

SURGICAL TECHNIQUE GUIDE

Monster® and Mini-Monster® Screws



Exclusively foot & ankle **20**
Paragon®

Acknowledgment:

Paragon 28® would like to thank Thomas San Giovanni, MD for his contribution to the surgical technique guide.

PRODUCT DESCRIPTION

The Paragon 28® Monster® Screw System objectives were set to produce a cannulated screw system that is comprehensive, high quality and specifically designed for the unique anatomy of the foot and ankle.

The Paragon 28® Monster® Screw System offers three different screw diameters in one set. The Paragon 28® Mini-Monster® Screw System offers five smaller cannulated screw options than the Monster® Screw System. With 8 different screw diameters, multiple thread length options and headed and headless varieties in all diameters, the Monster® and Mini-Monster® Screw Systems provide a degree of versatility that allows for fixation of osteotomies, fractures, and joint arthrodesis in the forefoot, midfoot, hindfoot, and ankle.

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UNIQUE DESIGN FEATURES

The Monster[®] and Mini-Monster[®] Screws were made with a purpose:

- To deliver a product specifically designed for the foot and ankle surgeon's needs - a combination of screw types, diameters, and lengths to provide remarkable versatility.
- To offer flexibility to surgeons to change the type of screw used intraoperatively between headless and headed as well as partially threaded and fully threaded.
- To provide quality instrumentation for screw placement and insertion including Hintermann retractors, a Parallel K-wire Guide, and a 3 fluted Drill. The 3 fluted Drill provided for each screw diameter is designed to remove material in a manner to minimize crumbling without compression of bone prior to screw insertion.

Headed Screw:

Screw Head:

Rounded for decreased soft tissue irritation when the screw is inserted at an angle. The head diameter was optimized to help prevent plunging of the screw head into softer bone.

Screw Neck:

Reinforced screw neck geometry helps to prevent stress risers at a traditional weak point of the screw.



Headless Screw:

Screw Neck:

Headless screw design provides a tapered neck which helps enable controlled pre-compression before proximal thread engagement. The pitch ratio and taper were designed to not exceed (for a given size) the distal thread purchase while achieving compression.

Dual Pitch Threads:

A larger pitch differential (between proximal and distal threads) may contribute to early compression and resultant stripping of the distal threads during final screw insertion.

The neck of the screw was designed with a "Pre-Compression Taper" to help provide controlled compression. The proximal threads are designed to then "lock" in that compression rather than acting as the source of compression, thereby intending to not exceed what the distal thread purchase can tolerate.



UNIQUE DESIGN FEATURES

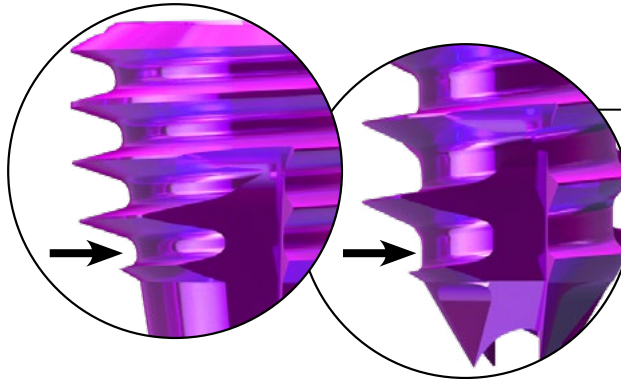
Hexalobe Driver:

Screw design allows for the largest possible hexalobe driver to be used to provide insertion torque without compromising strength.



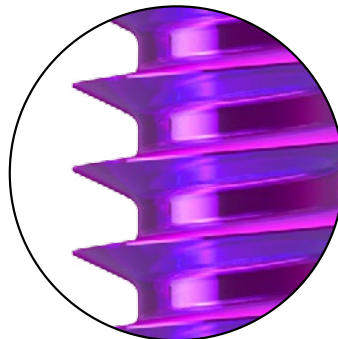
Forward Cutting Flutes for Headed and Headless Screws:

Allow for the screw to be self-tapping. The "flat" at each flute helps to cut into the bone and create a thread pattern during screw insertion.



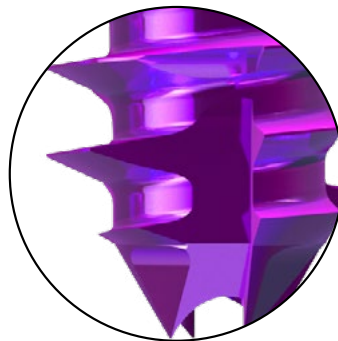
Sharp Threads:

Screw threads taper to a size of .02 mm (.0008") at the crest, allowing for improved definition between the thread and bone interface and increasing the surface area contact, allowing for better "bite" in soft or weaker bone.



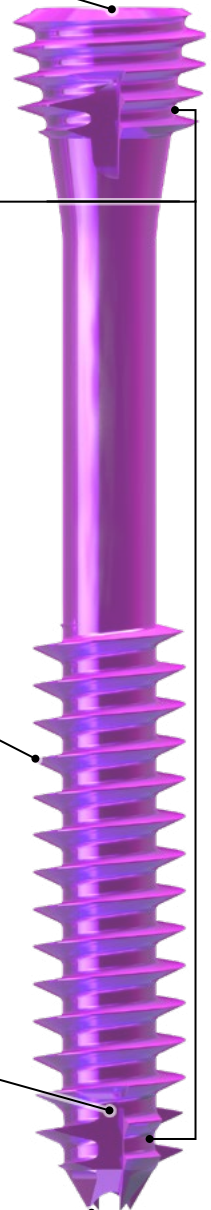
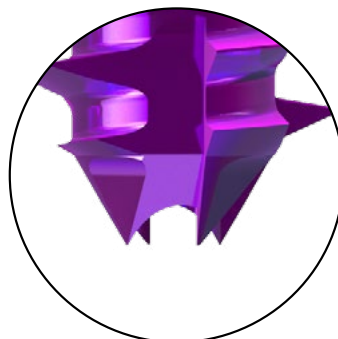
Reverse Cutting Flutes:

Self-tapping reverse threads help facilitate screw removal.



Sharp Tip:

The 4 sharp tips are self-drilling and self-tapping to allow for bone to escape along the backside of the tip and allow for less torque upon insertion.



SCREW OPTIONALITY - MINI-MONSTER SCREWS

Ø2.0 mm Screws	Headed:		Headless:	
Headed:				
Threads Offerings:	Fully Threaded	Partially Threaded	Partially Threaded: Long	Partially Threaded: Short
Screw Lengths:	8-20 mm 1 mm increments 22-50 mm 2 mm increments		30-50 mm 2 mm increments	10-20 mm 1 mm increments 22-50 mm 2 mm increments

Ø2.5 mm Screws	Headed:		Headless:	
Headed:				
Threads Offerings:	Fully Threaded	Partially Threaded	Partially Threaded: Long	Partially Threaded: Short
Screw Lengths:	10-20 mm 1 mm increments 22-50 mm 2 mm increments		30-50 mm 2 mm increments	10-20 mm 1 mm increments 22-50 mm 2 mm increments

Ø3.0 mm Screws	Headed:		Headless:
Headed:			
Threads Offerings:	Fully Threaded	Partially Threaded	Partially Threaded Short
Screw Lengths:	10-50 mm 2 mm increments		

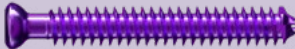
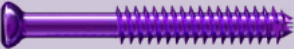
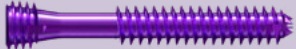
Ø3.5 mm Screws	Headed:		Headless:	
Headed:				
Threads Offerings:	Fully Threaded	Partially Threaded	Partially Threaded Short	
Screw Lengths:	10-50 mm 2 mm increments		12-50 mm 2 mm increments	

Ø4.0 mm Screws	Headed:			Headless:	
Headed:					
Threads Offerings:	Fully Threaded	Partially Threaded: Long	Partially Threaded: Short	Partially Threaded: Long	Partially Threaded: Short
Screw Lengths:	12-50 mm 2 mm increments 55-60 mm 5 mm increments	28-50 mm 2 mm increments 55-60 mm 5 mm increments	12-50 mm 2 mm increments 55-60 mm 5 mm increments	28-50 mm 2 mm increments 55-60 mm 5 mm increments	14-50 mm 2 mm increments 55-60 mm 5 mm increments

SCREW OPTIONALITY - MONSTER SCREWS

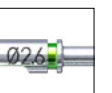
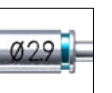
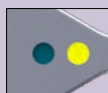
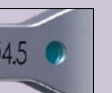
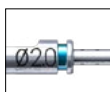
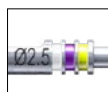
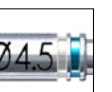
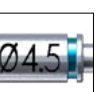
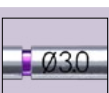
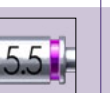
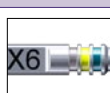
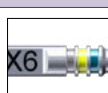
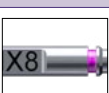
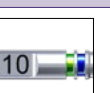
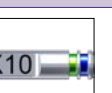
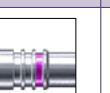
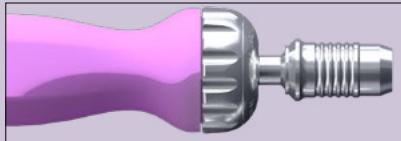
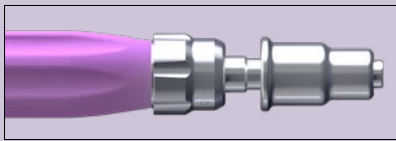
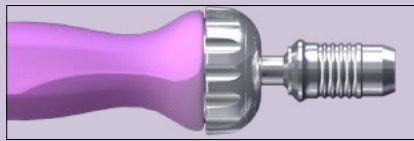
Ø4.5 mm Screws	Headed:		Headless:	
				
Threads Offerings:	Fully Threaded	Partially Threaded: Long	Partially Threaded: Long	Partially Threaded: Short
Screw Lengths:	18-50 mm 2 mm increments 55-70 mm 5 mm increments	20 - 50 mm 2 mm increments 55- 70 mm 5 mm increments	30-50 mm 2 mm increments 55-70 mm 5 mm increments	18-50 mm 2 mm increments 55-70 mm 5 mm increments
				
Threads Offerings:	Partially Threaded: Short			
Screw Lengths:	18-50 mm 2 mm increments 55-70 mm 5 mm increments			

Ø5.5 mm Screws	Headed:		Headless:	
				
