



## **Holding Systems and Retraction Devices for Laparoscopic and Robotic-Assisted Surgery**

# MEDIFLEX®...REDEFINING RETRACTION

For over 50 years, Mediflex® has been designing and manufacturing uniquely engineered surgical devices used in operating rooms throughout the world. Working in close collaboration with world-renowned surgeons, Mediflex® has developed a wide range of devices which offer clinical efficiency while reducing staff and procedure time resulting in improved surgical outcomes.

First used in 1969 to hold a valve retractor in open heart surgery, our FlexArm™ holding system was introduced for gynecologic laparoscopy beginning in 1974. At that time, with no video available, the FlexArm™ was used to hold the scope for the surgeon while he used his hands to operate. Today, the benefits of using one or even two holding and positioning arms for scope, instrument and/or retractor holding remains - surgeons have greater control over their surgical environments, a steady image, and perform laparoscopic and robotic-assisted procedures more efficiently. Hospitals are able to reduce the surgical assisting staff and increase work-flow efficiency resulting in less operative time by using Mediflex® devices.

Mediflex® holding systems and retraction devices are recognized around the world by surgeons who have gained direct control over their camera and retractor positions while having two hands free to operate. Surgical administration and management appreciate the reduction in personnel during laparoscopic procedures which allows for more efficient utilization of staff and resources in the operating room.

In this catalog, we feature the widest variety of table mounted surgical holding systems, Nathanson Liver and Laparoscopic Retractors and innovative attachments on the market.

## TABLE OF CONTENTS

### **FlexArm™ Plus Holding Systems**

Overview	1
Universal FlexArm™ Plus Systems	2-3
FlexArm™ Plus Companion Arms & Table Attachments	3
Monolithic FlexArm™ Plus Systems	4
Bookler® Endoscopic FlexArm™ Plus Systems	5

### **StrongArm™ Holding Systems**

Overview	6
StrongArm™ Single Arm Systems	7
StrongArm™ Twin / Combo Arm & Nathanson Systems	8

### **Nathanson Liver Retractors**

9

### **Holding & Positioning Accessories**

Holding Tips and Table Attachment Devices	10
---	----

### **Lapro-Flex® Articulating Retractor Instruments**

11

### **Laparoscopic Retraction Instruments**

12

### **Sterilization Trays**

12

### **Additional Innovative Products**

13

### **Index**

13

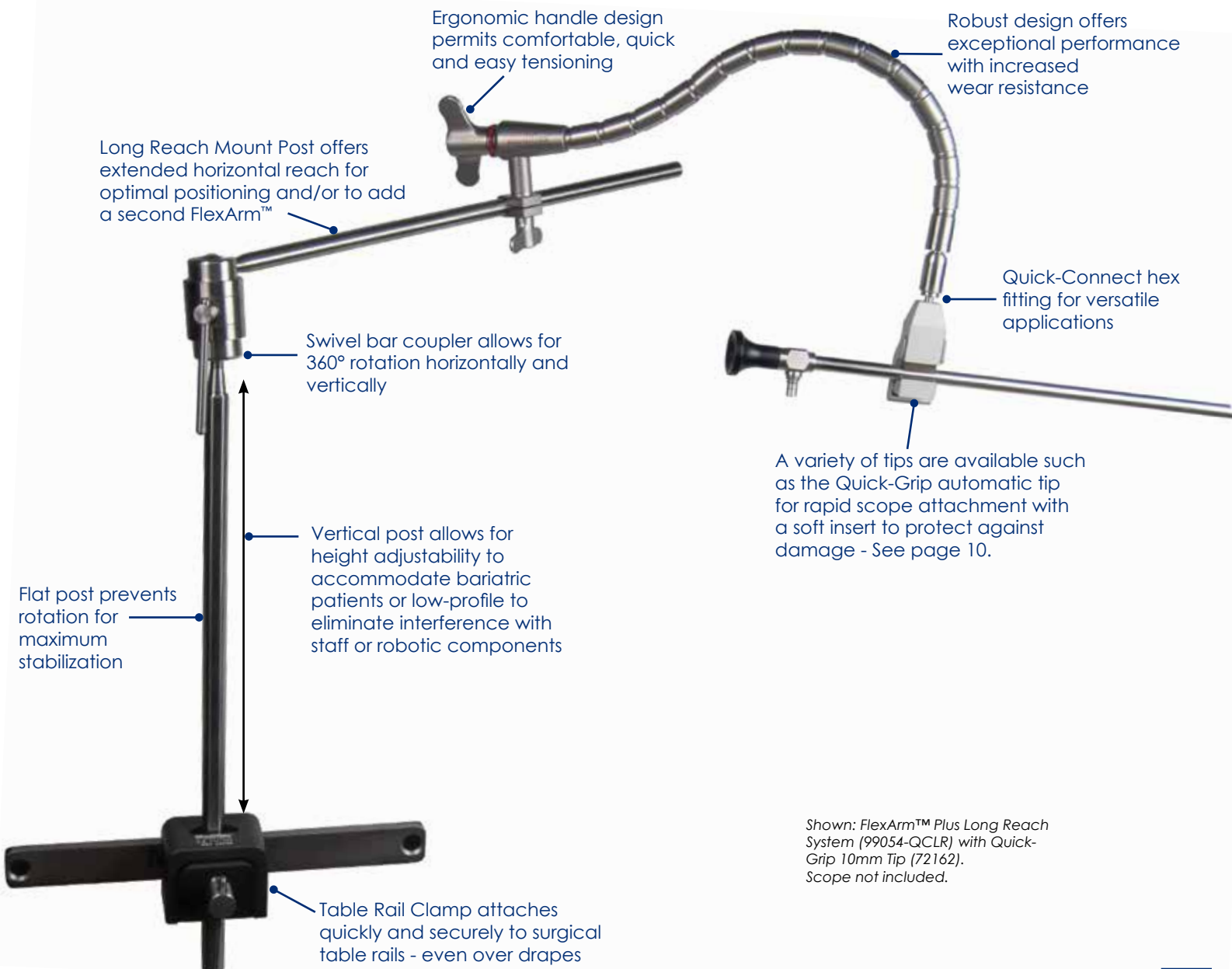
# FLEXARM™ PLUS HOLDING & POSITIONING SYSTEMS

