

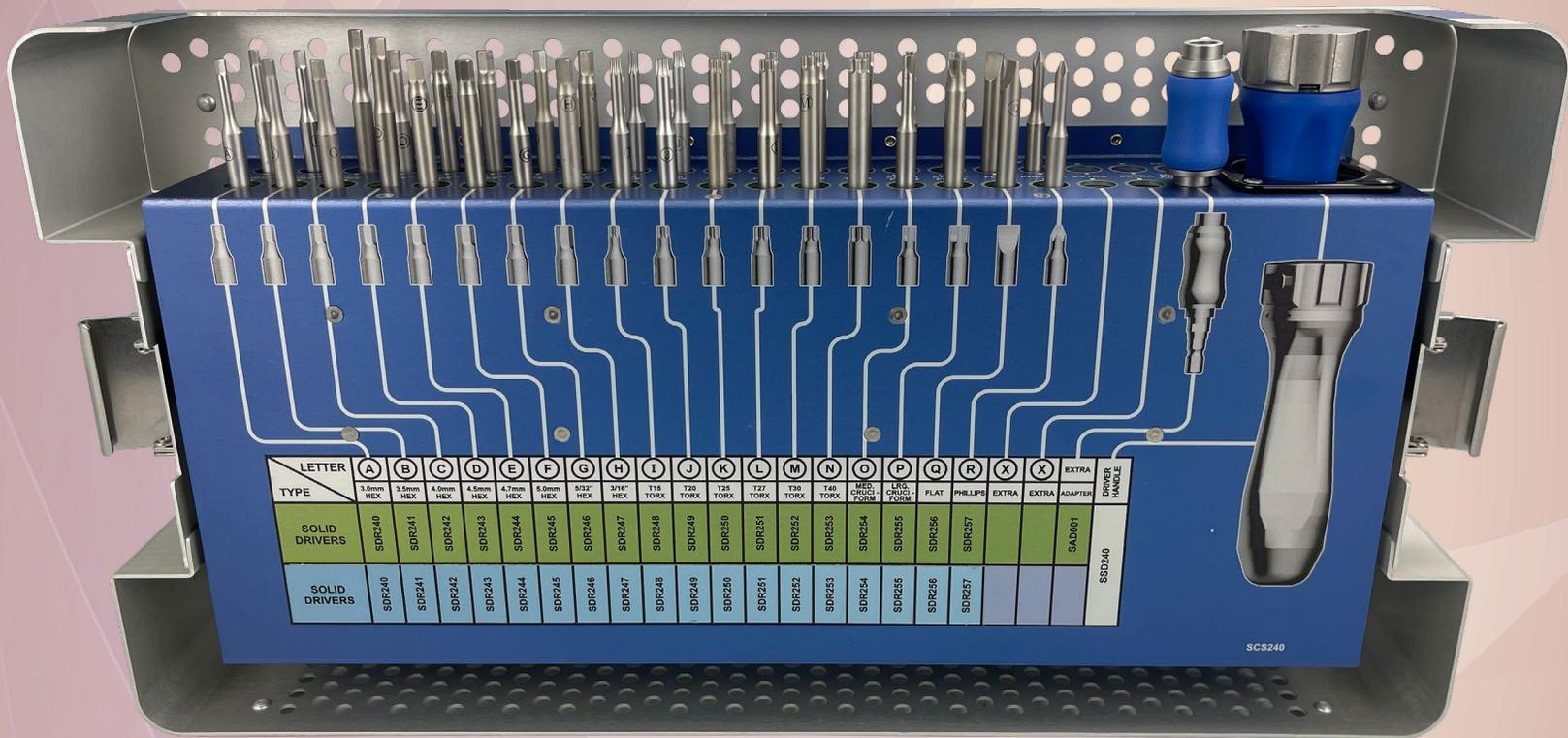
PRODUCT GUIDE

TRAUMA

SHUKLA MAXI

Universal Large Screw Extraction System

#2T
System 2T of 15



SHUKLA MEDICAL
Universal Orthopedic Extraction Technologies
THE EXTRACTION EXPERTS

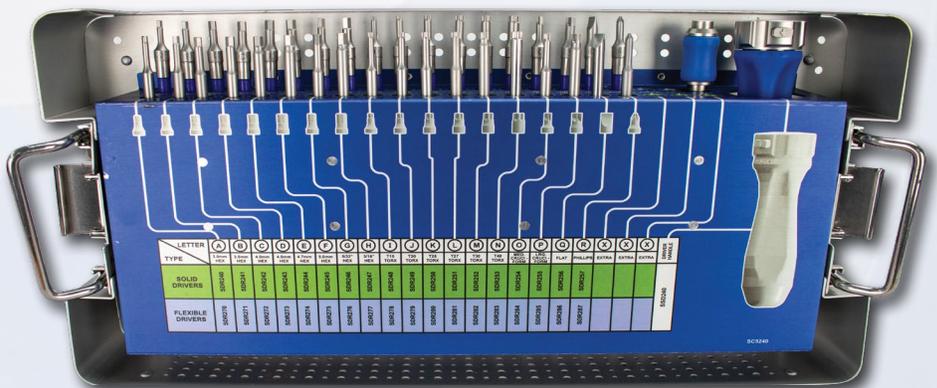
TRAUMA SHUKLA MAXI

Universal Large Screw Extraction System

System Name: SHUKLA Trauma Maxi v1

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.



