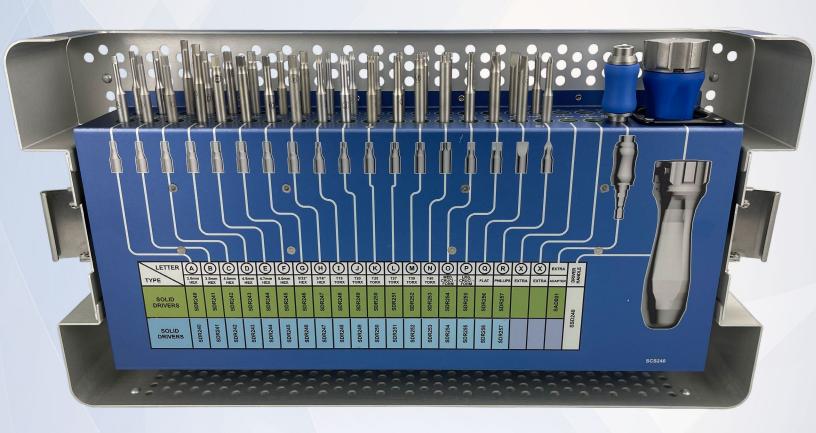
SURGICAL TECHNIQUE GUIDE









CONTENTS

1. Introduction		3
1.1 System Name	3	
1.2 Primary Use	3	
1.3 System History	3	
2. Key Component Description		4
2.1 Ratcheting Handle	4	
3. Preoperative & Intended Use		5
3.1 Preoperative	5	
3.2 Operative	5	
3.3 Storage	5	
3.4 Intended Use	5	
3.5 Indications for Use	5	
3.6 Additional Recommendations	5	
4. Surgical Technique	•••••	6
4.1 Drivers & Handle	6	
5. Cleaning & Sterilization		7
6. Components		7



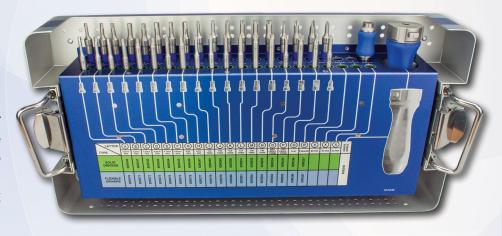
1.1 System Name: SHUKLA Trauma Maxi

Part Number: S9MAXI-TRMA

Version: 1

1.2 Primary Use

The SHUKLA Trauma Maxi Universal Large Screw Extraction System from Shukla Medical is a comprehensive screwdriver system designed to simplify the removal and insertion of large bone screws commonly found in both trauma and total joint surgeries.



1.3 System History

The first SHUKLA Maxi system was created as an answer to the need for an all-encompassing solution to the ongoing issue of finding the proper driver for the screws encountered during surgery.

The original Maxi system was an acquired product from the original acquisition of the Medical Products Division of Snap-On Tools in the '90s. The first Maxi system used a laydown tray and debuted in 1996. V3 arrived in 2019, bringing additional new drivers, a new hex connection, a brand new handle, a power adaptor, and more.

In 2022 Shukla Medical debuted the Trauma Maxi system, a specialized set designed for trauma centers that replaced the flexible shaft drivers with a second row of rigid drivers. This was to allow surgeons to have two sets of trauma prepped drivers at the ready without the need to swap out.

Parts not shown to scale



3.1 Preoperative

- Clear x-rays and surgical notes may be used to identify manufacturer, brand, location, & condition of implanted hardware.
- The surgeon should be familiar with general principles and techniques for the removal of orthopedic implants.
- The instruments should be inspected for visible damage prior to use. Do not use the product if damage is suspected.
- Only validated cleaning and sterilization procedures should be used.

3.2 Operative

 Proper handling and storage of the instrumentation is mandatory. Damage to the instrumentation may produce stresses and cause defects, which could become a focal point for failure.

3.3 Storage

- It is recommended to store all Shukla Medical instrumentation in a clean, dry environment. Under 50% relative humidity; ≤75°F/24°C.
- Proper handling and storage of the instrumentation is mandatory.
 Long-term use of this system may produce stresses and cause weakness, which could become a focal point for failure.

3.4 Intended Use

The SHUKLA Trauma Maxi (S9MAXI-TRMA) Universal Large Screw Extraction System is designed to remove or insert large bone screws with minimal bone loss.

Instrumentation from Shukla Medical is recommended for use only within the intended design, and only by licensed healthcare professionals. Any uses other than those indicated may cause adverse results to the instrumentation or to the patient.

3.5 Indications for Use

Two sets of 18 distinct rigid drivers each, allowing removal of any large screw in any location. Use drivers manually with the Ratcheting Handle (SSD240) or connect to power with the Hudson Quick-Connect Adapter (SAD001).