Threads Offerings:	Fully Threaded	Partially Threaded: Long	Partially Threaded: Long	Partially Threaded: Short
Screw Lengths:	26-60 mm 2 mm increments 65-90 mm 5 mm increments	40-60 mm 2 mm increments 65-90 mm 5 mm increments	40-60 mm 2 mm increments 65-90 mm 5 mm increments	26-60 mm 2 mm increments 65-90 mm 5 mm increments
				
Threads Offerings:	Partially Threaded: Short			
Screw Lengths:	26-60 mm 2 mm increments 65-90 mm 5 mm increments			

Ø7.0 mm Screws	Headed:		Headless:	
				
Threads Offerings:	Fully Threaded	Partially Threaded: Long	Partially Threaded: Long	Partially Threaded: Medium
Screw Lengths:	36-50 mm and 72-90 mm 2 mm increments 55-70 mm and 95-130 mm 5 mm increments	44-50 mm and 72-90 mm 2 mm increments 55-70 mm and 95-130 mm 5 mm increments	72-90 mm 2 mm increments 60-70 mm and 95-130 mm 5 mm increments	44-50 mm and 72-90 mm 2 mm increments 55-70 mm and 95-130 mm 5 mm increments
				
Threads Offerings:	Partially Threaded: Medium	Partially Threaded: Short	Partially Threaded: Short	
Screw Lengths:	40-50 mm and 72-90 mm 2 mm increments 55-70 mm and 95-130 mm 5 mm increments	36-50 mm and 72-90 mm 2 mm increments 55-70 mm and 95-130 mm 5 mm increments	36-50 mm and 72-90 mm 2 mm increments 55-70 mm and 95-130 mm 5 mm increments	

MONSTER AND MINI-MONSTER SCREW INSTRUMENTATION

The chart below demonstrates screw sizes with their color coded corresponding instrumentation.

Screws:	Ø2.0 mm	Ø2.5 mm	Ø3.0 mm	Ø3.5 mm	Ø4.0 mm	Ø4.5 mm	Ø5.5 mm	Ø7.0 mm
K-wire Size:	 Ø0.9 mm	 Ø0.9 mm	 Ø1.1 mm	 Ø1.2 mm	 Ø1.2 mm	 Ø1.4 mm	 Ø1.6 mm	 Ø2.3 mm
Drill Size:	 Ø1.7 mm	 Ø1.7 mm	 Ø2.1 mm	 Ø2.3 mm	 Ø2.6 mm	 Ø2.9 mm	 Ø3.5 mm	 Ø4.6 mm
Drill Guide Size:	 Ø2.0/Ø2.5 mm	 Ø2.0/Ø2.5 mm	 Ø3.0 mm	 Ø3.5 mm	 Ø4.0 mm	 Ø4.5 mm	 Ø5.5 mm	 Ø7.0 mm
Overdrill Size:	 Ø2.0 mm	 Ø2.5 mm	 Ø3.0 mm	 Ø3.5 mm	 Ø4.0 mm	 Ø4.5 mm	 Ø5.5 mm	 Ø7.0 mm
Overdrill Guide Size:	 Ø2.0 mm	 Ø2.5 mm	 Ø3.0 mm	 Ø3.5 mm	 Ø4.0 mm	Not Available	Not Available	Not Available
Tap Size:	Not Available	 Ø2.5 mm	 Ø3.0 mm	 Ø3.5 mm	 Ø4.0 mm	 Ø4.5 mm	 Ø5.5 mm	 Ø7.0 mm
Countersink Size:	 Ø2.0 mm	 Ø2.5 mm	 Ø3.0 mm	 Ø3.5 mm	 Ø4.0 mm	 Ø4.5 mm	 Ø5.5 mm	 Ø7.0 mm
Driver Size:	 HX6 **	 HX6 **	 TX8	 TX10	 TX10	 TX15	 TX25	 TX30
Handles	Mini-Monster® System					Monster® System		
								
	AO Handle		Streamline AO Handle			3/16" AO Handle		
	All Handles can be used for both solid and cannulated screws							



**** Note:** A solid driver is provided in addition to the cannulated driver for the Ø2.0 mm and Ø2.5 mm screws. It is to be used when performing final screw insertion and tightening.

MONSTER AND MINI-MONSTER SCREW INSTRUMENTATION

The instruments depicted below are specific for each screw diameter within the Monster and Mini-Monster systems. The instruments shown are for the Ø4.0 mm Mini-Monster screw size as an example. All Monster and Mini-Monster instrumentation have colored band/markings that correspond to the screw size.

K-wires



Headed Screw Countersink



Headless Screw Countersink

Depth Gauge

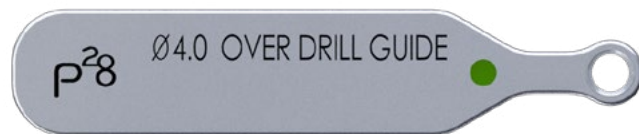


Drill



Drill Guide

Overdrill



Overdrill Guide

Tap



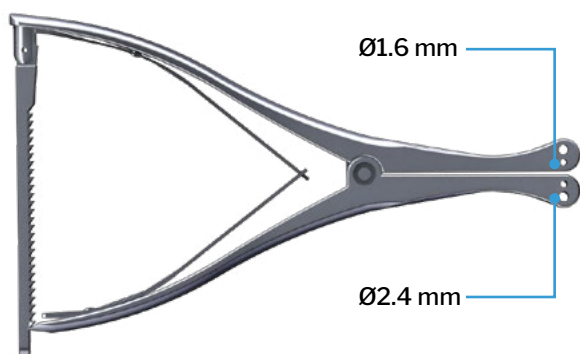
Driver

MONSTER SCREW SYSTEM INSTRUMENTATION



Parallel K-wire Guide

Assists in spacing and positioning of K-wires for Ø7.0 mm Monster Screws, to allow for a second K-wire to be placed parallel to the initial K-wire. An indicator is also present to allow for appropriate spacing between two K-wires, such that two Ø7.0 mm Monster Screws can be placed without screw head collision.



Hintermann Retractor

The larger, outside holes accommodates Ø2.3 mm K-wires but can alternatively be used with a Steinmann Pin up to Ø2.4 mm. The smaller, inner hole accommodates up to Ø1.6 mm K-wires.



3/16" Jacob's Adaptor

Available for the Ø4.5 mm, Ø5.5 mm, and Ø7.0 mm Monster Screw sizes.



Cleaning Stylet:

Monster Screw Washer Options:

- Bowl Washer allows for the washer to be seated in the countersunk portion of the bone.
- Split-Flat and Bowl-Slot Washers allow for placement of a washer after screw insertion without the need to back the screw out.

Washer Options:	Deep -Well	Flat	Domed	Bowl	Split-Flat	Bowl-Slot
Shape:						
Sizes Offered:	Ø2.0 mm Ø2.5 mm Ø3.0 mm Ø3.5 mm Ø4.0 mm	Ø4.5 mm Ø5.5 mm Ø7.0 mm	Ø4.5 mm Ø5.5 mm Ø7.0 mm	Ø7.0 mm	Ø7.0 mm	Ø7.0 mm

FluoroBand™ Guide Wires:

- The Monster Screw thread length is determined by which Fluoroband is at or crossing the arthrodesis, osteotomy or fracture site.
 - If the 1st FluoroBand is not across the site, then use a short thread length screw.
 - If the 1st FluoroBand is across the site but not 2nd FluoroBand™, use either a short or medium thread length screw.
 - If the 2nd FluoroBand is across the site then use the long thread length screw.
 - Available in smooth and threaded options.

2nd Fluoroband is located 32 mm
from the tip of the wire

1st Fluoroband is located 20 mm
from the tip of the wire



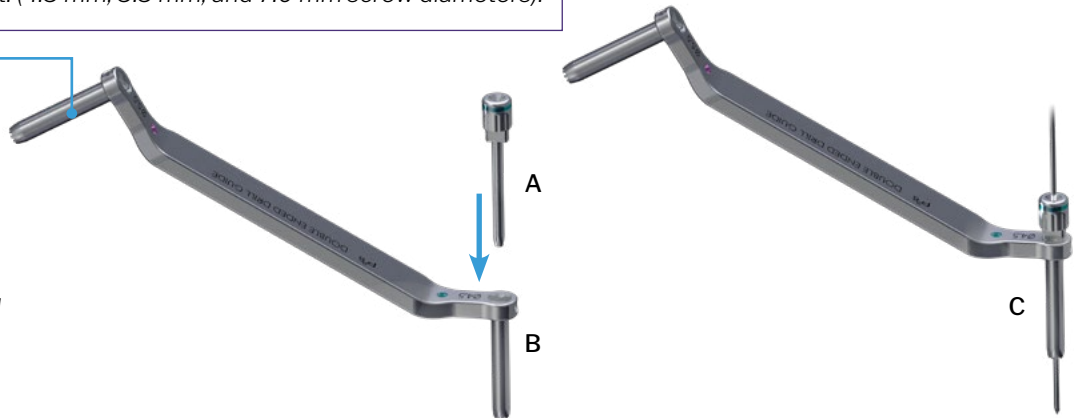
MONSTER SCREW SYSTEM INSTRUMENTATION



Note: The instruments listed below are contained only in the Monster Screw System Midfoot/Hindfoot Set. (4.5 mm, 5.5 mm, and 7.0 mm screw diameters).

