



Introduction to Bookler®

Table Mounted Retractor (TMR) Systems

Bookler® TMR Systems

RETRACTOR HISTORY

The world's first retractor



The world's first surgical procedure using the first retractor



How have Retractors Changed?

2000 years ago:



This is the oldest archaeological record we have of a surgical retractor. It is a skin hook found in the ashes of Pompeii. 2 most common types of surgery then were C-Sections and arrow-head removal...both using the skin hooks.

200 years ago:



1800 years later, retractors have hardly changed. By the time of the American Revolution, skin hooks and amputation saws were still the most common surgical instruments.

But, until the late 1800's surgery was rare.

Estimates are that over **90%** of surgical patients died of either shock or infection.

How have Retractors Changed?

...Two significant advances made in the late 1800's:

- **Anesthesia - dramatically reduced death by shock**
- **Aseptic surgical techniques - dramatically reduced death by infection**

This led to:

- 1) Dramatic increases in the number and types of surgical procedures
- 2) A need for new instruments
- 3) A significant need for retractors, especially for deep, abdominal procedures...

What developed was...

Bookler® TMR Systems

RETRACTOR HISTORY

Hand-Held Retractors (late 1800's)



Advantages

- Many patterns and sizes – match anatomy and patient
- Easily switched if different pattern or size needed
- Could create excellent exposure

Disadvantages

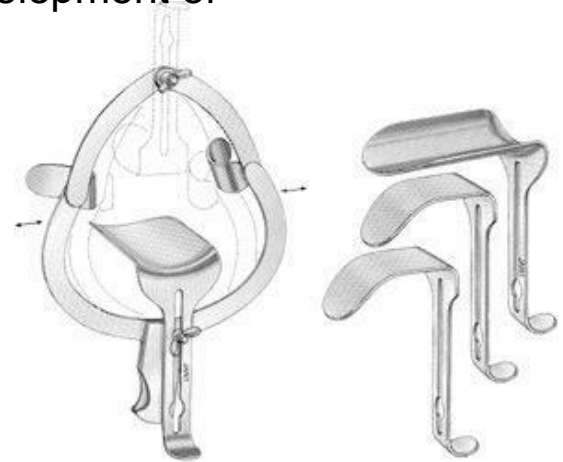
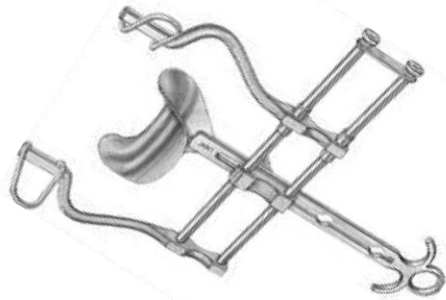
- Quality of exposure dependent on person holding retractor
- Fatigue and tremor became a significant issue

Bookler® TMR Systems

RETRACTOR HISTORY

How have Retractors Changed?

The disadvantages of hand-held retraction led to the development of **Self-Retaining Retractors** in the mid 1900' s



Advantages:

- Using ratchets, wing-nuts or some other method, blades could be spread and kept in position indefinitely without being held
- Many sizes, shapes and styles available

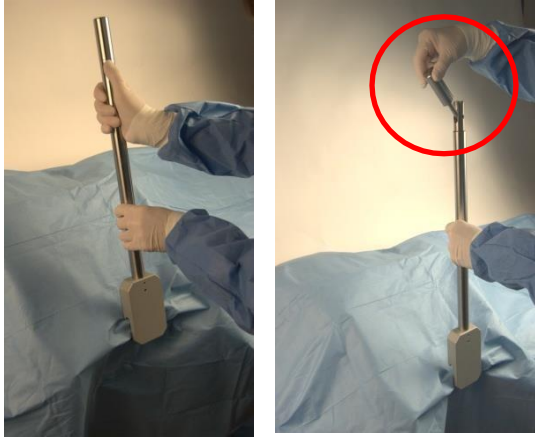
Disadvantages:

- Blade style, size and position were usually fixed, so if different size, shape or position needed, the entire system had to be removed and replaced
- Not always the optimal exposure...they only retract in one direction

