

# Ligature Solutions

Titanium & Polymer Ligation Systems

# Our Vision

"True to our vision **INNOVATING TRADITION**, it has always been our goal to not only provide our customers and healthcare professionals with an industry-leading value proposition through continuous innovation in our products and processes.

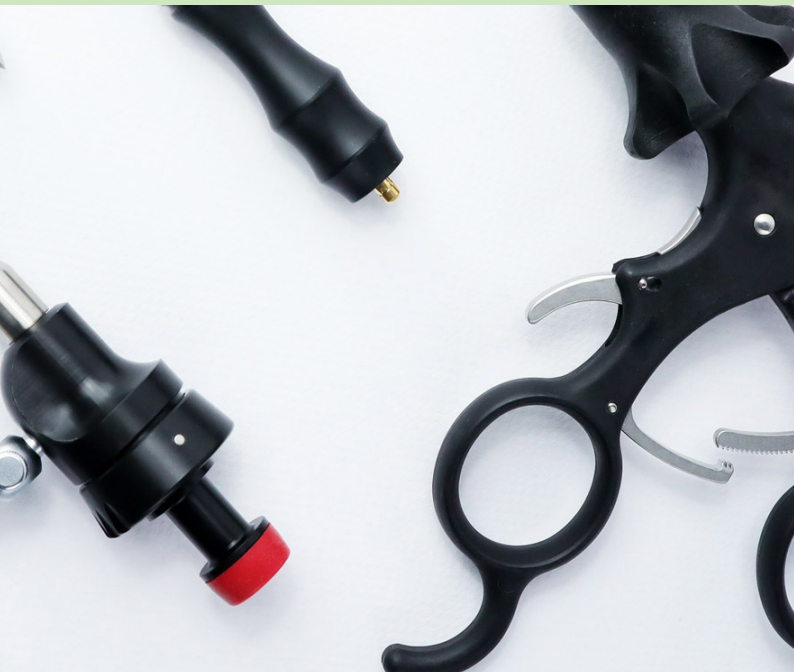
# Ackermann

We believe that it is equally important to not lose sight of our roots and to preserve the craftsmanship that has been perfected over generations as an established family business. This enables us to maintain a productive and sustainable home for our staff and to improve clinical outcomes every single day in over 100 countries around the world."

**Peter Grassl, CEO**

## + 20k SKUs

As **Full-Range-System Manufacturer** we are able to provide you with a coherent product portfolio - from endoscopy to ligation, from implantology to general surgery.



# Capabilities

+ Manufacturing

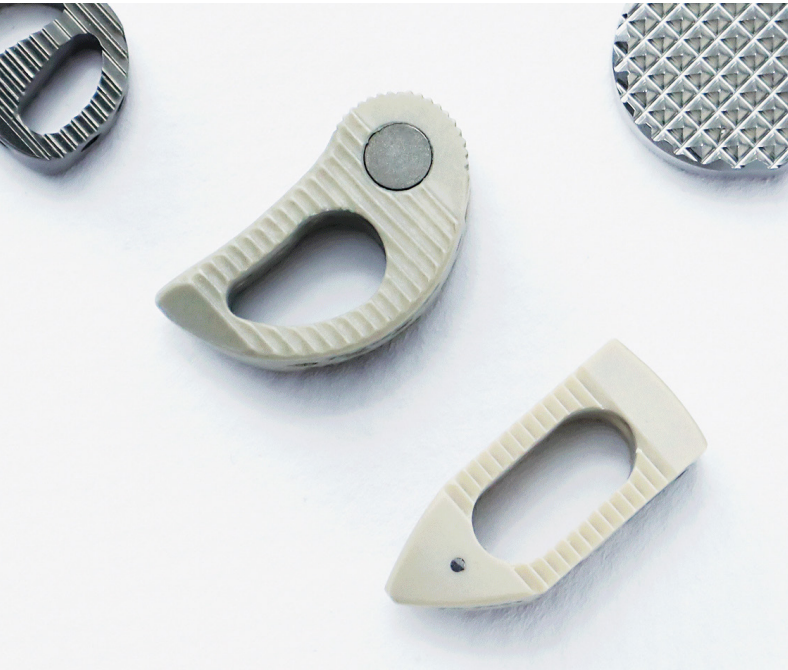
Surgical Instruments, Units, Implants, Optics

+ Regulatory

ISO 13485:2016, US FDA, CFDA, ANVISA,  
COFEPRIS

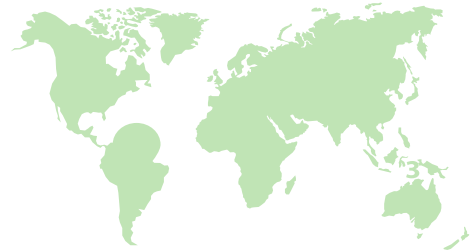
+ Service

+ R&D



# Global Player

Sales subsidiaries located in  
**Greece, India, USA & Mexico**



Serving over  
**100**  
Countries

More than  
**80**  
Employees



**3**  
Manufacturing  
Sites

**400**  
Strategic  
Partners



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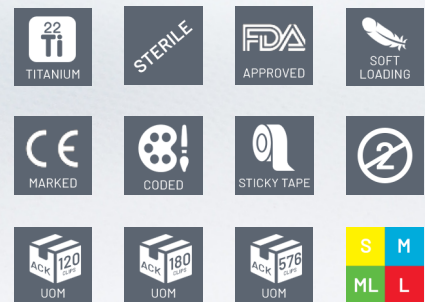
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# Europclip™ Titanium Haemostatic Clips