2-in-1 Tissue Protector

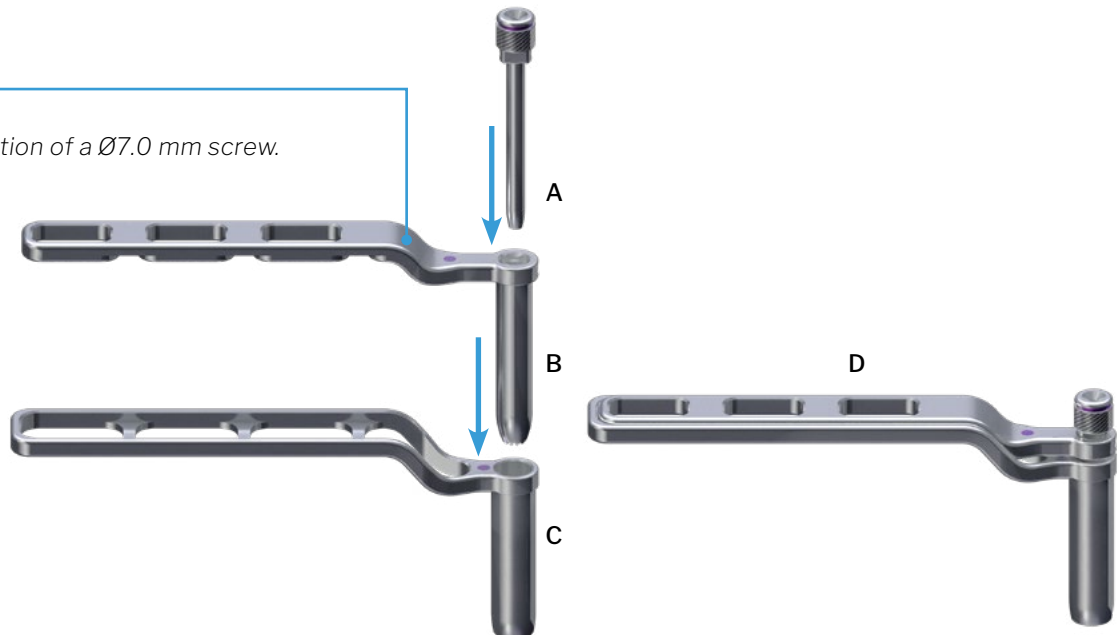
A K-wire guide (A) is available for the Monster Screw Systems that inserts into the drill guide (B) for the screw size selected. With the K-wire guide inserted into the drill guide, the K-wire can be driven into bone with soft tissue protection. (C) Both smooth and threaded K-wires are available in the Monster Screw System Case.



Note: The instruments below are specific to the Monster Ø7.0 mm Screws.

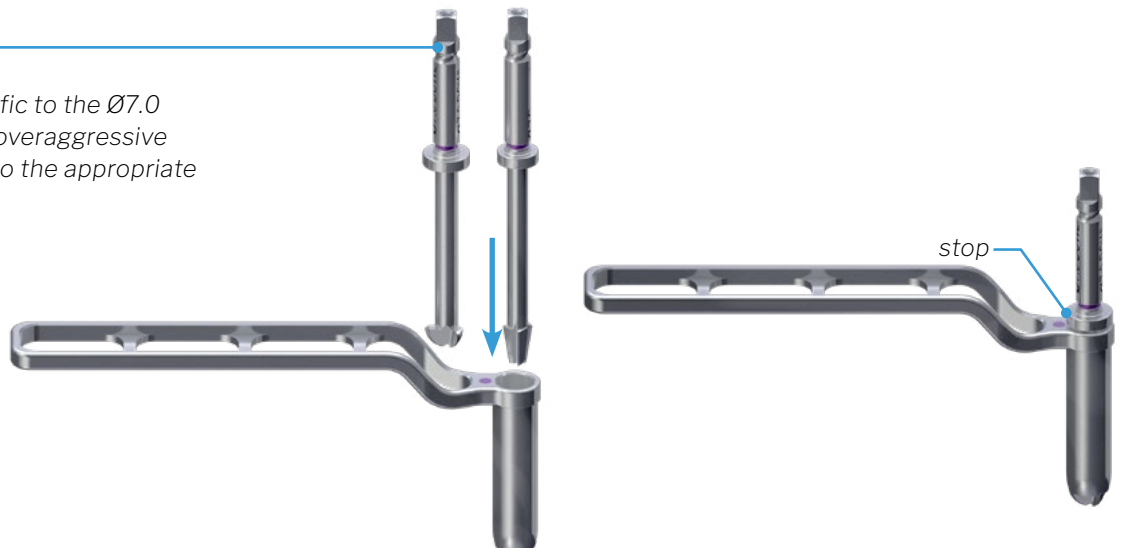
3-In-1 Tissue Protector

Available for minimally invasive insertion of a Ø7.0 mm screw. The assembly contains: K-wire Guide (A), Drill Guide (B), and Tissue Protector (C), which can be pre-assembled (D).

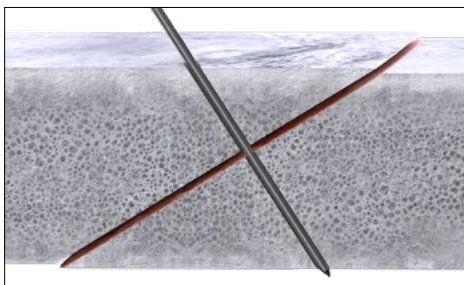


Countersinks with Stops

The Countersink with a stop is specific to the Ø7.0 mm screw size prevents accidental overaggressive countersinking by only penetrating to the appropriate depth.



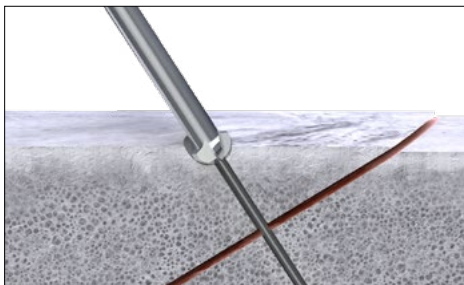
PARTIALLY THREADED HEADED SCREW INSERTION



Note: The use of a Ø4.0 mm screw is demonstrated, however the steps below are applicable to all screw sizes. Refer to the table on page 7 for the proper instrumentation that corresponds to the desired screw diameter.

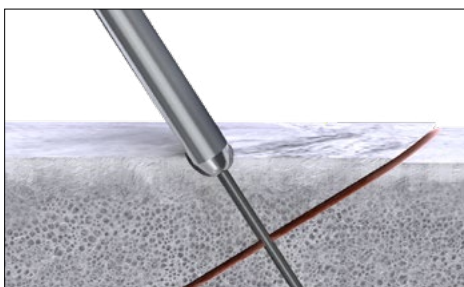
K-wire:

Insert a Ø1.2 mm K-wire across the arthrodesis, fracture, or osteotomy site. Confirm trajectory using fluoroscopy. A K-wire Guide is available for the Monster Screw System (Ø4.5 mm, Ø5.5mm, and Ø7.0 mm).



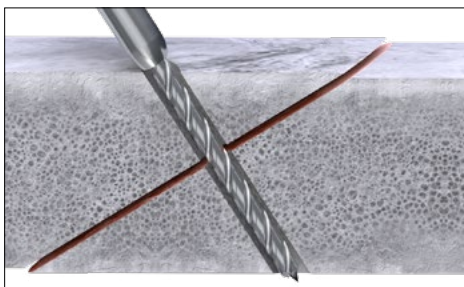
Countersink:

Retrieve the Ø4.0 mm Countersink for the Ø4.0 mm Mini-Monster Screw, and attach to the appropriate driver. Rotate the Countersink clockwise over the K-wire to remove adequate bone to seat the screw.



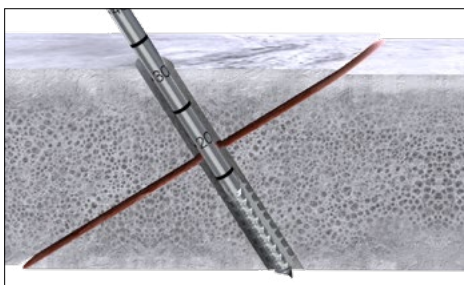
Measure:

Measure for screw length using the Depth Gauge.



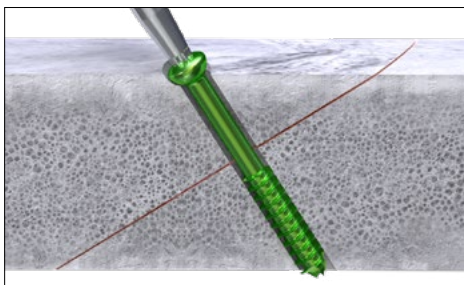
Drill:

Drill over the K-wire using the Ø2.6 mm Drill for the Ø4.0 mm Mini-Monster Screw. The Cannulated Drill may be used to measure for screw length when it is used in conjunction with a Drill Guide. For Headed screws the estimated head height must be subtracted from the length drilled.



Optional Tap:

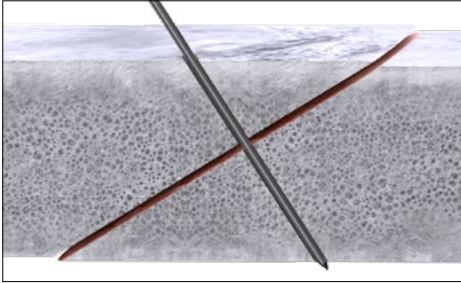
Taps are provided to be used in situations where hard bone is encountered, or resistance to screw insertion occurs. Attach the tap to the appropriate sized handle and hand tap.



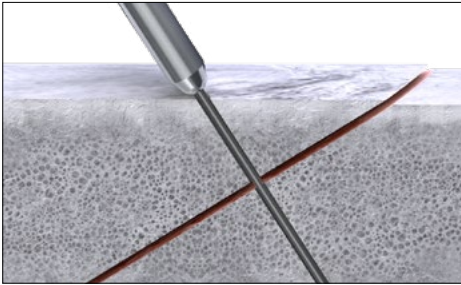
Screw Insertion:

Attach the appropriate driver to the corresponding handle. Insert a Ø4.0 mm Mini-Monster screw by turning the Driver in a clockwise manner. Confirm screw length and position using fluroscopy. Remove the Ø1.2 mm K-wire at this time.

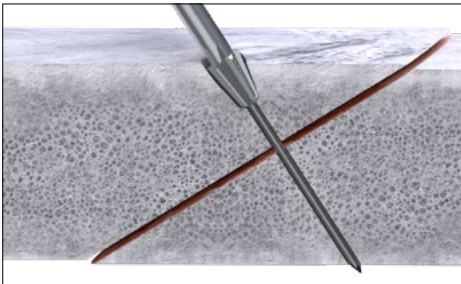
PARTIALLY THREADED HEADLESS SCREW INSERTION

**K-wire:**

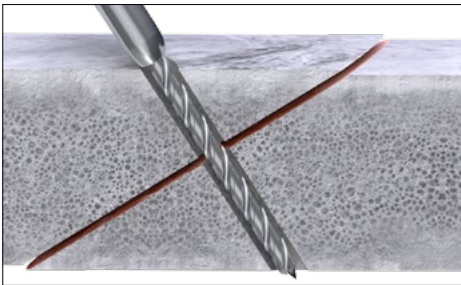
Insert a Ø1.2 mm K-wire across the arthrodesis, fracture, or osteotomy site. Confirm trajectory using fluoroscopy. A K-wire Guide is available for the Monster Screw System (Ø4.5 mm, Ø5.5mm, and Ø7.0 mm).