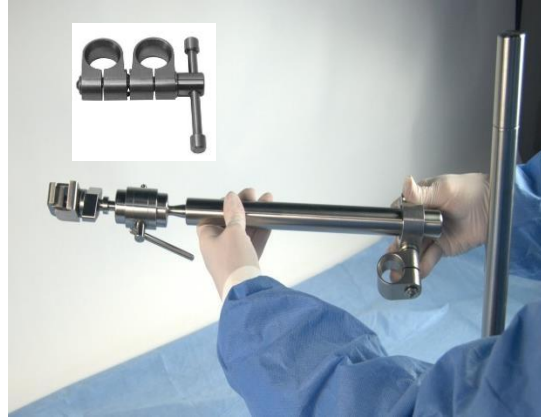
Bookler® TMR Systems

SYSTEM SET-UP

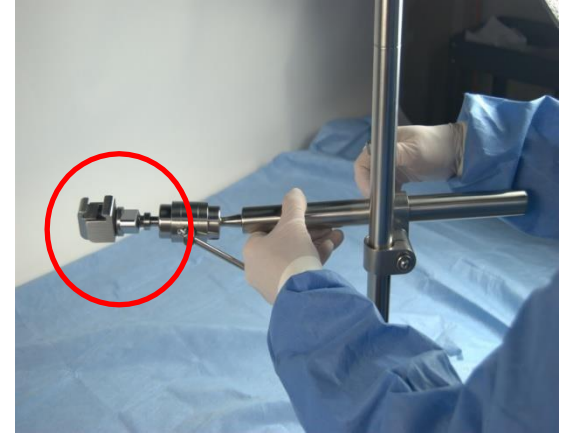
1. Attach Field Post to OR table rail



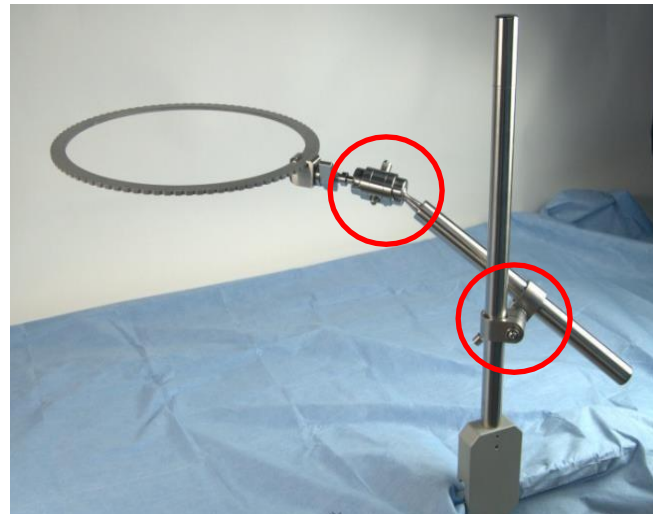
2. Insert the Horizontal Bar into the Post Coupler (closest to tightening knob)



3. Attach the Post Coupler to the Field Post (Ring jaws upward)



4. Open the jaws of the Horizontal Bar and attach the appropriate Ring. Tighten the jaws until the Ring is rigid

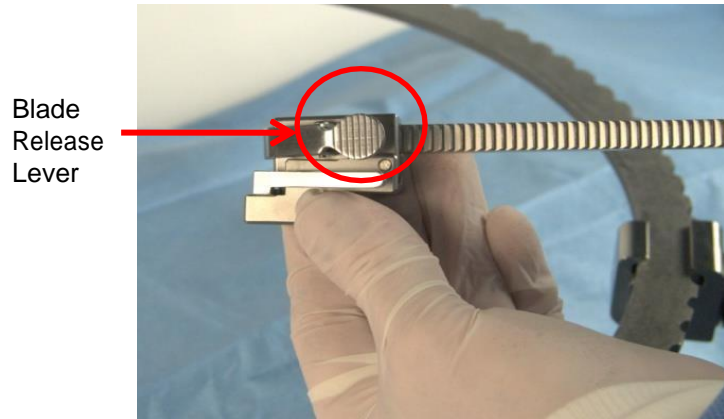


5. Loosen Post and/or Horizontal Bar coupler to position Ring over the operative site, retightened when in appropriate position

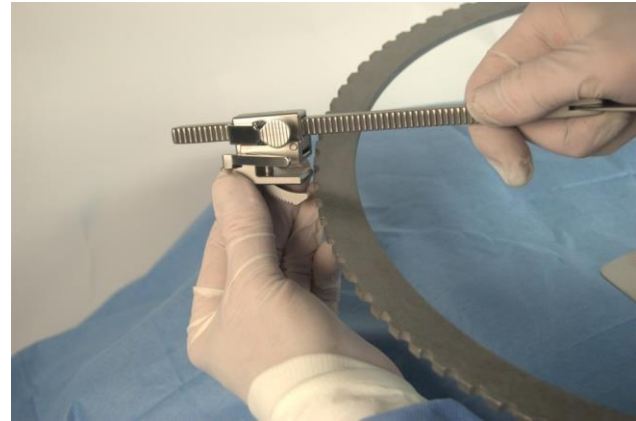
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SYSTEM SET-UP – BLADE POSITIONING

