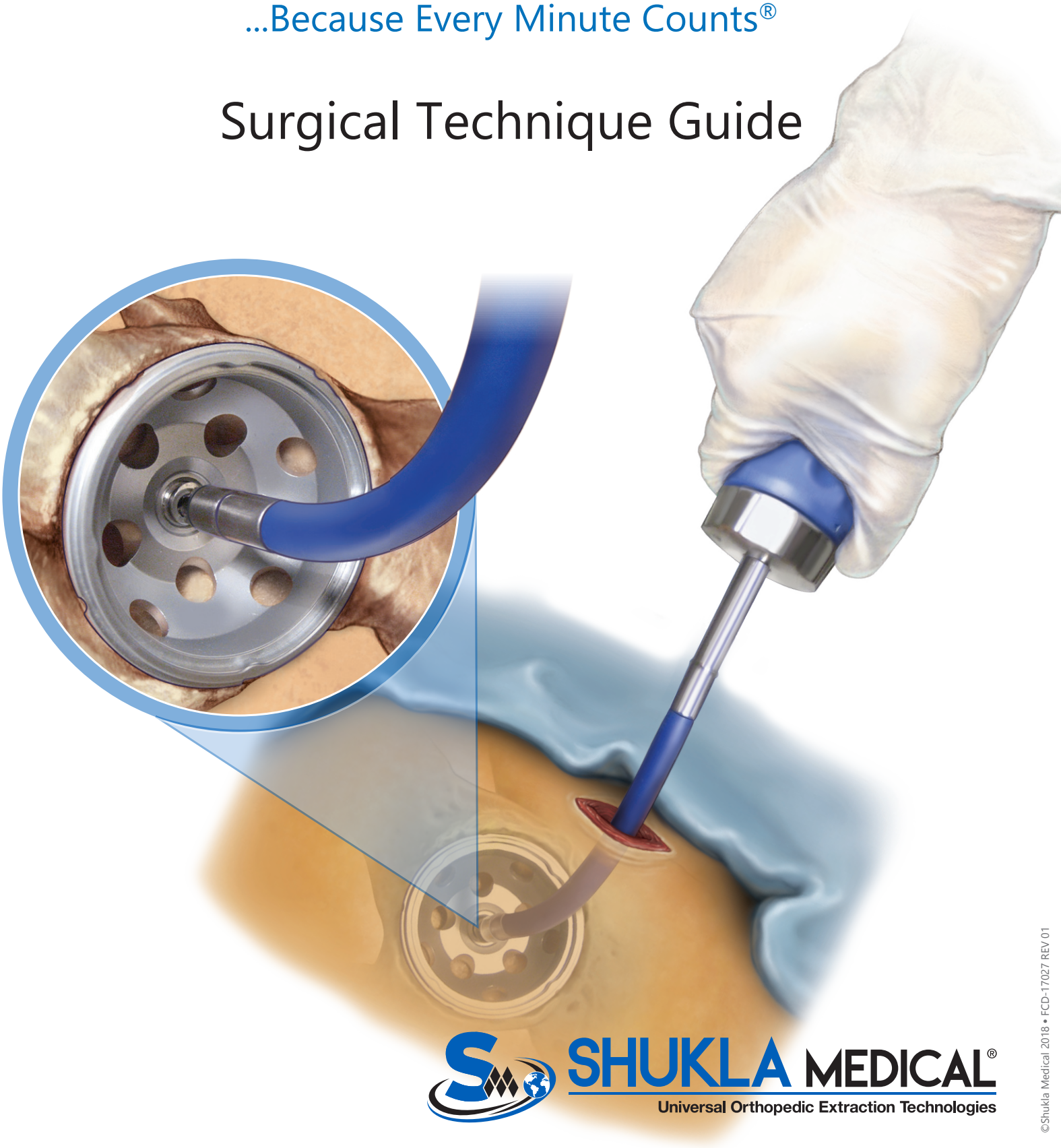
Xtract-All® MAX

Universal Large Screw Extraction System

...Because Every Minute Counts®

Surgical Technique Guide



SHUKLA MEDICAL®

Universal Orthopedic Extraction Technologies

©Shukla Medical 2018 • FCD-17027 REV 01

Contents

Introduction ..... Page 3

List of Components ..... Page 4

Surgical Technique ..... Page 6

S9MAXI Screwdrivers

Introduction

The Xtract-All® Maxi (S9MAXI) Universal Large Screw Extraction System is designed to remove large bone screws with minimal bone loss.

