.4542	42mm	2
2178.4544	44mm	2
2178.4546	46mm	2
2178.4548	48mm	2
2178.4550	50mm	2
2178.4555	55mm	2
2178.4560	60mm	2
2178.4565	65mm	2
2178.4570	70mm	2
2178.4575	75mm	2
2178.4580	80mm	2
2178.4585	85mm	2
2178.4590	90mm	2
2178.4595	95mm	2
2178.4600	100mm	2

#### 4.5mm, Partial Thread, Stainless Steel

Part No.	Length	Qty
2178.4730	30mm	2
2178.4732	32mm	2
2178.4734	34mm	2
2178.4736	36mm	2
2178.4738	38mm	2
2178.4740	40mm	2
2178.4742	42mm	2
2178.4744	44mm	2
2178.4746	46mm	2
2178.4748	48mm	2
2178.4750	50mm	2
2178.4955	55mm	2
2178.4760	60mm	2
2178.4765	65mm	2
2178.4770	70mm	2
2178.4775	75mm	2
2178.4780	80mm	2
2178.4785	85mm	2
2178.4790	90mm	2
2178.4795	95mm	2
2178.4800	100mm	2

#### 4.5/5.5mm Washers, Stainless Steel

Part No.	Size	Qty
2178.0045	10.2mm	4

#### Instrument

6179.2000	Screw Holding Forceps	1
9178.0452	SS 4.5/5.5mm Headed Screw Module	

# CAPTIVATE® 4.5/5.5mm

## Headed Cannulated Screw System

### Stainless Steel Screw Module 9178.9312

#### 5.5mm, Full Thread, Stainless Steel

Part No.	Length	Qty
2178.5540	40mm	2
2178.5542	42mm	2
2178.5544	44mm	2
2178.5546	46mm	2
2178.5548	48mm	2
2178.5550	50mm	2
2178.5555	55mm	2
2178.5560	60mm	2
2178.5565	65mm	2
2178.5570	70mm	2
2178.5575	75mm	2
2178.5580	80mm	2
2178.5585	85mm	2
2178.5590	90mm	2
2178.5595	95mm	2
2178.5600	100mm	2
2178.5605	105mm	2
2178.5610	110mm	2
2178.5615	115mm	2
2178.5620	120mm	2

#### 5.5mm, Partial Thread, Stainless Steel

Part No.	Length	Qty
2178.5740	40mm	2
2178.5742	42mm	2
2178.5744	44mm	2
2178.5746	46mm	2
2178.5748	48mm	2
2178.5750	50mm	2
2178.5955	55mm	2
2178.5760	60mm	2
2178.5765	65mm	2
2178.5770	70mm	2
2178.5775	75mm	2
2178.5780	80mm	2
2178.5785	85mm	2
2178.5790	90mm	2
2178.5795	95mm	2
2178.5800	100mm	2
2178.5805	105mm	2
2178.5810	110mm	2
2178.5815	115mm	2
2178.5820	120mm	2