The Universal FlexArm™ Plus Systems offer hands-free scope and/or instrument holding so the surgeon can focus on the procedure. The FlexArm™ provides unlimited positioning with rigid holding capability for static stabilization of instruments and anatomy – without the need for an assistant. Only FlexArm™ Plus allows for intra-operative adjustment without loosening the tension knob making repositioning of the scope or instrument quick and easy.

FlexArm™ Plus is commonly utilized in robotic-assisted surgery where static organ retraction is required — eliminating an assistant, as well as additional costly robotic components.

## Features and Benefits

- Flexible positioning with adjustable rigidity
- Holds virtually any instrument, retractor or scope
- Arms lock with a single knob
- Complimentary to robotic-assisted surgery
- Available in a variety of configurations
- Simple, rapid set-up
- Attaches to the surgical table rail






# UNIVERSAL FLEXARM™ PLUS SYSTEMS

## LONG REACH FLEXARM™ PLUS SYSTEMS



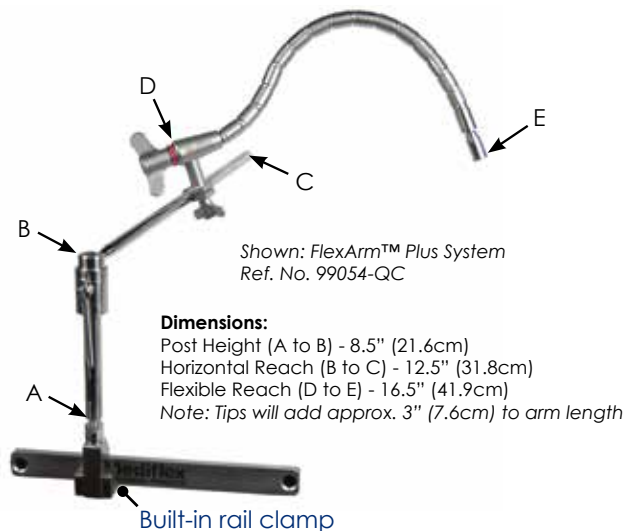
Includes Long Reach Swivel Bar Mount Post (69098),  
Table Rail Clamp (69099) and FlexArm™ Plus Companion Arm

FLEXARM™ CONFIGURATIONS	SINGLE ARM REF. NO.	TWIN ARM REF. NO.
Quick-Connect Hex Fitting*	99054-QCLR	99055-QCLR
Fixed Stainless Steel Tip	99054-LR	99055-LR
Fixed Delrin Tip	99054-DLR	99055-DLR
1 ea. Fixed Stainless Steel and Delrin Tip	N/A	99055-DSLR

FLEXARM™ TIP CONFIGURATIONS	
	Quick-Connect Tip*
	Fixed Stainless Steel Tip
	Fixed Delrin Tip

\*See page 10 for Holding Tip accessories

## STANDARD REACH FLEXARM™ PLUS SYSTEMS



Includes Swivel Bar Mount Post (69053)  
and FlexArm™ Plus Companion Arm

FLEXARM™ CONFIGURATIONS	SINGLE ARM REF. NO.
Quick-Connect Hex Fitting*	99054-QC
Fixed Stainless Steel Tip	99054
Fixed Delrin Tip	99054-D

\*See page 10 for Holding Tip accessories

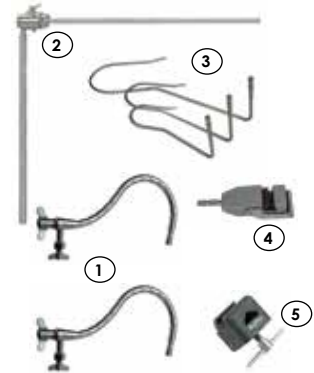
# FLEXARM™ PLUS TWIN ARM LAPAROSCOPIC SYSTEM

The Twin FlexArm™ Plus System eliminates the need for up to two assistants - providing static scope and liver retraction for optimized surgical efficiency.

## FlexArm™ Plus Twin Robotic / Laparoscopic System Ref. No. 99000-R (System Includes:)



REF. NO.	QTY.	DESCRIPTION
1 99056-QC	2	FlexArm™ Plus with Hex Fitting
2 69098	1	Long Reach Mount Post/Swivel Ball Assy.
3 69710-R9	1	6.5mm Robotic Hook Set - 1 ea. S,M,L
4 72162	1	Quick-Grip - 10mm Holding Tip
5 69099	1	Table Rail Clamp





# FLEXARM™ PLUS COMPANION ARMS & MOUNTING ACCESSORIES

Individual FlexArm™ system components are available for expansion, upgrade or replacement of existing holding and positioning systems.