36 distinct drivers come in solid & flexible versions, 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)

Warning and Precautions

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.

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.

Cleaning and Sterilization

For detailed sterilization instructions, please refer to industry standards ANSI/AAMI ST79:2012 & A1:2012 and ANSI/AAMI ST8:2001.

NOTE: 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. Machine washing is not recommended. 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.

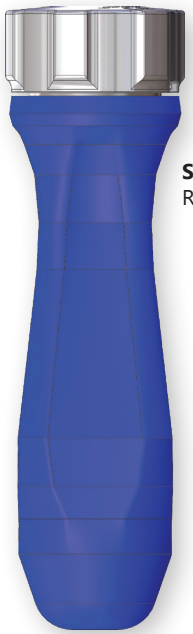
For detailed cleaning and sterilization instructions, please visit www.ShuklaMedical.com/Sterilization

FCD-17027 REV 01

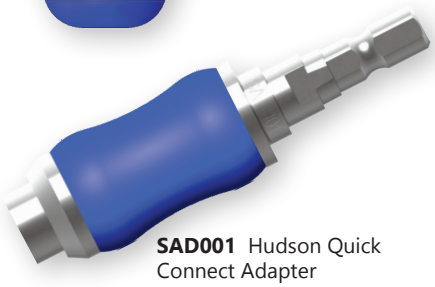
Xtract-All® Maxi (S9MAXI) Universal Large Screw Extraction System

S9MAXI	Xtract-All® Maxi Universal Large Screw Extraction System
SCS240	Case & Lid
SSD240	Ratcheting Handle
SAD001	Hudson Quick Connect Adapter (1/4" Shaft)