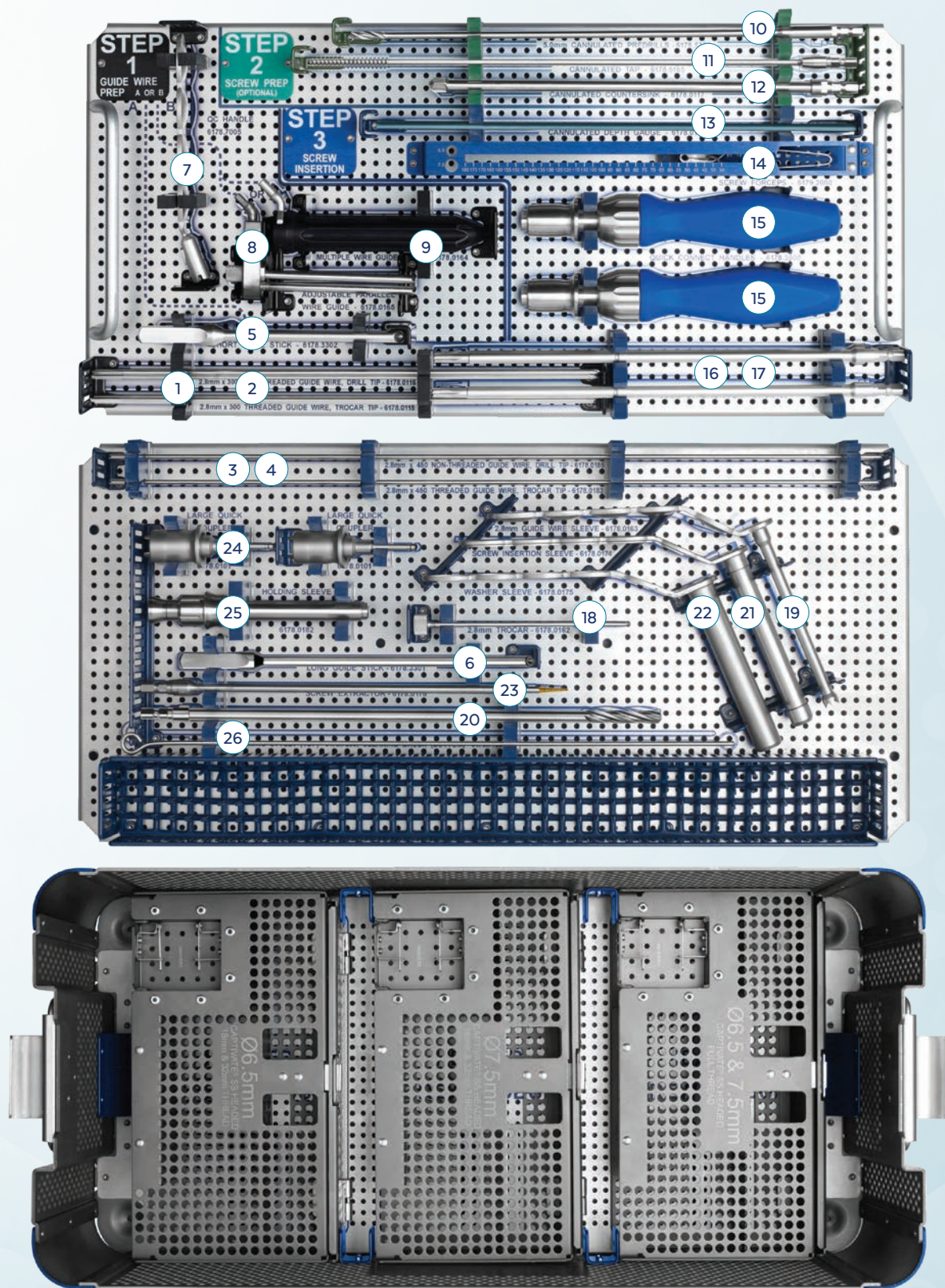
# CAPTIVATE® 6.5/7.5mm

## Headed Cannulated Screw System

### Instrument Set 9178.9000

Part No.	Description	Qty
1 6178.0115	2.8x300mm Threaded Guidewire, Trocar Tip	10
2 6178.0116	2.8x300mm Non-Threaded Guidewire, Drill Tip	10
3 6178.0185	2.8x450mm Non-Threaded Guidewire, Drill Tip	3
4 6178.0183	2.8x450mm Threaded Guidewire, Trocar Tip	3
5 6178.3302	Guide Stick, Short	1
6 6178.3301	Guide Stick, Long	1
7 6178.7005	QC Handle for Multiple & Parallel Wire Guides	1
8 6178.0165	Adjustable Parallel Wire Guide	1
9 6178.0164	Multiple Wire Guide	1
10 6178.5350	5.0mm Cannulated Predrill	2
11 6178.5165	Cannulated Tap	1
12 6178.0117	Cannulated Countersink	1
13 6178.0167	Cannulated Depth Gauge	1
14 6179.2000	Screw Holding Forceps	1
15 6178.3000	Quick-Connect Handle	2
16 6178.6130	Cannulated Screwdriver	2
17 6178.6430	Solid Screwdriver	1
18 6178.0162	2.8mm Trocar	1
19 6178.0163	2.8mm Guidewire Sleeve	1
20 6178.5375	7.5mm Cannulated Over Drill	2
21 6178.0174	Screw Insertion Sleeve	1
22 6178.0175	Washer Sleeve	1
23 6178.0176	Screw Extractor	1
24 6178.0181	Large Quick-Coupling	2
25 6178.0182	Holding Sleeve	1
6178.7165	Cleaning Brush	1
26 6178.7265	Cleaning Stylet	1
9178.0100	Graphic Case	

# CAPTIVATE® 6.5/7.5mm Headed Cannulated Screw System Instrument Set 9178.9000



# CAPTIVATE® 6.5mm Headed Partially Threaded Screws Stainless Steel Screw Module 9178.9001

Part No.	Description	Qty	Part No.	Description	Qty
2178.6541	6.5x40mm, Cannulated Screw, 16mm, SS	2	2178.6547	6.5x45mm, Cannulated Screw, 32mm, SS	2
2178.6546	6.5x45mm, Cannulated Screw, 16mm, SS	2	2178.6552	6.5x50mm, Cannulated Screw, 32mm, SS	2
2178.6551	6.5x50mm, Cannulated Screw, 16mm, SS	2	2178.6557	6.5x55mm, Cannulated Screw, 32mm, SS	2
2178.6556	6.5x55mm, Cannulated Screw, 16mm, SS	2	2178.6562	6.5x60mm, Cannulated Screw, 32mm, SS	2
2178.6561	6.5x60mm, Cannulated Screw, 16mm, SS	2	2178.6567	6.5x65mm, Cannulated Screw, 32mm, SS	2
2178.6566	6.5x65mm, Cannulated Screw, 16mm, SS	2	2178.6572	6.5x70mm, Cannulated Screw, 32mm, SS	2
2178.6571	6.5x70mm, Cannulated Screw, 16mm, SS	2	2178.6577	6.5x75mm, Cannulated Screw, 32mm, SS	2
2178.6576	6.5x75mm, Cannulated Screw, 16mm, SS	2	2178.6582	6.5x80mm, Cannulated Screw, 32mm, SS	4
2178.6581	6.5x80mm, Cannulated Screw, 16mm, SS	4	2178.6587	6.5x85mm, Cannulated Screw, 32mm, SS	4
2178.6586	6.5x85mm, Cannulated Screw, 16mm, SS	4	2178.6592	6.5x90mm, Cannulated Screw, 32mm, SS	4
2178.6591	6.5x90mm, Cannulated Screw, 16mm, SS	4	2178.6597	6.5x95mm, Cannulated Screw, 32mm, SS	4
2178.6596	6.5x95mm, Cannulated Screw, 16mm, SS	4	2178.6602	6.5x100mm, Cannulated Screw, 32mm, SS	4
2178.6601	6.5x100mm, Cannulated Screw, 16mm, SS	4	2178.6607	6.5x105mm, Cannulated Screw, 32mm, SS	2
2178.6606	6.5x105mm, Cannulated Screw, 16mm, SS	2	2178.6612	6.5x110mm, Cannulated Screw, 32mm, SS	2
2178.6611	6.5x110mm, Cannulated Screw, 16mm, SS	2	2178.6617	6.5x115mm, Cannulated Screw, 32mm, SS	2
2178.6616	6.5x115mm, Cannulated Screw, 16mm, SS	2	2178.6622	6.5x120mm, Cannulated Screw, 32mm, SS	2
2178.6621	6.5x120mm, Cannulated Screw, 16mm, SS	2	2178.6627	6.5x125mm, Cannulated Screw, 32mm, SS	2
2178.6626	6.5x125mm, Cannulated Screw, 16mm, SS	2	2178.0175	CAPTIVATE® 6.5/7.5mm Standard Washer, SS	4
			2178.3175	CAPTIVATE® 6.5/7.5mm Oval Washer, SS	2
			9178.0101	SS Headed 6.5mm Partially Threaded Screw Module	