**Measure:**

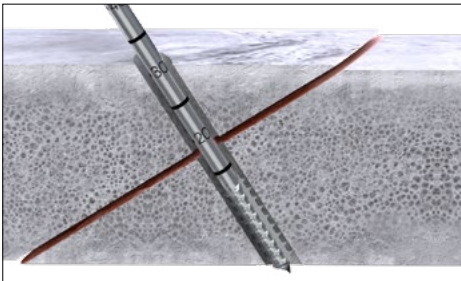
Measure for screw length using the Depth Gauge.

**Countersink:**

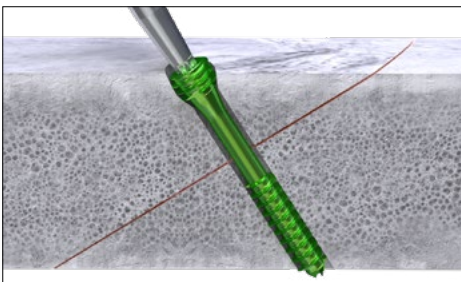
Retrieve the Ø4.0 mm Countersink for the Ø4.0 mm Mini-Monster Screw, and attach to the appropriate driver. Rotate the Countersink clockwise over the K-wire to remove adequate bone to seat the screw.

**Drill:**

Drill over the K-wire using the Ø2.6 mm Drill for the Ø4.0 mm Mini-Monster Screw. For Headless screws, the Cannulated Drill may be used to directly measure for screw length.

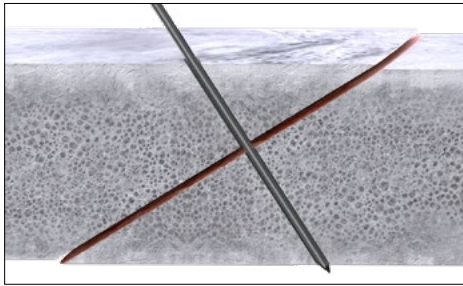
**Optional Tap:**

Taps are provided to be used in situations where hard bone is encountered, or resistance to screw insertion occurs. Attach the tap to the appropriate sized handle and hand tap.

**Screw Insertion:**

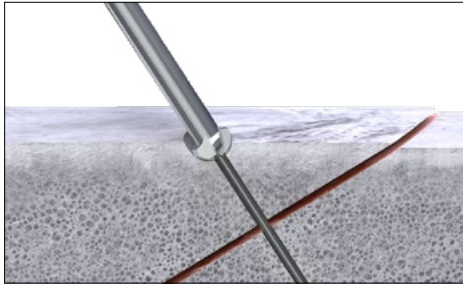
Attach the appropriate driver to the corresponding handle. Insert a Ø4.0 mm Mini-Monster screw by turning the Driver in a clockwise manner. Confirm screw length and position using fluroscopy. Remove the Ø1.2 mm K-wire at this time.

FULLY THREADED SCREW INSERTION



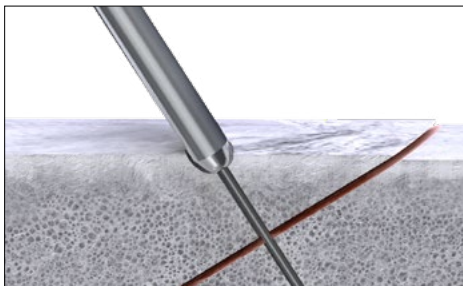
K-wire:

Insert a Ø1.2 mm K-wire across the arthrodesis, fracture, or osteotomy site. Confirm trajectory using fluoroscopy. A K-wire Guide is available for the Monster Screw System (Ø4.5 mm, Ø5.5mm, and Ø7.0 mm).



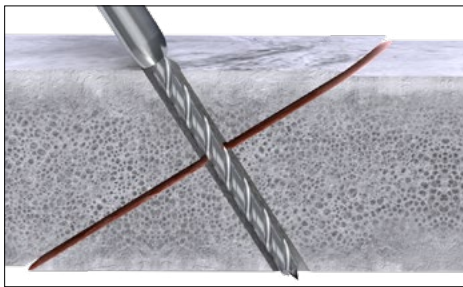
Countersink:

Retrieve the Ø4.0 mm Countersink for the Ø4.0 mm Mini-Monster Screw, and attach to the appropriate driver. Rotate the Countersink clockwise over the K-wire to remove adequate bone to seat the screw.



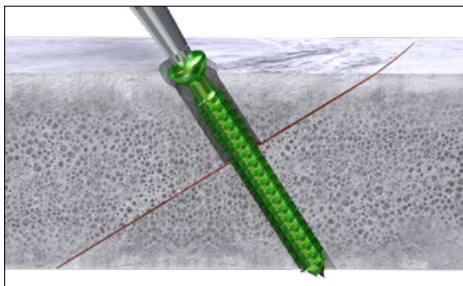
Measure:

Measure for screw length using the Depth Gauge.



Drill:

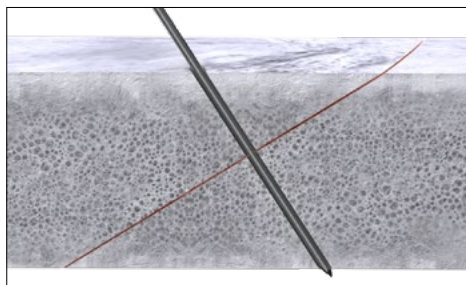
Drill over the K-wire using the Ø2.6 mm Drill for the Ø4.0 mm Mini-Monster Screw. The Cannulated Drill may be used to measure for screw length when it is used in conjunction with a Drill Guide. For Headed screws, the estimated head height must be subtracted from the length drilled.



Screw Insertion:

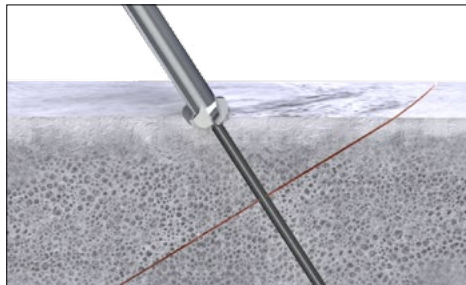
Attach the appropriate driver to the corresponding handle. Insert a Ø4.0 mm Mini-Monster screw by turning the Driver in a clockwise manner. Confirm screw length and position using fluroscopy. Remove the Ø1.2 mm K-wire at this time.

FULLY THREADED SCREW INSERTION WITH COMPRESSION



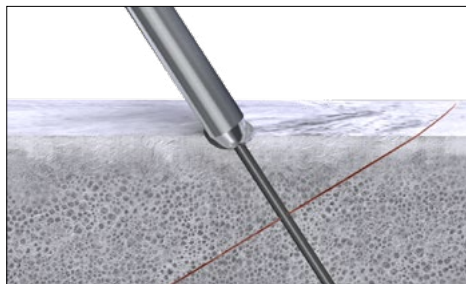
K-wire:

Insert a Ø1.2 mm K-wire across the arthrodesis, fracture, or osteotomy site. Confirm trajectory using fluoroscopy. A K-wire Guide is available for the Monster Screw System (Ø4.5 mm, Ø5.5mm, and Ø7.0 mm).



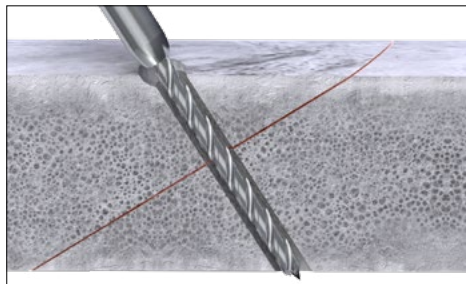
Countersink:

Retrieve the Ø4.0 mm Countersink for the Ø4.0 mm Mini-Monster Screw, and attach to the appropriate driver. Rotate the Countersink clockwise over the K-wire to remove adequate bone to seat the screw.



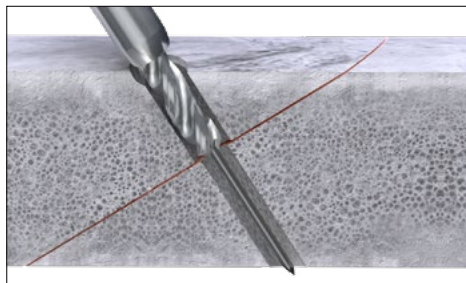
Measure:

Measure for screw length using the Depth Gauge.



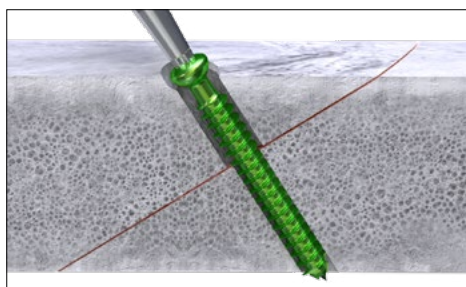
Drill:

Drill over the K-wire using the Ø2.6 mm Drill for the Ø4.0 mm Mini-Monster Screw. The Cannulated Drill may be used to measure for screw length when it is used in conjunction with a Drill Guide. For Headed screws, the estimated head height must be subtracted from the length drilled.



Overdrill:

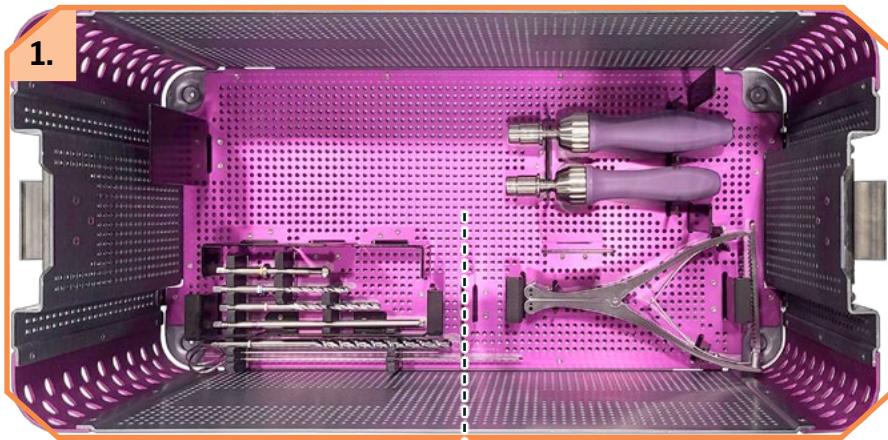
Overdrill Guides are provided for the Monster and Mini-Monster screw sets, and is sized to fit the screw outer diameter and the Overdrill. The colored dot on the top of the Overdrill Guide corresponds to the screw color.