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.

1996: Version 1 Introduced

2009: Version 2 Introduced

- Flexible Shaft Drivers
- More Drivers
- Vertically Designed Case
- Ratcheting Handle Changed to Silicone

2019: Version 3 Introduced

- More Drivers
- Newly Designed Case with Removable Lid
- New Ergonomic Handle w/ Locking Capability
- Hudson Power Connector
- Square Connections Changed to Hex

2022: Trauma Version 1 Introduced

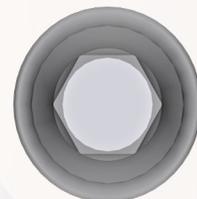
- Two Rows of Rigid Drivers
- Designed for Trauma Centers

Key Benefits

- 18 Drivers designed for universal bone screw configuration compatibility.
- Ratcheting quick connect silicone handle with locking capability allows for easier and simpler screw removal with less hand fatigue.
- Hudson Power Adapter lets surgeons connect to a power drill for even faster screw removal.
- Double the rigid drivers to allow for trauma surgeons to have a backup of the same driver queued up whenever needed.



- Driver tip configurations cover all head variations: Cruciform, Flat, Hex, Phillips, and Torx.



Universal Shukla System Benefits for Better Patient Outcomes

Less Time Spent in O.R.

- Reduces risk of infection to patient
- Reduces time spent under anesthesia
- Reduces cost to the hospital

Universal Designs

- Less prep time for surgeons
- Less space taken up in the O.R.
- Reduces need for other systems or tools

Ergonomic Design

- Reduces surgeon stress
- Reduces surgeon fatigue
- Better grip/reduces slippage

Comprehensive Design

- Addresses all known challenges
- Tools ensure surgery is a success
- Provides backup solutions during surgery

Alternative Method Comparison

Before Shukla released the Maxi system, surgeons needed either the correct specific driver designed for the screw ahead of time, or needed to have the reps for the implant in the O.R. with the proper tools at the ready. The only other alternative method for removing a screw during revision surgery was a less than ideal method - First, the screw head would need to be drilled off, and the plate pried off the bone. Then, the surgeon would need to use a bone chisel to chip away at the bone surrounding the screw, finally trying to grip the screw shaft with pliers to twist it out.

This led to higher O.R. costs, lower success rates, higher surgeon frustration, and lower patient approval. The SHUKLA Maxi removes all of the uncertainty of screw removals and gives a single universal solution.



A: The ideal way - using a SHUKLA Maxi Driver



B: Using a drill bit to drill off the screw head



C: Using pliers to try and remove the screw shaft



D: Unnecessary bone loss from non-Shukla methods

Return On Investment Justification

According to a study published in JAMA Surgery, the average cost for one minute in an O.R. is a staggering \$66! The median time spent in an O.R. per surgery is 75 minutes per surgery. Therefore, the typical per surgery cost could be calculated as 75 minutes per surgery x \$66 per minute for a total of \$4,950. The SHUKLA Trauma Maxi system would pay for itself in less than two surgeries.

When You Don't Have It

Without a SHUKLA Maxi system, or the correct specific driver designed for the screw, two alternative options are usually available: Wasting hours drilling off the heads, prying off the plate, and wasting effort (and bone) trying to remove the remaining shafts. Or sending out techs to open up already sterilized trays, hunting for a specific driver - wasting time, money, and piling more work upon an already overworked Sterile Processing Department.

However, with a SHUKLA Maxi system on hand, this scenario would never occur.

How We Compare

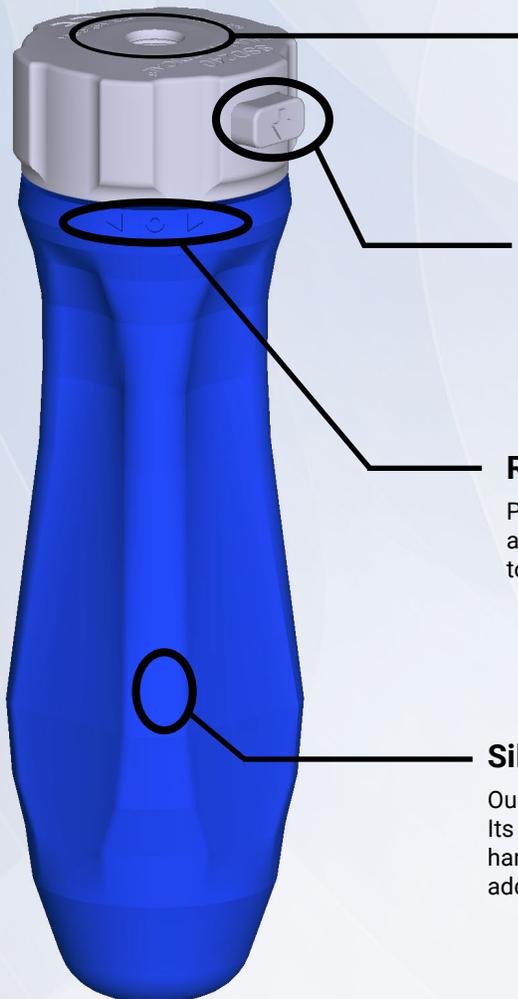
Most orthopedic implant manufacturers provide revision/extraction tools suited *only* for their own implants. Even suppliers that claim to offer extraction sets basically have an assortment of tools thrown together as an afterthought. For Shukla Medical, **extraction is what we do**. Our engineers design truly universal tools to help remove any implant/hardware out there, making our competition essentially nonexistent. Our patented designs are revolutionizing the art of revision surgery; we proudly stand alone. We have still tried to provide a comparison to other systems on the market.