# CAPTIVATE® 7.5mm Headed Partially Threaded Screws Stainless Steel Screw Module 9178.9002

Part No.	Description	Qty	Part No.	Description	Qty
2178.7541	7.5x40mm, Cannulated Screw, 16mm, SS	2	2178.7547	7.5x45mm, Cannulated Screw, 32mm, SS	2
2178.7546	7.5x45mm, Cannulated Screw, 16mm, SS	2	2178.7552	7.5x50mm, Cannulated Screw, 32mm, SS	2
2178.7551	7.5x50mm, Cannulated Screw, 16mm, SS	2	2178.7557	7.5x55mm, Cannulated Screw, 32mm, SS	2
2178.7556	7.5x55mm, Cannulated Screw, 16mm, SS	2	2178.7562	7.5x60mm, Cannulated Screw, 32mm, SS	2
2178.7561	7.5x60mm, Cannulated Screw, 16mm, SS	2	2178.7567	7.5x65mm, Cannulated Screw, 32mm, SS	2
2178.7566	7.5x65mm, Cannulated Screw, 16mm, SS	2	2178.7572	7.5x70mm, Cannulated Screw, 32mm, SS	2
2178.7571	7.5x70mm, Cannulated Screw, 16mm, SS	2	2178.7577	7.5x75mm, Cannulated Screw, 32mm, SS	2
2178.7576	7.5x75mm, Cannulated Screw, 16mm, SS	2	2178.7582	7.5x80mm, Cannulated Screw, 32mm, SS	4
2178.7581	7.5x80mm, Cannulated Screw, 16mm, SS	4	2178.7587	7.5x85mm, Cannulated Screw, 32mm, SS	4
2178.7586	7.5x85mm, Cannulated Screw, 16mm, SS	4	2178.7592	7.5x90mm, Cannulated Screw, 32mm, SS	4
2178.7591	7.5x90mm, Cannulated Screw, 16mm, SS	4	2178.7597	7.5x95mm, Cannulated Screw, 32mm, SS	4
2178.7596	7.5x95mm, Cannulated Screw, 16mm, SS	4	2178.7602	7.5x100mm, Cannulated Screw, 32mm, SS	4
2178.7601	7.5x100mm, Cannulated Screw, 16mm, SS	4	2178.7607	7.5x105mm, Cannulated Screw, 32mm, SS	2
2178.7606	7.5x105mm, Cannulated Screw, 16mm, SS	2	2178.7612	7.5x110mm, Cannulated Screw, 32mm, SS	2
2178.7611	7.5x110mm, Cannulated Screw, 16mm, SS	2	2178.7617	7.5x115mm, Cannulated Screw, 32mm, SS	2
2178.7616	7.5x115mm, Cannulated Screw, 16mm, SS	2	2178.7622	7.5x120mm, Cannulated Screw, 32mm, SS	2
2178.7621	7.5x120mm, Cannulated Screw, 16mm, SS	2	2178.7627	7.5x125mm, Cannulated Screw, 32mm, SS	2
2178.7626	7.5x125mm, Cannulated Screw, 16mm, SS	2	2178.0175	CAPTIVATE® 6.5/7.5mm Standard Washer, SS	4
			2178.3175	CAPTIVATE® 6.5/7.5mm Oval Washer, SS	2
			9178.0102	SS Headed 7.5mm Partially Threaded Screw Module	

