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.
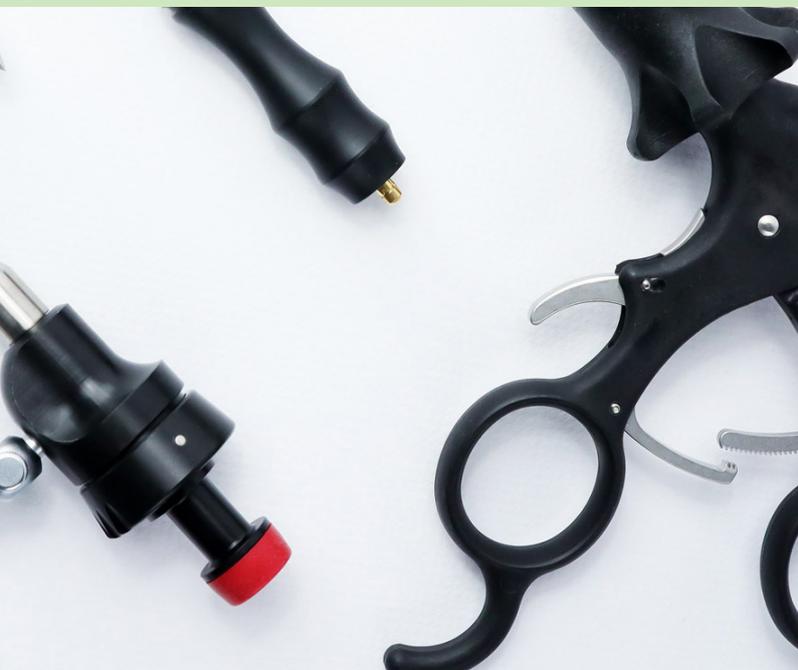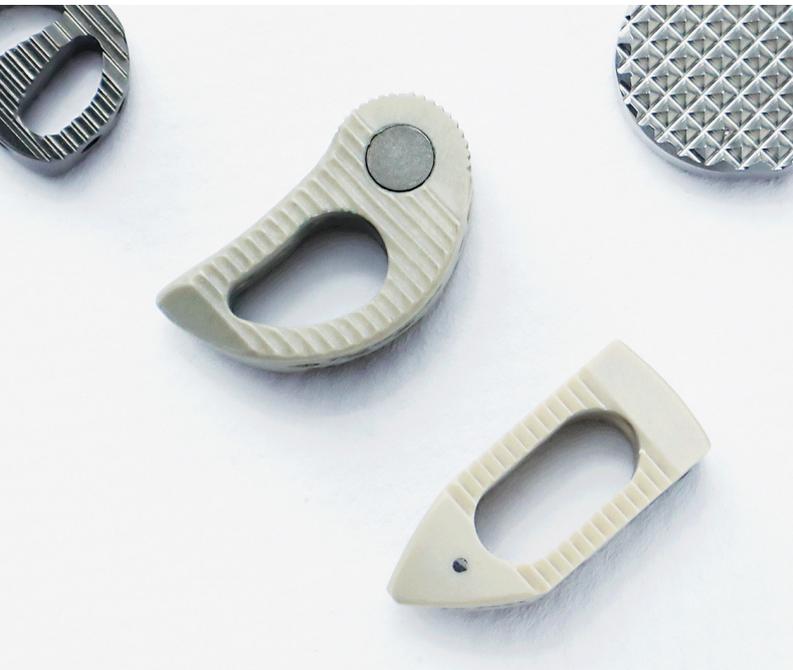
Capabilities

+ Manufacturing

Surgical Instruments, Units, Implants, Optics

+ Regulatory

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

+ Service

+ R&D

Global Player

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

Serving over
100
Countries

More than
80
Employees

+

3
Manufacturing Sites

400
Strategic Partners

Table of Contents
Product Range at a Glance

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 applier identification
- Sterile packed for immediate use
- Multiple packaging configurations
- Adhesive at the back of the cartridge for easy fixation providing precise handling
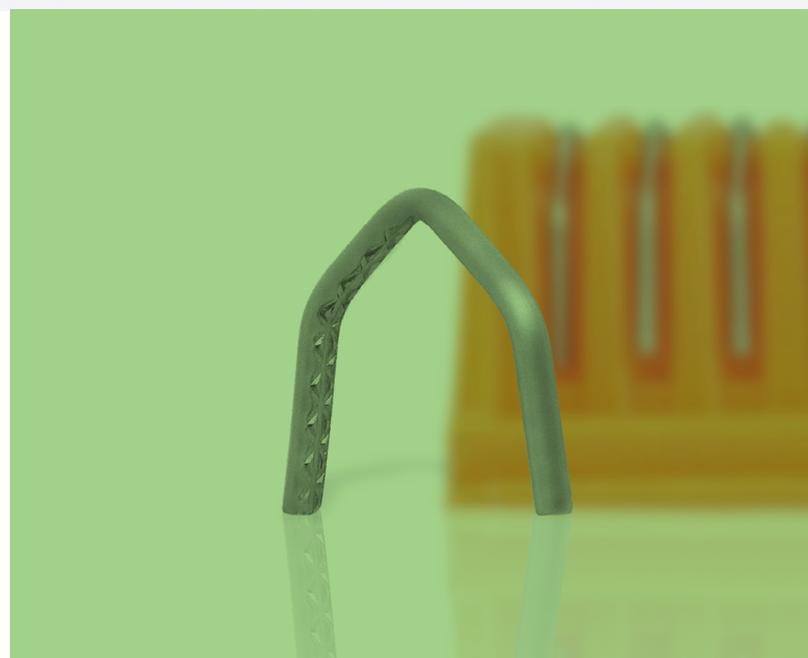
Europclip™ Titanium Haemostatic Clips