1. Insert Retractor Blade handle into Ratchet (blade teeth must engage in ratchet mechanism)



2. Position Retractor Blade into the surgical field, attached Ratchet onto the Ring

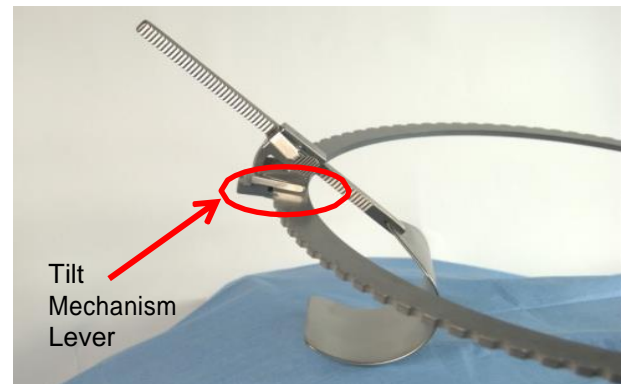


3. Adjust the retraction distance by advancing the Retractor Blade into the Ratchet.



Tension of the retracted tissue will hold the ratchet on the Ring

4. Adjust tilt manually to retract tissue upwards.



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RETRACTOR HISTORY

Surgeon Pioneers

1965 Dick Thompson, MD an Anesthesiologist, developed the first table mounted retractor

- Mouth Gag retractor for tonsillectomy
- Many pieces, complicated to set-up
- Dr. Thompson founded Thompson Surgical
- Their retractor sets look/are still complicated

1974 John Bookwalter, MD a General Surgeon develops Bookwalter TMR System

- Mediflex is approached by Codman to work with Dr. Bookwalter

*“Good exposure is the key
to good surgery”*

- John Bookwalter, MD, FACS

Bookler® TMR Systems

MOUNTING HARDWARE

Field Posts

(aka Table Posts)



12" (30cm) (Standard Length) # 72011
18" (45cm) (Bariatrics, GYN) # 72009
24" (60cm) (Bariatrics) # 72010

Coupler

72013 Stainless
Steel Coupler



Horizontal Bars



72012

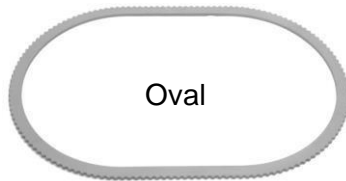


*(Horizontal Flex Bar can gain 8-10" in
height vs. Std. Horizontal Bar)*

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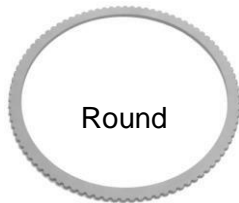
RINGS & COMPONENTS

Solid Rings



Oval

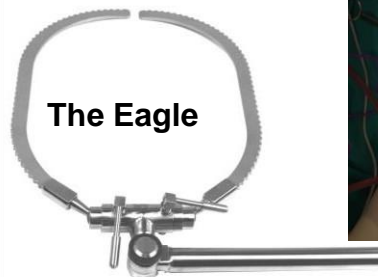
Small – 8" x 12" (20cm x 30cm)
Medium – 10.5" x 14.5" (26.3cm x 36.3cm)
Large – 12 x 18.5" (30cm x 46.3cm)



Round

Small – 8.5" (21.3cm)
Medium – 10.5" (26.3cm)
Large – 12.5" (30cm)

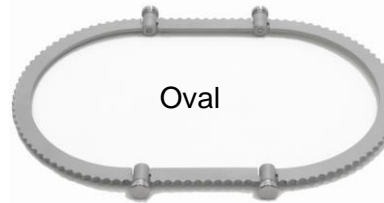
Split Ring



The Eagle

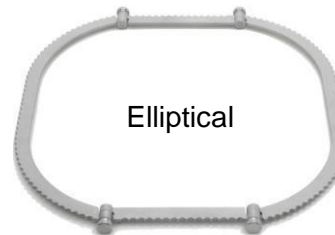


Segmented Rings & Components



Oval

Small - 8" x 14" (20cm x 35cm)
Medium - 10.5" x 19" (26.3cm x 47.5cm)
Large – 12.5" x 19" (30cm x 47.5cm)



Elliptical

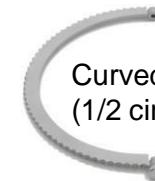
14" x 15"
(35cm x 37.5cm)



9.5" x 14.5"
(23.8cm x 36.3cm)

*Notches used to hold
Disposable Elastic
Hooks
(Also called the
Jordan Ring)*

Two Shapes sold as Pairs



Curved Segment
(1/2 circle)

Small – 8.5" (20cm) Diameter
Medium – 10.5" (26.3cm) Diameter
Large – 12.5" (30cm) Diameter

Straight Segments



Small - 4" (10cm)
Medium – 6" (15cm)
Large – 8" (20cm)



Together make Ovals

Bookler® TMR Systems

MOUNTING HARDWARE

Vertical Extension Bar



- A 12" long x 1" diameter steel tube.
- Attaches to *any* 1" Field Post by means of a Coupler.
- Adds from 2 to 10" to the reach or height of the field post.