# CAPTIVATE® 6.5/7.5mm Headed Fully Threaded Screws Stainless Steel Screw Module 9178.9003

Part No.	Description	Qty	Part No.	Description	Qty
2178.6540	6.5x40mm, Cannulated Screw, Full Thread, SS	1	2178.7540	7.5x40mm, Cannulated Screw, Full Thread, SS	1
2178.6545	6.5x45mm, Cannulated Screw, Full Thread, SS	1	2178.7545	7.5x45mm, Cannulated Screw, Full Thread, SS	1
2178.6550	6.5x50mm, Cannulated Screw, Full Thread, SS	1	2178.7550	7.5x50mm, Cannulated Screw, Full Thread, SS	1
2178.6555	6.5x55mm, Cannulated Screw, Full Thread, SS	1	2178.7555	7.5x55mm, Cannulated Screw, Full Thread, SS	1
2178.6560	6.5x60mm, Cannulated Screw, Full Thread, SS	1	2178.7560	7.5x60mm, Cannulated Screw, Full Thread, SS	1
2178.6565	6.5x65mm, Cannulated Screw, Full Thread, SS	1	2178.7565	7.5x65mm, Cannulated Screw, Full Thread, SS	1
2178.6570	6.5x70mm, Cannulated Screw, Full Thread, SS	1	2178.7570	7.5x70mm, Cannulated Screw, Full Thread, SS	1
2178.6575	6.5x75mm, Cannulated Screw, Full Thread, SS	1	2178.7575	7.5x75mm, Cannulated Screw, Full Thread, SS	1
2178.6580	6.5x80mm, Cannulated Screw, Full Thread, SS	1	2178.7580	7.5x80mm, Cannulated Screw, Full Thread, SS	1
2178.6585	6.5x85mm, Cannulated Screw, Full Thread, SS	1	2178.7585	7.5x85mm, Cannulated Screw, Full Thread, SS	1
2178.6590	6.5x90mm, Cannulated Screw, Full Thread, SS	1	2178.7590	7.5x90mm, Cannulated Screw, Full Thread, SS	1
2178.6595	6.5x95mm, Cannulated Screw, Full Thread, SS	1	2178.7595	7.5x95mm, Cannulated Screw, Full Thread, SS	1
2178.6600	6.5x100mm, Cannulated Screw, Full Thread, SS	1	2178.7600	7.5x100mm, Cannulated Screw, Full Thread, SS	1
2178.6605	6.5x105mm, Cannulated Screw, Full Thread, SS	1	2178.7605	7.5x105mm, Cannulated Screw, Full Thread, SS	1
2178.6610	6.5x110mm, Cannulated Screw, Full Thread, SS	1	2178.7610	7.5x110mm, Cannulated Screw, Full Thread, SS	1
2178.6615	6.5x115mm, Cannulated Screw, Full Thread, SS	1	2178.7615	7.5x115mm, Cannulated Screw, Full Thread, SS	1
2178.6620	6.5x120mm, Cannulated Screw, Full Thread, SS	1	2178.7620	7.5x120mm, Cannulated Screw, Full Thread, SS	1
2178.6625	6.5x125mm, Cannulated Screw, Full Thread, SS	1	2178.7625	7.5x125mm, Cannulated Screw, Full Thread, SS	1
			2178.0175	CAPTIVATE® 6.5/7.5mm Standard Washer, SS	2
			2178.3175	CAPTIVATE® 6.5/7.5mm Oval Washer, SS	2
			9178.0103	SS Headed 6.5/7.5mm Fully Threaded Screw Module	

# CAPTIVATE® 6.5mm Headed Partially Threaded Long Screws Stainless Steel Screw Module 9178.9004

Part No.	Description	Qty	Part No.	Description	Qty
2178.6631	6.5x130mm, Cannulated Screw, 16mm, SS	2	2178.6632	6.5x130mm, Cannulated Screw, 32mm, SS	2
2178.6636	6.5x135mm, Cannulated Screw, 16mm, SS	2	2178.6637	6.5x135mm, Cannulated Screw, 32mm, SS	2
2178.6641	6.5x140mm, Cannulated Screw, 16mm, SS	2	2178.6642	6.5x140mm, Cannulated Screw, 32mm, SS	2
2178.6646	6.5x145mm, Cannulated Screw, 16mm, SS	2	2178.6647	6.5x145mm, Cannulated Screw, 32mm, SS	2
2178.6651	6.5x150mm, Cannulated Screw, 16mm, SS	2	2178.6652	6.5x150mm, Cannulated Screw, 32mm, SS	2
2178.6656	6.5x155mm, Cannulated Screw, 16mm, SS	2	2178.6657	6.5x155mm, Cannulated Screw, 32mm, SS	2
2178.6661	6.5x160mm, Cannulated Screw, 16mm, SS	2	2178.6662	6.5x160mm, Cannulated Screw, 32mm, SS	2
2178.6666	6.5x165mm, Cannulated Screw, 16mm, SS	2	2178.6667	6.5x165mm, Cannulated Screw, 32mm, SS	2
2178.6671	6.5x170mm, Cannulated Screw, 16mm, SS	2	2178.6672	6.5x170mm, Cannulated Screw, 32mm, SS	2
2178.6676	6.5x175mm, Cannulated Screw, 16mm, SS	2	2178.6677	6.5x175mm, Cannulated Screw, 32mm, SS	2
2178.6681	6.5x180mm, Cannulated Screw, 16mm, SS	2	2178.6682	6.5x180mm, Cannulated Screw, 32mm, SS	2
			2178.0175	CAPTIVATE® 6.5/7.5mm Standard Washer, SS	2
			2178.3175	CAPTIVATE® 6.5/7.5mm Oval Washer, SS	2
			9178.0104	SS Headed 6.5mm Partially Threaded Long Screw Module	

# CAPTIVATE® 7.5mm Headed Partially Threaded Long Screws Stainless Steel Screw Module 9178.9005

Part No.	Description	Qty	Part No.	Description	Qty
2178.7631	7.5x130mm, Cannulated Screw, 16mm, SS	2	2178.7632	7.5x130mm, Cannulated Screw, 32mm, SS	2
2178.7636	7.5x135mm, Cannulated Screw, 16mm, SS	2	2178.7637	7.5x135mm, Cannulated Screw, 32mm, SS	2
2178.7641	7.5x140mm, Cannulated Screw, 16mm, SS	2	2178.7642	7.5x140mm, Cannulated Screw, 32mm, SS	2
2178.7646	7.5x145mm, Cannulated Screw, 16mm, SS	2	2178.7647	7.5x145mm, Cannulated Screw, 32mm, SS	2
2178.7651	7.5x150mm, Cannulated Screw, 16mm, SS	2	2178.7652	7.5x150mm, Cannulated Screw, 32mm, SS	2
2178.7656	7.5x155mm, Cannulated Screw, 16mm, SS	2	2178.7657	7.5x155mm, Cannulated Screw, 32mm, SS	2
2178.7661	7.5x160mm, Cannulated Screw, 16mm, SS	2	2178.7662	7.5x160mm, Cannulated Screw, 32mm, SS	2
2178.7666	7.5x165mm, Cannulated Screw, 16mm, SS	2	2178.7667	7.5x165mm, Cannulated Screw, 32mm, SS	2
2178.7671	7.5x170mm, Cannulated Screw, 16mm, SS	2	2178.7672	7.5x170mm, Cannulated Screw, 32mm, SS	2
2178.7676	7.5x175mm, Cannulated Screw, 16mm, SS	2	2178.7677	7.5x175mm, Cannulated Screw, 32mm, SS	2
2178.7681	7.5x180mm, Cannulated Screw, 16mm, SS	2	2178.7682	7.5x180mm, Cannulated Screw, 32mm, SS	2
			2178.0175	CAPTIVATE® 6.5/7.5mm Standard Washer, SS	2
			2178.3175	CAPTIVATE® 6.5/7.5mm Oval Washer, SS	2
			9178.0105	SS Headed 7.5mm Partially Threaded Long Screw Module	