Screw Insertion:

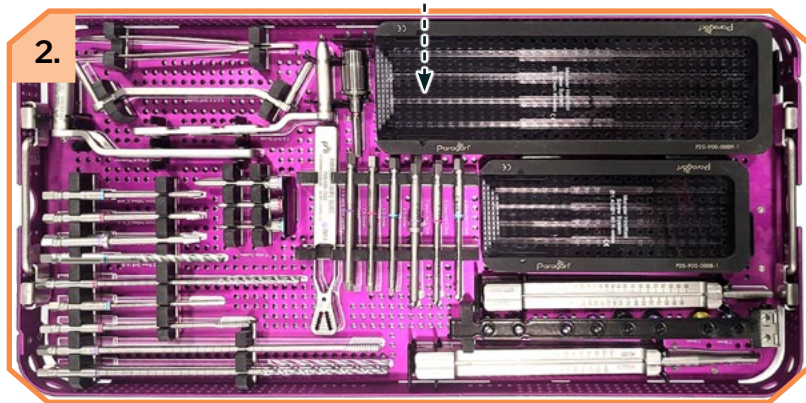
Attach the appropriate driver to the corresponding handle. Insert a Ø4.0 mm Mini-Monster screw by turning the Driver in a clockwise manner. Confirm screw length and position using fluoroscopy. Remove the Ø1.2 mm K-wire at this time.

THE MONSTER® SCREW SYSTEM CADDY



1. MONSTER® CASE

The Hintermann Retractor, Ø7.0 Countersink, Bowl Washer, Overdrills (square connection Ø4.5 mm, Ø5.5 mm, Ø7.0mm), TX-30 Driver 3/16" connection, Cleaning Stylet (1.4 mm and 2.3 mm) and the large and small 3/16" sq Ratcheting Handles are all located in the bottom of the case.

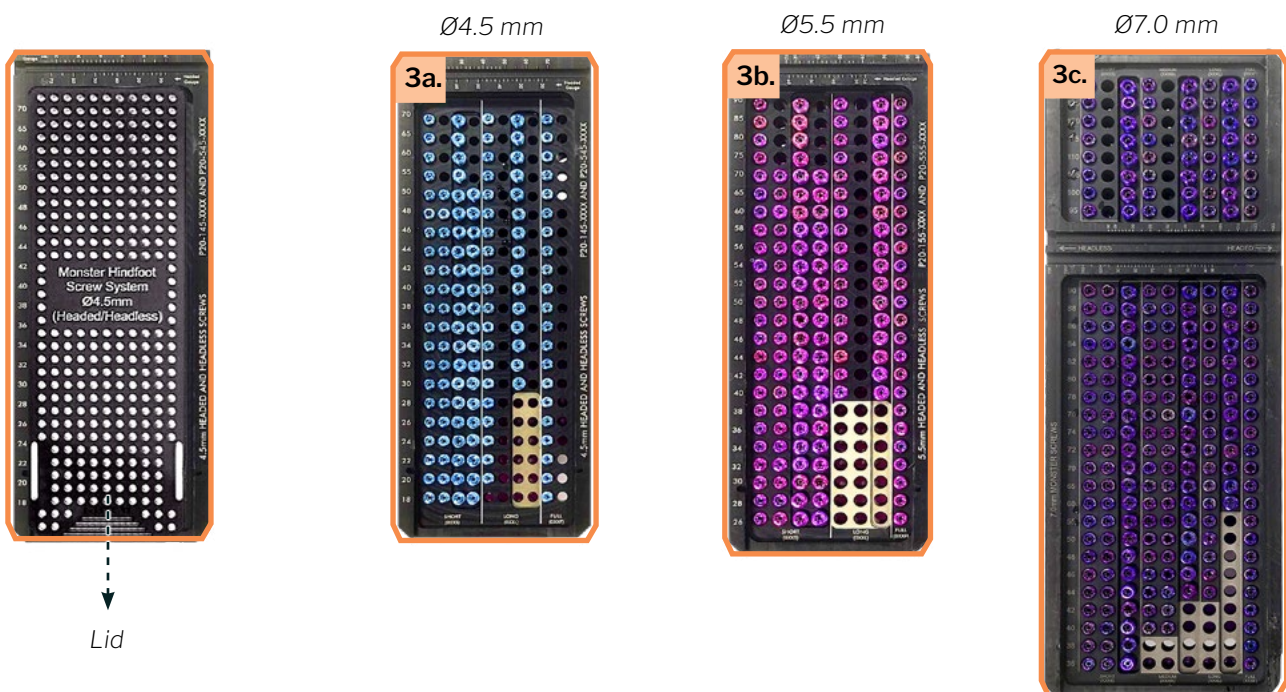


2. MONSTER® INSTRUMENT TRAY

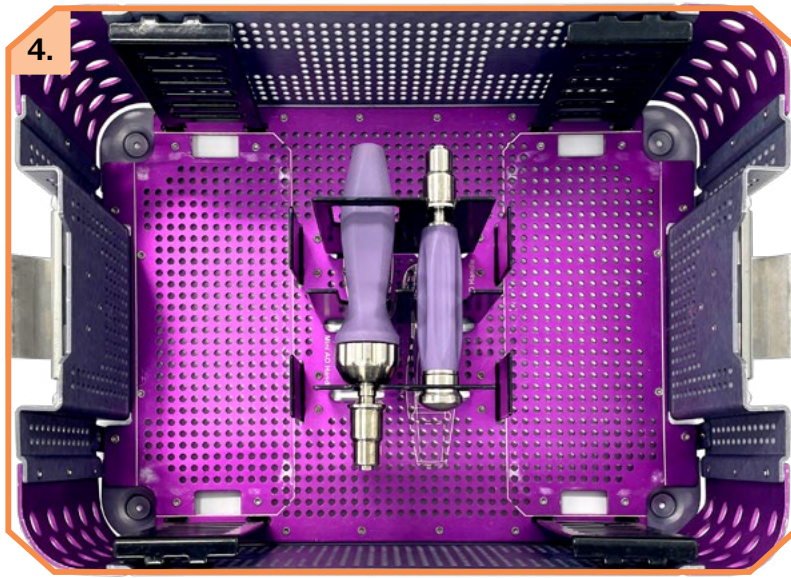
The tray that sits atop the screw caddies contains two bins for K-wires: the longer bin containing the Guide Wires and FluoroBand™ Guide Wires for Ø7.0 mm screws and the shorter bin containing the Guide Wires for the Ø4.5 mm and Ø5.5 mm screws. Also contained in this tray are Countersinks, Washers, Drivers, Drill Guides, Taps, Depth Gauges, the Parallel K-wire Guide, the 3/16" Jacobs Adapter, and the 3-In-1 Tissue Protector for the Ø7.0 mm screws.

3a-3c. MONSTER® SCREW SYSTEM CADDY

The Monster® Screw System Midfoot/Hindfoot Set contains the caddies for Ø4.5 mm, Ø5.5 mm, and Ø7.0 mm