## FlexArm™ Plus with Quick-Connect Hex Fitting\* Ref. No. 99056-QC



Fixed Stainless Steel Tip	Fixed Delrin Tip
	
<b>REF. NO. 99056</b>	<b>REF. NO. 99056-D</b>

## FlexArm™ Plus with Distal Swivel Option, Quick-Connect Hex Fitting\* Ref. No. 99056-QC-BS01



\* See page 10 for Holding Tip accessories



The distal segment rotates through 360° with an end-angle position of ±90°

## FLEXARM™ PLUS MOUNTING POSTS

Horizontal arm allows for Universal FlexArm™ mounting / positioning. Vertical post attaches a Rail Clamp or directly to surgical table rail.



### Long Reach Swivel Ball Mount Post (requires Rail Clamp) Ref. No. 69098

Upper Post is ½" (1.27cm) dia., 16.5" (41.9cm) long and rotates 360° horizontally and vertically. Vertical post is ⅝" (1.59cm) dia. x 17.3" (44.5cm) long and allows for height adjustability. Used with an Table Rail Clamp.

### Swivel Ball Mount Post (with built-in rail clamp) Ref. No. 69053

Upper Post is ½" (1.27cm) dia. 11.75" (29.8cm) long and rotates 360° horizontally and 180° vertically. Lower post is .7" (1.7cm) dia. x 4.3" (10.9cm) long.

## TABLE ATTACHMENT



### Table Rail Clamp Ref. No. 69099

Features a spring loaded quick-mount. Accepts ⅝" (1.59cm) dia. posts. Fits all standard surgical table rails.

# MONOLITHIC FLEXARM™ SYSTEMS



Shown: 99045-QG10  
(scope not included)

Drop down slide handle






Built-in rail clamp

**Dimensions (see reference below):**  
 Post Height (A to B) - 10.5" (26.6cm)  
 Flexible Arm (B to C) - 16" (40.6cm)  
 Note: Tips will add approx. 3" (7.6cm) to arm length

The Monolithic FlexArm™ Plus features a one-piece design with a built-in rail clamp which is easy to set-up and simple to use. The ergonomic drop-down slide handle automatically aligns parallel to the arm to prevent interference.

- Rapid set-up, easy to use
- Versatile for endoscope or instrument holding
- Available in standard and long reach lengths

## STANDARD MONOLITHIC FLEXARM™ PLUS

Quick-Connect Fitting*	Fixed Stainless Steel Tip	Fixed Delrin Tip
		
<b>REF. NO. 99045-QC</b>	<b>REF. NO. 99045</b>	<b>REF. NO. 99045-D</b>
QC Tip with 10mm Quick-Grip Tip	QC Tip with 5mm Quick-Grip Tip	
		
<b>REF. NO. 99045-QG10</b>	<b>REF. NO. 99045-QG5</b>	

\* See page 10 for Holding Tip accessories

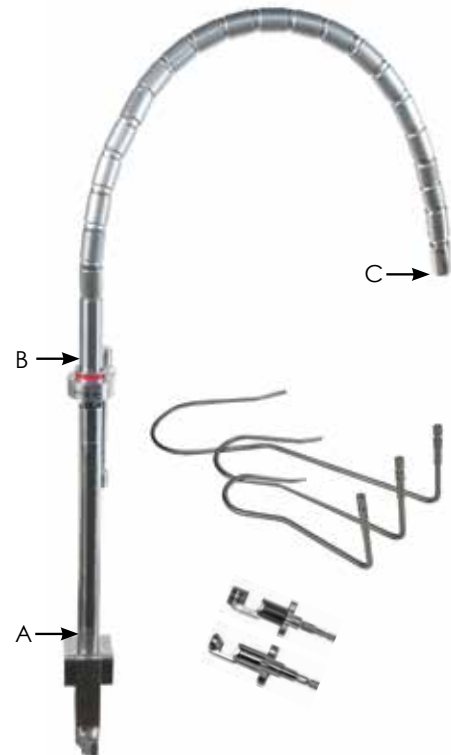
## LONG REACH MONOLITHIC FLEXARM™ PLUS AND SYSTEMS

For Bariatric and GERD procedures, the Long Reach Monolithic FlexArm™ Plus coupled with a Nathanson Liver Retractor permits static, atraumatic retraction of the liver without the retractor sagging.

REF. NO.	DESCRIPTION/SYSTEM CONTENTS
<b>99702</b>	<b>Long Reach Monolithic FlexArm™ Plus</b> Quick-Connect Hex Fitting
	<b>Nathanson Long Reach Monolithic Systems</b> Includes: Long Reach Monolithic FlexArm™ (99702) Stainless Steel Tip (69706), Delrin Tip (69707) and Nathanson Liver Retractors (select set):
<b>99701-R9</b>	<b>5mm Robotic Retractor Set (69709-R9)</b>
<b>99701</b>	<b>5mm Standard Retractor Set (69709)*</b>
<b>99720-R9</b>	<b>6.5mm Robotic Retractor Set (69710-R9)</b>
<b>99720</b>	<b>6.5mm Standard Retractor Set (69710)*</b>

NOTE: See page 9 for a full list of Nathanson Liver Retractors

\* - see Mediflex® website for details



**Dimensions:**  
 Post Height (A to B) - 10.5" (26.6cm)  
 Flexible Arm (B to C) - 20" (50.8cm)  
 Note: Tips will add approx. 3" (7.6cm) to arm length

# BOOKLER® ENDOSCOPIC FLEXARM™ PLUS



Complete System (99190)  
with Quick-Grip Tip (72162).  
Sold separately.  
Scope not included.