# CAPTIVATE® 6.5/7.5mm Headed Fully Threaded Long Screws Stainless Steel Screw Module 9178.9006

Part No.	Description	Qty	Part No.	Description	Qty
2178.6630	6.5x130mm, Cannulated Screw, Full Thread, SS	2	2178.7630	7.5x130mm, Cannulated Screw, Full Thread, SS	2
2178.6635	6.5x135mm, Cannulated Screw, Full Thread, SS	2	2178.7635	7.5x135mm, Cannulated Screw, Full Thread, SS	2
2178.6640	6.5x140mm, Cannulated Screw, Full Thread, SS	2	2178.7640	7.5x140mm, Cannulated Screw, Full Thread, SS	2
2178.6645	6.5x145mm, Cannulated Screw, Full Thread, SS	2	2178.7645	7.5x145mm, Cannulated Screw, Full Thread, SS	2
2178.6650	6.5x150mm, Cannulated Screw, Full Thread, SS	2	2178.7650	7.5x150mm, Cannulated Screw, Full Thread, SS	2
2178.6655	6.5x155mm, Cannulated Screw, Full Thread, SS	2	2178.7655	7.5x155mm, Cannulated Screw, Full Thread, SS	2
2178.6660	6.5x160mm, Cannulated Screw, Full Thread, SS	2	2178.7660	7.5x160mm, Cannulated Screw, Full Thread, SS	2
2178.6665	6.5x165mm, Cannulated Screw, Full Thread, SS	2	2178.7665	7.5x165mm, Cannulated Screw, Full Thread, SS	2
2178.6670	6.5x170mm, Cannulated Screw, Full Thread, SS	2	2178.7670	7.5x170mm, Cannulated Screw, Full Thread, SS	2
2178.6675	6.5x175mm, Cannulated Screw, Full Thread, SS	2	2178.7675	7.5x175mm, Cannulated Screw, Full Thread, SS	2
2178.6680	6.5x180mm, Cannulated Screw, Full Thread, SS	2	2178.7680	7.5x180mm, Cannulated Screw, Full Thread, SS	2
			2178.0175	CAPTIVATE® 6.5/7.5mm Standard Washer, SS	2
			2178.3175	CAPTIVATE® 6.5/7.5mm Oval Washer, SS	2
			9178.0106	SS Headed 6.5/7.5mm Fully Threaded Long Screw Module	

# CAPTIVATE® 6.5mm Headed Partially Threaded Screws Titanium Screw Module 9178.9007

Part No.	Description	Qty	Part No.	Description	Qty
1178.6541	6.5x40mm, Cannulated Screw, 16mm, Ti	2	1178.6547	6.5x45mm, Cannulated Screw, 32mm, Ti	2
1178.6546	6.5x45mm, Cannulated Screw, 16mm, Ti	2	1178.6552	6.5x50mm, Cannulated Screw, 32mm, Ti	2
1178.6551	6.5x50mm, Cannulated Screw, 16mm, Ti	2	1178.6557	6.5x55mm, Cannulated Screw, 32mm, Ti	2
1178.6556	6.5x55mm, Cannulated Screw, 16mm, Ti	2	1178.6562	6.5x60mm, Cannulated Screw, 32mm, Ti	2
1178.6561	6.5x60mm, Cannulated Screw, 16mm, Ti	2	1178.6567	6.5x65mm, Cannulated Screw, 32mm, Ti	2
1178.6566	6.5x65mm, Cannulated Screw, 16mm, Ti	2	1178.6572	6.5x70mm, Cannulated Screw, 32mm, Ti	2
1178.6571	6.5x70mm, Cannulated Screw, 16mm, Ti	2	1178.6577	6.5x75mm, Cannulated Screw, 32mm, Ti	2
1178.6576	6.5x75mm, Cannulated Screw, 16mm, Ti	2	1178.6582	6.5x80mm, Cannulated Screw, 32mm, Ti	4
1178.6581	6.5x80mm, Cannulated Screw, 16mm, Ti	4	1178.6587	6.5x85mm, Cannulated Screw, 32mm, Ti	4
1178.6586	6.5x85mm, Cannulated Screw, 16mm, Ti	4	1178.6592	6.5x90mm, Cannulated Screw, 32mm, Ti	4
1178.6591	6.5x90mm, Cannulated Screw, 16mm, Ti	4	1178.6597	6.5x95mm, Cannulated Screw, 32mm, Ti	4
1178.6596	6.5x95mm, Cannulated Screw, 16mm, Ti	4	1178.6602	6.5x100mm, Cannulated Screw, 32mm, Ti	4
1178.6601	6.5x100mm, Cannulated Screw, 16mm, Ti	4	1178.6607	6.5x105mm, Cannulated Screw, 32mm, Ti	2
1178.6606	6.5x105mm, Cannulated Screw, 16mm, Ti	2	1178.6612	6.5x110mm, Cannulated Screw, 32mm, Ti	2
1178.6611	6.5x110mm, Cannulated Screw, 16mm, Ti	2	1178.6617	6.5x115mm, Cannulated Screw, 32mm, Ti	2
1178.6616	6.5x115mm, Cannulated Screw, 16mm, Ti	2	1178.6622	6.5x120mm, Cannulated Screw, 32mm, Ti	2
1178.6621	6.5x120mm, Cannulated Screw, 16mm, Ti	2	1178.6627	6.5x125mm, Cannulated Screw, 32mm, Ti	2
1178.6626	6.5x125mm, Cannulated Screw, 16mm, Ti	2	1178.0175	CAPTIVATE® 6.5/7.5mm Standard Washer, SS	4
			1178.3175	CAPTIVATE® 6.5/7.5mm Oval Washer, SS	2
			9178.0107	Ti Headed 6.5mm Partially Threaded Screw Module	