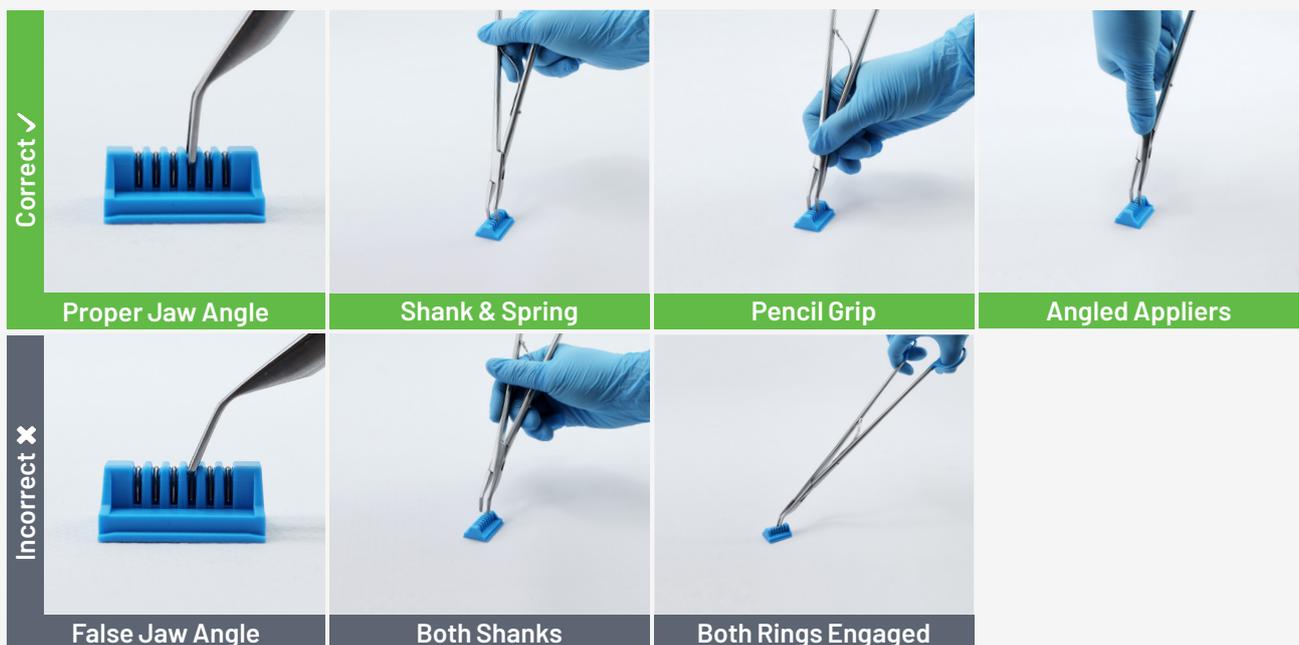|	Pcs./Cartdrige		Cartridges/Box			Pcs./Box			Color coding	Item no.
	6	24	20	24	30	120	180	576		
Small Europclips™	●		●			●			🟡	**AI74CS6**
Small Europclips™	●				●		●		🟡	**AI74CS6-30C**
Small Europclips™		●		●				●	🟡	**AI74CS6/24**
Medium Europclips™	●		●			●			🔵	**AI74CM6**
Medium Europclips™	●				●		●		🔵	**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

Correct ✓

Proper Jaw Angle

Shank & Spring

Pencil Grip

Angled Appliers

Incorrect ✗

False Jaw Angle

Both Shanks

Both Rings Engaged

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

|		
CODED	EUROPCLIP™ LINE	70° RIGHT-ANGLED
DIAMOND DUSTED	VARIOUS LENGTHS	20° STRAIGHT
EFFORTLESS	CLEANABLE	STAINLESS STEEL

... 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
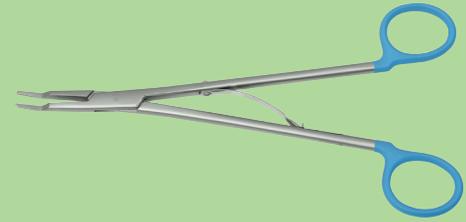
	Length			Color coding	Item no.
	15 cm / 6"	19 cm / 8"	28 cm / 11"		
Open surgery appliers for **small** Europclips™, straight jaws	●			🟡	AI-321530DD
Open surgery appliers for **small** Europclips™, straight jaws		●		🟡	AI-321532DD
Open surgery appliers for **small** Europclips™, straight jaws			●	🟡	AI-321536DD
Open surgery appliers for **medium** Europclips™, straight jaws	●			🔵	AI-321524DD
Open surgery appliers for **medium** Europclips™, straight jaws		●		🔵	AI-321526DD
Open surgery appliers for **medium** Europclips™, straight jaws			●	🔵	AI-321522DD
Open surgery appliers for **medium-large** Europclips™, straight jaws		●		🟢	AI-321540DD
Open surgery appliers for **medium-large** Europclips™, straight jaws		●		🟢	AI-321542DD
Open surgery appliers for **large** Europclips™, straight jaws		●		🟠	AI-321550DD
Open surgery appliers for **large** Europclips™, straight jaws		●		🟠	AI-321554DD

Right-Angled Open Surgery Appliers

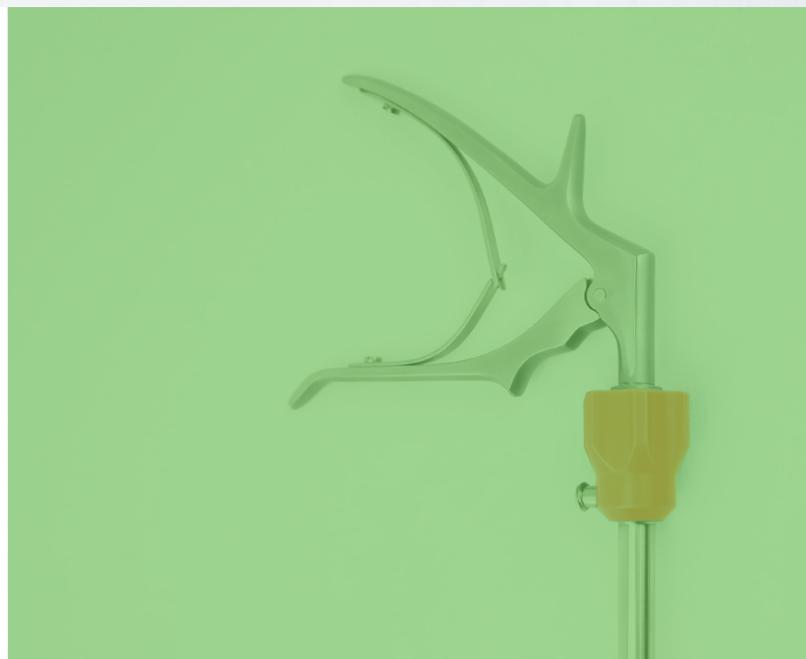|	Length		Color coding	Item no.
	19 cm / 8"	28 cm / 11"		
Open surgery appliers for **small** Europclips™, right-angled jaws	●		🟡	AI-321534DD
Open surgery appliers for **medium** Europclips™, right-angled jaws	●		🔵	AI-321520DD
Open surgery appliers for **medium** Europclips™, right-angled jaws		●	🔵	AI-321528DD
Open surgery appliers for **medium-large** Europclips™, right-angled jaws	●		🟢	AI-321544DD
Open surgery appliers for **medium-large** Europclips™, right-angled jaws		●	🟢	AI-321546DD
Open surgery appliers for **large** Europclips™, right-angled jaws	●		🟠	AI-321552DD
Open surgery appliers for **large** Europclips™, right-angled jaws		●	🟠	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
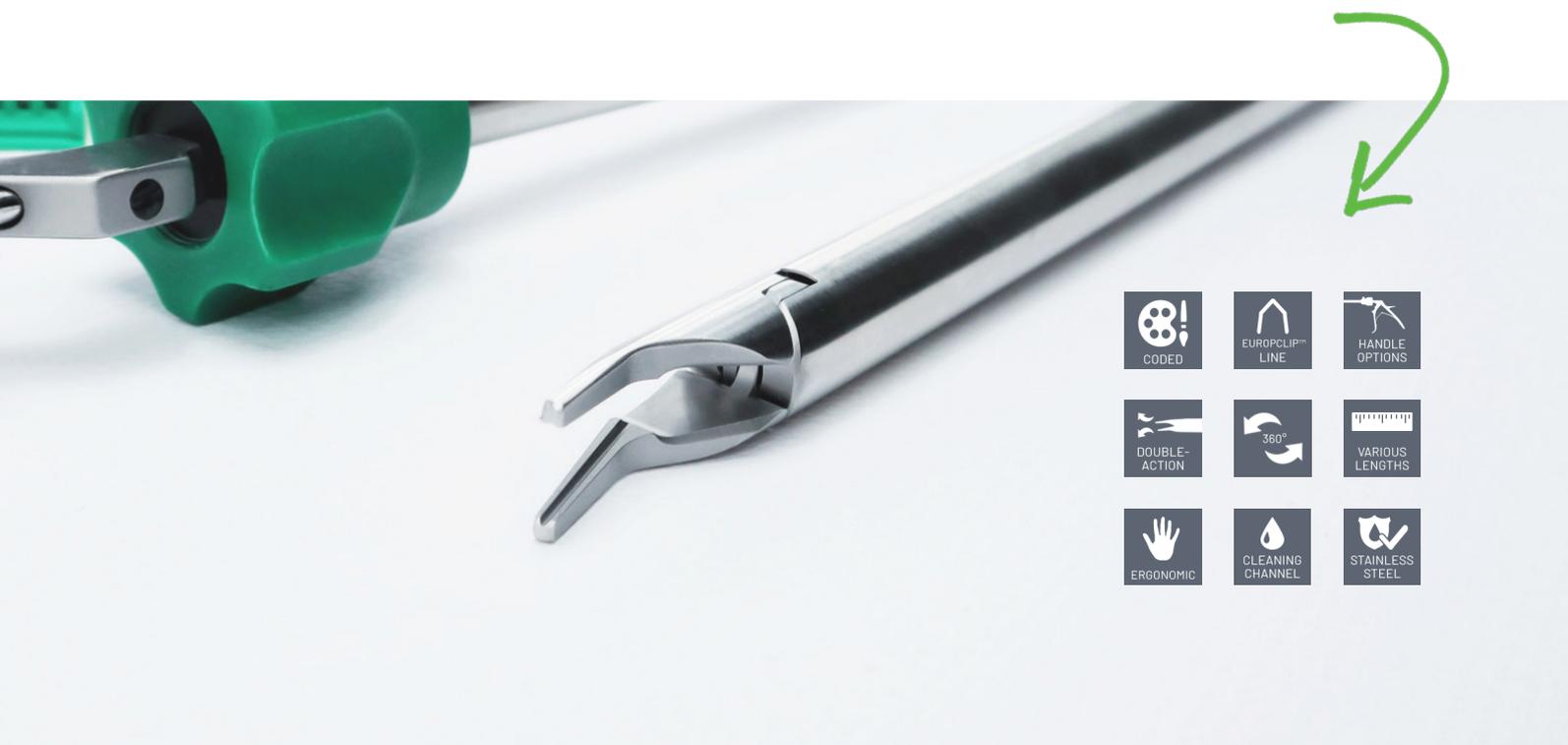
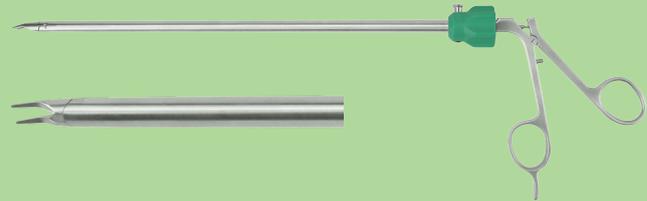|		
CODED	EUROPCLIP™ LINE	HANDLE OPTIONS
DOUBLE-ACTION	360°	VARIOUS LENGTHS
ERGONOMIC	CLEANING CHANNEL	STAINLESS STEEL

