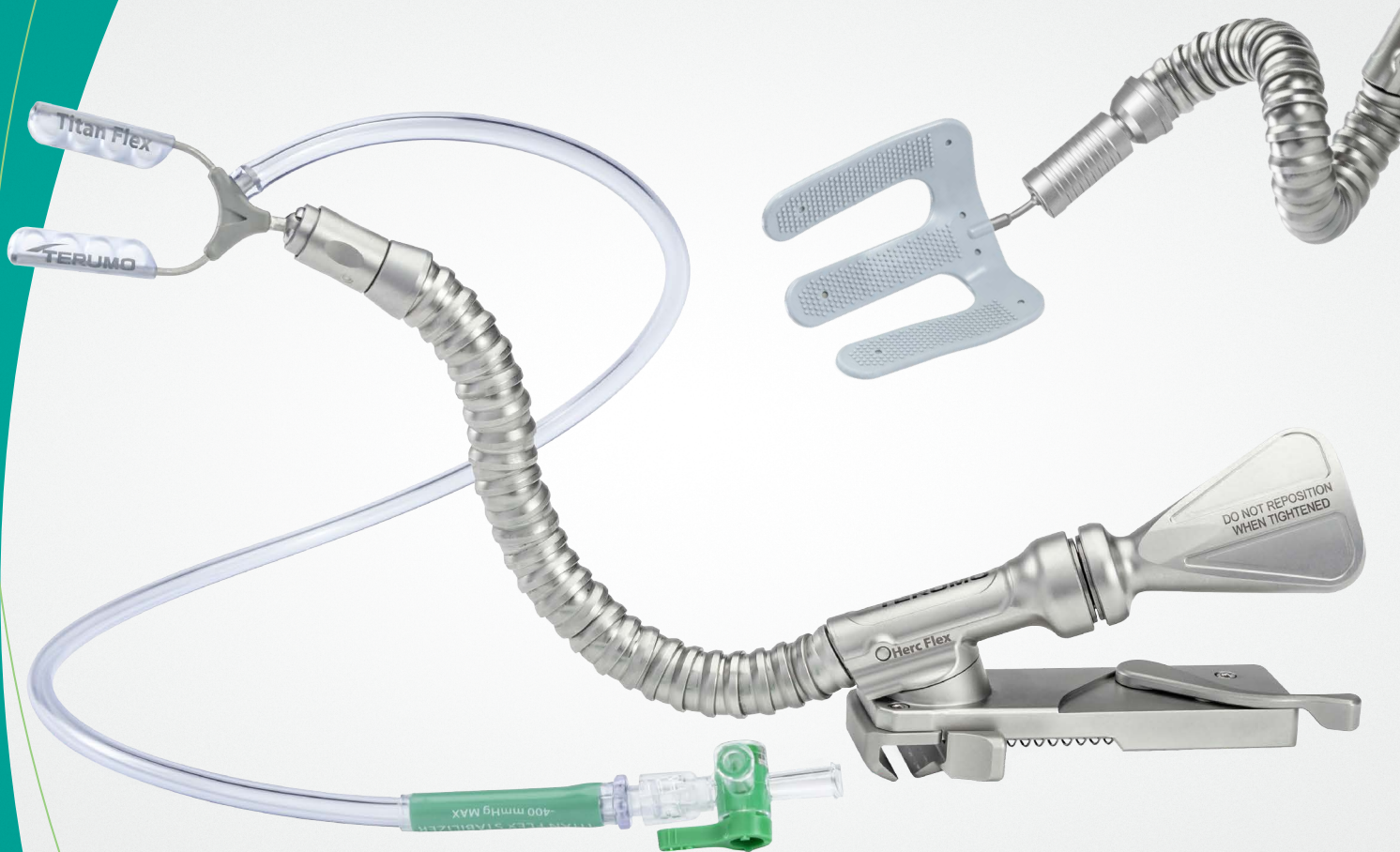


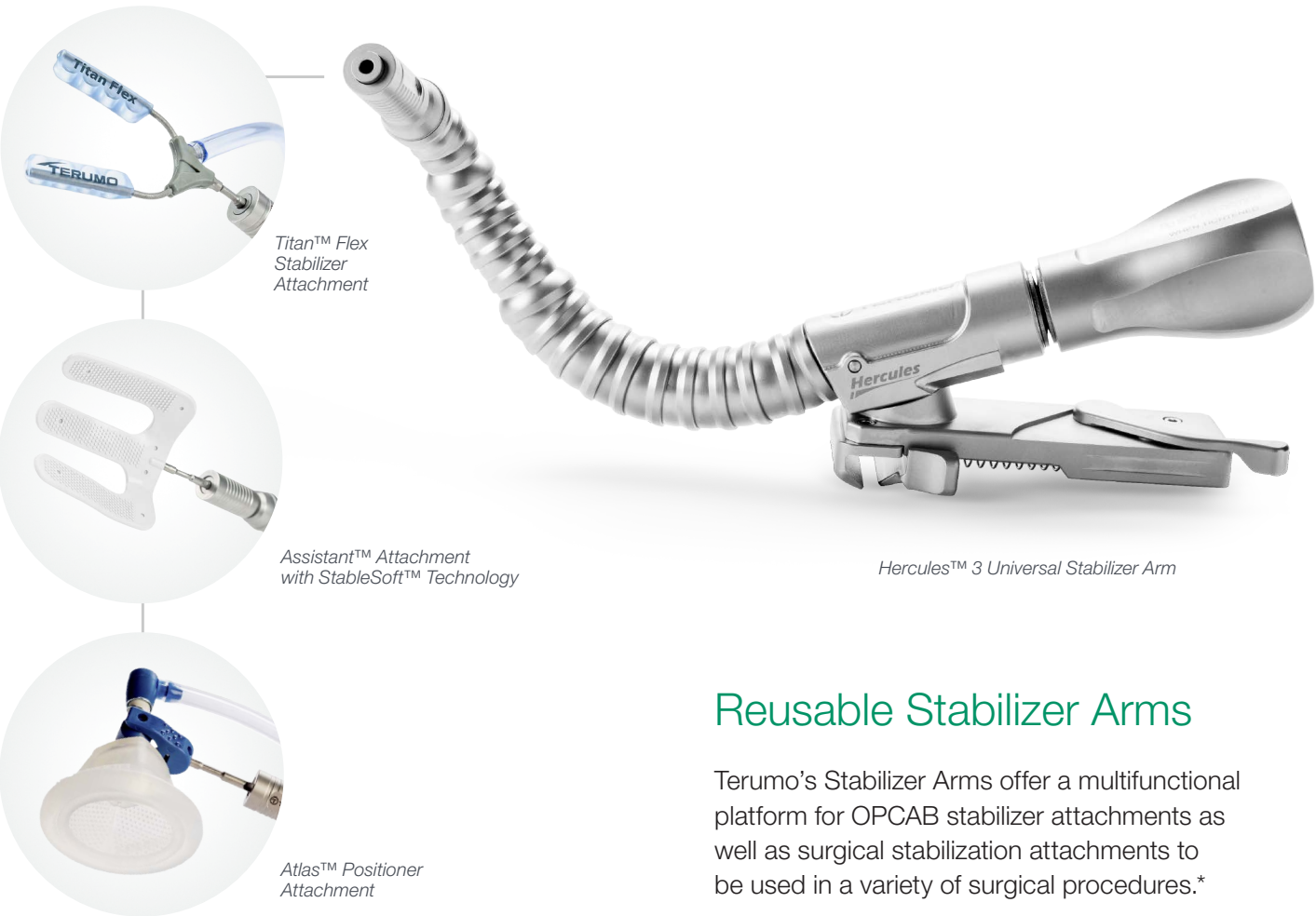
# Beating Heart and Surgical Stabilization

Product Portfolio



# Versatile, reusable concept.

Terumo's Beating Heart and Surgical Stabilization Products provide a versatile combination of stabilization, positioning and retraction during on- and off-pump cardiac surgery.