Ratchets

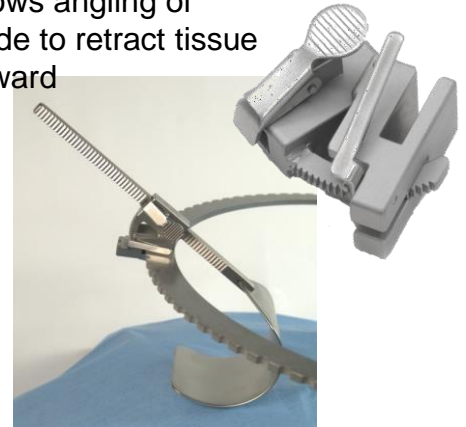
Allows Blade movement in and out and ease of movement to adjacent notch

72025 Standard Ratchet



72026 Tilt Ratchet

Allows angling of blade to retract tissue upward



72113 Twist Ratchet Adapter

Allows micro-adjustment of blade/tissue retraction



Bookler® TMR Systems

RETRACTOR BLADES

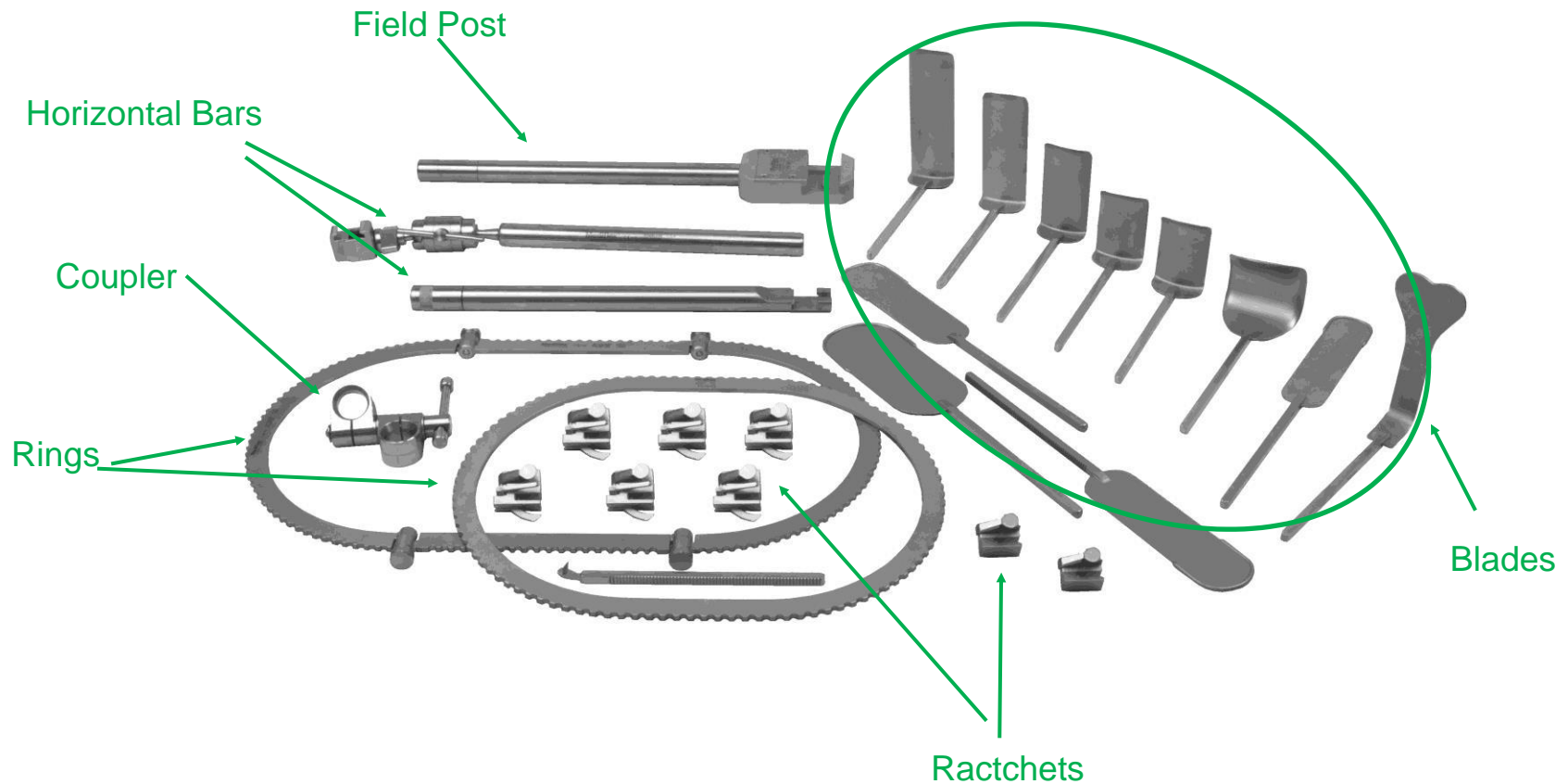
- The only parts of the system that touch the patient
- All major blade categories available: Balfour, Deaver, Harrington, Kelly, Richardson, Hooks/Rakes, Malleable
- All Mediflex Malleable Blades have a protective edge
- Mediflex offers additional blade sizes
 - Standard blade categories
 - 4-5 week lead time
 - Reasonably priced
 - Stainless Steel and Aluminum