... 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

Pistol Handle Appliers for Endo Surgery

	Diameter			Color coding	Item no.
	Ø 5 mm	Ø 10 mm	Ø 12.5 mm		
Endo Appliers for **small** Europclips™, pistol handle, rotatable, 330 mm	●			🟡	**13-1613-105AS**
Endo Appliers for **medium** Europclips™, pistol handle, rotatable, 330 mm		●		🔵	**13-1610AS**
Endo Appliers for **medium-large** Europclips™, pistol handle, rotatable, 330 mm		●		🟢	**13-1615AS**
Endo Appliers for **large** Europclips™, pistol handle, rotatable, 330 mm			●	🟠	**13-1613-106AS**

Townsend Handle Appliers for Endo Surgery
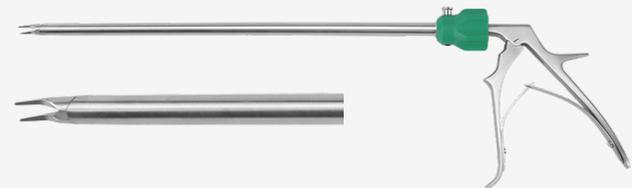
	Diameter			Color coding	Item no.
	Ø 5 mm	Ø 10 mm	Ø 12.5 mm		
Endo Appliers for **small** Europclips™, townsend handle, rotatable, 330 mm	●			🟡	**13-1613-105A**
Endo Appliers for **medium** Europclips™, townsend handle, rotatable, 330 mm		●		🔵	**13-1610A**
Endo Appliers for **medium-large** Europclips™, townsend h., rotatable, 330 mm		●		🟢	**13-1615A**
Endo Appliers for **large** Europclips™, townsend handle, rotatable, 330 mm			●	🟠	**13-1613-106A**

Detachable Appliers for Endo Surgery

	Diameter			Color coding	Item no.
	Ø 5 mm	Ø 10 mm	Ø 12.5 mm		
Endo Appliers for **small** Europclips™, townsend handle, rot., dem., 330 mm	●			🟡	**13-1613-105AZ**
Endo Appliers for **medium** Europclips™, townsend handle, rot., dem., 330 mm		●		🔵	**13-1610AZ**
Endo Appliers for **medium-large** Europclips™, townsend h., rot., dem., 330 mm		●		🟢	**13-1615AZ**
Endo Appliers for **large** Europclips™, townsend handle, rot., dem., 330 mm			●	🟠	**13-1613-106AZ**

How to assemble detachable Endo Clip Appliers
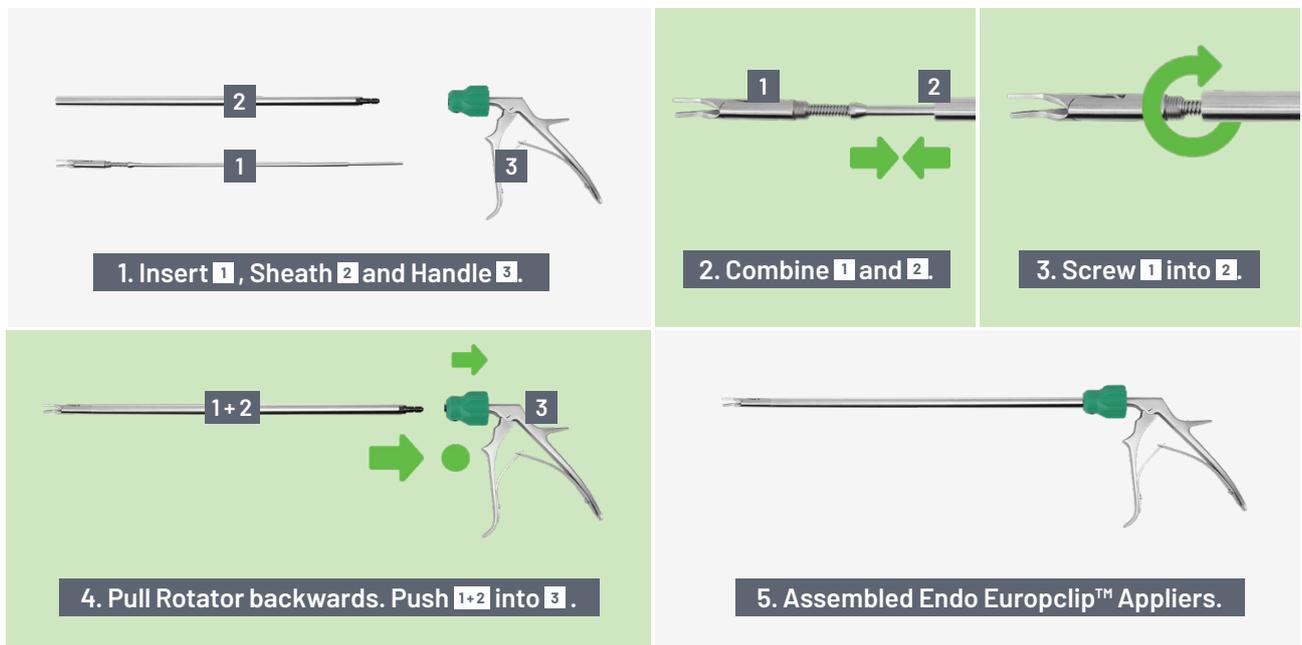
1. Insert 1 , Sheath 2 and Handle 3.