## Disposable Attachments for on- and off-pump procedures

Disposable attachments connect with ease to the shaft or ball style quick connect ports of the Stabilizer Arms, delivering a sustainable, value-driven solution.\*

## Reusable Stabilizer Arms

Terumo's Stabilizer Arms offer a multifunctional platform for OPCAB stabilizer attachments as well as surgical stabilization attachments to be used in a variety of surgical procedures.\*

The durable stainless-steel construction can be reprocessed for reuse, making it a cost effective solution.\*



Attachments for Stabilizer Arms	Shaft Quick Connect	Ball Quick Connect
Titan™ and Titan™ Flex Stabilizer Attachments	●	●
StableSoft™ II Stabilizer Attachments	●	
Assistant™ and Assistant™ Flex Attachments	●	
Atlas™ Positioner Attachments	●	●

# Beating Heart and Surgical Stabiliz

## Stabilizer Arms



### Herc Flex™ and Hercules™ Universal Stabilizer Arms

The robust, stainless-steel stabilizer arms provide a multifunctional platform for stabilizing and positioning attachments during various on-and off-pump surgical procedures. The reusable, stainless-steel construction enhances sustainability, durability and cost-effectiveness.\* Disposable attachments can easily be connected to the shaft or ball style quick connect ports of the stabilizer arms.

The Herc Flex™ 360 and Hercules™ 360 Universal Stabilizer Arms allow for full 360-degree, low-profile articulation enabling exceptional visualization in the surgical field.\*

## Attachments for Beating Heart Surgery



### Titan™ Flex and Titan™ Stabilizer Attachments

The stabilizer attachments provide optimal stabilization and coronary artery isolation during beating heart surgery. They offer dynamic tissue adherence, micro-footprint vacuum compression, and 360-degree articulating malleable design, allowing to fulfill the users' needs.



### StableSoft™ II Stabilizer Attachments

The StableSoft™ II Stabilizer Attachments are mechanical, non-suction stabilizers providing a similar malleable footprint as the Titan™ Stabilizer Attachments.



### Atlas™ Positioner Attachments

The positioner attachments are used to position the apex of the heart. Its advanced vacuum stabilization and dynamic tissue adherence combine to minimize tissue trauma. Minimum vacuum requirements provide secure, optimal positioning.





# ation Product Family

## Attachments for Surgical Stabilization



Assistant™  
Flex 3L and 3S



Assistant™  
3L and 3S



Assistant™  
2L and 2S

### Assistant™ Flex and Assistant™ Attachments with StableSoft™ Technology

These attachments allow for positioning and retraction of anatomical structures for a wide variety of surgical procedures. The textured, silicone-coated surface provides exceptional grip and stability, making the device ideal for cases requiring an extra hand, or where access is otherwise difficult.\* Options include 2- and 3-fingers, long and short lengths.

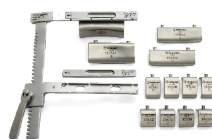
## Accessories



### Mister Blower

The Mister Blower can be used during cardiopulmonary bypass procedures to clear the surgical site for improved visibility by providing controlled delivery of CO<sub>2</sub> gas and saline solution. It features two separate lines for CO<sub>2</sub> gas and saline solution, and a roller clamp to control the flow.

## Sternal Retractor System



### Apollo™ Retractor System

The retractor system is an essential component for median sternotomy beating heart coronary artery bypass procedures. The system comes complete with four different blade sets and a pair of locking plates to hold the retractor blades securely in place.



### Suture Holder Inserts

Disposable inserts slide into a variety of sternal retractors to place tension on the sutures aiding the positioning of anatomical structures and providing exposure and access during surgical procedures.

All Terumo Stabilizer Arms mount easily onto the Apollo™ Retractor System.



# Now Introducing FLEX

Redesigned based on customer feedback, the FLEX beating heart and surgical stabilization product line offers even greater versatility, flexibility and a slimmer design.\* At the same time it allows for excellent stabilization, retraction and positioning whilst providing optimal visualization in the surgical field.\*

## Herc Flex™ Stabilizer Arms

### **Slim handle**

Improves tightening control and maintain maximum stability.\*

### **Low profile**

Smaller diameter and lighter weight design allow for precise positioning, stabilization and retraction for exceptional visualization in the surgical field.\*



