

# Universal Screw Removal Instrument System

Designed to help remove a variety of screws—solid and cannulated: stripped hex screws, buried screws, partial screws with broken screw heads



## Screw Extractors

Unique thread design accommodates removal of stripped screws. The instrument "locks" into the screw head and allows removal once engaged. Designed to be used in a counter-clockwise direction.



## Trephines

Designed to fit over submerged screws for extraction with minimal bone loss. Extraction is enhanced by the unique tooth design. Designed to be used in a counter-clockwise direction.



## Hex Drivers

Solid shaft in all standard hex sizes.



## Cannulated Hex Drivers

Four sizes with a cannulated shaft for easier removal of buried screws.



## Universal Extractor

Designed to remove screws with heads partially or completely missing. The cone shaped head fully engages the remaining screw and optimizes the force needed for removal. The bolt is disposable and locks into place using a unique thread design. Designed to be used in a counter-clockwise direction.



## Screwdrivers

Standard cruciform screwdrivers in large, small, and mini, and single slot.

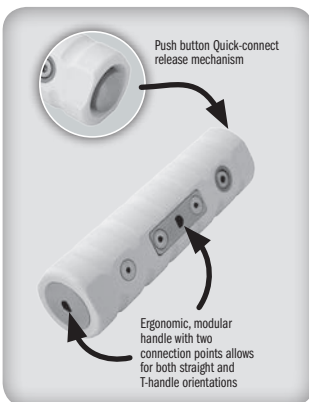


## Cannulated Drive Extension

Used when a longer instrument shaft is desired.

The drive end (A/O) is designed for easy and quick engagement with the universal instrument handle.

PRODUCT NO'S:	
S0010-00	[Complete System with Case]
Individual/Replacement Parts	
S0113	[Universal 4" Instrument Handle]
S0128	[1.5mm Screw Extractor]
S0116	[2.5mm Screw Extractor]
S0130	[3.5mm Screw Extractor]
S0117	[1.5mm Hex Driver]
S0114	[2.5mm Hex Driver]
S0115	[3.5mm Hex Driver]
S0132	[4.0mm Hex Driver]
S0133	[5.0mm Hex Driver]
S0136	[2.5mm Cannulated Hex Driver]
S0137	[3.5mm Cannulated Hex Driver]
S0138	[4.0mm Cannulated Hex Driver]
S0139	[5.0mm Cannulated Hex Driver]
S0118	[Large Cruciform Screwdriver]
S0119	[Small Cruciform Screwdriver]
S0141	[Mini Cruciform Screwdriver]
S0120	[Single Slot Screwdriver]
S0121	[2.2mm Trephine]
S0122	[3.2mm Trephine]
S0123	[4.2mm Trephine]
S0124	[4.7mm Trephine]
S0125	[7.2mm Trephine]
S0127	[Universal Extractor]
S0127-01	[Large Extraction Bolt Body]
S0127-03	[Small Extraction Bolt Body]
S0127-04	[Extractor Wrench]
S0129	[Pick]
S0140	[Cannulated Drive Extension]
9017	[Screw Removal Case Only]
Case Dimensions: 20" x 9.25"	



## Universal Instrument Handle

The single handle allows the surgeon to decide which direction is most efficient and comfortable. The quick-connect release mechanism allows for quick interoperative exchange.

## Pick

Used to remove fragments and bone or tissue from screw head.

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## CLEANING AND STERILIZATION PROCEDURE

# Universal Screw Removal Instrument System

Product No: S0010-00

Made of stainless steel & Radel® R.

*Please use the following guidelines when sterilizing this product:*

<b>Sterilizer Type:</b>	<b>Pre-vacuum Steam Sterilizer</b>
Minimum Temperature:	132 degrees C / 270 degrees F
<b>Minimum Cycle Time:</b>	<b>4 minutes</b>
Minimum Dry Time:	20 minutes

<b>Sterilizer Type:</b>	<b>Flash Sterilizer</b>
Minimum Temperature:	132 degrees C / 270 degrees F
<b>Minimum Cycle Time:</b>	<b>4 minutes</b>
Minimum Dry Time:	0 minutes

Innomed recommends that the cleaning and decontamination of instruments follow the guidelines set forth by AORN/HIMA and AAMI. Both physical and chemical (detergent) processes are necessary to minimize the bioburden on all soiled items. Chemical (detergent) cleaners alone cannot remove all soil and debris, therefore a careful manual cleaning of each item with a soft sponge or cloth is essential for maximum decontamination. Carefully inspect hidden areas such as cannulations and recesses to assure any residual materials are removed. Once the items have been cleaned and decontaminated they should be thoroughly rinsed with clean water to remove any detergent or chemical residue before sterilization. Innomed recommends the use of a mild enzymatic detergent with a low pH. Do not use multipurpose detergents to wash or soak your instruments. Use a specifically compounded low-suds detergent for all instruments. Detergents designed for surgical instruments, pads and straps are specifically formulated to remove protein, organic debris and blood. The neutral pH balance will not damage stainless steel or tungsten carbide inserts. The solution is gentle enough for manual (hand) as well as ultrasonic cleaning.

### **INSTRUMENT CARE PROCEDURE**

1. Visually inspect instruments before cleaning for cracks, tears and chipped areas.
2. Clean instruments thoroughly after use.
  - a. If you use a pre-soak solution; be certain that it has a neutral pH balance.
  - b. Clean instruments in an open position by either hand or ultrasonic cleaner.
  - c. Use a non-metallic brush (toothbrush) to remove stubborn debris. DO NOT use abrasive cleaning solutions or scouring pads.
  - d. DO NOT expose instruments to bleach.

Detergents designed for surgical instruments are specifically formulated to remove protein, organic debris and blood. The neutral pH balance will not damage stainless steel or tungsten carbide inserts. The solution is gentle enough for manual (hand) as well as ultrasonic cleaning.

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