2. Combine 1 and 2.

3. Screw 1 into 2.

4. Pull Rotator backwards. Push 1+2 into 3 .

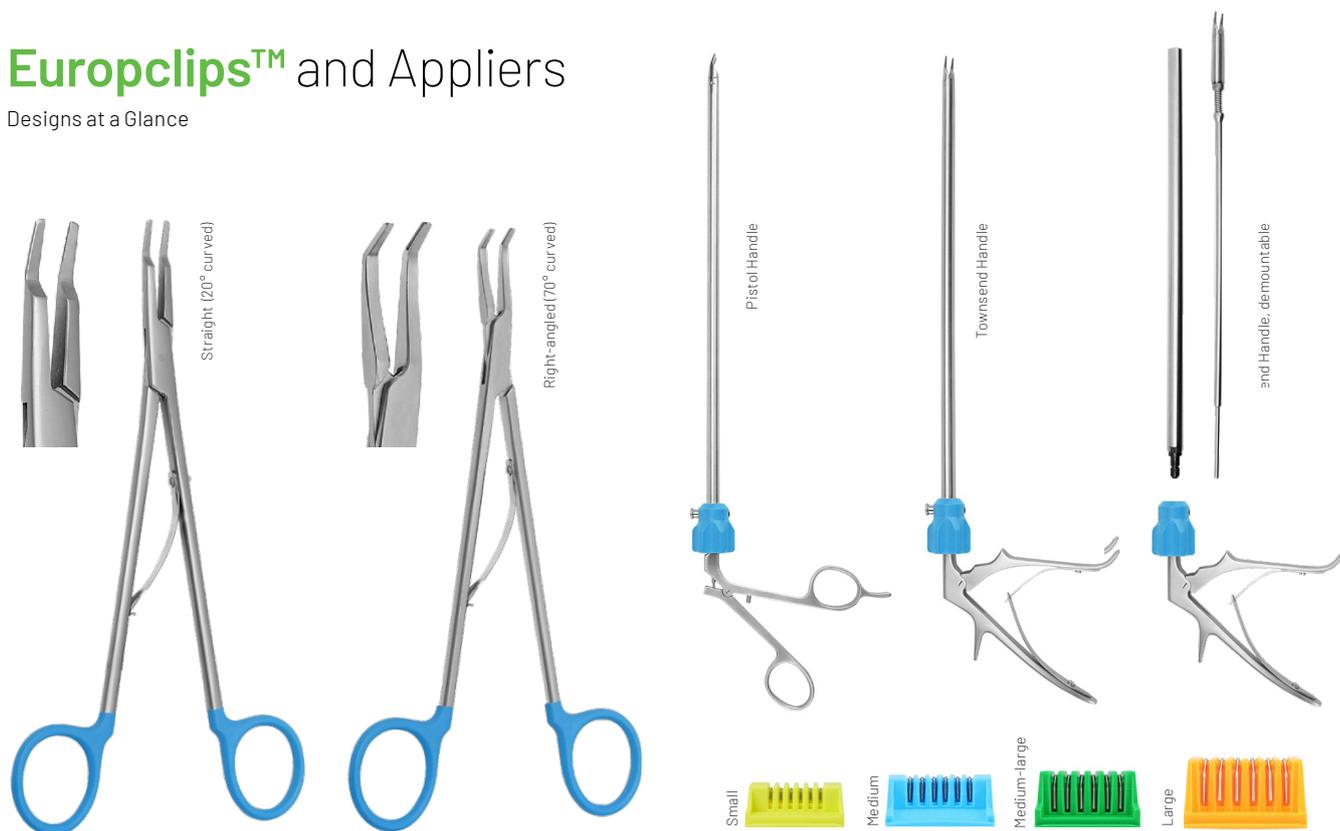**5. Assembled Endo Europclip™ Appliers.**

... Key Features

- 3-piece **take-apart system**
- **Quick and intuitive** assembly /disassembly
- **Enhanced cleaning** and reprocessing abilities
- Ergonomic Townsend-handle design
- **No backlash** when activated in addition to tightly tolerated jaw dimensions
- Solid **double-action jaw mechanism** for extremely precise and reliable closing action
- 360° color coded rotating knob with **audio and tactile feedback**
- Perfectly weight-balanced
- Bariatric instruments available on request

CODED	EUROPCLIP™ LINE	TOWNSEND HANDLE
DOUBLE-ACTION	3 PARTS	EASY CLEANABLE
ERGONOMIC	360°	STAINLESS STEEL

Europclips™ and Appliers

Designs at a Glance

Straight (20° curved)

Right-angled (70° curved)