THE MINI-MONSTER® SCREW SYSTEM CADDY

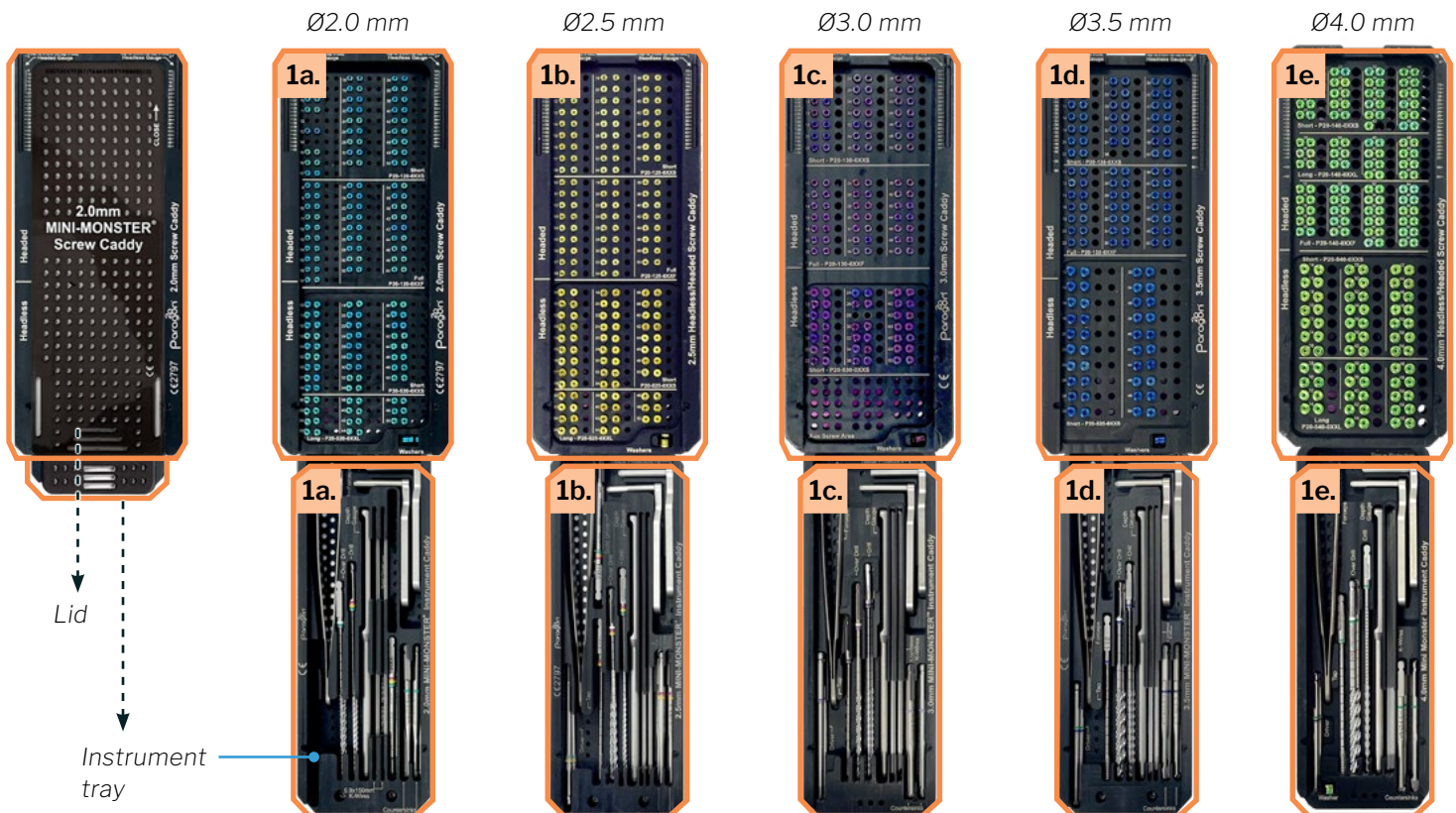


4. MINI-MONSTER® SCREW SYSTEM CASE

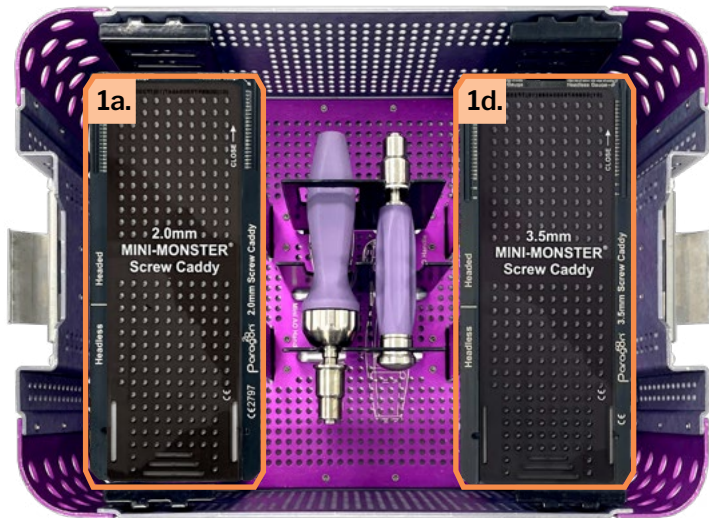
The Mini-Monster® Case contains both of the AO and Mini-AO Driver Handles and has available space for various configurations of desired screw caddy's. Configurations include 2-in-1 and 5-in-1.

MINI-MONSTER® SCREW SYSTEM CADDY

1a-1e. Each Mini-Monster® screw diameter contains an individual caddy for Headed Screws and Headless Screws. The tray beneath each Screw Caddy contains the instruments unique to the particular diameter screw chosen.



THE MONSTER® AND MINI-MONSTER® CASE OPTIONALITY



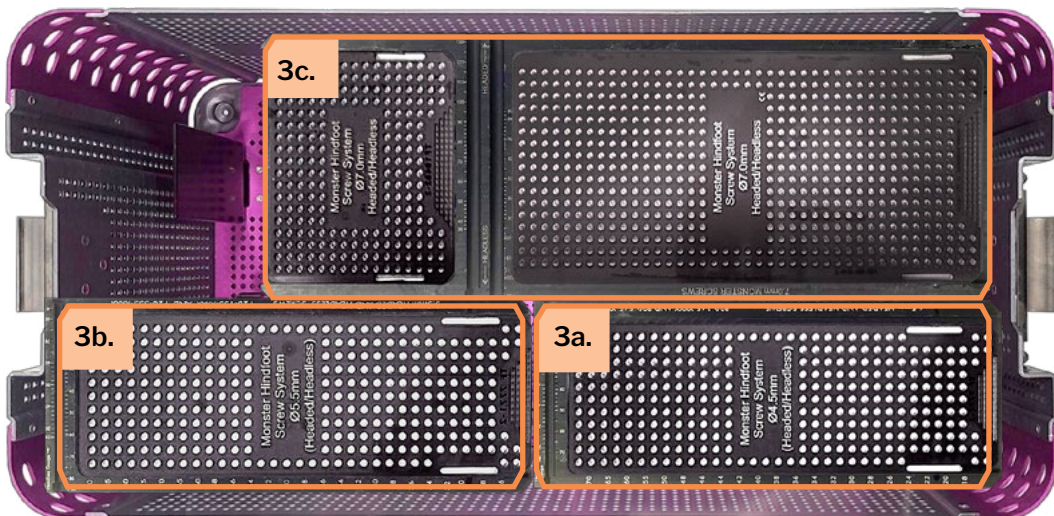
MINI-MONSTER® 2-IN-1 CASE OPTION:

The Mini-Monster® 2-in-1 option allows for two screw diameter caddies to be transported to a surgery.



MINI-MONSTER® 5-IN-1 CASE OPTION:

The Mini-Monster® 5-in-1 option allows for up to five screw diameter caddies to be transported to a surgery.



MONSTER® HINDFOOT CASE:

The Monster® Screw System Midfoot/ Hindfoot Set contains the screw caddy for Ø4.5 mm, Ø5.5 mm, Ø7.0 mm with both Headed and Headless variations.

MONSTER SCREW SYSTEM CASE AND TRAY:

Part #	Description	Use
P20-045-WD00	Monster, Washer, Ø4.5mm, Dome, TiA	Single-use
P20-045-WF00	Monster, Washer, Ø4.5mm, Flat, TiA	Single-use
P20-055-WD00	Monster, Washer, Ø5.5mm, Dome, TiA	Single-use
P20-055-WF00	Monster, Washer, Ø5.5mm, Flat, TiA	Single-use
P20-070-WB00	Monster, Washer, Ø7.0mm, Bowl, TiA	Single-use
P20-070-WD00	Monster, Washer, Ø7.0mm, Dome, TiA	Single-use
P20-070-WF00	Monster, Washer, Ø7.0mm, Flat, TiA	Single-use
P20-910-4500	Monster, Instrument, Countersink, Ø4.5 mm, Headed, Cannulated, SS	Reusable
P20-910-5500	Monster, Instrument, Countersink, Ø5.5 mm, Headed, Cannulated, SS	Reusable
P20-910-7000	Monster, Instrument, Countersink, Ø7.0 mm, Headed, Cannulated, SS	Reusable
P20-910-WB70	Monster, Instrument, Countersink, Ø7.0mm, Bowl Washer, Cannulated, SS	Reusable
P20-915-4500	Monster, Instrument, Countersink, Ø4.5 mm, Headless, Cannulated, SS	Reusable
P20-915-5500	Monster, Instrument, Countersink, Ø5.5 mm, Headless, Cannulated, SS	Reusable
P20-915-7000	Monster, Instrument, Countersink, Ø7.0 mm, Headless, Cannulated, SS	Reusable
P20-920-4500	Monster, Instrument, Tap, Ø4.5 mm, Cannulated, SS	Reusable
P20-920-5500	Monster, Instrument, Tap, Ø5.5 mm, Cannulated, SS	Reusable
P20-920-7000	Monster, Instrument, Tap, Ø7.0 mm, Cannulated, SS	Reusable
P20-930-7000	Monster, Instrument, Tissue Protector, Ø7.0 mm, SS	Reusable
P20-931-7000	Monster, Instrument, Drill Guide, Ø7.0 mm, SS	Reusable
P20-932-4500	Monster, Instrument, K-wire Guide, Ø1.4 mm, SS	Reusable
P20-932-5500	Monster, Instrument, K-wire Guide, Ø1.6 mm, SS	Reusable
P20-932-7000	Monster, Instrument, K-wire Guide, Ø2.3 mm, SS	Reusable
P20-935-7000	Monster, Instrument, K-wire Guide, Ø2.3mm, Parallel, SS	Reusable
P20-940-4555	Monster, Instrument, Drill Guide, Ø4.5mm & Ø5.5mm, Double, SS	Reusable
P20-952-4555	Monster, Instrument, Depth Gauge, Ø4.5mm & Ø5.5mm, SS	Reusable
P20-952-7000	Monster, Instrument, Depth Gauge, Ø7.0mm, SS	Reusable
P99-000-316A	P28, Jacobs Adapter, 3/16 Sq, Cannulated, SS	Reusable
P99-000-316L	P28, Handle, 3/16" Sq, Cannulated, Ratcheting, Large	Reusable
P99-000-316M	P28, Handle, 3/16" Sq, Cannulated, Ratcheting, Medium	Reusable
P99-110-2914	P28, Drill, Ø2.9 x 140 mm, Cannulated, 3/16 Sq, SS	Reusable
P99-110-3516	P28, Drill, Ø3.5 x 160 mm, Cannulated, 3/16 Sq, SS	Reusable
P99-110-4511	P28, Drill, Ø4.5 X 110 mm, Cannulated, 3/16 Sq, SS	Reusable
P99-110-4622	P28, Drill, Ø4.6 x 220 mm, Cannulated, 3/16 Sq, SS	Reusable
P99-110-5513	P28, Drill, Ø5.5 x 130 mm, Cannulated, 3/16 Sq, SS	Reusable
P99-110-7020	P28, Drill, Ø7.0 x 200 mm, Cannulated, 3/16 Sq, SS	Reusable
P99-150-0001	P28, Screw Forceps, TiA	Reusable
P99-150-0010	P28, Distractor, Hintermann, Large, SS	Reusable
P99-190-TX15	P28, Driver, TX-15, Cannulated, SS	Reusable
P99-190-TX25	P28, Driver, TX-25, Cannulated, SS	Reusable
P99-190-TX30	P28, Driver, TX-30, Cannulated, SS	Reusable
P99-190-TX30	P28, Driver, TX-30, Cannulated, Long, SS	Reusable

MONSTER SCREW SYSTEM CASE AND TRAY:

Part #	Description	Use
P99-192-1415	P28, K-Wire, Ø1.4 x 150 mm, Single Trocar, SMOOTH, SS	Single-use
P99-192-1615	P28, K-Wire, Ø1.6 x 150 mm, Single Trocar, SMOOTH, SS	Single-use
P99-192-2323	P28, K-Wire, Ø2.3 x 230 mm, Single Trocar, SMOOTH, SS	Single-use
P99-193-1415	P28, K-Wire, Ø1.4 x 150 mm, Single Trocar, THREADED, SS	Single-use
P99-194-2323	P28, K-Wire, Ø2.3 x 230 mm, Single Trocar, SMOOTH, FluoroBand, SS	Single-use
P99-195-2323	P28, K-Wire, Ø2.3 x 230 mm, Single Trocar, THREADED, FluoroBand, SS	Single-use
P99-900-1005	P28, Instrument, FootPlate	Reusable
P99-998-0014	P28, Cleaning Stylet, Ø1.4 mm, SS	Reusable
P99-998-0023	P28, Cleaning Stylet, Ø2.3 mm, SS	Reusable