# CAPTIVATE® 7.5mm Headed Partially Threaded Screws Titanium Screw Module 9178.9008

Part No.	Description	Qty	Part No.	Description	Qty
1178.7541	7.5x40mm, Cannulated Screw, 16mm, Ti	2	1178.7547	7.5x45mm, Cannulated Screw, 32mm, Ti	2
1178.7546	7.5x45mm, Cannulated Screw, 16mm, Ti	2	1178.7552	7.5x50mm, Cannulated Screw, 32mm, Ti	2
1178.7551	7.5x50mm, Cannulated Screw, 16mm, Ti	2	1178.7557	7.5x55mm, Cannulated Screw, 32mm, Ti	2
1178.7556	7.5x55mm, Cannulated Screw, 16mm, Ti	2	1178.7562	7.5x60mm, Cannulated Screw, 32mm, Ti	2
1178.7561	7.5x60mm, Cannulated Screw, 16mm, Ti	2	1178.7567	7.5x65mm, Cannulated Screw, 32mm, Ti	2
1178.7566	7.5x65mm, Cannulated Screw, 16mm, Ti	2	1178.7572	7.5x70mm, Cannulated Screw, 32mm, Ti	2
1178.7571	7.5x70mm, Cannulated Screw, 16mm, Ti	2	1178.7577	7.5x75mm, Cannulated Screw, 32mm, Ti	2
1178.7576	7.5x75mm, Cannulated Screw, 16mm, Ti	2	1178.7582	7.5x80mm, Cannulated Screw, 32mm, Ti	4
1178.7581	7.5x80mm, Cannulated Screw, 16mm, Ti	4	1178.7587	7.5x85mm, Cannulated Screw, 32mm, Ti	4
1178.7586	7.5x85mm, Cannulated Screw, 16mm, Ti	4	1178.7592	7.5x90mm, Cannulated Screw, 32mm, Ti	4
1178.7591	7.5x90mm, Cannulated Screw, 16mm, Ti	4	1178.7597	7.5x95mm, Cannulated Screw, 32mm, Ti	4
1178.7596	7.5x95mm, Cannulated Screw, 16mm, Ti	4	1178.7602	7.5x100mm, Cannulated Screw, 32mm, Ti	4
1178.7601	7.5x100mm, Cannulated Screw, 16mm, Ti	4	1178.7607	7.5x105mm, Cannulated Screw, 32mm, Ti	2
1178.7606	7.5x105mm, Cannulated Screw, 16mm, Ti	2	1178.7612	7.5x110mm, Cannulated Screw, 32mm, Ti	2
1178.7611	7.5x110mm, Cannulated Screw, 16mm, Ti	2	1178.7617	7.5x115mm, Cannulated Screw, 32mm, Ti	2
1178.7616	7.5x115mm, Cannulated Screw, 16mm, Ti	2	1178.7622	7.5x120mm, Cannulated Screw, 32mm, Ti	2
1178.7621	7.5x120mm, Cannulated Screw, 16mm, Ti	2	1178.7627	7.5x125mm, Cannulated Screw, 32mm, Ti	2
1178.7626	7.5x125mm, Cannulated Screw, 16mm, Ti	2	1178.0175	CAPTIVATE® 6.5/7.5mm Standard Washer, SS	4
			1178.3175	CAPTIVATE® 6.5/7.5mm Oval Washer, SS	2
			9178.0108	Ti Headed 7.5mm Partially Threaded Screw Module	