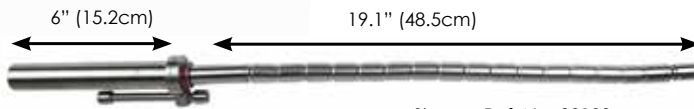


[See brochure](#)




The Bookler® Endoscopic FlexArm™ holder and positioner combines a 1" Field Post with a FlexArm™ Plus to provide an extremely versatile laparoscope or instrument holding device.

Allows for quick conversion of an endoscopic procedure to an open procedure - with the same Field Post and Post Coupler used in Mediflex® Bookler® or Universal Round Bar™ Table Mounted Retractor Systems.

- Versatile endoscope and instrument holding device
- Expanded utility of Mediflex® retractor systems
- Multiple configurations to accommodate all surgical procedures
- Individual components offered to maximize flexibility and serviceability



Shown: Ref. No. 99103

FLEXARM™ TIP CONFIGURATIONS	COMPLETE SYSTEMS 12" (30cm) Post (72011) <i>Includes FlexArm™ and Post Coupler (72013)</i>	COMPLETE SYSTEMS 18" (45cm) Post (72009) <i>Includes FlexArm™ and Post Coupler (72013)</i>	BOOKLER® FLEXARM™ (Only)
 Quick-Connect Tip*	Ref. No. 99190	Ref. No. 99191	Ref. No. 99103
 Fixed Stainless Steel Tip	Ref. No. 99105	Ref. No. 99095	Ref. No. 99051
 Fixed Delrin Tip	Ref. No. 99106	Ref. No. 99096	Ref. No. 99029

\*See page 10 for Holding Tip accessories

## BOOKLER® ENDOSCOPIC SYSTEM COMPONENTS

### Field Posts



**Ref. No. 72011** – 12" x 1" (30cm x 2.5cm)  
**Ref. No. 72009** – 18" x 1" (45cm x 2.5cm)

### Post Couplers



**Ref. No. 72013**  
1" x 1"  
(2.5cm x 2.5cm)



**Ref. No. 72013-C**  
Quick Lock  
1" x 1"  
(2.5cm x 2.5cm)

### Vertical Extension Bar



**Ref. No. 72014**  
12" x 1" (30cm x 2.5cm)

# STRONGARM™ HOLDING & POSITIONING SYSTEMS

Providing hands-free instrument, retractor, scope or accessory holding during all laparoscopic and robotic-assisted procedures for maximum surgical and operating room efficiency.

## Features Universal 3-D Positioning in all Planes



### VERSATILITY

Provides versatile placement and rigid holding capacity of virtually any instrument, retractor, scope or accessory. An assortment of Holding Tips and Attachments (see pages 9 & 10) offer extensive options for expanded applications.

### EFFICIENCY

Having a completely static image provides better visualization to reduce procedure time. Retraction is constant, resulting in superior exposure with less trauma to organs and other tissue. Staff and residents can focus on other tasks or learning.

### SIMPLICITY

Simple and rapid set-up as the Table Rail Clamp attaches to the surgical table rail over sterile drapes and offers height adjustability of the arm. Multi-directional arms lock tight with a single, ergonomic knob.

### VARIETY OF CONFIGURATIONS

Available in a variety of configurations to accommodate any surgical requirement including:

- Single Arm for retraction instrument or scope holding
- Twin Arm for maximum efficiency holding both a retraction instrument and scope
- Top-Mount for greater height and reach for bariatrics
- Front-Mount for most standard operations
- Short Distal Arm for specific procedures, pediatrics or small incision surgery



# STRONGARM™ SINGLE ARM SYSTEMS

All StrongArm™ Systems include the quick-connect hex fitting and height adjustable vertical post. StrongArms are available with or without Table Rail Clamp (69099). See page 10 for holding tips and page 9 for Nathanson Liver Retractors.

## Top-Mount Systems

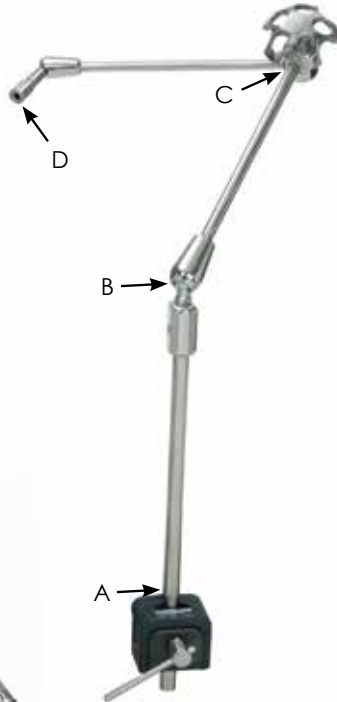
Features 360° rotation in the horizontal plane

### Ref. No. 73000-TM

Includes Rail Clamp (69099)

### Ref. No. 73001-TM

Without Rail Clamp



## Front-Mount Systems

### Ref. No. 73000

Includes Rail Clamp (69099)

### Ref. No. 73001

Without Rail Clamp



## Front-Mount Extended Post Systems

### Ref. No. 73000-LP

Includes Rail Clamp (69099)

### Ref. No. 73001-LP

Without Rail Clamp



## Short Distal Arm Systems

### Ref. No. 73000-SA

Includes Rail Clamp (69099)

### Ref. No. 73001-SA

Without Rail Clamp



## Short Distal Arm Curved Post Systems

Features 360° rotation in the horizontal plane

### Ref. No. 73002

Includes Rail Clamp (69099)