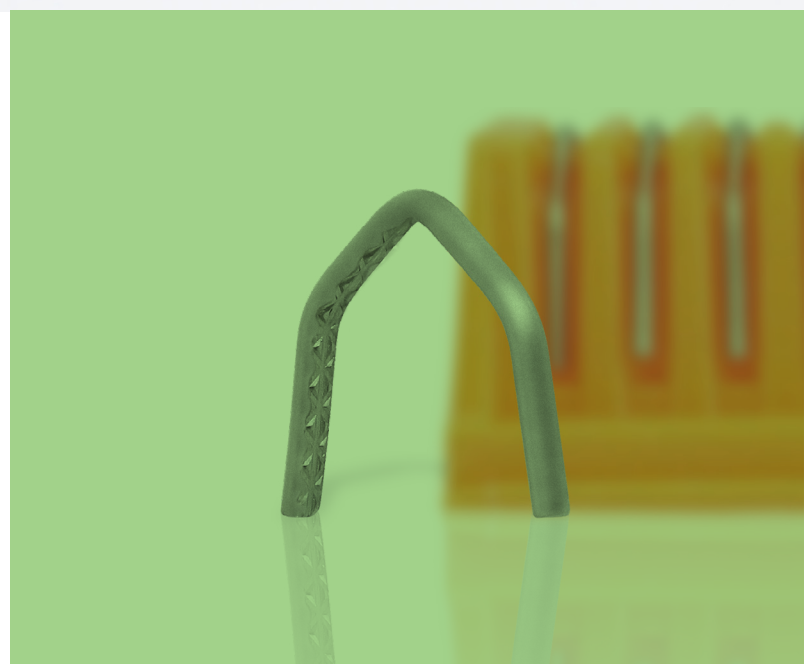
## Key Features

- Chevron shape design for **„tip-first“ closing action** allowing for secure and precise positioning, even on delicate structures while reducing the risk of tissue slippage
- **Unique inner cross-serration** to maximize contact surface ensuring secure but less traumatic vessel sealing
- **Heart-shaped profile** for reliable vessel occlusion also reducing the risk of scissoring



## ... more Features

- Medical grade titanium for maximized biocompatibility
- Soft-load cartridge design for convenient loading action
- 100% made in Germany
- Color coded cartridges for convenient clip size and applicator identification
- Sterile packed for immediate use
- Multiple packaging configurations
- Adhesive at the back of the cartridge for easy fixation providing precise handling

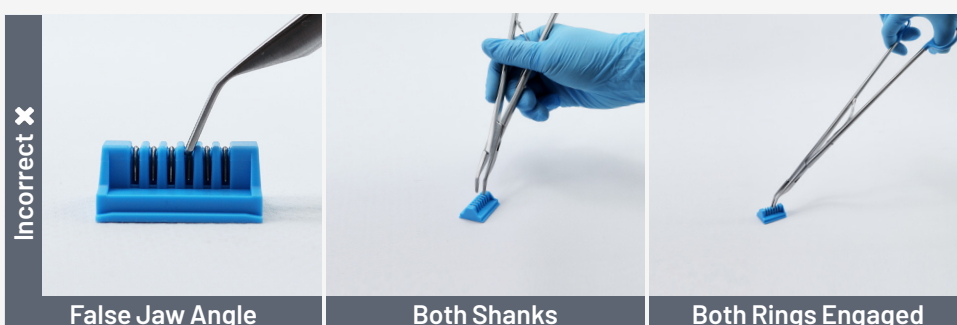
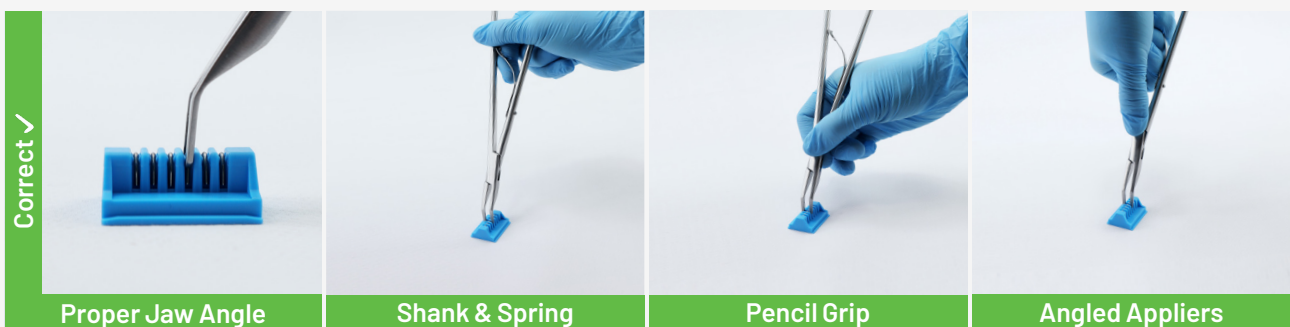


# Europclip™ Titanium Haemostatic Clips



	Pcs./Cartridge		Cartridges/Box			Pcs./Box			Color coding	Item no.
	6	24	20	24	30	120	180	576		
Small Europclips™	•		•			•			●	AI74CS6
Small Europclips™	•				•		•		●	AI74CS6-30C
Small Europclips™		•		•			•		●	AI74CS6/24
Medium Europclips™	•		•			•			●	AI74CM6
Medium Europclips™	•				•		•		●	AI74CM6-30C
Medium Europclips™		•		•			•		●	AI74CM6/24
Medium-large Europclips™	•		•			•			●	AI74CML6
Medium-large Europclips™	•				•		•		●	AI74CML6-30C
Medium-large Europclips™		•		•			•		●	AI74CML6/24
Large Europclips™	•		•			•			●	AI74CL6
Large Europclips™	•				•		•		●	AI74CL6-30C
Large Europclips™		•		•			•		●	AI74CL6/24

## Handling of the Clips with the Appliers



# Europclip™ Open Surgery Appliers

## Key Features

- **Diamond dusted** jaws for maximum clip grip and supreme application properties
- Precision milled jaws, perfectly aligned for lasting performance
- Delicate, **slim tip** design for convenient maneuverability



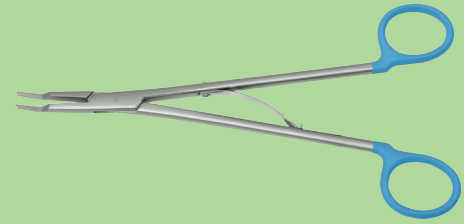
## ... more Features

- Complete range of different working lengths and jaw patterns
- Color-coded ring handles for simplified identification
- Disengageable spring for secure cleaning and reprocessing
- Medical grade high-quality stainless steel