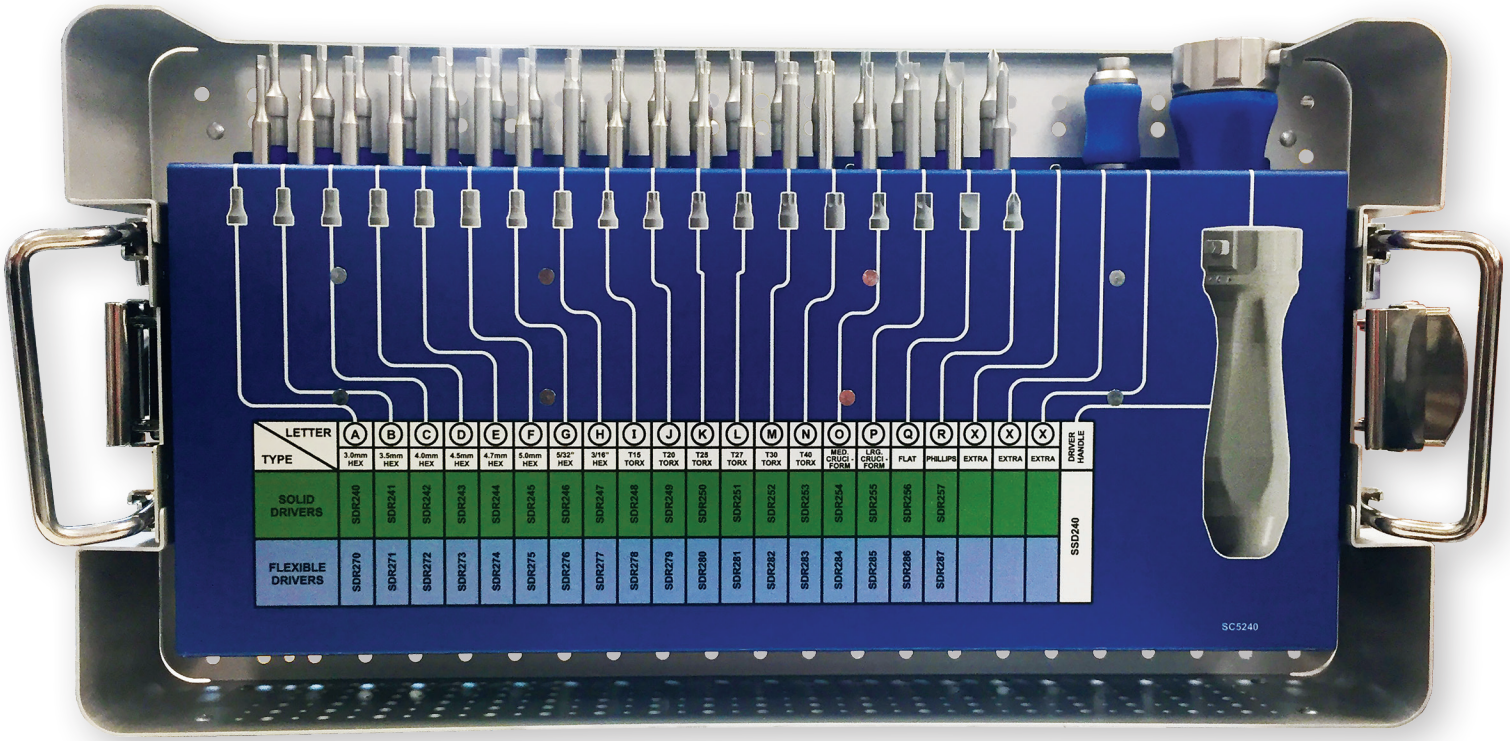
ID	Solid Drivers		Qty	Flexible Drivers		Qty
A	SDR240	Hex 3.0mm	1	SDR270	Hex 3.0mm	1
B	SDR241	Hex 3.5mm	1	SDR271	Hex 3.5mm	1
C	SDR242	Hex 4.0mm	1	SDR272	Hex 4.0mm	1
D	SDR243	Hex 4.5mm	1	SDR273	Hex 4.5mm	1
E	SDR244	Hex 4.7mm	1	SDR274	Hex 4.7mm	1
F	SDR245	Hex 5.0mm	1	SDR275	Hex 5.0mm	1
G	SDR246	Hex 5/32"	1	SDR276	Hex 5/32"	1
H	SDR247	Hex 3/16"	1	SDR277	Hex 3/16"	1
I	SDR248	T15 Torx	1	SDR278	T15 Torx	1
J	SDR249	T20 Torx	1	SDR279	T20 Torx	1
K	SDR250	T25 Torx	1	SDR280	T25 Torx	1
L	SDR251	T27 Torx	1	SDR281	T27 Torx	1
M	SDR252	T30 Torx	1	SDR282	T30 Torx	1
N	SDR253	T40 Torx	1	SDR283	T40 Torx	1
O	SDR254	Cruciform 3.8mm	1	SDR284	Cruciform 3.8mm	1
P	SDR255	Cruciform 5.46mm	1	SDR285	Cruciform 5.46mm	1
Q	SDR256	Flat	1	SDR286	Flat	1
R	SDR257	Phillips	1	SDR287	Phillips	1



SSD240
Ratcheting Handle



SAD001 Hudson Quick Connect Adapter



EC REP **Emergo Europe**
Prinsessegracht 20
2514 AP The Hague
The Netherlands

REF S9MAXI

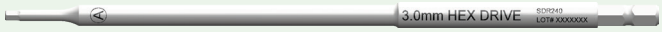
Shukla Medical
8300 Sheen Drive
St. Petersburg, FL 33709
USA

CONSULT INSTRUCTIONS FOR USE

NON STERILE NON-STERILE PRODUCT

Solid Drivers

Hex



SDR240 Hex 3.0mm

SDR241 Hex 3.5mm

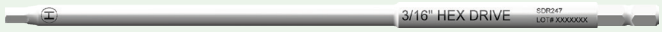
SDR242 Hex 4.0mm

SDR243 Hex 4.5mm

SDR244 Hex 4.7mm

SDR245 Hex 5.0mm

SDR246 Hex 5/32"



SDR247 Hex 3/16"

Torx

SDR248 T15 Torx

SDR249 T20 Torx

SDR250 T25 Torx

SDR251 T27 Torx

SDR252 T30 Torx

SDR253 T40 Torx

Cruciform

SDR254 Cruciform 3.8mm

SDR255 Cruciform 5.46mm

Flat

SDR256 Flat

Phillips

SDR257 Phillips

Flexible Drivers

Hex

SDR270 Hex 3.0mm

SDR271 Hex 3.5mm

SDR272 Hex 4.0mm

SDR273 Hex 4.5mm

SDR274 Hex 4.7mm

SDR275 Hex 5.0mm

SDR276 Hex 5/32"