### Ref. No. 73002-NC

Without Rail Clamp



## STRONGARM™ SEGMENT DIMENSIONS

	REF. NO. 73000/73000-LP	REF. NO. 73000-TM	REF. NO. 73000-SA	REF. NO. 73002	REF. NO. 73010/73012	REF. NO. 99040*
<b>A - B</b> Post Height Adjustable Range	73000: 16" (40.6cm) 3.5-11.5" (9-29cm)  73000-LP: 23" (58.4cm) 3.5-19" (9-48cm)	22.5" (57cm) 3.5-19" (9-48cm)	16" (40.6cm) 3.5-11.5" (9-29cm)	16" (40.6cm) 3.5-11.5" (9-29cm)  Curved Post (horizontal portion) 6.5" (16.5cm)	15" (38.1cm) 3.5-11.5" (9-29cm)	15" (38.1cm) 3.5 - 11.5" (9-29cm)
<b>B - C</b> Mid- Segment	11.5" (29cm)	11.5" (29cm)	11.5" (29cm)	11.5" (29cm)	11.5" (29cm)	StrongArm™: 11.5" (29cm) FlexArm™ post: 13" (33cm)
<b>C - D*</b> End Segment	12.5" (31.8cm)	12.5" (31.8cm)	8" (20.3cm)	8" (20.3cm)	12.5" (31.8cm)	StrongArm™: 12.5" (31.8cm) FlexArm™: 17.5" (44.5cm)

\*see page 8

# STRONGARM™ TWIN / COMBO SYSTEMS

All StrongArm™ Twin/Combo Arm Systems include the quick-connect hex fitting and height adjustable vertical post. StrongArms are available with or without Table Rail Clamp (69099) as noted. See page 10 for tips and page 9 for Nathanson Liver Retractors.

## Twin StrongArm™ Systems

### Ref. No. 73010

Includes Rail Clamp (69099)

### Ref. No. 73012

Without Rail Clamp



See page 7 for system dimensions

## StrongArm™ FlexArm™ Combo System



### Ref. No. 99040

Includes Rail Clamp (69099)

StrongArm™ provides rigid holding of a Nathanson Liver Retractor - FlexArm™ provides static scope holding and allows for intraoperative adjustments.

# STRONGARM™ NATHANSON SYSTEMS

StrongArm™ Nathanson Liver Retraction Systems provide a variety of components to offer versatility for different procedures performed requiring liver retraction and/or static scope holding. The systems include Top-Mounted StrongArm™ Systems with quick-connect hex fitting along with three Robotic Nathanson Retractors, Stainless Steel Tip for holding instruments, Delrin Tip for holding endoscopes, and a Table Rail Clamp.

- Useful in robotic-assisted, bariatric and GERD procedures
- Eliminates the need of assistant to hold the liver retractor
- Hexagonal lock prevents retractor slippage and rotation



## NATHANSON STRONGARM™ COMPLETE SYSTEMS\* INCLUDE:

### 73005-NLR-R9

**Arm:** Top-Mount StrongArm™ with Quick-Connect Tip (73001-TM), Rail Clamp (69099)  
**Robotic Nathanson Retractors:** 5mm Set (69709-R9- see page 9)  
**Tips:** Stainless Steel Instrument Tip (69706), Delrin Scope Tip (69707)

### 73025-NLR-R9

**Arm:** Top-Mount StrongArm™ with Quick-Connect Tip (73001-TM), Rail Clamp (69099)  
**Robotic Nathanson Retractors:** 6.5mm Set (69710-R9 - see page 9)  
**Tips:** Stainless Steel Instrument Tip (69706), Delrin Scope Tip (69707)

### 73020-XL-R9

**Arm:** Top-Mount StrongArm™ with Quick-Connect Tip (73001-TM), Rail Clamp (69099)  
**Robotic Nathanson Retractors:**  
 6.5mm Small (69735-R9), Med XL (69736-XL-R9), Lg XL (69737-XL-R9)  
**Tips:** Stainless Steel Instrument Tip (69706), Delrin Scope Tip (69707)

\*Also available: Nathanson StrongArm™ complete systems with standard hooks - see [www.mediflex.com](http://www.mediflex.com)

# NATHANSON LIVER RETRACTORS

Nathanson Liver Retractors from Mediflex® have proven to be ideal for laparoscopic liver retraction as they support the entire left liver lobe to provide atraumatic exposure. The retractors feature a hexagonal proximal end which fits securely into the quick-connect hex fitting of all Mediflex® FlexArms and StrongArms. Only Mediflex® offers a line of Robotic Nathanson retractors - specially designed to eliminate interference with robotic arm movement.



Shown: Ref. No. 69736-XL-R9

- Widest variety on the market
- Used in Upper GI, Bariatric and GERD procedures
- Eliminates the need for an assistant to hold the liver retractor
- Reduced trauma compared to hand-held
- Hexagonal lock eliminates retractor slippage and rotation
- Versions with extended distal tips for thicker abdominal walls
- 3 different diameter options - 3mm, 5mm and 6.5mm
- Full range of robotic retractors available



[See brochure](#)