## Straight Open Surgery Appliers



	Length			Color coding	Item no.
	15 cm / 6"	19 cm / 8"	28 cm / 11"		
Open surgery appliers for <b>small</b> Europclips™, straight jaws	•			Yellow	AI-321530DD
Open surgery appliers for <b>small</b> Europclips™, straight jaws		•		Yellow	AI-321532DD
Open surgery appliers for <b>small</b> Europclips™, straight jaws			•	Yellow	AI-321536DD
Open surgery appliers for <b>medium</b> Europclips™, straight jaws	•			Blue	AI-321524DD
Open surgery appliers for <b>medium</b> Europclips™, straight jaws		•		Blue	AI-321526DD
Open surgery appliers for <b>medium</b> Europclips™, straight jaws			•	Blue	AI-321522DD
Open surgery appliers for <b>medium-large</b> Europclips™, straight jaws		•		Green	AI-321540DD
Open surgery appliers for <b>medium-large</b> Europclips™, straight jaws			•	Green	AI-321542DD
Open surgery appliers for <b>large</b> Europclips™, straight jaws		•		Red	AI-321550DD
Open surgery appliers for <b>large</b> Europclips™, straight jaws			•	Red	AI-321554DD

## Right-Angled Open Surgery Appliers



	Length		Color coding	Item no.
	19 cm / 8"	28 cm / 11"		
Open surgery appliers for <b>small</b> Europclips™, right-angled jaws	•		Yellow	AI-321534DD
Open surgery appliers for <b>medium</b> Europclips™, right-angled jaws	•		Blue	AI-321520DD
Open surgery appliers for <b>medium</b> Europclips™, right-angled jaws		•	Blue	AI-321528DD
Open surgery appliers for <b>medium-large</b> Europclips™, right-angled jaws	•		Green	AI-321544DD
Open surgery appliers for <b>medium-large</b> Europclips™, right-angled jaws		•	Green	AI-321546DD
Open surgery appliers for <b>large</b> Europclips™, right-angled jaws	•		Red	AI-321552DD
Open surgery appliers for <b>large</b> Europclips™, right-angled jaws		•	Red	AI-321556DD

# Europclip™ Endo Surgery Appliers

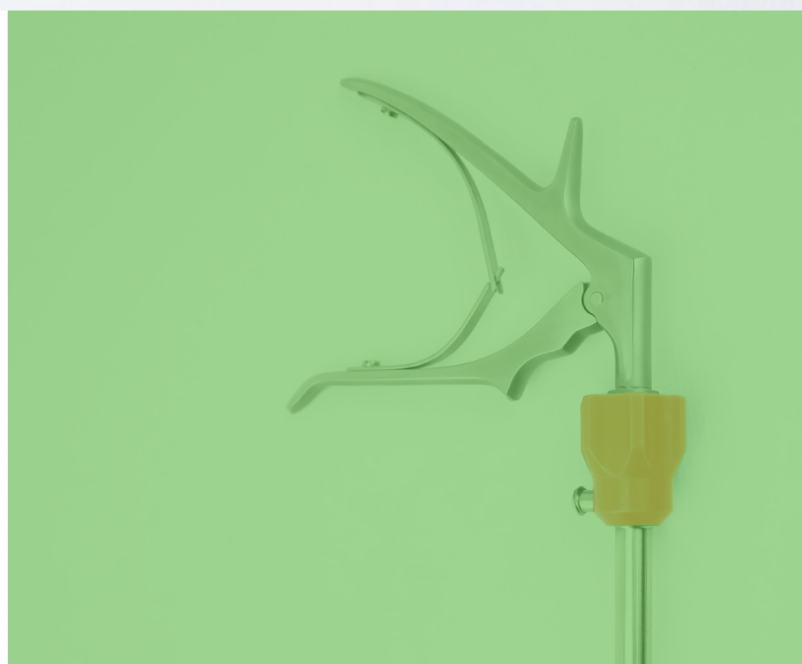
## Key Features

- Solid **double-action jaw mechanism** for extremely precise and reliable closing action
- **Diamond dusted** jaws for maximum clip grip
- Multiple **handle options** to meet every physician's preference
- **No backlash** when activated in addition to tightly tolerated jaw dimensions

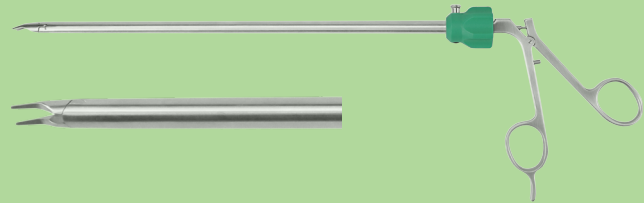


### ... more Features

- Flush port for validated cleaning and reprocessing
- 360° color coded rotating knob with audio and tactile feedback
- Perfectly weight-balanced
- Bariatric instruments available on request

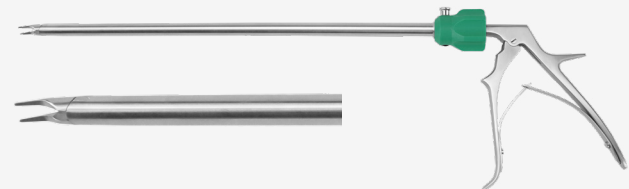


## Pistol Handle Appliers for Endo Surgery



	Diameter	Color coding	Item no.
	Ø 5 mm   Ø 10 mm   Ø 12.5 mm		
Endo Appliers for <b>small</b> Europclips™, pistol handle, rotatable, 330 mm	•	●	13-1613-105AS
Endo Appliers for <b>medium</b> Europclips™, pistol handle, rotatable, 330 mm	•	●	13-1610AS
Endo Appliers for <b>medium-large</b> Europclips™, pistol handle, rotatable, 330 mm	•	●	13-1615AS
Endo Appliers for <b>large</b> Europclips™, pistol handle, rotatable, 330 mm	•	●	13-1613-106AS