## Titan™ Flex Stabilizer Attachments

### **Enhanced malleable framework**

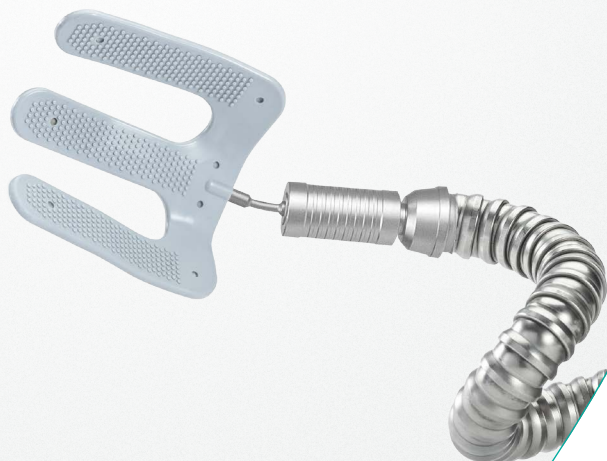
Allows for close contouring to a variety of heart anatomy whilst maintaining excellent stability for exposure and anastomosis.\*



## Assistant™ Flex Attachments with StableSoft™ Technology

### **Increased flexibility at its base**

Allows for multiple custom configurations during various on- and off-pump surgical cases traditionally requiring an extra hand.





# Ordering Information

## Stabilizer Arms (Reusable)

Catalog #	Description	Units/Case
T401160	Hercules™ 360 Universal Stabilizer Arm, ball connection	1
T401161	Hercules™ 3 Universal Stabilizer Arm, shaft connection	1
T401162	Herc Flex™ 360 Stabilizer Arm, ball connection	1
T401163	Herc Flex™ Stabilizer Arm, shaft connection	1

## Attachments for OPCAB (Disposable)

Catalog #	Description	Units/Case
T401231	Titan™ Stabilizer Attachment, suction, shaft connection	5
T401231U	Titan™ 360 Stabilizer Attachment, suction, ball connection	5
T401231LS	Titan™ Stabilizer Attachment, suction, long shaft connection	5
T401232	Titan™ Flex Stabilizer Attachment, suction, shaft connection	5
T401232U	Titan™ Flex 360 Stabilizer Attachment, suction, ball connection	5
T401244	StableSoft™ II Stabilizer Attachment, mechanical, shaft connection	5
T401245	StableSoft™ II Stabilizer Attachment, mechanical, long shaft connection	5
T401261	Atlas™ Positioner Attachment, suction, shaft connection	5
T401261U	Atlas™ 360 Positioner Attachment, suction, ball connection	5

## Attachments for Surgical Stabilization (Disposable)

Catalog #	Description	Units/Case
T401209S	Assistant™ Attachment with StableSoft™ Technology, 3L (3 fingers, long) 6.1 cm W x 9.1 cm L (finger length), 3.3 cm L (shaft length)	5
T401210S	Assistant™ Attachment with StableSoft™ Technology, 3S (3 fingers, short) 6.0 cm W x 5.4 cm L (finger length), 3.3 cm L (shaft length)	5
T401211S	Assistant™ Attachment with StableSoft™ Technology, 2L (2 fingers, long) 3.1 cm W x 9.1 cm L (finger length), 3.3 cm L (shaft length)	5
T401212S	Assistant™ Attachment with StableSoft™ Technology, 2S (2 fingers, short) 3.6 cm W x 5.4 cm L (finger length), 3.3 cm L (shaft length)	5
T401213S	Assistant™ Flex Attachment with StableSoft™ Technology, 3L (3 fingers, long) 6.1 cm W x 9.1 cm L (finger length), 3.4 cm L (shaft length)	5
T401214S	Assistant™ Flex Attachment with StableSoft™ Technology, 3S (3 fingers, short) 6.0 cm W x 5.4 cm L (finger length), 3.4 cm L (shaft length)	5

## Retractor System

Catalog #	Description	Units/Case
T400401	Apollo™ Retractor System, includes:	1
	Apollo™ Retractor Blades (W: 100mm x L: 30 mm)	Set of 2
	Apollo™ Retractor Blades (W: 100mm x L: 40 mm)	Set of 2
	Apollo™ Retractor Blades (W: 30mm x L: 30 mm)	Set of 4
	Apollo™ Retractor Blades (W: 30mm x L: 40 mm)	Set of 4
	Apollo™ Retractor Locking Plates	Set of 2
T401270	Suture Holder Inserts	5

## Accessories

Catalog #	Description	Units/Case
BOT-71	Mister Blower	10

The Mister Blower is manufactured by BL lifesciences and distributed by Terumo Europe N.V. in EMEA.

The Apollo™ Retractor System is manufactured by Tedan Surgical Innovations and distributed by Terumo Europe N.V. in EMEA.

\*Internal testing, data on file.



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