## INDIVIDUAL NATHANSON RETRACTORS

	REF. NO.	DIA. (mm)	Size	A	B	C	D	E	F
<b>ROBOTIC</b>	69703-R9	5.0	Small	.5" (1.3cm)	1.5" (3.8cm)	1.6" (4.1cm)	2.3" (5.8cm)	3.5" (8.9cm)	2" (5.1cm)
	69735-R9	6.5	Small	.5" (1.3cm)	1.5" (3.8cm)	1.6" (4.1cm)	2.3" (5.8cm)	3.5" (8.9cm)	2" (5.1cm)
	69704-R9	5.0	Medium	1" (2.5cm)	2" (5.1cm)	2.2" (5.6cm)	3.1" (7.9cm)	5" (12.7cm)	2" (5.1cm)
	69736-R9	6.5	Medium	1" (2.5cm)	2" (5.1cm)	2.2" (5.6cm)	3.1" (7.9cm)	5" (12.7cm)	2" (5.1cm)
	69736-XL-R9	6.5	Medium	1.7" (4.3cm)	2" (5.1cm)	2.2" (5.6cm)	3.1" (7.9cm)	5" (12.7cm)	2" (5.1cm)
	69705-R9	5.0	Large	1.5" (3.8cm)	3" (7.6cm)	3" (7.6cm)	4.5" (11.4cm)	7" (17.8cm)	2" (5.1cm)
	69737-R9	6.5	Large	1.5" (3.8cm)	3" (7.6cm)	3" (7.6cm)	4.5" (11.4cm)	7" (17.8cm)	2" (5.1cm)
	69737-XL-R9	6.5	Large	2.2" (5.6cm)	3" (7.6cm)	3" (7.6cm)	4.5" (11.4cm)	7" (17.8cm)	2" (5.1cm)
	<b>STANDARD</b>	69738-3	3.0	Ex-Small	.3" (.76cm)	.6" (1.5cm)	.6" (1.5cm)	1" (2.5cm)	1.5" (3.8cm)
69738		5.0	Ex-Small	.5" (1.3cm)	.9" (2.3cm)	.9" (2.3cm)	1.8" (4.6cm)	2" (5.1cm)	5.5" (14cm)
69735-3		3.0	Small	.5" (1.3cm)	1.5" (3.8cm)	1.6" (4.1cm)	2.3" (5.8cm)	3.5" (8.9cm)	5.5" (14cm)
69703		5.0	Small	.5" (1.3cm)	1.5" (3.8cm)	1.6" (4.1cm)	2.3" (5.8cm)	3.5" (8.9cm)	5.5" (14cm)
69735		6.5	Small	.5" (1.3cm)	1.5" (3.8cm)	1.6" (4.1cm)	2.3" (5.8cm)	3.5" (8.9cm)	5.5" (14cm)
69735-XL		6.5	Small	1.6" (4.1cm)	1.5" (3.8cm)	1.6" (4.1cm)	2.3" (5.8cm)	3.5" (8.9cm)	5.5" (14cm)
69704-3		3.0	Medium	1" (2.5cm)	2" (5.1cm)	2.2" (5.6cm)	3.1" (7.9cm)	5" (12.7cm)	7.5" (19.1cm)
69704		5.0	Medium	1" (2.5cm)	2" (5.1cm)	2.2" (5.6cm)	3.1" (7.9cm)	5" (12.7cm)	7.5" (19.1cm)
69736		6.5	Medium	1" (2.5cm)	2" (5.1cm)	2.2" (5.6cm)	3.1" (7.9cm)	5" (12.7cm)	7.7" (19.6cm)
69736-XL		6.5	Medium	1.7" (4.3cm)	2" (5.1cm)	2.2" (5.6cm)	3.1" (7.9cm)	5" (12.7cm)	7.7" (19.6cm)
69705		5.0	Large	1.5" (3.8cm)	3" (7.6cm)	3" (7.6cm)	4.5" (11.4cm)	7" (17.8cm)	10.7" (27.2cm)
69737		6.5	Large	1.5" (3.8cm)	3" (7.6cm)	3" (7.6cm)	4.5" (11.4cm)	7" (17.8cm)	10.7" (27.2cm)
69737-XL		6.5	Large	2.2" (5.6cm)	3" (7.6cm)	3" (7.6cm)	4.5" (11.4cm)	7" (17.8cm)	10.7" (27.2cm)

## ROBOTIC NATHANSON RETRACTOR SETS\*

REF. NO.	DIA.	SET CONTENTS (1 EA)
69709-R9	5mm	Small (69703-R9), Medium (69704-R9), Large (69705-R9)
69710-R9	6.5mm	Small (69735-R9), Medium (69736-R9), Large (69737-R9)



\* additional sets available with standard length hooks on [www.mediflex.com](http://www.mediflex.com)

# HOLDING TIPS & ACCESSORIES

## ADJUSTABLE HOLDING TIPS

Allows for manual clamping adjustment to hold instruments and/or scopes of varying sizes



### Stainless Steel Tip

**Ref. No. 69706**

Holding capacity: 3.5-15mm  
Provides secure holding of metal instrument shafts



### Delrin Tip

**Ref. No. 69707**

Holding capacity: 1.5-15mm  
Gentle contact to hold scopes



### XL Stainless Steel Tip

**Ref. No. 69706-L**

Holding capacity: 5-31.75mm  
Wide opening to facilitate large tubing or odd shaped devices

## AUTOMATIC HOLDING TIPS

Safely and quickly secures endoscopes - atraumatic jaws will not cause damage



### Quick-Grip Tip, 10mm

**Ref. No. 72162**

Holding capacity: 10mm



### Quick-Grip Tip, 5mm

**Ref. No. 72163**

Holding capacity: 5mm



### Quick-Grip Tip, 4mm

**Ref. No. 72164**

Holding capacity: 4mm

## FLEXIBLE SCOPE TIP

Provides stabilization of flexible scopes of various configurations



### Flexible Scope Tip

**Ref. No. 99706**

Holding capacity: 35.5mm



*Flexible Scope Tip innovative design incorporates replaceable Silicone Liners for scope protection and increased grip strength. (Silicone Liners sold separately)*