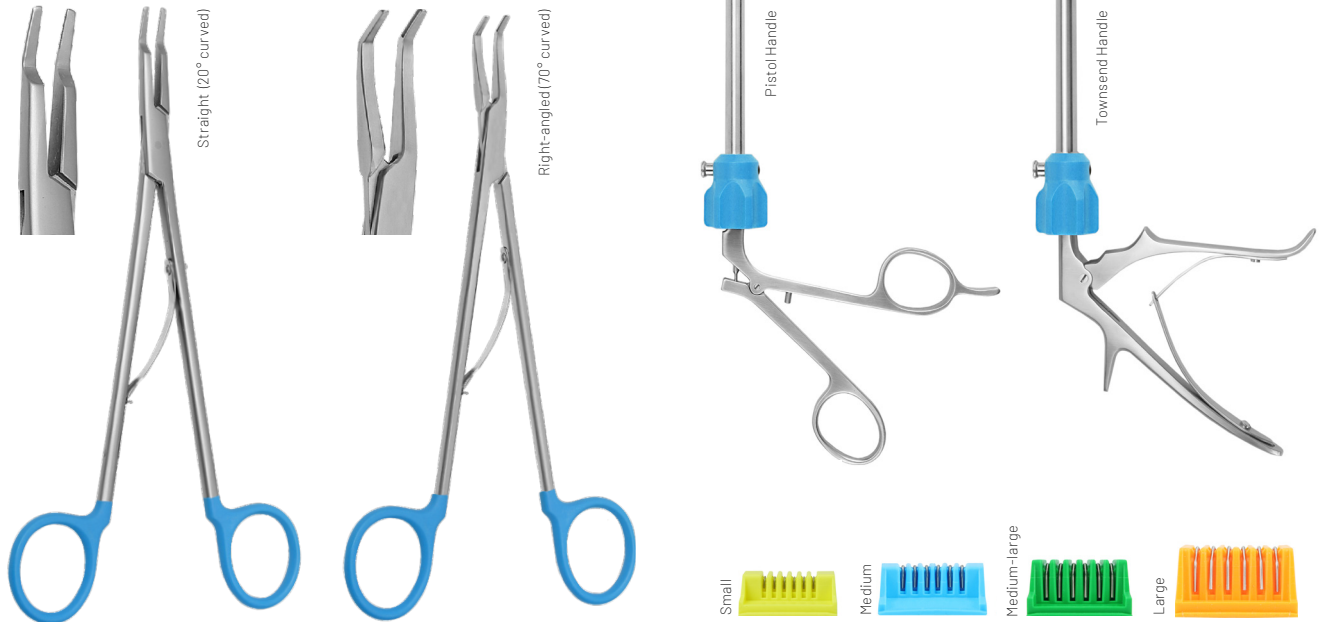
## Townsend Handle Appliers for Endo Surgery



	Diameter	Color coding	Item no.
	Ø 5 mm   Ø 10 mm   Ø 12.5 mm		
Endo Appliers for <b>small</b> Europclips™, townsend handle, rotatable, 330 mm	•	●	13-1613-105A
Endo Appliers for <b>medium</b> Europclips™, townsend handle, rotatable, 330 mm	•	●	13-1610A
Endo Appliers for <b>medium-large</b> Europclips™, townsend h., rotatable, 330 mm	•	●	13-1615A
Endo Appliers for <b>large</b> Europclips™, townsend handle, rotatable, 330 mm	•	●	13-1613-106A

# Europclips™ and Appliers

Designs at a Glance



## Compatibility Matrix

For Europclips™ and Appliers

	Color coding of item	Item no.
<b>Small</b> Europclips™, 120 clips / box	●	<b>AI74CS6</b>
<b>Small</b> Europclips™, 180 clips / box	●	<b>AI74CS6-30C</b>
<b>Small</b> Europclips™, 576 clips / box	●	<b>AI74CS6/24</b>
Open surgery appliers for <b>small</b> Europclips™, straight jaws, 15 cm / 6 "	●	<b>AI-321530DD</b>
Open surgery appliers for <b>small</b> Europclips™, straight jaws, 19 cm / 8 "	●	<b>AI-321532DD</b>
Open surgery appliers for <b>small</b> Europclips™, straight jaws, 28 cm / 11 "	●	<b>AI-321536DD</b>
Open surgery appliers for <b>small</b> Europclips™, right-angled jaws, 19 cm / 8 "	●	<b>AI-321534DD</b>
Endo Appliers for <b>small</b> Europclips™, pistol handle, rotatable, Ø 5 mm, 330 mm	●	<b>13-1613-105AS</b>
Endo Appliers for <b>small</b> Europclips™, townsend handle, rotatable, Ø 5 mm, 330 mm	●	<b>13-1613-105A</b>
<b>Medium</b> Europclips™, 120 clips / box	●	<b>AI74CM6</b>
<b>Medium</b> Europclips™, 180 clips / box	●	<b>AI74CM6-30C</b>
<b>Medium</b> Europclips™, 576 clips / box	●	<b>AI74CM6/24</b>
Open surgery appliers for <b>medium</b> Europclips™, straight jaws, 15 cm / 6 "	●	<b>AI-321524DD</b>