# CAPTIVATE® 6.5/7.5mm Headed Fully Threaded Screws Titanium Screw Module 9178.9009

Part No.	Description	Qty	Part No.	Description	Qty
1178.6540	6.5x40mm, Cannulated Screw, Full Thread, Ti	1	1178.7540	7.5x40mm, Cannulated Screw, Full Thread, Ti	1
1178.6545	6.5x45mm, Cannulated Screw, Full Thread, Ti	1	1178.7545	7.5x45mm, Cannulated Screw, Full Thread, Ti	1
1178.6550	6.5x50mm, Cannulated Screw, Full Thread, Ti	1	1178.7550	7.5x50mm, Cannulated Screw, Full Thread, Ti	1
1178.6555	6.5x55mm, Cannulated Screw, Full Thread, Ti	1	1178.7555	7.5x55mm, Cannulated Screw, Full Thread, Ti	1
1178.6560	6.5x60mm, Cannulated Screw, Full Thread, Ti	1	1178.7560	7.5x60mm, Cannulated Screw, Full Thread, Ti	1
1178.6565	6.5x65mm, Cannulated Screw, Full Thread, Ti	1	1178.7565	7.5x65mm, Cannulated Screw, Full Thread, Ti	1
1178.6570	6.5x70mm, Cannulated Screw, Full Thread, Ti	1	1178.7570	7.5x70mm, Cannulated Screw, Full Thread, Ti	1
1178.6575	6.5x75mm, Cannulated Screw, Full Thread, Ti	1	1178.7575	7.5x75mm, Cannulated Screw, Full Thread, Ti	1
1178.6580	6.5x80mm, Cannulated Screw, Full Thread, Ti	1	1178.7580	7.5x80mm, Cannulated Screw, Full Thread, Ti	1
1178.6585	6.5x85mm, Cannulated Screw, Full Thread, Ti	1	1178.7585	7.5x85mm, Cannulated Screw, Full Thread, Ti	1
1178.6590	6.5x90mm, Cannulated Screw, Full Thread, Ti	1	1178.7590	7.5x90mm, Cannulated Screw, Full Thread, Ti	1
1178.6595	6.5x95mm, Cannulated Screw, Full Thread, Ti	1	1178.7595	7.5x95mm, Cannulated Screw, Full Thread, Ti	1
1178.6600	6.5x100mm, Cannulated Screw, Full Thread, Ti	1	1178.7600	7.5x100mm, Cannulated Screw, Full Thread, Ti	1
1178.6605	6.5x105mm, Cannulated Screw, Full Thread, Ti	1	1178.7605	7.5x105mm, Cannulated Screw, Full Thread, Ti	1
1178.6610	6.5x110mm, Cannulated Screw, Full Thread, Ti	1	1178.7610	7.5x110mm, Cannulated Screw, Full Thread, Ti	1
1178.6615	6.5x115mm, Cannulated Screw, Full Thread, Ti	1	1178.7615	7.5x115mm, Cannulated Screw, Full Thread, Ti	1
1178.6620	6.5x120mm, Cannulated Screw, Full Thread, Ti	1	1178.7620	7.5x120mm, Cannulated Screw, Full Thread, Ti	1
1178.6625	6.5x125mm, Cannulated Screw, Full Thread, Ti	1	1178.7625	7.5x125mm, Cannulated Screw, Full Thread, Ti	1
			1178.0175	CAPTIVATE® 6.5/7.5mm Standard Washer, SS	2
			1178.3175	CAPTIVATE® 6.5/7.5mm Oval Washer, SS	2
			9178.0109	Ti Headed 6.5/7.5mm Fully Threaded Screw Module	

# CAPTIVATE® 6.5mm Headed Partially Threaded Long Screws Titanium Screw Module 9178.9010

Part No.	Description	Qty	Part No.	Description	Qty
1178.6631	6.5x130mm, Cannulated Screw, 16mm, Ti	2	1178.6632	6.5x130mm, Cannulated Screw, 32mm, Ti	2
1178.6636	6.5x135mm, Cannulated Screw, 16mm, Ti	2	1178.6637	6.5x135mm, Cannulated Screw, 32mm, Ti	2
1178.6641	6.5x140mm, Cannulated Screw, 16mm, Ti	2	1178.6642	6.5x140mm, Cannulated Screw, 32mm, Ti	2
1178.6646	6.5x145mm, Cannulated Screw, 16mm, Ti	2	1178.6647	6.5x145mm, Cannulated Screw, 32mm, Ti	2
1178.6651	6.5x150mm, Cannulated Screw, 16mm, Ti	2	1178.6652	6.5x150mm, Cannulated Screw, 32mm, Ti	2
1178.6656	6.5x155mm, Cannulated Screw, 16mm, Ti	2	1178.6657	6.5x155mm, Cannulated Screw, 32mm, Ti	2
1178.6661	6.5x160mm, Cannulated Screw, 16mm, Ti	2	1178.6662	6.5x160mm, Cannulated Screw, 32mm, Ti	2
1178.6666	6.5x165mm, Cannulated Screw, 16mm, Ti	2	1178.6667	6.5x165mm, Cannulated Screw, 32mm, Ti	2
1178.6671	6.5x170mm, Cannulated Screw, 16mm, Ti	2	1178.6672	6.5x170mm, Cannulated Screw, 32mm, Ti	2
1178.6676	6.5x175mm, Cannulated Screw, 16mm, Ti	2	1178.6677	6.5x175mm, Cannulated Screw, 32mm, Ti	2
1178.6681	6.5x180mm, Cannulated Screw, 16mm, Ti	2	1178.6682	6.5x180mm, Cannulated Screw, 32mm, Ti	2
			1178.0175	CAPTIVATE® 6.5/7.5mm Standard Washer, SS	2
			1178.3175	CAPTIVATE® 6.5/7.5mm Oval Washer, SS	2
			9178.0110	Ti Headed 6.5mm Partially Threaded Long Screw Module	