Pistol Handle

Townsend Handle

and Handle, demountable

Small

Medium

Medium-large

Large
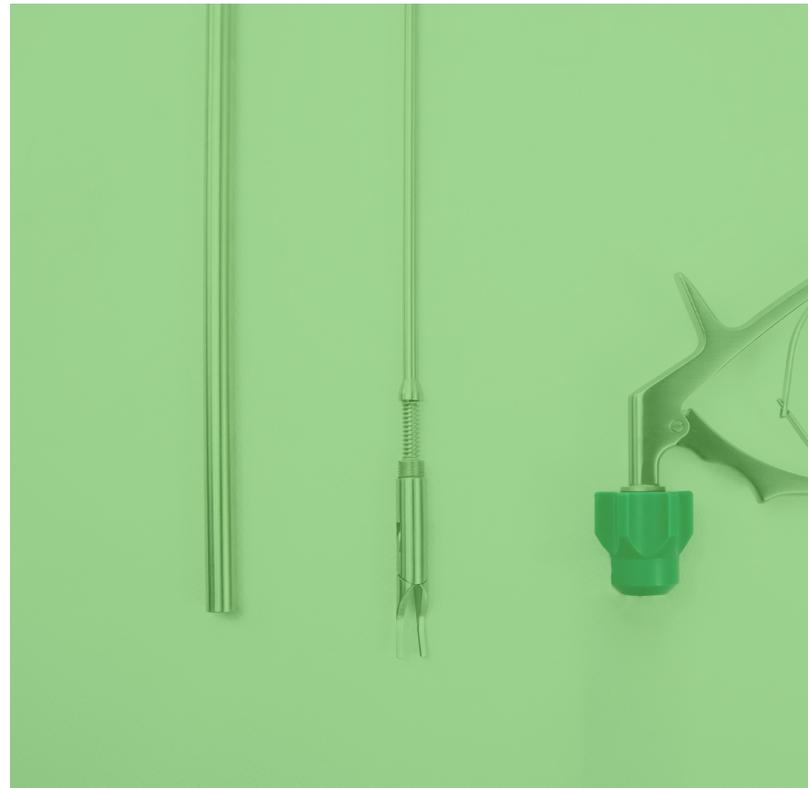
Compatibility Matrix

For Europclips™ and Appliers

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

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

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 applier identification
- Sterile packed for immediate use
- Optional adhesive at the back of the cartridge for easy fixation providing precise handling
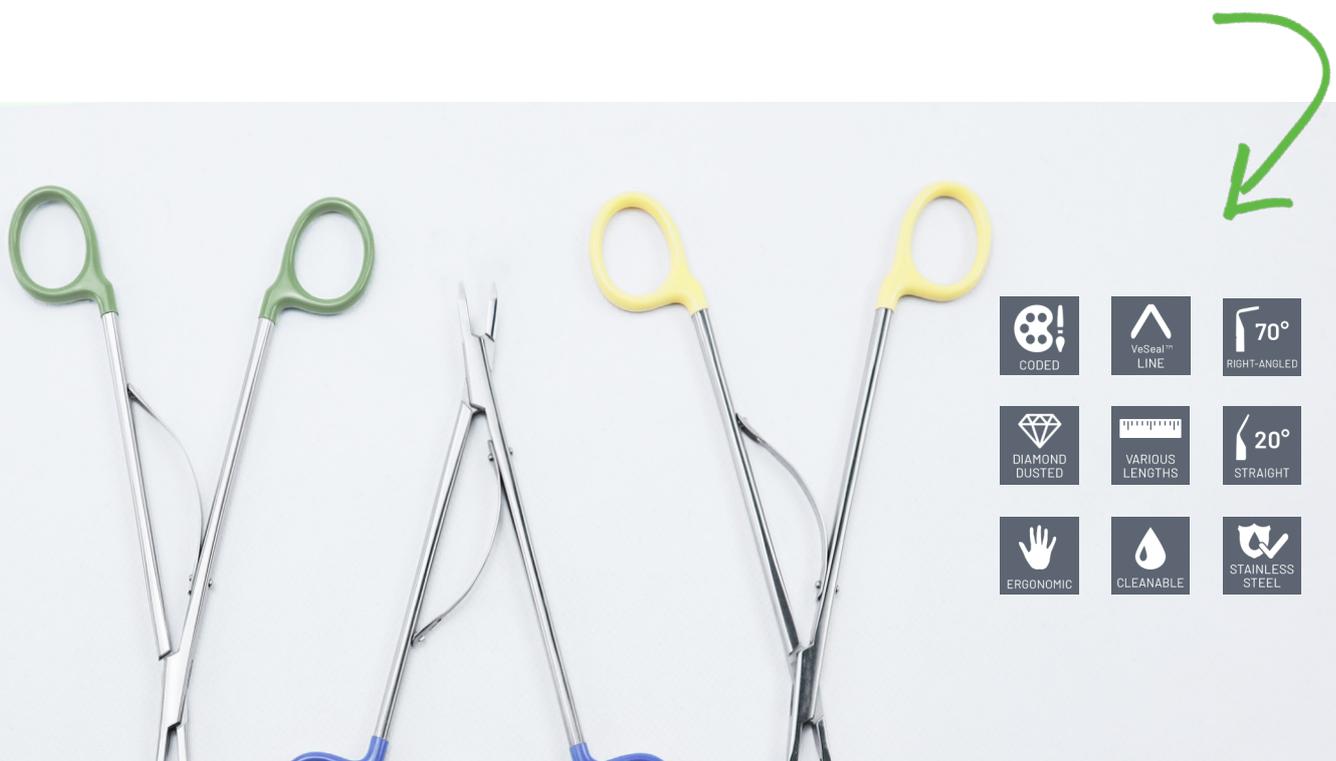
VeSeal™ Titanium Haemostatic Clips

	Colour coding	Item no.
Small VeSeal™ clips, 6 pcs./cartridge, 18 cartridges/box, 108 clips/box	🔵	**AI74CS6ETH**
Medium VeSeal™ clips, 6 pcs./cartridge, 18 cartidges/box, 108 clips/box	⚪	**AI74CM6ETH**
Medium-large VeSeal™ clips, 6 pcs./cartridge, 18 cartidges/box, 108 clips/box	🔵	**AI74CML6ETH**
Large VeSeal™ clips, 6 pcs./cartridge, 18 cartidges/box, 108 clips/box	🟡	**AI74CL6ETH**

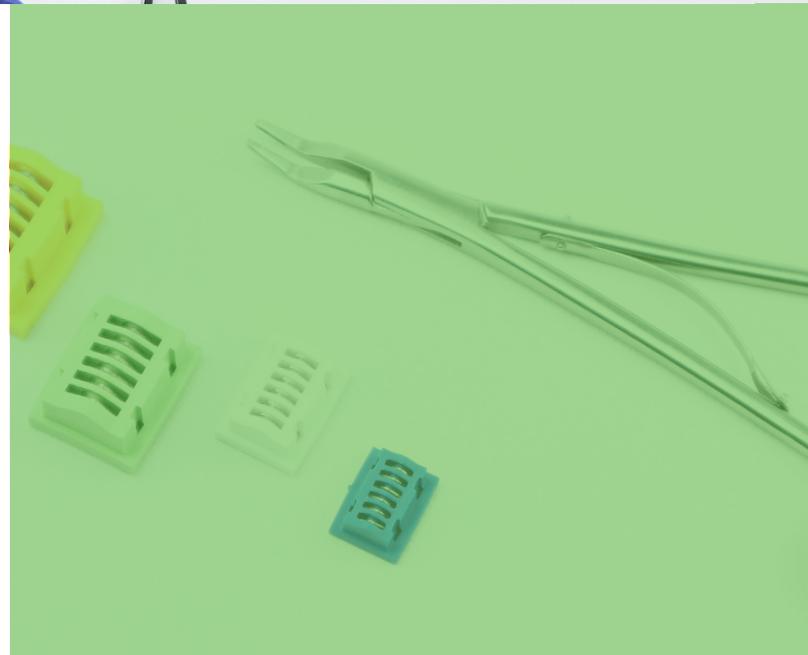# VeSeal™ Open Surgery Appliers
Key Features

- 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

|		
CODED	VeSeal™ LINE	70° RIGHT-ANGLED
DIAMOND DUSTED	VARIOUS LENGTHS	20° STRAIGHT
ERGONOMIC	CLEANABLE	STAINLESS STEEL

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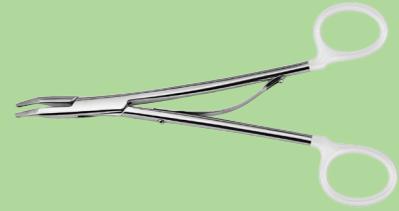
	Length		Color coding	Item no.
	20 cm / 8 "	28 cm / 11 "		
Open surgery appliers for **small** VeSeal™clips, straight jaws	●		🔵	**AI-321526ETH**
Open surgery appliers for **small** VeSeal™ clips, straight jaws		●	🔵	**AI-321522ETH**
Open surgery appliers for **medium** VeSeal™ clips, straight jaws	●		⚪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