### Silicone Liners

**Ref. No. 99706-SL**

Reusable, 4 per PK



## TABLE ATTACHMENT DEVICES

Attachments to standard surgical table rails



### Table Rail Clamp

**Ref. No. 69099**

Features a spring loaded quick-mount. Accepts 5/8" (1.59cm) dia. posts



### Clark Socket Clamp

**Ref. No. 91187**

Allows for adjustable angles of vertical post positioning. Accepts 5/8" (1.59cm) dia. posts



### Rail Segment Clamp

**Ref. No. 38111**

For squared-off imaging tables without rails. Fits on tables up to 1.5" (3.8cm) thick



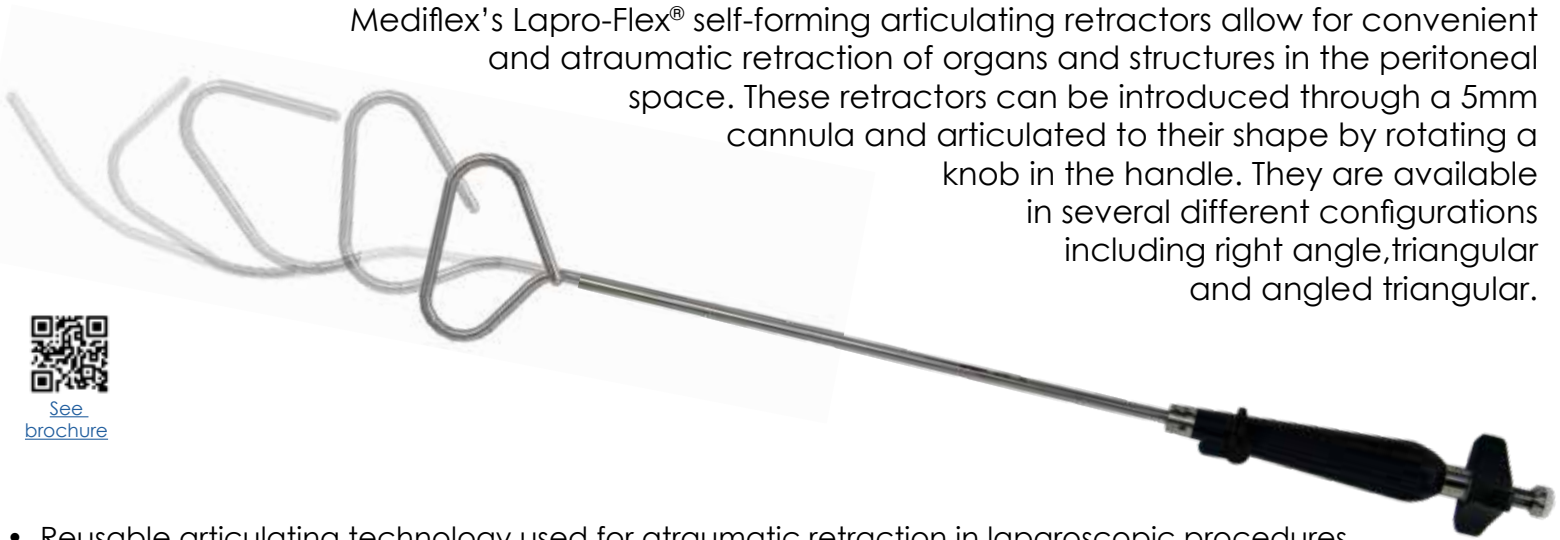
### Rail Clamp Adapter

**Ref. No. 72225**

Allows all Mediflex® Rail Clamps to fit oversized table rails such as Jackson Table

## LAPRO-FLEX® ARTICULATING RETRACTORS

Mediflex's Lapro-Flex® self-forming articulating retractors allow for convenient and atraumatic retraction of organs and structures in the peritoneal space. These retractors can be introduced through a 5mm cannula and articulated to their shape by rotating a knob in the handle. They are available in several different configurations including right angle, triangular and angled triangular.



See  
brochure

- Reusable articulating technology used for atraumatic retraction in laparoscopic procedures
- Actuating knob quickly forms shape completely
- Finger style model ideal for esophageal and renal hilum retraction
- Innovative tip design ensures minimal space is required inside the abdomen to form the retractor shape
- Held by a FlexArm™ Plus or StrongArm™ to eliminate an assistant dedicated to retraction

Available in Straight or Angled Base\* Styles:



**FINGER STYLE**

**Ref. No. 91680**  
90 Degrees Articulation  
5mm x 38cm



**60mm TRIANGLE STYLE**

**Ref. No. 91682**  
60mm Base - 5mm x 32cm  
**Ref. No. 91682-A**  
60mm Angled Base - 5mm x 32cm



**80mm TRIANGLE STYLE**

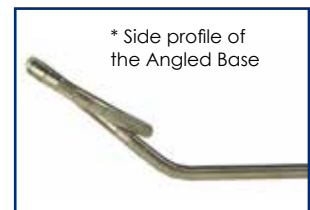
**Ref. No. 91683**  
80mm Base - 5mm x 32cm  
**Ref. No. 91683-A**  
80mm Angled Base - 5mm x 32cm



StrongArm™ (73000-TM) with  
Stainless Steel Tip (69706)  
holding Lapro-Flex® (91682)



FlexArm™ Plus (99054-QCLR) with  
Quick-Grip 5mm Tip (72163)  
holding Lapro-Flex® (91683-A)



\* Side profile of  
the Angled Base



See Laparoscopic Instrument  
Catalog or website for a  
complete line of instruments

See  
Catalog

# LAPAROSCOPIC RETRACTION INSTRUMENTS

A variety of laparoscopic retraction instruments are available to achieve optimum exposure.