# CAPTIVATE® 7.5mm Headed Partially Threaded Long Screws Titanium Screw Module 9178.9011

Part No.	Description	Qty	Part No.	Description	Qty
1178.7631	7.5x130mm, Cannulated Screw, 16mm, Ti	2	1178.7632	7.5x130mm, Cannulated Screw, 32mm, Ti	2
1178.7636	7.5x135mm, Cannulated Screw, 16mm, Ti	2	1178.7637	7.5x135mm, Cannulated Screw, 32mm, Ti	2
1178.7641	7.5x140mm, Cannulated Screw, 16mm, Ti	2	1178.7642	7.5x140mm, Cannulated Screw, 32mm, Ti	2
1178.7646	7.5x145mm, Cannulated Screw, 16mm, Ti	2	1178.7647	7.5x145mm, Cannulated Screw, 32mm, Ti	2
1178.7651	7.5x150mm, Cannulated Screw, 16mm, Ti	2	1178.7652	7.5x150mm, Cannulated Screw, 32mm, Ti	2
1178.7656	7.5x155mm, Cannulated Screw, 16mm, Ti	2	1178.7657	7.5x155mm, Cannulated Screw, 32mm, Ti	2
1178.7661	7.5x160mm, Cannulated Screw, 16mm, Ti	2	1178.7662	7.5x160mm, Cannulated Screw, 32mm, Ti	2
1178.7666	7.5x165mm, Cannulated Screw, 16mm, Ti	2	1178.7667	7.5x165mm, Cannulated Screw, 32mm, Ti	2
1178.7671	7.5x170mm, Cannulated Screw, 16mm, Ti	2	1178.7672	7.5x170mm, Cannulated Screw, 32mm, Ti	2
1178.7676	7.5x175mm, Cannulated Screw, 16mm, Ti	2	1178.7677	7.5x175mm, Cannulated Screw, 32mm, Ti	2
1178.7681	7.5x180mm, Cannulated Screw, 16mm, Ti	2	1178.7682	7.5x180mm, Cannulated Screw, 32mm, Ti	2
			1178.0175	CAPTIVATE® 6.5/7.5mm Standard Washer, SS	2
			1178.3175	CAPTIVATE® 6.5/7.5mm Oval Washer, SS	2
			9178.0111	Ti Headed 7.5mm Partially Threaded Long Screw Module	

# CAPTIVATE® 6.5/7.5mm Headed Fully Threaded Long Screws Titanium Screw Module 9178.9012

Part No.	Description	Qty	Part No.	Description	Qty
1178.6630	6.5x130mm, Cannulated Screw, Full Thread, Ti	2	1178.7630	7.5x130mm, Cannulated Screw, Full Thread, Ti	2
1178.6635	6.5x135mm, Cannulated Screw, Full Thread, Ti	2	1178.7635	7.5x135mm, Cannulated Screw, Full Thread, Ti	2
1178.6640	6.5x140mm, Cannulated Screw, Full Thread, Ti	2	1178.7640	7.5x140mm, Cannulated Screw, Full Thread, Ti	2
1178.6645	6.5x145mm, Cannulated Screw, Full Thread, Ti	2	1178.7645	7.5x145mm, Cannulated Screw, Full Thread, Ti	2
1178.6650	6.5x150mm, Cannulated Screw, Full Thread, Ti	2	1178.7650	7.5x150mm, Cannulated Screw, Full Thread, Ti	2
1178.6655	6.5x155mm, Cannulated Screw, Full Thread, Ti	2	1178.7655	7.5x155mm, Cannulated Screw, Full Thread, Ti	2
1178.6660	6.5x160mm, Cannulated Screw, Full Thread, Ti	2	1178.7660	7.5x160mm, Cannulated Screw, Full Thread, Ti	2
1178.6665	6.5x165mm, Cannulated Screw, Full Thread, Ti	2	1178.7665	7.5x165mm, Cannulated Screw, Full Thread, Ti	2
1178.6670	6.5x170mm, Cannulated Screw, Full Thread, Ti	2	1178.7670	7.5x170mm, Cannulated Screw, Full Thread, Ti	2
1178.6675	6.5x175mm, Cannulated Screw, Full Thread, Ti	2	1178.7675	7.5x175mm, Cannulated Screw, Full Thread, Ti	2
1178.6680	6.5x180mm, Cannulated Screw, Full Thread, Ti	2	1178.7680	7.5x180mm, Cannulated Screw, Full Thread, Ti	2
			1178.0175	CAPTIVATE® 6.5/7.5mm Standard Washer, SS	2
			1178.3175	CAPTIVATE® 6.5/7.5mm Oval Washer, SS	2
			9178.0112	Ti Headed 6.5/7.5mm Fully Threaded Long Screw Module	

# IMPORTANT INFORMATION ON CAPTIVATE® COMPRESSION SCREWS

## DESCRIPTION

CAPTIVATE® Compression Screws consist of bone screws designed to compact juxtaposed bone for reconstruction and enhanced arthrodesis. The implants are available in various diameters and lengths to accommodate patient anatomy, with headless, partially or fully threaded, solid or cannulated, and variable length (VL) options. CAPTIVATE® implants are manufactured from titanium alloy, cobalt chromium molybdenum alloy, or stainless steel, as specified in ASTM F136, F1295, F1472, F1537 and F138.

## INDICATIONS

CAPTIVATE® Compression Screws are indicated for use in adult and pediatric patients, for fracture repair and fixation, osteotomy, joint fusion, reconstruction and arthrodesis of bones appropriate for the size of the device.

CAPTIVATE® VL Compression Screws are indicated for use in adult and pediatric patients, for fracture repair and fixation, osteotomy, joint fusion, reconstruction and arthrodesis of the phalanges, metacarpals, carpals, metatarsals, midfoot, hind foot, ankle, fibula, distal tibia, proximal tibia, radius, ulna, humerus, and clavicle.

## 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.

## PRECAUTIONS

The implantation of compression screw 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. An explanted implant must never be reimplanted. Even though the device appears undamaged, it may have small defects and internal stress patterns which could lead to breakage.

## MRI SAFETY INFORMATION

These devices have not been evaluated for safety and compatibility in the MR environment. It has 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 with the following conditions:

- 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.
- 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, intraoperative 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.

### *Intraoperative*

- 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 CAPTIVATE® 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 CAPTIVATE® Surgical Technique Guide).

### *Postoperative*

- Postoperative 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, postoperative 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 postoperative examinations (e.g., X-ray checks) are advisable
- The risk of postoperative 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 postoperative 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 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.
- 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

## IMPORTANT INFORMATION ON CAPTIVATE® COMPRESSION SCREWS

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 and instrument trays and cases 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 Enzol® (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 Enzol® (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  $10^{-6}$ . 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  $10^{-6}$ . 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) 7.5in 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 (USA) Law 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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## NOTES

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