Driver Configurations:

- 8 sizes of hex driver (SDR240-247/SDR270-277)
- **6** sizes of torx driver (SDR248-253/SDR278-283)
- Medium & large cruciform drivers (SDR254-255/SDR284-285)
- Flat drivers (SDR256/SDR286)
- Phillips drivers (SDR257/SDR287)

3.6 Additional Recommendations

During revision procedures, the SHUKLA Mini (for smaller screws) and the SHUKLA Screw (for broken or stripped screws) are recommended for use in conjunction with the SHUKLA Trauma Maxi for universal screw removal capabilities.

SURGICAL TECHNIQUE SHUKLA Trauma Maxi | Drivers & Handle



Determine bone screw configuration & size (Image 1) and corresponding driver from the S9MAXI-TRMA system.







Image 1

Cruciform

Phillips







To remove the driver, press release button and pull driver and handle apart. (Image 4)



Connect driver to Ratcheting Handle (SSD240) by inserting the 1/4" hex driver base into handle until it clicks into place. (Image 2)





Set drive mode (Image 3) for the ratcheting handle:

Center: Ratcheting disabled

Forward: Insert screws

Back: Remove screws



Image 3

Optional: Adapt for use under power

Attach driver to Hudson Quick Connect Adapter (SAD001) to use under power. Slide outer sleeve towards shaft to load or unload any driver. (Image 6)



All Shukla Medical surgical instruments require manual cleaning with a neutral pH cleanser. Open and disassemble all instruments, making sure to remove all contamination during cleaning. Instruments must be reassembled prior to sterilization. Maintenance and care using an autoclaveable lubricant on movable parts is required to preserve the life of the instrument. For more cleaning, inspection, maintenance, and care tips, contact Shukla Medical directly.

For detailed cleaning and sterilization instructions, please consult the SHUKLA Medical Instructions For Use (IFU) document or visit www.ShuklaMedical.com/Sterilization





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6 COMPONENTS LIST

Component List			
Std Qty	Part Number	Description	
1	SAD001	Adapter Assy, Hudson Power Drill, 2.75"	
1	SCS240	Case & Lid, MAXI System	
1	SDR240	Driver, Rigid, Hex, 3 mm	
1	SDR241	Driver, Rigid, Hex, 3.5 mm	
1	SDR242	Driver, Rigid, Hex, 4 mm	
1	SDR243	Driver, Rigid, Hex, 4.5 mm	
1	SDR244	Driver, Rigid, Hex, 4.7 mm	
1	SDR245	Driver, Rigid, Hex, 5 mm	
1	SDR246	Driver, Rigid, Hex, 5/32"	
1	SDR247	Driver, Rigid, Hex, 3/16"	
1	SDR248	Driver, Rigid, Torx, T15	
1	SDR249	Driver, Rigid, Torx, T20	
1	SDR250	Driver, Rigid, Torx, T25	
1	SDR251	Driver, Rigid, Torx, T27	
1	SDR252	Driver, Rigid, Torx, T30	
1	SDR253	Driver, Rigid, Torx, T40	
1	SDR254	Driver, Rigid, Cruciform, 3.8 mm	
1	SDR255	Driver, Rigid, Cruciform, 5.5 mm	
1	SDR256	Driver, Rigid, Flat	
1	SDR257	Driver, Rigid, Phillips	
1	SSD240	Handle Assy, In-Line, Ratcheting, Hex, 1/4"	

THE EXTRACTION EXPERTS

Shukla Medical designs and manufactures instrumentation for orthopedic implant extraction at our headquarters in St. Petersburg, Florida, USA. We are proud to be an ISO 13485:2016 Certified company.

In 1998, aerospace component manufacturer S.S. White Technologies, Inc. acquired the Medical Products Division of Snap-On. S.S. White rebranded the medical division in 2007 to create Shukla Medical.

Today, Shukla Medical is the industry leader in orthopedic implant extraction tools. We are the only company to offer a comprehensive, truly universal orthopedic revision line for removing IM nails, hip and knee implants, spine hardware, and broken or stripped screws. Surgeons and industry leaders know: If Shukla can't get it out, no one can.

EC REP

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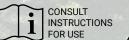
S9CUP

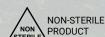


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ISO 13485:2016





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When you have tried all known techniques to extract an implant or remove a screw but determine you need suggestions for alternate techniques, help is only a phone call away. We will quickly put you in touch with our Technical Experts who will suggest other solutions to use our tools.



SHUKLA Medical offers the best warranty in the industry. Every component in a SHUKLA extraction system is designed and manufactured by us. Every component in our extraction systems that is not a single-use* or a wear* component is warranted against manufacturing defects for the life* of the system. All other parts are covered for as long as the purchased version of the system is actively marketed by SHUKLA Medical.

*Please see our website for the complete explanation of these terms and full details on our warranty.