	Color coding of item	Item no.
Open surgery appliers for <b>medium</b> Europclips™, straight jaws, 19 cm / 8 "	●	AI-321526DD
Open surgery appliers for <b>medium</b> Europclips™, straight jaws, 28 cm / 11 "	●	AI-321522DD
Open surgery appliers for <b>medium</b> Europclips™, right-angled jaws, 19 cm / 8 "	●	AI-321520DD
Open surgery appliers for <b>medium</b> Europclips™, right-angled jaws, 28 cm / 11 "	●	AI-321528DD
Endo Appliers for <b>medium</b> Europclips™, pistol handle, rotatable, Ø 10 mm, 330 mm	●	13-1610AS
Endo Appliers for <b>medium</b> Europclips™, townsend handle, rotatable, Ø 10 mm, 330 mm	●	13-1610A
<b>Medium-large</b> Europclips™, 120 clips / box	●	AI74CML6
<b>Medium-large</b> Europclips™, 180 clips / box	●	AI74CML6-30C
<b>Medium-large</b> Europclips™, 576 clips / box	●	AI74CML6/24
Open surgery appliers for <b>medium-large</b> Europclips™, straight jaws, 19 cm / 8 "	●	AI-321540DD
Open surgery appliers for <b>medium-large</b> Europclips™, straight jaws, 28 cm / 11 "	●	AI-321542DD
Open surgery appliers for <b>medium-large</b> Europclips™, right-angled jaws, 19 cm / 8 "	●	AI-321544DD
Open surgery appliers for <b>medium-large</b> Europclips™, right-angled jaws, 28 cm / 11 "	●	AI-321546DD
Endo Appliers for <b>medium-large</b> Europclips™, pistol handle, rotatable, Ø 10 mm, 330 mm	●	13-1615AS
Endo Appliers for <b>medium-large</b> Europclips™, townsend handle, rotatable, Ø 10 mm, 330 mm	●	13-1615A
<b>Large</b> Europclips™, 120 clips / box	●	AI74CL6
<b>Large</b> Europclips™, 180 clips / box	●	AI74CL6-30C
<b>Large</b> Europclips™, 576 clips / box	●	AI74CL6/24
Open surgery appliers for <b>large</b> Europclips™, straight jaws, 19 cm / 8 "	●	AI-321550DD
Open surgery appliers for <b>large</b> Europclips™, straight jaws, 28 cm / 11 "	●	AI-321552DD
Open surgery appliers for <b>large</b> Europclips™, right-angled jaws, 19 cm / 8 "	●	AI-321554DD
Open surgery appliers for <b>large</b> Europclips™, right-angled jaws, 28 cm / 11 "	●	AI-321556DD
Endo Appliers for <b>large</b> Europclips™, pistol handle, rotatable, Ø 12.5 mm, 330 mm	●	13-1613-106AS
Endo Appliers for <b>large</b> Europclips™, townsend handle, rotatable, Ø 12.5 mm, 330 mm	●	13-1613-106A

# VeSeal™ Titanium Haemostatic Clips

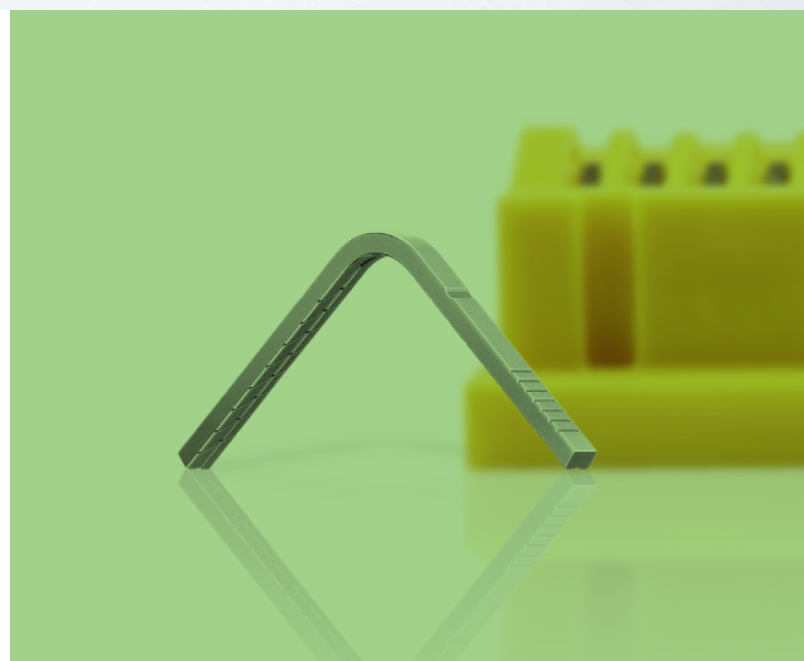
## Key Features

- V-shape clip design featuring a **wide proximal opening** and perfect **parallel alignment** once closed
- Special 45° **transverse grooves** on the inner surface of the clip for safe on-structure fixation and reduced risk of dislodgement
- Structural **inflexion points** control clip closure at pre-defined angles for consistent performance



## ... more Features

- 100% made in Germany
- Color coded cartridges for convenient clip size and applicator identification
- Sterile packed for immediate use
- Optional adhesive at the back of the cartridge for easy fixation providing precise handling



## VeSeal™ Titanium Haemostatic Clips

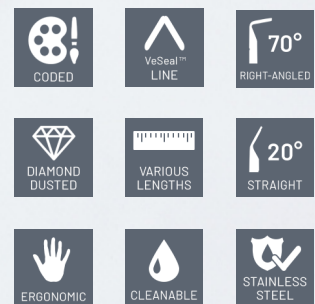


	Colour coding	Item no.
<b>Small</b> VeSeal™ clips, 6 pcs./cartridge, 18 cartridges/box, 108 clips/box	●	<b>A174CS6ETH</b>
<b>Medium</b> VeSeal™ clips, 6 pcs./cartridge, 18 cartridges/box, 108 clips/box	○	<b>A174CM6ETH</b>
<b>Medium-large</b> VeSeal™ clips, 6 pcs./cartridge, 18 cartridges/box, 108 clips/box	●	<b>A174CML6ETH</b>
<b>Large</b> VeSeal™ clips, 6 pcs./cartridge, 18 cartridges/box, 108 clips/box	●	<b>A174CL6ETH</b>

# VeSeal™ Open Surgery Appliers

## Key Features

- Special **grooves inside the jaw** to provide a perfect fit with the clip and, therefore, secure and consistent loading and application
- Smooth and slim tip design for **reduced trauma**
- **Balanced force transmission** due to perfectly designed and tightly toleranced geometries



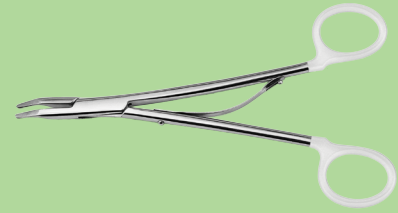
## ... more Features

- Complete range of different working lengths and jaw patterns
- Color-coded ring handles for simplified identification
- Disengageable spring for secure cleaning and reprocessing
- Medical grade high-quality stainless steel