## KITE STYLE FAN RETRACTORS



**Ref. No. 91670**  
Straight Kite Retractor  
5mm x 33cm

**Ref. No. 91675**  
Curved Kite Retractor  
5mm x 33cm

## ARTICULATING FAN RETRACTORS WITH FLUSH PORT

**Ref. No. 91671**  
5mm x 33cm\* Articulating Fan Retractor,  
3 Blades with Flush Port

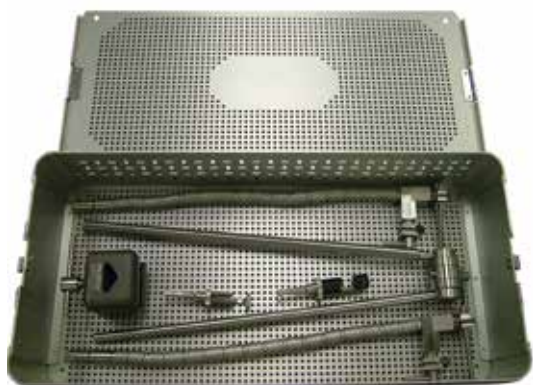
**Ref. No. 91672**  
10mm x 34cm\* Articulating Fan Retractor,  
5 Blades with Flush Port

\* Total length including fan



# STERILIZATION TRAYS & CONTAINERS

Wrapable, multi-use Sterilization Trays are available for Mediflex® holding systems and accessories.



**Ref. No. 69760 - Standard Tray**  
22.7" x 10.6" x 4.7" (57.6cm x 26.9cm x 11.9cm)



**Ref. No. 69760-M - Silicone Mat**  
Fits Sterilization Tray 69760  
20.3" x 9.5" (51.6cm x 24.1cm)



**Ref. No. 69761 - Medium Tray**  
26.7" x 11" x 6" (67.8cm x 27.9cm x 15.2cm)



**Ref. No. 69762 - Extra Long Tray**  
31" x 11" x 6" (78.7cm x 27.9cm x 15.2cm)

Sterilization Container Systems are available. [www.mediflex.com](http://www.mediflex.com)



See [Sterilization Tray Chart](#) for compatibility with Mediflex® Holding Systems

# ADDITIONAL INNOVATIVE PRODUCTS

## Port-Free Internal Retractors

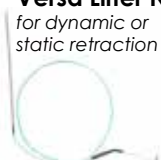
simple, hands-free retraction solution - sterile, disposable

**Versa Lifter Band**  
for liver retraction



[See brochure](#)

**Versa Lifter Needle**  
for dynamic or static retraction



[See brochure](#)

**TPEA Lifter**  
for static retraction



[See brochure](#)

## DynaTrac™ Retraction System

for superficial and deep retraction requirements — with table mounted stabilization



[See brochure](#)

## Liquid Scope Warmer

for rapid and safe prevention of scope condensation



[See brochure](#)

## Patented SafePass™

### Suture Grasper

to protect patients against needle injury



[See brochure](#)

## NUMERICAL INDEX

REF. NO.	PAGE	REF. NO.	PAGE	REF. NO.	PAGE	REF. NO.	PAGE	REF. NO.	PAGE
38111	10	69736-R9	9	72225	10	91680	11	99055-DLSR	2
69053	3	69736-XL	9	73000	7	91682	11	99055-LR	2
69098	3	69736-XL-R9	9	73000-LP	7	91682-A	11	99055-QCLR	2
69099	3,10	69737	9	73000-SA	7	91683	11	99056	3
69703	9	69737-R9	9	73000-TM	7	91683-A	11	99056-D	3
69703-R9	9	69737-XL	9	73001	7	99000-R	3	99056-QC	3
69704	9	69737-XL-R9	9	73001-LP	7	99029	5	99056-QC-BS01	3
69704-3	9	69738	9	73001-SA	7	99040	7,8	99095	5
69704-R9	9	69738-3	9	73001-TM	7	99045	4	99096	5
69705	9	69760	12	73002	7	99045-D	4	99103	5
69705-R9	9	69760-M	12	73002-NC	7	99045-QC	4	99105	5
69706	10	69761	12	73005-NLR-R9	8	99045-QG5	4	99106	5
69706-L	10	69762	12	73010	7,8	99045-QG10	4	99190	5
69707	10	72009	5	73012	7,8	99051	5	99191	5
69709-R9	4,9	72011	5	73020-XL-R9	8	99054	2	99701	4
69710-R9	3,4,9	72013	5	73025-NLR-R9	8	99054-D	2	99701-R9	4
69735	9	72013-C	5	91187	10	99054-DLR	2	99702	4
69735-3	9	72014	5	91670	12	99054-LR	2	99706	10
69735-R9	9	72162	3,10	91671	12	99054-QC	2	99706-SL	10
69735-XL	9	72163	10	91672	12	99054-QCLR	2	99720	4
69736	9	72164	10	91675	12	99055-DLR	2	99720-R9	4



# Mediflex<sup>®</sup>

**SURGICAL PRODUCTS**

Mediflex<sup>®</sup> Surgical Products -  
a Division of Flexbar<sup>®</sup> Machine Corp.  
250 Gibbs Road  
Islandia, New York 11749

Phone: +1.631.582.6424  
Toll-Free (USA): 1.800.764.0474  
Fax: +1.631.582.4520  
Email: [info@mediflex.com](mailto:info@mediflex.com)

[www.mediflex.com](http://www.mediflex.com)