SDR277 Hex 3/16"

Torx

SDR278 T15 Torx

SDR279 T20 Torx

SDR280 T25 Torx

SDR281 T27 Torx

SDR282 T30 Torx

SDR283 T40 Torx

Cruciform

SDR284 Cruciform 3.8mm

SDR285 Cruciform 5.46mm

Flat

SDR286 Flat

Phillips

SDR287 Phillips

Surgical Technique

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

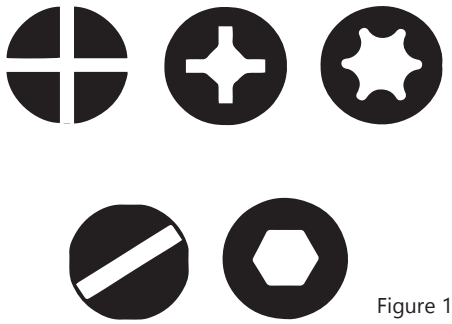


Figure 1

2 Choose solid or flexible driver style. (Fig. 2)

Solid drivers are recommended for screws with a straightforward approach.

Flexible drivers are recommended for use when access to screw placement is more challenging.

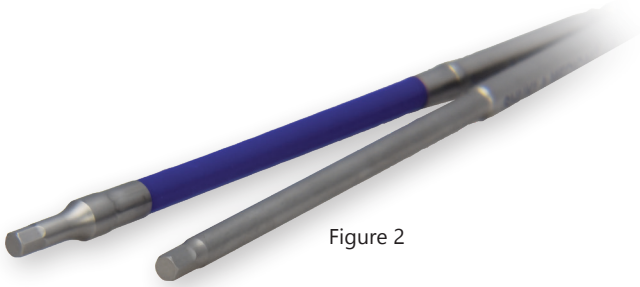


Figure 2

3 Connect driver to Ratcheting Handle (SSD240) by inserting the 1/4" hex driver base into handle until it clicks into place. (Fig. 3)

Figure 3

4 Set drive mode (Fig. 4) for the ratcheting handle:

Center: Ratcheting disabled

Forward: Insert screws

Back: Remove screws

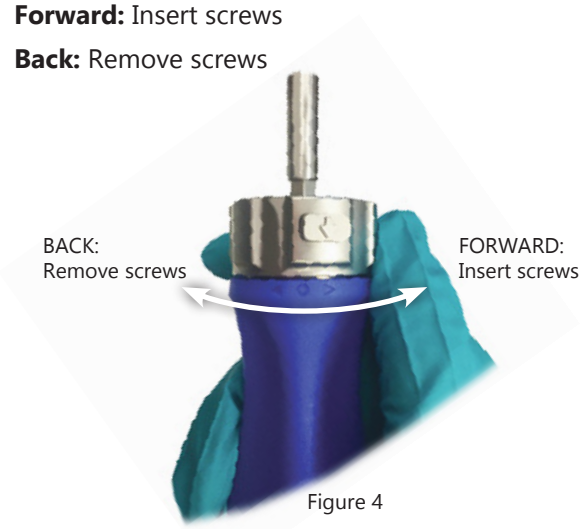


Figure 4

5 To remove the driver, press release button and pull driver and handle apart. (Fig. 5)

Figure 5

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. (Fig. 6)

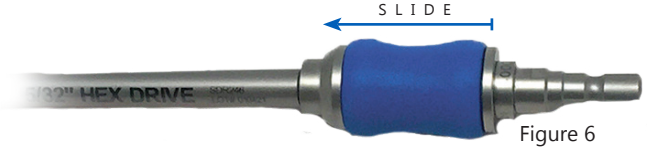


Figure 6

FCD-17027 REV 01

Notes

For more information on the
Xtract-All® Maxi (S9MAXI) Universal Large Screw Extraction System
Call us at 888-4-SHUKLA (888-474-8552) or visit
www.ShuklaMedical.com

SHUKLA MEDICAL®
Universal Orthopedic Extraction Technologies

...Because Every Minute Counts®

©Shukla Medical 2018 • FCD-17027 REV 01

Shukla Medical
8300 Sheen Drive
St. Petersburg, FL 33709
www.ShuklaMedical.com

T: 888-4-SHUKLA
T: 888-474-8552
F: 727-626-2770
CS@ShuklaMedical.com