## Straight Open Surgery Appliers



	Length		Color coding	Item no.
	20 cm / 8"	28 cm / 11"		
Open surgery appliers for <b>small</b> VeSeal™ clips, straight jaws	•		●	AI-321526ETH
Open surgery appliers for <b>small</b> VeSeal™ clips, straight jaws		•	●	AI-321522ETH
Open surgery appliers for <b>medium</b> VeSeal™ clips, straight jaws	•		○	AI-321540ETH
Open surgery appliers for <b>medium</b> VeSeal™ clips, straight jaws		•	○	AI-321542ETH
Open surgery appliers for <b>medium-large</b> VeSeal™ clips, straight jaws	•		●	AI-321550ETH
Open surgery appliers for <b>medium-large</b> VeSeal™ clips, straight jaws		•	●	AI-321555ETH
Open surgery appliers for <b>large</b> VeSeal™ clips, straight jaws		•	●	AI-321558ETH

## Right-Angled Open Surgery Appliers



	Color coding	Item no.
Open surgery appliers for <b>small</b> VeSeal™ clips, right angled jaws, 28 cm / 11"	●	AI-321528ETH
Open surgery appliers for <b>medium</b> VeSeal™ clips, right angled jaws, 28 cm / 11"	○	AI-321546ETH
Open surgery appliers for <b>medium-large</b> VeSeal™ clips, right angled jaws, 28 cm / 11"	●	AI-321556ETH
Open surgery appliers for <b>large</b> VeSeal™ clips, right angled jaws, 28 cm / 11"	●	AI-321560ETH

# VeSeal™ Endo Surgery Appliers

## Key Features

- Solid **double-action jaw mechanism** for extremely precise and reliable closing action
- Precision milled **grooves** inside the jaw for perfect clip fitting
- **No backlash** when activated in addition to tightly tolerated jaw dimensions
- Ergonomic handle design

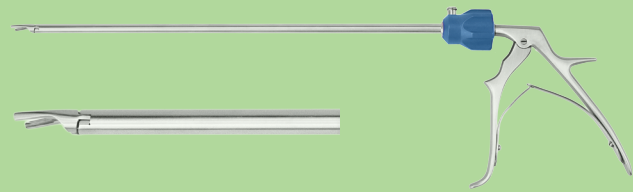


## ... more Features

- Flush port for validated cleaning and reprocessing
- 360° color coded rotating knob with audio and tactile feedback
- Perfectly weight-balanced
- Bariatric instruments available on request



## Townsend Handle Appliers for Endo Surgery



	Diameter			Color coding	Item no.
	Ø 7 mm	Ø 10 mm	Ø 12.5 mm		
Endo Appliers for <b>small</b> VeSeal™ clips, townsend handle, rot., demountable, 330 mm	•			●	13-1613-102
Endo Appliers for <b>medium</b> VeSeal™ clips, townsend handle, rot., demountable, 330 mm		•		○	13-1613-103
Endo Appliers for <b>medium-large</b> VeSeal™ clips, townsend handle, rot., dem., 330 mm		•		●	13-1613
Endo Appliers for <b>large</b> VeSeal™ clips, townsend handle, rot., demountable, 330 mm			•	●	13-1613-104

# VeSeal™ Clips and Appliers

Designs at a Glance



## Compatibility Matrix

For VeSeal™ Clips and Appliers

	Color coding of item	Item no.
<b>Small</b> VeSeal™ clips, 108 clips/box	●	<b>AI74CS6ETH</b>
Open surgery appliers for <b>small</b> VeSeal™ clips, straight jaws, 20 cm / 8"	●	<b>AI-321526ETH</b>
Open surgery appliers for <b>small</b> VeSeal™ clips, straight jaws, 28 cm / 11"	●	<b>AI-321522ETH</b>
Open surgery appliers for <b>small</b> VeSeal™ clips, right angled jaws, 28 cm / 11"	●	<b>AI-321528ETH</b>
Endo Appliers for <b>small</b> VeSeal™ clips, townsend handle, rot., demountable, Ø 7 mm, 330 mm	●	<b>13-1613-102</b>
<b>Medium</b> VeSeal clips, 108 clips/box	○	<b>AI74CM6ETH</b>
Open surgery appliers for <b>medium</b> VeSeal™ clips, straight jaws, 20 cm / 8"	○	<b>AI-321540ETH</b>
Open surgery appliers for <b>medium</b> VeSeal™ clips, straight jaws, 28 cm / 11"	○	<b>AI-321542ETH</b>
Open surgery appliers for <b>medium</b> VeSeal™ clips, right angled jaws, 28 cm / 11"	○	<b>AI-321546ETH</b>
Endo Appliers for <b>medium</b> VeSeal™ clips, townsend handle, rot., demountable, Ø 10 mm, 330 mm	○	<b>13-1613-103</b>
<b>Medium-large</b> VeSeal™ clips, 108 clips/box	●	<b>AI74CML6ETH</b>
Open surgery appliers for <b>medium-large</b> VeSeal™ clips, straight jaws, 20 cm / 8"	●	<b>AI-321550ETH</b>

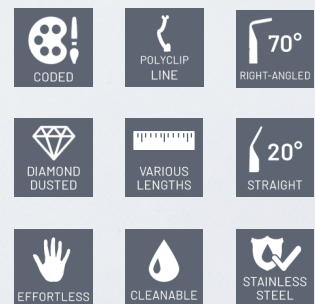
	Color coding of item	Item no.
Open surgery appliers for <b>medium-large</b> VeSeal™ clips, straight jaws, 28 cm / 11 "	●	AI-321555ETH
Open surgery appliers for <b>medium-large</b> VeSeal™ clips, right angled jaws, 28 cm / 11 "	●	AI-321556ETH
Endo Appliers for <b>medium-large</b> VeSeal™ clips, townsend handle, rot., dem., Ø 10 mm, 330 mm	●	13-1613
<b>Large</b> VeSeal™ clips, 108 clips/box	●	AI74CL6ETH
Open surgery appliers for <b>large</b> VeSeal™ clips, straight jaws, 28 cm / 11 "	●	AI-321558ETH
Open surgery appliers for <b>large</b> VeSeal™ clips, right angled jaws, 28 cm / 11 "	●	AI-321560ETH
Endo Appliers for <b>large</b> VeSeal™ clips, townsend handle, rot., demountable, Ø 10 mm, 330 mm	●	13-1613-104