Right-Angled Open Surgery Appliers

	Color coding	Item no.
Open surgery appliers for **small** VeSeal™ clips, right angled jaws, 28 cm / 11 "	🔵	**AI-321528ETH**
Open surgery appliers for **medium** VeSeal™ clips, right angled jaws, 28 cm / 11 "	⚪	**AI-321546ETH**
Open surgery appliers for **medium-large** VeSeal™ clips, right angled jaws, 28 cm / 11 "	🔵	**AI-321556ETH**
Open surgery appliers for **large** 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

CODED	VeSeal™ LINE	360°
DOUBLE-ACTION	VARIOUS LENGTHS	TOWNSEND HANDLE
ERGONOMIC	CLEANING CHANNEL	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 7 mm	Ø 10 mm	Ø 12.5 mm		
Endo Appliers for **small** VeSeal™ clips, townsend handle, rotatable, 330 mm	●			🔵	**13-1613-102**
Endo Appliers for **medium** VeSeal™ clips, townsend handle, rotatable, 330 mm		●		⚪	**13-1613-103**
Endo Appliers for **medium–large** VeSeal™ clips, townsend handle, rot., 330 mm		●		🔵	**13-1613**
Endo Appliers for **large** VeSeal™ clips, townsend handle, rotatable, 330 mm			●	🟡	**13-1613-104**

Detachable Appliers for Endo Surgery

	Diameter			Color coding	Item no.
	Ø 7 mm	Ø 10 mm	Ø 12.5 mm		
Endo Appliers for **small** VeSeal™ clips, townsend handle, rot., demountable, 330 mm	●			🔵	**13-1613-102Z**
Endo Appliers for **medium** VeSeal™ clips, townsend handle, rot., demountable, 330 mm		●		⚪	**13-1613-103Z**
Endo Appliers for **medium-large** VeSeal™ clips, townsend handle, rot., dem., 330 mm		●		🔵	**13-1613Z**
Endo Appliers for **large** VeSeal™ clips, townsend handle, rot., demountable, 330 mm			●	🟡	**13-1613-104Z**

How to assemble detachable Endo Clip Appliers

1. Insert **1**, Sheath **2** and Handle **3**.

2. Combine **1** and **2**.

3. Screw **1** into **2**.

4. Pull Rotator backwards. Push **1+2** into **3**.

5. Assembled Endo VeSeal™ Appliers.

... Key Features

- 3-piece **take-apart system**
- **Quick and intuitive** assembly /disassembly
- **Enhanced cleaning** and reprocessing abilities
- Ergonomic Townsend-handle design
- **No backlash** when activated in addition to tightly tolerated jaw dimensions
- Solid **double-action jaw mechanism** for extremely precise and reliable closing action
- 360° color coded rotating knob with **audio and tactile feedback**
- Perfectly weight-balanced
- Bariatric instruments available on request

23

CODED

VeSeal™ LINE

TOWNSEND HANDLE

DOUBLE-ACTION

3 PARTS

EASY CLEANABLE

ERGONOMIC

360°

STAINLESS STEEL

VeSeal™ **Clips** and Appliers

Designs at a Glance

Straight (20° curved)

Right-angled (70° curved)

Townsend Handle

Townsend Handle, demountable

Small   Medium   Medium-large   Large
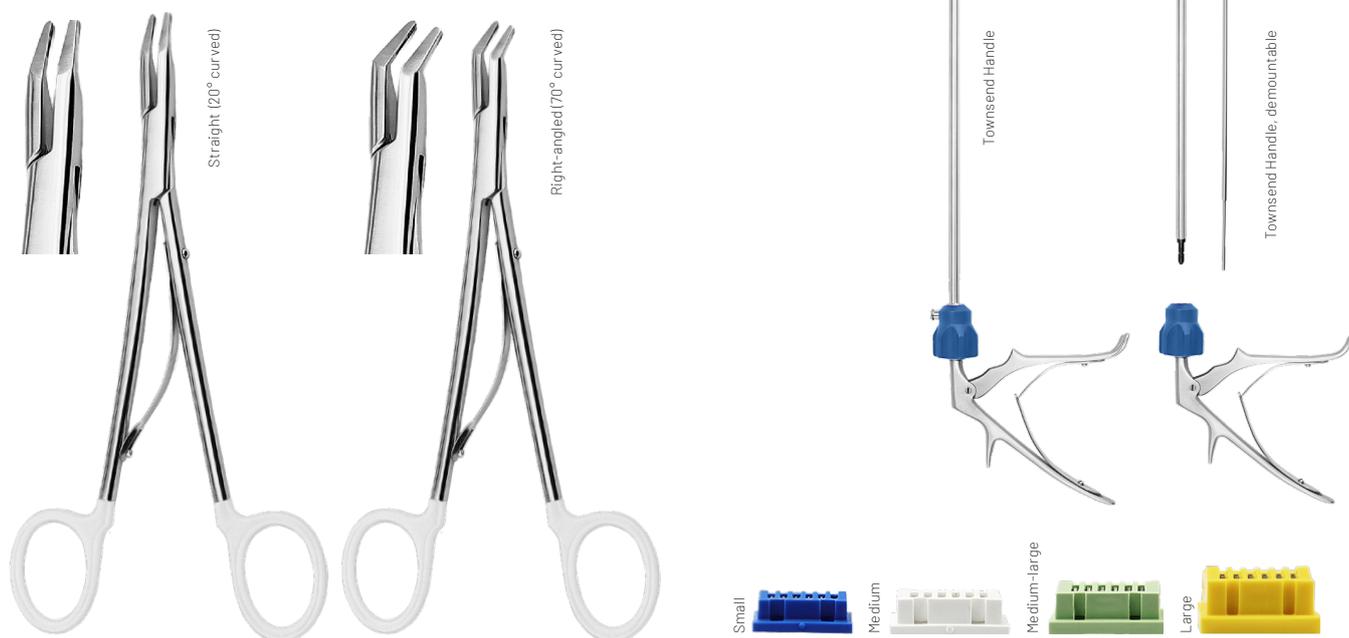
Compatibility Matrix

For VeSeal™ Clips and Appliers

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

	Color coding of item	Item no.
Medium-large VeSeal™ clips, 108 clips/box	●	**AI74CML6ETH**
Open surgery appliers for **medium-large** VeSeal™ clips, straight jaws, 20 cm / 8″	●	**AI-321550ETH**
Open surgery appliers for **medium-large** VeSeal™ clips, straight jaws, 28 cm / 11″	●	**AI-321555ETH**
Open surgery appliers for **medium-large** VeSeal™ clips, right angled jaws, 28 cm / 11″	●	**AI-321556ETH**
Endo Appliers for **medium-large** VeSeal™ clips, townsend handle, rot., Ø 10 mm, 330 mm	●	**13-1613**
Endo Appliers for **medium-large** VeSeal™ clips, townsend handle, rot., dem., Ø 10 mm, 330 mm	●	**13-1613Z**
Large VeSeal™ clips, 108 clips/box	●	**AI74CL6ETH**
Open surgery appliers for **large** VeSeal™ clips, straight jaws, 28 cm / 11″	●	**AI-321558ETH**
Open surgery appliers for **large** VeSeal™ clips, right angled jaws, 28 cm / 11″	●	**AI-321560ETH**
Endo Appliers for **large** VeSeal™ clips, townsend handle, rotatable, Ø 12.5 mm, 330 mm	●	**13-1613-104**
Endo Appliers for **large** VeSeal™ clips, townsend handle, rot., demountable, Ø 12.5 mm, 330 mm	●	**13-1613-104Z**