Bookler® TMR Systems

PROCEDURAL SYSTEMS

General Surgery System

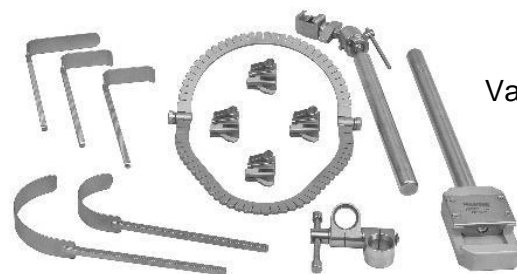


Bookler® TMR Systems

PROCEDURE / STARTER SYSTEMS

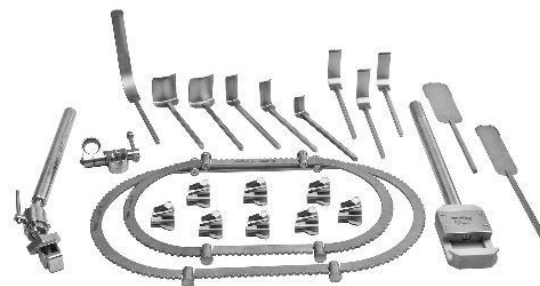


Bariatric System



Vaginal System

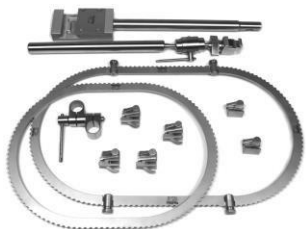
Adolescent System



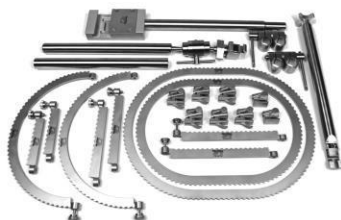
Urology System

Pre-Configured Starter Systems

Basic Starter System (no blades)