There are several makers of screwdriver sets similar to the SHUKLA Trauma Maxi but none come close in price, value, or design. The SHUKLA Maxi handle is much more user-friendly. We offer a stand-up tray which makes tip selection easier and allows for more efficient use of the valuable table space in the O.R. We provide a larger number of drivers than our competition. Other companies sell their sets for upwards of \$15,000. Our closest competitors offer anywhere from 12 to 32 drivers compared to the whopping 36 drivers provided with the SHUKLA Trauma Maxi.

PATENTS

- Push-to-Connect Ratcheting Handle

The SHUKLA Trauma Maxi system is all about the drivers. Our patented handle was crafted by our team of talented engineers.



Push-to-Connect Chuck

Allows for easy engagement of our drivers to the handle. Engineered for speed and efficiency, a simple push locks the driver into place.

Unlock Button

When the drivers are locked into place during screw removal, a press of the Unlock Button releases the driver from the handle. This makes swapping out drivers a breeze.

Ratcheting Action

Possesses the ability to ratchet both forward and in reverse. Also has a locked setting for non-ratcheting turns. Allows for continuous motion to save both time and surgeon fatigue.

Silicone Handle

Our new handle is overmolded with silicone for maximum comfort. Its ergonomic design was engineered specifically to reduce surgeon hand fatigue during longer surgeries with multiple screws to remove. In addition, the silicone helps prevent slippage during surgery.

Attention to Detail

At Shukla Medical, we always sweat the small stuff. When it comes to the Maxi, our attention to detail is why it rose above other similar sets in the marketplace. Our drivers are long, with narrow necks at the tip, granting the surgeon improved visibility as well as access to deep-seated screws.



The driver's hex connections allow us to add a better locking capability to the handle, eliminating the slippage and disconnection of drivers during surgery.

TRAUMA
IS SHUKLA MAXI
Universal Large Screw Extraction System
RIGHT FOR YOU?

The biggest difference between the SHUKLA Maxi and the SHUKLA Trauma Maxi is the absence of our flexible shaft drivers. Under normal circumstances, the flexible shaft drivers provide more range than a rigid driver for tougher to reach parts of the body such as the acetabular cup.

Trauma centers however are very different. The kind of patients that show up to a trauma surgeon are not your run-of-the-mill revision surgery scenarios. A trauma surgeon knows that time is almost always of the essence, and that is where the Trauma Maxi comes in.

With two full sets of rigid drivers, the Trauma Maxi allows a trauma surgeon to have two drivers prepped and ready to go at a moment's notice. Don't lose precious time swapping out drivers. Have everything you need waiting for you to call for it.

Components List

Component List		
Std Qty	Part Number	Description
1	SAD001	Adapter Assy, Hudson Power Drill, 2.75"
1	SCS240	Case & Lid, MAXI System
2	SDR240	Driver, Rigid, Hex, 3 mm
2	SDR241	Driver, Rigid, Hex, 3.5 mm
2	SDR242	Driver, Rigid, Hex, 4 mm
2	SDR243	Driver, Rigid, Hex, 4.5 mm
2	SDR244	Driver, Rigid, Hex, 4.7 mm
2	SDR245	Driver, Rigid, Hex, 5 mm
2	SDR246	Driver, Rigid, Hex, 5/32"
2	SDR247	Driver, Rigid, Hex, 3/16"
2	SDR248	Driver, Rigid, Torx, T15
2	SDR249	Driver, Rigid, Torx, T20
2	SDR250	Driver, Rigid, Torx, T25
2	SDR251	Driver, Rigid, Torx, T27
2	SDR252	Driver, Rigid, Torx, T30
2	SDR253	Driver, Rigid, Torx, T40
2	SDR254	Driver, Rigid, Cruciform, 3.8 mm
2	SDR255	Driver, Rigid, Cruciform, 5.5 mm
2	SDR256	Driver, Rigid, Flat
2	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.**

Contact us to learn more

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S9CUP



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CONSULT
INSTRUCTIONS
FOR USE



NON-STERILE
PRODUCT



SHUKLA Surgical Tech Support
24 hours a day, 7 days a week
727-626-2771

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.