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Polyclip™ Non-Absorbable Polymer Clips
Key Features

- **Unique integrated ridges** to prevent slippage
- **Flexible hinge** design for easy insertion and removal if needed
- Secure locking mechanism with **tactile and audible feedback**
- Non-absorbable, **fully biocompatible** polymer material

POLYMER | STERILE | X-RAY LUCENT

CODED | LOCKING FEEDBACK | CE MARKED

STICKY TAPE | BIO COMPATIBLE | UOM

... more Features

- Cool ligation, radiolucent without interference with CT, MRI or X-ray
- Ideal for both laparoscopic and open surgery cases
- Color-coded cartridges matching the appliers
- Adhesive at the back of the cartridge for easy fixation providing precise handling
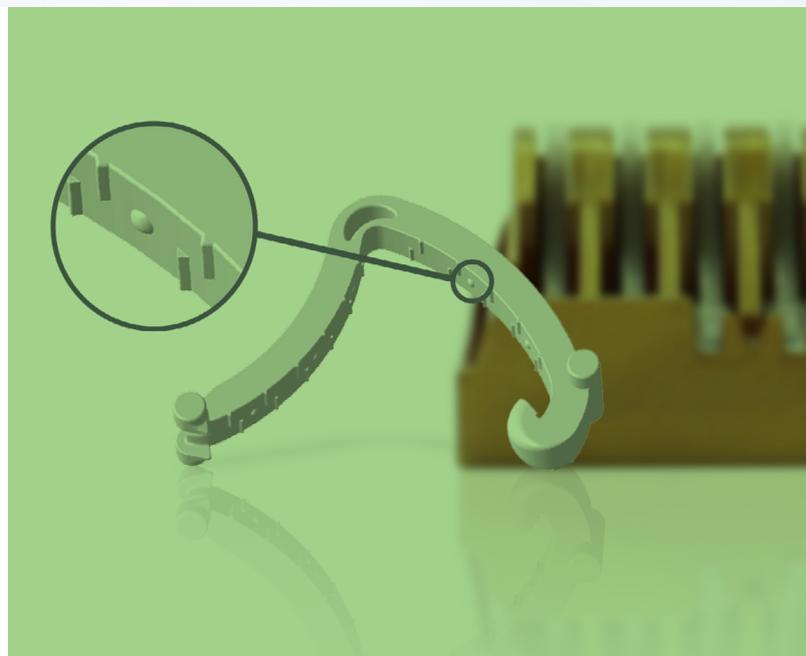
Polyclip™ Non-Absorbable Clips

	Colour coding	Item no.
Medium-large Polyclips™, 6 pcs./cartridge, 14 cartidges/box, 84 clips/box	●	AI74CMLP6
Large Polyclips™, 6 pcs./cartridge, 14 cartidges/box, 84 clips/box	●	AI74CLP6
Extra-large Polyclips™, 6 pcs./cartridge, 14 cartidges/box, 84 clips/box	●	AI74CXLP6

Size Range of Vessel / Tissue Bundle

| ML | L | XL |

3 ~ 10 mm

5 ~ 13 mm

7 ~ 16 mm
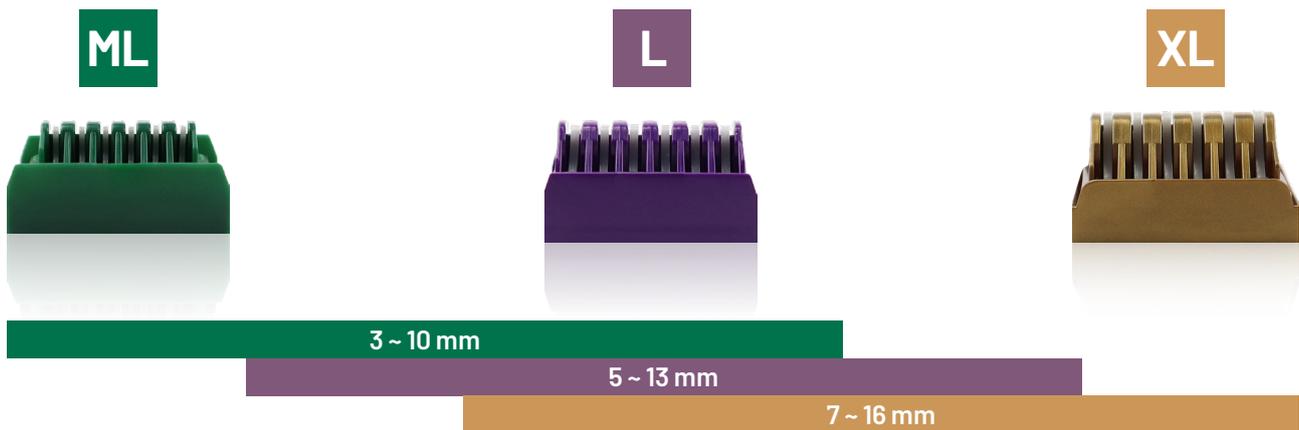
Polyclip™ Open Surgery Appliers
Key Features

- Well-designed jaws 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

CODED · **POLYCLIP LINE** · **70° RIGHT-ANGLED**

DIAMOND DUSTED · **VARIOUS LENGTHS** · **20° STRAIGHT**

EFFORTLESS · **CLEANABLE** · **STAINLESS STEEL**

... 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 **medium** Polyclips™, straight jaws	●		●	**AI-321526P**
Open surgery appliers for **medium** Polyclips™, straight jaws		●	●	**AI-321522P**
Open surgery appliers for **medium-large** Polyclips™, straight jaws	●		●	**AI-321540P**
Open surgery appliers for **medium-large** Polyclips™, straight jaws		●	●	**AI-321542P**
Open surgery appliers for **large** Polyclips™, straight jaws	●		●	**AI-321550P**
Open surgery appliers for **large** Polyclips™, straight jaws		●	●	**AI-321554P**
Open surgery appliers for **extra-large** Polyclips™, straight jaws	●		●	**AI-321557P**
Open surgery appliers for **extra-large** Polyclips™, straight jaws		●	●	**AI-321558P**

Right-Angled Open Surgery Appliers

	Color coding	Item no.
Open surgery appliers for **medium** Polyclips™, right angled jaws, 28 cm / 11"	●	**AI-321528P**
Open surgery appliers for **medium-large** Polyclips™, right angled jaws, 28 cm / 11"	●	**AI-321546P**
Open surgery appliers for **large** Polyclips™, right angled jaws, 28 cm / 11"	●	**AI-321556P**
Open surgery appliers for **extra-large** Polyclips™, right angled jaws, 28 cm / 11"	●	**AI-321560P**

Removers for Open Surgery

	Item no.
Remover for **medium**, **medium-large** and **large** Polyclips™, 28 cm / 11"	**AI-321586P**
Remover for **large** and **extra-large** Polyclips™, 28 cm / 11"	**AI-321587P**