Deluxe Starter System

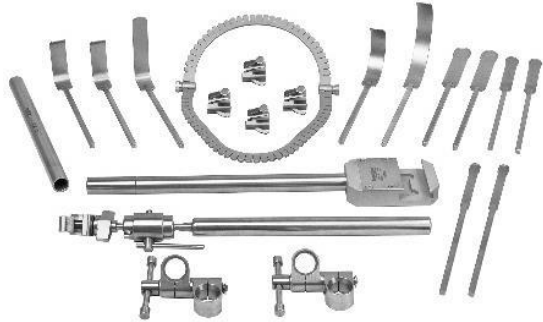


Bariatric Accessory System



Bookler® TMR Systems

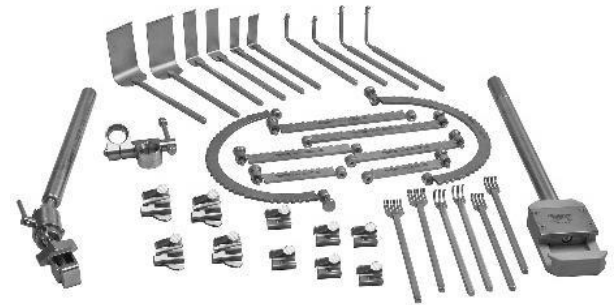
PROCEDURE / STARTER SYSTEMS



Deluxe Vaginal System



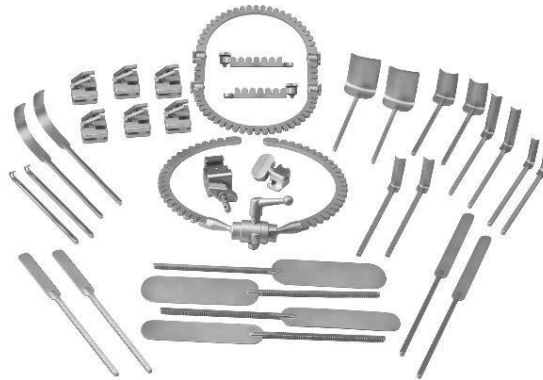
Laparoscopic Holding System



Spinal System



IMA System



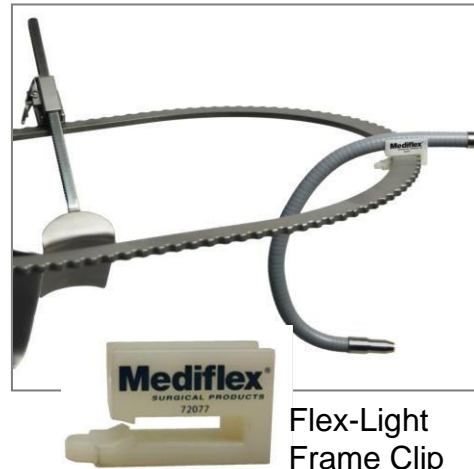
Small Incision System

Bookler® TMR Systems

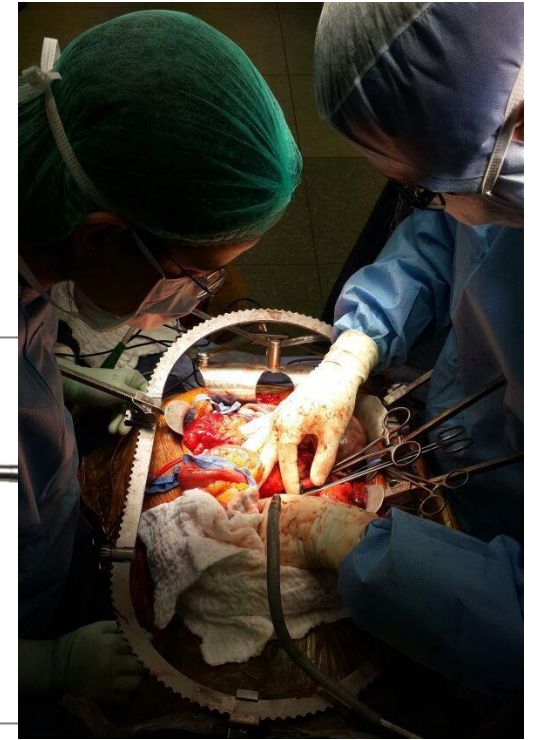
ACCESSORIES

Flex-Light™ Malleable Fiber Optic Light Pipe

- Attaches to Bookler Ring
- Accommodates any light cable
- Includes 3 adapters:
 - Storz/Olympus
 - Wolf
 - ACMI



Flex-Light
Frame Clip



Malleable Blade Bending and Shaping Tool

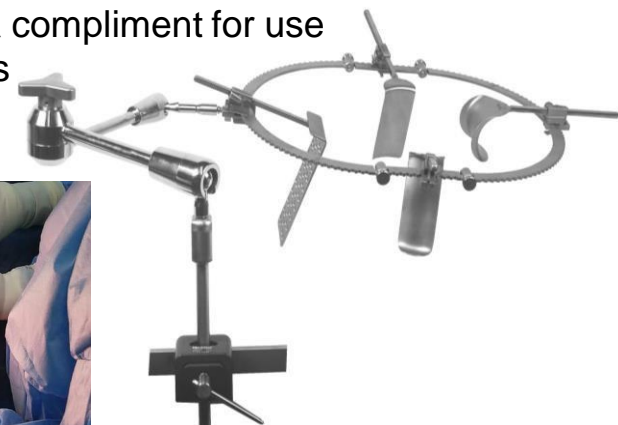
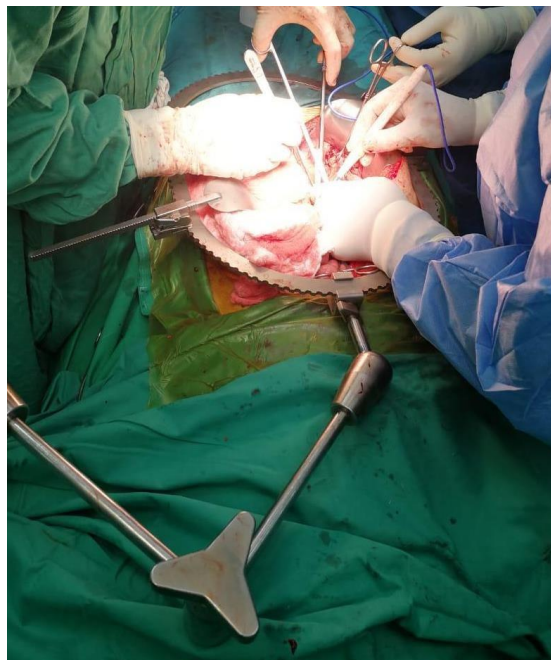
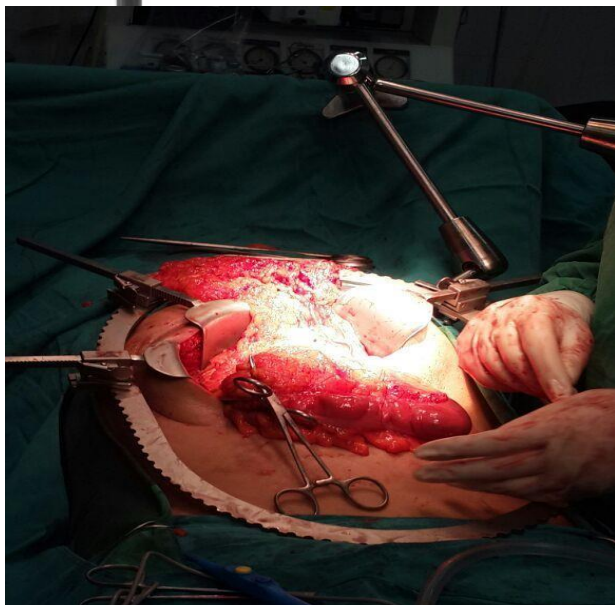