Ø4.5MM MONSTER SCREW SYSTEM COMBINATION CADDY

Part #	Description	Use
P20-145-0[18-70]F	Cannulated, Full Thread Screw, Headed, Ø4.5 x 18-70mm	Single-use
P20-145-0[20-70]L	Cannulated, Long Thread Screw, Headed, Ø4.5 x 20-70mm	Single-use
P20-145-0[18-70]S	Cannulated, Short Thread Screw, Headed, Ø4.5 x 18-70mm	Single-use
P20-545-0[30-70]L	Cannulated, Long Thread Screw, Headless, Ø4.5 x 30-70mm	Single-use
P20-545-0[18-70]S	Cannulated, Short Thread Screw, Headless, Ø4.5 x 18-70mm	Single-use

Ø5.5MM MONSTER SCREW SYSTEM COMBINATION CADDY

Part #	Description	Use
P20-155-0[26-90]F	Cannulated, Full Thread Screw, Headed, Ø5.5 x 26-90mm	Single-use
P20-155-0[40-90]L	Cannulated, Long Thread Screw, Headed, Ø5.5 x 40-90mm	Single-use
P20-155-0[26-90]S	Cannulated, Short Thread Screw, Headed, Ø5.5 x 26-90mm	Single-use
P20-555-0[40-90]L	Cannulated, Long Thread Screw, Headless, Ø5.5 x 40-90mm	Single-use
P20-555-0[26-90]S	Cannulated, Short Thread Screw, Headless, Ø5.5 x 26-90mm	Single-use

Ø7.0MM MONSTER SCREW SYSTEM COMBINATION CADDY

Part #	Description	Use
P20-170-[036-130]F	Cannulated, Full Thread Screw, Headed, Ø7.0 x 36-130mm	Single-use
P20-170-[044-130]L	Cannulated, Long Thread Screw, Headed, Ø7.0 x 36-130mm	Single-use
P20-170-[040-130]M	Cannulated, Medium Thread Screw, Headed, Ø7.0 x 40-130mm	Single-use
P20-170-[036-130]S	Cannulated, Short Thread Screw, Headed, Ø7.0 x 36-130mm	Single-use
P20-570-[060-130]L	Cannulated, Long Thread Screw, Headless, Ø7.0 x 60-130mm	Single-use
P20-570-[044-130]M	Cannulated, Medium Thread Screw, Headless, Ø7.0 x 36-130mm	Single-use
P20-570-[036-130]S	Cannulated, Short Thread Screw, Headless, Ø7.0 x 36-130mm	Single-use

*See pages 5-6 for screw size increments

Ø4.5MM MONSTER SCREW SYSTEM HEADED SCREW CADDY: _____

Part #	Description	Use
P20-145-0[18-70]F	Cannulated, Full Thread Screw, Headed, Ø4.5 x 18-70mm	Single-use
P20-145-0[20-70]L	Cannulated, Long Thread Screw, Headed, Ø4.5 x 20-70mm	Single-use
P20-145-0[18-70]S	Cannulated, Short Thread Screw, Headed, Ø4.5 x 18-70mm	Single-use

Ø5.5MM MONSTER SCREW SYSTEM HEADED SCREW CADDY: _____

Part #	Description	Use
P20-155-0[26-90]F	Cannulated, Full Thread Screw, Headed, Ø5.5 x 26-90mm	Single-use
P20-155-0[40-90]L	Cannulated, Long Thread Screw, Headed, Ø5.5 x 40-90mm	Single-use
P20-155-0[26-90]S	Cannulated, Short Thread Screw, Headed, Ø5.5 x 26-90mm	Single-use

Ø4.5MM MONSTER SCREW SYSTEM HEADLESS SCREW CADDY: _____

Part #	Description	Use
P20-545-0[30-70]L	Cannulated, Long Thread Screw, Headless, Ø4.5 x 30-70mm	Single-use
P20-545-0[18-70]S	Cannulated, Short Thread Screw, Headless, Ø4.5 x 18-70mm	Single-use

Ø5.5MM MONSTER SCREW SYSTEM COMBINATION CADDY: _____

Part #	Description	Use
P20-555-0[40-90]L	Cannulated, Long Thread Screw, Headless, Ø5.5 x 40-90mm	Single-use
P20-555-0[26-90]S	Cannulated, Short Thread Screw, Headless, Ø5.5 x 26-90mm	Single-use

Ø7.0MM MONSTER SCREW SYSTEM COMBINATION CADDY: _____

Part #	Description	Use
P20-570-[060-130]L	Cannulated, Long Thread Screw, Headless, Ø7.0 x 60-130mm	Single-use
P20-570-[044-130]M	Cannulated, Medium Thread Screw, Headless, Ø7.0 x 36-130mm	Single-use
P20-570-[036-130]S	Cannulated, Short Thread Screw, Headless, Ø7.0 x 36-130mm	Single-use

Ø2.0MM MINI-MONSTER SCREW SYSTEM COMBINATION CADDY: _____

Part #	Description	Use
P20-120-0[08-50]F	Cannulated, Full Thread, Headed, Ø2.0 x 8-50mm	Single-use
P20-120-0[08-50]S	Cannulated, Short Thread, Headed, Ø2.0 x 8-50mm	Single-use
P20-520-0[30-50]L	Cannulated, Long Thread, Headless, Ø2.0 x 30-50mm	Single-use
P20-520-0[10-50]S	Cannulated, Short Thread, Headless, Ø2.0 x 10-50mm	Single-use
P20-910-2000	Ø2.0 Mini-Monster Headed Countersink	Reusable
P20-915-2000	Ø2.0 Mini-Monster Headless Countersink	Reusable
P20-941-2025	Mini-Monster Ø2.0/Ø2.5 Drill Guide	Reusable
P20-942-2000	Mini-Monster Ø2.0 Over Drill Guide	Reusable
P20-951-2040	Depth Gauge, K-wire measuring	Reusable
P99-110-1712	Ø1.7mm Drill, Cannulated	Single-use
P99-110-2011	Ø2.0 Over Drill	Single-use
P99-150-0001	Forceps	Reusable

Ø2.0MM MINI-MONSTER SCREW SYSTEM COMBINATION CADDY CONT: _____

Part #	Description	Use
P99-190-TX06	HX6 Cannulated Driver	Reusable
P99-191-TX06	HX6 Solid Driver	Reusable
P99-192-0915	Ø0.9mm x 150mm K-WIRE, Smooth	Single-use
P99-292-0915	Ø0.9mm x 150mm Smooth, K-Wire, Dub End	Single-use

Ø2.5MM MINI-MONSTER SCREW SYSTEM COMBINATION CADDY: _____

Part #	Description	Use
P20-125-0[10-50]F	Cannulated, Full Thread, Headed, Ø2.5 x 10-50mm	Single-use
P20-125-0[10-50]S	Cannulated, Short Thread, Headed, Ø2.5 x 10-50mm	Single-use
P20-525-0[30-50]L	Cannulated, Long Thread, Headless, Ø2.5 x 30-50mm	Single-use
P20-525-0[10-50]S	Cannulated, Short Thread, Headless, Ø2.5 x 10-50mm	Single-use
P20-910-2500	Ø2.5 Mini-Monster Headed Countersink	Reusable
P20-915-2500	Ø2.5 Mini-Monster Headless Countersink	Reusable
P20-920-2500	Ø2.5mm Mini-Monster Tap	Reusable
P20-941-2025	Mini-Monster Ø2.0/Ø2.5 Drill Guide	Reusable
P20-942-2500	Mini-Monster Ø2.5 Over Drill Guide	Reusable
P20-951-2040	Depth Gauge, K-wire measuring	Reusable
P99-110-1712	Ø1.7mm Drill, Cannulated	Single-use
P99-110-2511	Ø2.5 Over Drill	Single-use
P99-150-0001	Forceps	Reusable
P99-190-TX06	HX6 Cannulated Driver	Reusable
P99-191-TX06	HX6 Solid Driver	Reusable
P99-192-0915	Ø0.9mm x 150mm K-WIRE, Smooth	Single-use
P99-292-0915	Ø0.9mm x 150mm Smooth, K-Wire, Dub End	Single-use

Ø3.0MM MINI-MONSTER SCREW SYSTEM COMBINATION CADDY: _____

Part #	Description	Use
P20-130-0[10-50]F	Cannulated, Full Thread, Headed, Ø3.0 x 10-50mm	Single-use
P20-130-0[10-50]S	Cannulated, Short Thread, Headed, Ø3.0 x 10-50mm	Single-use
P20-530-0[10-50]S	Cannulated, Short Thread, Headless, Ø3.0 x 10-50mm	Single-use
P20-910-3000	Ø3.0 Mini-Monster Headed Countersink	Reusable
P20-915-3000	Ø3.0 Mini-Monster Headless Countersink	Reusable
P20-920-3000	Ø3.0mm Mini-Monster Tap	Reusable
P20-941-3000	Mini-Monster Ø3.0 Drill Guide	Reusable
P20-942-3000	Mini-Monster Ø3.0 Over Drill Guide	Reusable
P20-951-2040	Depth Gauge, K-wire measuring	Reusable
P99-110-2112	Ø2.1mm Drill, Cannulated	Single-use
P99-110-3011	Ø3.0 Over Drill	Reusable
P99-150-0001	Forceps	Reusable
P99-190-TX08	HX8 Cannulated Driver	Reusable
P99-192-1115	Ø1.1mm x 150mm K-WIRE, Smooth	Single-use
P99-292-1115	Ø1.1mm x 150mm Smth, K-Wire, Dub End	Single-use

Ø3.5MM MINI-MONSTER SCREW SYSTEM COMBINATION CADDY:

Part #	Description	Use
P20-135-0[10-50]F	Cannulated, Full Thread, Headed, Ø3.5 x 10-50mm	Single-use
P20-135-0[10-50]S	Cannulated, Short Thread, Headed, Ø3.5 x 10-50mm	Single-use
P20-535-0[12-50]S	Cannulated, Short Thread, Headless, Ø3.5 x 12-50mm	Single-use
P20-910-3500	Ø3.5 Mini-Monster Headed Countersink	Reusable
P20-915-3500	Ø3.5 Mini-Monster Headless Countersink	Reusable
P20-920-3500	Ø3.5mm Mini-Monster Tap	Reusable
P20-941-3500	Mini-Monster Ø3.5 Drill Guide	Reusable
P20-942-3500	Mini-Monster Ø3.5 Over Drill Guide	Reusable
P20-951-2040	Depth Gauge, K-wire measuring	Reusable
P99-110-2312	Ø2.3mm Drill, Cannulated	Single-use
P99-110-3511	Ø3.5 Over Drill	Reusable
P99-150-0001	Forceps	Reusable
P99-190-TT10	HX10 Cannulated Driver	Reusable
P99-192-1215	Ø1.2mm x 150mm Smooth K-wire	Single-use
P99-193-1215	Ø1.2mm x 150mm Threaded K-Wire	Single-use