# Polymer Clip Open Surgery Appliers

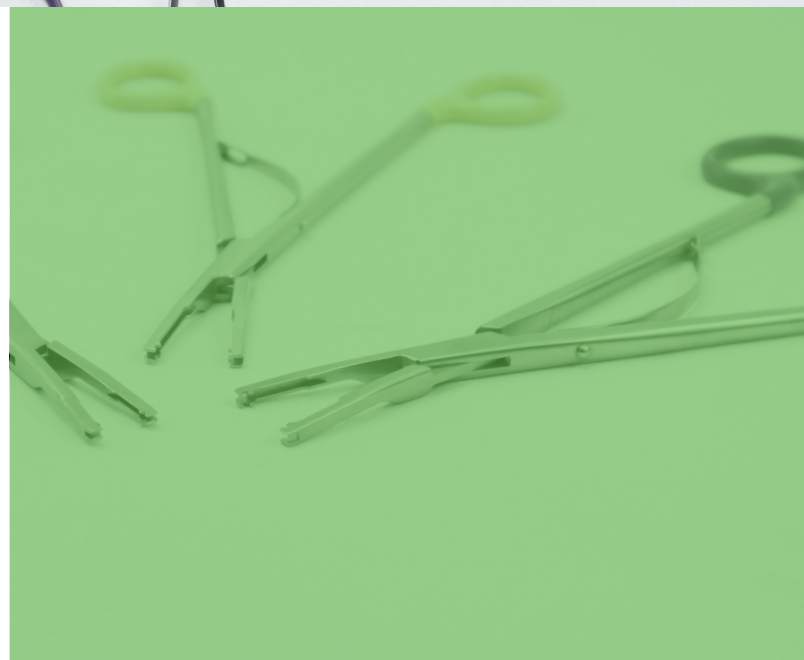
## Key Features

- Well-designed jaw design featuring an **anchoring system** to safely and reliably position all industry standard polymer clips
- **Ultra-slim** jaw dimensions for precise positioning
- **Clip removers** available for all clip sizes

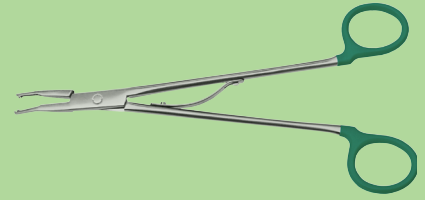


## ... more Features

- Complete range of different working lengths and jaw patterns
- Color-coded ring handles for simplified identification
- Disengageable spring for secure cleaning and reprocessing
- Medical grade high-quality stainless steel



## Straight Open Surgery Appliers



	Length		Color coding	Item no.
	20 cm / 8"	28 cm / 11"		
Open surgery appliers for <b>medium</b> polymer clips, straight jaws	•		●	AI-321526P
Open surgery appliers for <b>medium</b> polymer clips, straight jaws		•	●	AI-321522P
Open surgery appliers for <b>medium-large</b> polymer clips, straight jaws	•		●	AI-321540P
Open surgery appliers for <b>medium-large</b> polymer clips, straight jaws		•	●	AI-321542P
Open surgery appliers for <b>large</b> polymer clips, straight jaws	•		●	AI-321550P
Open surgery appliers for <b>large</b> polymer clips, straight jaws		•	●	AI-321554P
Open surgery appliers for <b>extra-large</b> polymer clips, straight jaws		•	●	AI-321558P

## Right-Angled Open Surgery Appliers



	Color coding	Item no.
Open surgery appliers for <b>medium</b> polymer clips, right angled jaws, 28 cm / 11"	●	AI-321528P
Open surgery appliers for <b>medium-large</b> polymer clips, right angled jaws, 28 cm / 11"	●	AI-321546P
Open surgery appliers for <b>large</b> polymer clips, right angled jaws, 28 cm / 11"	●	AI-321556P
Open surgery appliers for <b>extra-large</b> polymer clips, right angled jaws, 28 cm / 11"	●	AI-321560P

## Removers for Open Surgery

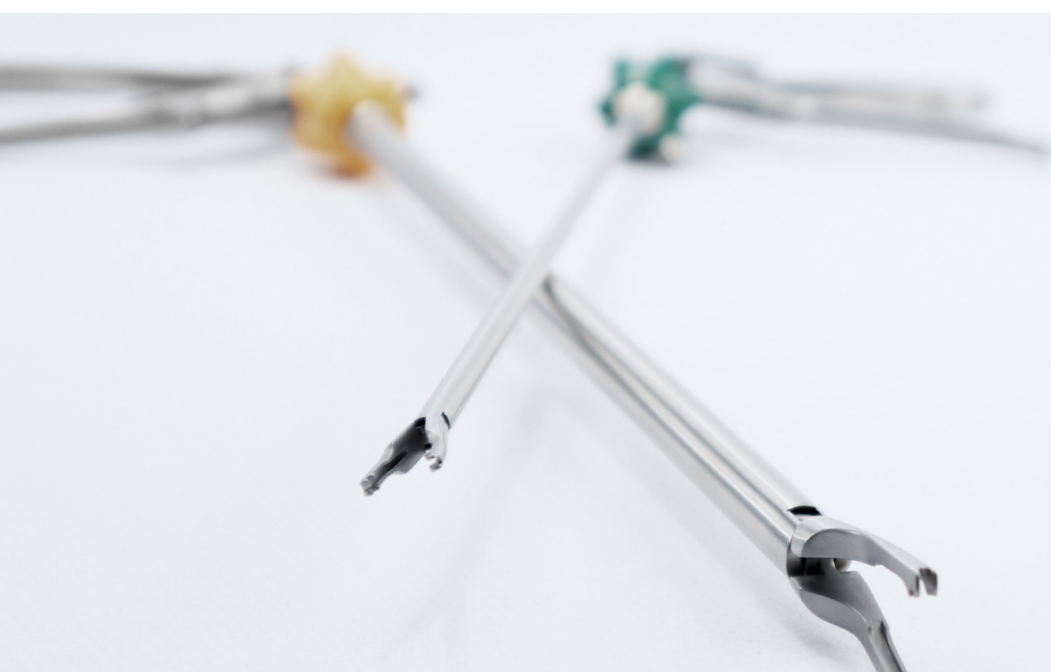


	Item no.
Remover for <b>medium, medium-large</b> and <b>large</b> polymer clips, 28 cm / 11"	AI-321586P
Remover for <b>large</b> and <b>extra-large</b> polymer clips, 28 cm / 11"	AI-321587P