Bookler® TMR Systems

HOLDERS & POSITIONERS

StrongArm™ *PLUS*

- Designed to resist deflection forces 3 – 5 times that of standard StrongArm Device.
- Due to its strength and height adjustability, a complement for use with Bookler (and Bookwalter) TMR Systems



Bookler® TMR Systems

HOLDERS & POSITIONERS



StrongArm™ *PLUS*

- Can reach as high as a 24" Bookler Field Post
- But go lower than the shortest Bookler Field Post; and with **no vertical obstruction!**



Available tip configurations

Quick-Connect Tip



Permanently attached Bookler Ring Clasper



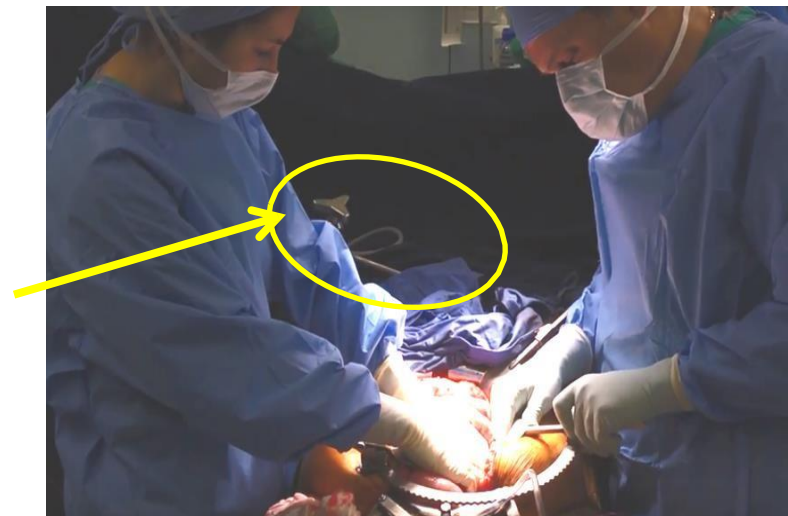
*This is what will be in all StrongArm
PLUS Bookler Systems*

Bookler® TMR Systems

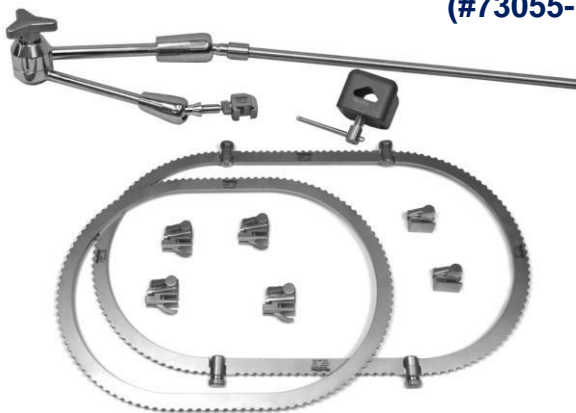
HOLDERS & POSITIONERS

StrongArm™ PLUS

Providing maximum stabilization without interference



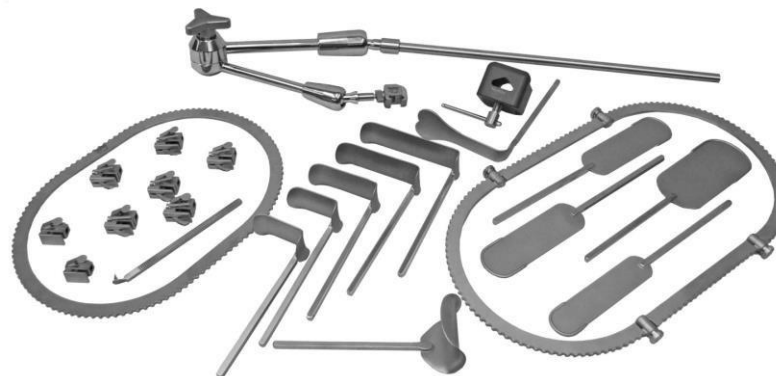
**Starter System
(#73055-BSS)**



**Top Mount StrongArm Plus with Bookler Ring
Clasper and Heavy Duty Rail Clamp (#73055-BC)**



*For hospitals that already have
Bookler or Bookwalter Systems*



**General Surgery System
(#72000-SA)**

Bookler® TMR Systems

PRODUCT OVERVIEW

Bookler Endoscopic FlexArm™ Plus



Expanded versatility...



Endoscopic procedure
easily converted to
open procedure



Mediflex®
SURGICAL PRODUCTS

Bookler® Endoscopic FlexArm™ Plus
HOLDING & POSITIONING DEVICES

- Versatile endoscope and instrument holding device
- Expanded utility of Bookler® and Bookwaller® systems*
- Multiple configurations to accommodate all surgical practices
- Individual components offered to maximize flexibility

Complete system (Ref. No. 99103) in use with Quick-Grip Tip (10mm) (Ref. No. 72142). Order Separately. Scope not included.