Ø4.0MM MINI-MONSTER SCREW SYSTEM COMBINATION CADDY:

Part #	Description	Use
P20-140-0[12-60]F	Cannulated, Full Thread, Headed, Ø4.0 x 12-60mm	Single-use
P20-140-0[28-60]L	Cannulated, Long Thread, Headed, Ø4.0 x 28-60mm	Single-use
P20-140-0[12-60]S	Cannulated, Short Thread, Headed, Ø4.0 x 12-60mm	Single-use
P20-540-0[28-60]L	Cannulated, Long Thread, Headless, Ø4.0 x 28-60mm	Single-use
P20-540-0[14-60]S	Cannulated, Short Thread, Headless, Ø4.0 x 14-60mm	Single-use
P20-910-4000	Ø4.0 Mini-Monster Headed Countersink	Reusable
P20-915-4000	Ø4.0 Mini-Monster Headless Countersink	Reusable
P20-920-4000	Ø4.0mm Mini-Monster Tap	Reusable
P20-941-4000	Mini-Monster Ø4.0 Drill Guide	Reusable
P20-942-4000	Mini-Monster Ø4.0 Over Drill Guide	Reusable
P20-951-2040	Depth Gauge, K-wire measuring	Reusable
P99-110-2613	Ø2.6mm Drill, Cannulated	Single-use
P99-110-4011	Ø4.0 Over Drill	Reusable
P99-150-0001	Forceps	Reusable
P99-190-TT10	HX10 Cannulated Driver	Reusable
P99-192-1215	Ø1.2mm x 150mm Smooth K-wire	Single-use
P99-193-1215	Ø1.2mm x 150mm Threaded K-Wire	Single-use

Ø3.0MM MINI-MONSTER SCREW SYSTEM HEADED SCREW CADDY:

Part #	Description	Use
P20-130-0[10-50]F	Cannulated, Full Thread, Headed, Ø3.0 x 10-50mm	Single-use
P20-130-0[10-50]S	Cannulated, Short Thread, Headed, Ø3.0 x 10-50mm	Single-use
P20-910-3000	Ø3.0 Mini-Monster Headed Countersink	Reusable

Ø3.0MM MINI-MONSTER SCREW SYSTEM HEADED SCREW CADDY CONT: _____

Part #	Description	Use
P20-920-3000	Ø3.0mm Mini-Monster Tap	Reusable
P20-941-3000	Mini-Monster Ø3.0 Drill Guide	Reusable
P20-942-3000	Mini-Monster Ø3.0 Over Drill Guide	Reusable
P20-951-2040	Depth Gauge, K-wire measuring	Reusable
P99-110-2112	Ø2.1mm Drill, Cannulated	Single-use
P99-110-3011	Ø3.0 Over Drill	Reusable
P99-150-0001	Forceps	Reusable
P99-190-TX08	HX8 Cannulated Driver	Reusable
P99-192-1115	Ø1.1mm x 150mm K-WIRE, Smooth	Single-use
P99-292-1115	Ø1.1mm x 150mm Smth, K-Wire, Dub End	Single-use

Ø3.5MM MINI-MONSTER SCREW SYSTEM HEADED SCREW CADDY: _____

Part #	Description	Use
P20-135-0[10-50]F	Cannulated, Full Thread, Headed, Ø3.5 x 10-50mm	Single-use
P20-135-0[10-50]S	Cannulated, Short Thread, Headed, Ø3.5 x 10-50mm	Single-use
P20-910-3500	Ø3.5 Mini-Monster Headed Countersink	Reusable
P20-920-3500	Ø3.5mm Mini-Monster Tap	Reusable
P20-941-3500	Mini-Monster Ø3.5 Drill Guide	Reusable
P20-942-3500	Mini-Monster Ø3.5 Over Drill Guide	Reusable
P20-951-2040	Depth Gauge, K-wire measuring	Reusable
P99-110-2312	Ø2.3mm Drill, Cannulated	Single-use
P99-110-3511	Ø3.5 Over Drill	Reusable
P99-150-0001	Forceps	Reusable
P99-190-TT10	HX10 Cannulated Driver	Reusable
P99-192-1215	Ø1.2mm x 150mm Smooth K-wire	Single-use
P99-193-1215	Ø1.2mm x 150mm Threaded K-Wire	Single-use

Refer to www.paragon28.com/ifus for the complete and most current instructions for use document.

INDICATIONS FOR USE (MONSTER®)

The Monster® Screw System is indicated for use in bone reconstruction, osteotomy, arthrodesis, joint fusion, ligament fixation, fracture repair and fracture fixation, appropriate for the size of the device. Specific examples include:

Fractures and Osteotomies

- Fractures of the tarsals, metatarsals and other fractures of the foot (i.e. LisFranc)
- Avulsion fractures and fractures of the 5th metatarsal (i.e. Jones Fracture)
- Talar fractures
- Ankle fractures
- Navicular fractures
- Fractures of the fibula, malleolus, and calcaneus
- Metatarsal and phalangeal osteotomies
- Weil osteotomy
- Calcaneal osteotomy

Hallux Valgus Correction

- Fixation of osteotomies (i.e. Akin, Scarf, Chevron)
- Interphalangeal (IP) arthrodesis
- Proximal, midshaft, or distal osteotomy
- Lapidus arthrodesis

Arthrodesis/Deformity Correction

- 1st MTP arthrodesis
- Metatarsal deformity correction
- Tarsometatarsal joint arthrodesis
- Naviculocuneiform joint arthrodesis
- Talonavicular arthrodesis
- Subtalar joint arthrodesis
- Triple arthrodesis
- Medial column arthrodesis
- Subtalar joint distraction arthrodesis
- Ankle arthrodesis
- Lateralizing calcaneal osteotomy
- Lateral column lengthening
- Hammertoe

Fusion resulting from neuropathic osteoarthopathy (Charcot) such as:

- Medial and lateral column
- Subtalar, talonavicular, and calcaneocuboid

CONTRAINDICATIONS

Use of the Monster® Screw System is contraindicated in cases of inflammation, cases of active or suspected sepsis / infection and osteomyelitis; or in patients with certain metabolic diseases.

CONTRAINDICATIONS (CONTINUED)

All applications that are not defined by the indications are contraindicated. In addition, surgical success can be adversely affected by:

- Acute or chronic infections, local or systemic
- Vascular, muscular or neurological pathologies that compromise the concerned extremity
- All concomitant pathologies that could affect the function of the implant
- Osteopathies with reduced bone substance that could affect the function of the implant
- Any mental or neuromuscular disorder that could result in an unacceptable risk of failure at the time of fixation or complications in post-operative treatment
- Known or suspected sensitivity to metal
- Corpulence; an overweight or corpulent patient can strain the implant to such a degree that stabilization or implant failure can occur
- Whenever the use of the implant comes into conflict with the anatomical structures of physiological status

Other medical or surgical pre-conditions that could compromise the potentially beneficial procedure, such as:

- The presence of tumors
- Congenital abnormalities
- Immunosuppressive pathologies
- Increased sedimentation rates that cannot be explained by other pathologies
- Increased leukocyte (WBC) count
- Pronounced left shift in the differential leukocyte count

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POTENTIAL COMPLICATIONS AND ADVERSE REACTIONS

In any surgical procedure, the potential for complications and adverse reactions exist. The risks and complications with these implants include:

- Loosening, deformation or fracture of the implant
- Acute post-operative wound infections and late infections with possible sepsis
- Migration, subluxation of the implant with resulting reduction in range of movement
- Fractures resulting from unilateral joint loading
- Thrombosis and embolism
- Wound hematoma and delayed wound healing
- Temporary and protracted functional neurological perturbation
- Tissue reactions as the result of allergy or foreign body reaction to dislodged particles.
- Corrosion with localized tissue reaction and pain
- Pain, a feeling of malaise or abnormal sensations due to the implant used
- Bone loss due to stress shielding

All possible complications listed here are not typical of Paragon 28®, Inc. products but are in principle observed with any implant. Promptly inform Paragon 28® as soon as complications occur in connection with the implants or surgical instruments used. In the event of premature failure of an implant in which a causal relationship with its geometry, surface quality or mechanical stability is suspected, please provide Paragon 28® with the explant(s) in a cleaned, disinfected and sterile condition. Paragon 28® cannot accept any other returns of used implants. The surgeon is held liable for complications associated with inadequate asepsis, inadequate preparation of the osseous implant bed in the case of implants, incorrect indication or surgical technique or incorrect patient information and consequent incorrect patient behavior.

WARNINGS AND PRECAUTIONS

- Re-operation to remove or replace implants may be required at any time due to medical reasons or device failure. If corrective action is not taken, complications may occur.
- Use of an undersized screw in areas of high functional stresses may lead to implant fracture and failure.
- Plates and screws, wires, or other appliances of dissimilar metals should not be used together in or near the implant site.
- The implants and guide wires are intended for single use only. Re-use may cause product failure and could lead to disease transmission.
- Instruments, guide wires and screws are to be treated as sharps.
- Do not use other manufacturer's instruments or implants in conjunction with the Monster® Screw System.

MR SAFETY INFORMATION

The Monster® Screw System has 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 the Monster® Screw System in the MR environment is unknown. Scanning a patient who has this device may result in patient injury.

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DISCLAIMER

The purpose of the Paragon 28® Monster®/Mini-Monster® Screw System Surgical Technique Guide is to demonstrate the optionality and functionality of the Paragon 28® Monster®/Mini-Monster® Screw System implants and instrumentation. Although variations in placement and use of the Paragon 28® Monster®/Mini-Monster® Screw System implants can be performed, the fixation options demonstrated in this technique were chosen to demonstrate the functionality of the system and for simplicity of explanation. Other uses for the Paragon 28® Monster®/Mini-Monster® Screw System can be employed, appropriate for the size of the device. CAUTION: Federal Law (USA) restricts this device to sale and use by, or on the order of, a physician.