# Polymer Clip Endo Surgery Appliers

## Key Features

- **Unique thumb-operated locking mechanism** integrated into the handle to prevent unintentional clip closure during travel inside the abdomen
- Complete range of Endoscopic appliers and clip removers
- **No backlash** when activated in addition to tightly tolerated jaw dimensions
- Ergonomic handle design



CODED



POLYCLIP  
LINE



CLEANING  
CHANNEL



DOUBLE-  
ACTION



ARREST  
LOCKING



360°



ERGONOMIC



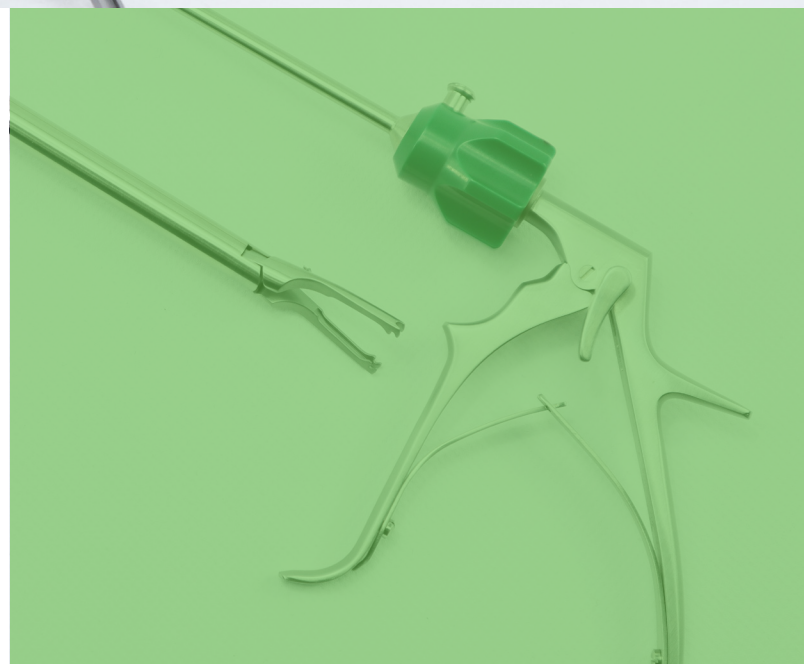
VARIOUS  
LENGTHS



STAINLESS  
STEEL

## ... more Features

- Flush port for validated cleaning and reprocessing
- 360° color coded rotating knob with audio and tactile feedback
- Perfectly weight-balanced
- Bariatric instruments available on request



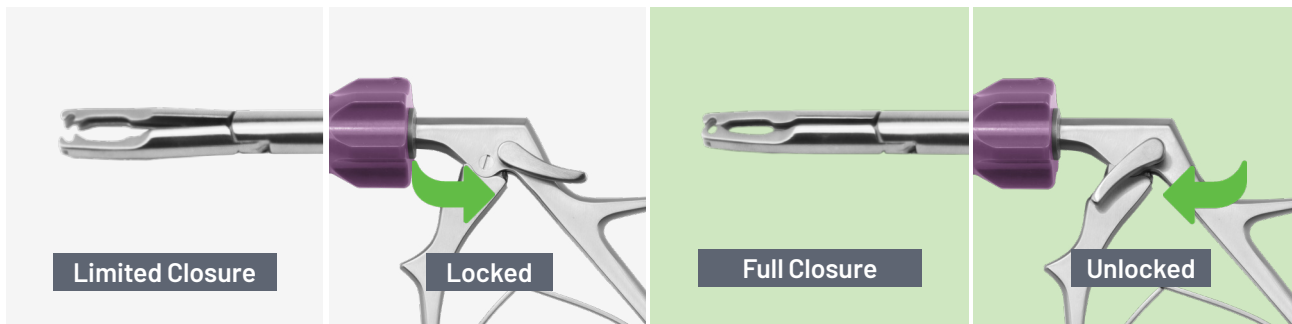


## Townsend Handle Appliers for Endo Surgery

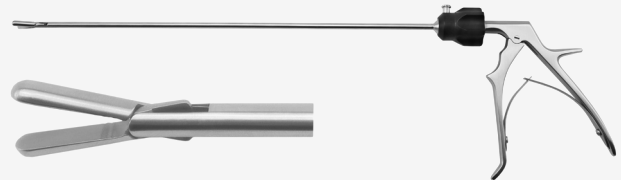


	Diameter		Color coding	Item no.
	Ø 5 mm	Ø 10 mm		
Endo Appliers for <b>medium-large</b> polyclips, townsend handle, rotatable, 330 mm	•		●	13-1615AS-P
Endo Appliers for <b>large</b> polyclips, townsend handle, rotatable, 330 mm		•	●	13-1613-106AS-P
Endo Appliers for <b>extra-large</b> polyclips, townsend handle, rotatable, 330 mm		•	●	13-1613-108AS-P

## How to use the Endoscopic Clip Appliers



## Townsend Handle Removers for Endo Surgery



	Item no.
Remover for <b>medium, medium-large</b> and <b>large</b> polymer clips, Ø 5 mm, 330 mm	13-1613PR
Remover for <b>large</b> and <b>extra-large</b> polymer clips, Ø 10 mm, 330 mm	13-1615PR

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