STRONGER • SMOOTHER • EASIER TO USE

Bookler® Endoscopic FlexArm™ Plus






The Bookler FlexArm Plus System provides extreme versatility as a surgical holding and positioning device. An assortment of Holding Tips are offered to accommodate any endoscope or laparoscopic instrument. Individual system components are available to maximize the flexibility of the Bookler FlexArm Plus System.

COMPLETE BOOKLER® ENDOSCOPIC SYSTEMS

| REF. NO. | DESCRIPTION |
|----------|---|
| 99103 | Bookler FlexArm Plus with Quick-Connect Tip-12" (30cm) Post |
| 99104 | Bookler FlexArm Plus with Fixed Stainless Steel Tip-12" (30cm) Post |
| 99105 | Bookler FlexArm Plus with Fixed Detrit Tip-12" (30cm) Post |
| 99106 | Bookler FlexArm Plus with Quick-Connect Tip-18" (45cm) Post |
| 99107 | Bookler FlexArm Plus with Fixed Stainless Steel Tip-18" (45cm) Post |
| 99108 | Bookler FlexArm Plus with Fixed Detrit Tip-18" (45cm) Post |

Note: All Systems include a Post Coupler (Ref. No. 72013) and a 12" (30cm) or 18" (45cm) Field Post

INDIVIDUAL COMPONENTS

| BOOKLER FLEXARM PLUS (ARM ONLY) | | | |
|---|---|---|---|
|  | 99103 | Bookler FlexArm Plus with Quick-Connect Flex Fitting (A) | |
|  | 99104 | Bookler FlexArm Plus with fixed Stainless Steel Tip (B) | |
| | 99105 | Bookler FlexArm Plus with fixed Detrit Tip (C) | |
| FIELD POSTS | POST COUPLING | | VERTICAL EXTENSION KIT |
|  | REF. NO. 72013 |  |  |
| REF. NO. 72011 Standard 12" (30cm) | 72013 Post Coupler 1" x 1" (2.5 x 2.5cm) | REF. NO. 72013-C Quick Lock Post Coupler 1" x 1" (2.5 x 2.5cm) | REF. NO. 72173 12" Vertical Extension Bar with Post Coupler (72013) |
| REF. NO. 72009 | | | |

HOLDING TIPS

| ADJUSTABLE HOLDING TIPS | | |
|---|--|--|
| REF. NO. 49704 Stainless Steel Tip Holding Capacity: 3.0mm - 18mm | REF. NO. 49707 Detrit Tip Holding Capacity: 3.0mm - 18mm | REF. NO. 49704-L L Stainless Steel Tip Holding Capacity: 5mm - 31.75mm |
| AUTOMATIC HOLDING TIPS | | |
| REF. NO. 72142 Quick-Grip Tip (10mm) | REF. NO. 72143 Quick-Grip Tip (5mm) | |

Safety and quality secure 5mm & 10mm endoscopic. Automatic jaws will not damage scopes.

*Booker is a registered trademark of Medico Machine Corporation. Bookwaller is a registered trademark of Symmetry Surgical.

Mediflex®
SURGICAL PRODUCTS

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BEFP-1016

Bookler® TMR Systems

STERILIZATION CONTAINERS



Large Container
2 inner baskets



Holds Field Post (12 or 18"), Horizontal Bar, Horizontal Flexbar in the larger, lower basket...
And the Rings in the smaller, upper basket.



Small Container
1 inner basket

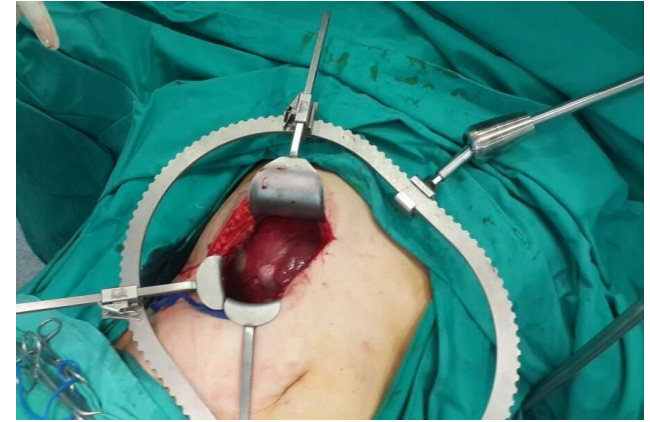


Holds all of the blades, ratchets and couplers in one deep basket.



Bookler® TMR Systems

CLINICAL APPLICATIONS / SET-UPS



StrongArm Plus used in kidney surgery



Perineal Ring used in trans-vaginal surgery



*Segmented Ring
conforms to
patient/anatomy
geometry*



MedSurgeTek Inc.

COMBINING TECHNOLOGY