Polyclip™ 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
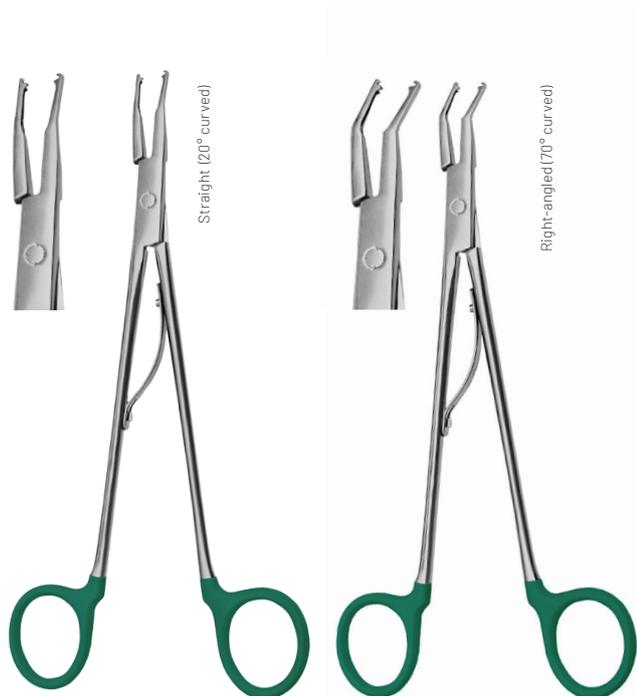
Townsend Handle Appliers for Endo Surgery

	Diameter		Color coding	Item no.
	Ø 5 mm	Ø 10 mm		
Endo Appliers for **med.-large** Polyclips™, townsend handle, rotatable, 330 mm	●		●	**13-1615AS-P**
Endo Appliers for **large** Polyclips™, townsend handle, rotatable, 330 mm		●	●	**13-1613-106AS-P**
Endo Appliers for **extra-large** Polyclips™, townsend handle, rotatable, 330 mm		●	●	**13-1613-108AS-P**

How to use the Endoscopic Clip Appliers

Limited Closure   **Locked**   **Full Closure**   **Unlocked**
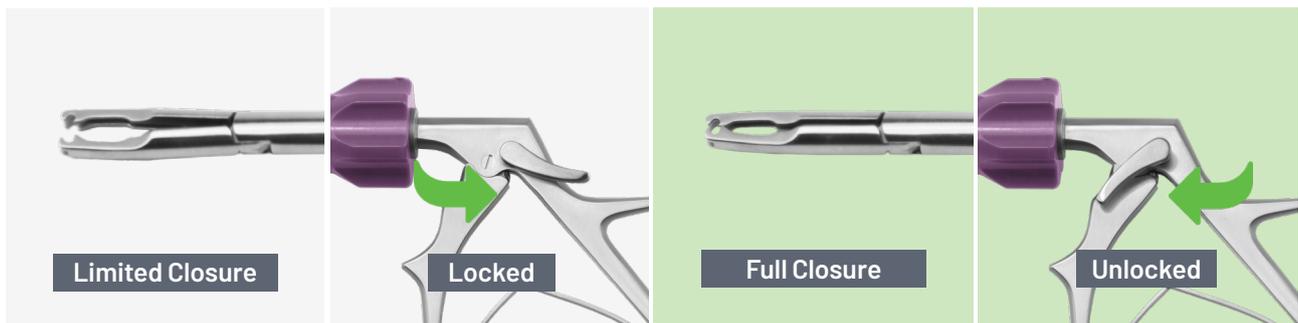
The clip can be inserted into the trocar without risk of unintentional closure.

Townsend Handle Removers for Endo Surgery
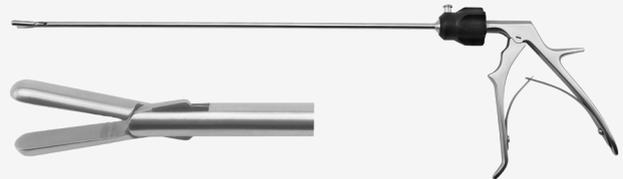
	Item no.
Remover for **medium**, **medium-large** and **large** Polyclips™, Ø 5 mm, 330 mm	**13-1613PR**
Remover for **large** and **extra-large** Polyclips™, Ø 10 mm, 330 mm	**13-1615PR**

Detachable Appliers for Endo Surgery

	Diameter		Color coding	Item no.
	Ø 5 mm	Ø 10 mm		
Endo Appliers for **med.-large** Polyclips™, townsend handle, rot., dem., 330 mm	●		●	**13-1615AS-PZ**
Endo Appliers for **large** Polyclips™, townsend handle, rot., dem., 330 mm		●	●	**13-1613-106AS-PZ**
Endo Appliers for **extra-large** Polyclips™, townsend handle, rot., dem., 330 mm		●	●	**13-1613-108AS-PZ**

How to assemble detachable Endo Clip Appliers

1. Insert 1 , Sheath 2 and Handle 3.

2. Combine 1 and 2.

3. Screw 1 into 2.

4. Pull Rotator backwards. Push 1+2 into 3 .

5. Assembled Endo Polyclip™ Appliers.

... Key Features

- 3-piece **take-apart system**
- **Quick and intuitive** assembly /disassembly
- **Enhanced cleaning** and reprocessing abilities
- Ergonomic Townsend-handle design
- **No backlash** when activated in addition to tightly tolerated jaw dimensions
- Solid **double-action jaw mechanism** for extremely precise and reliable closing action
- 360° color coded rotating knob with **audio and tactile feedback**
- Perfectly weight-balanced
- Bariatric instruments available on request

CODED

POLYCLIP LINE

TOWNSEND HANDLE

DOUBLE-ACTION

ARREST LOCKING

EASY CLEANABLE

ERGONOMIC

360°

3 PARTS
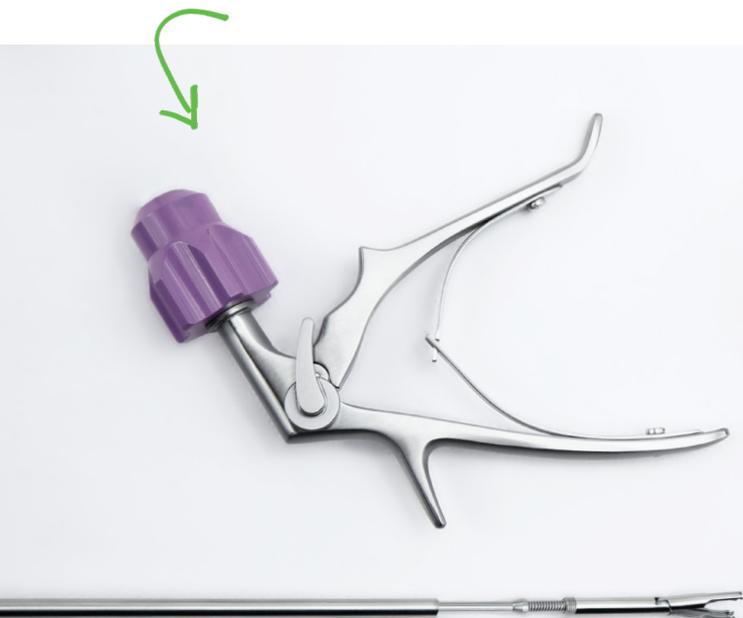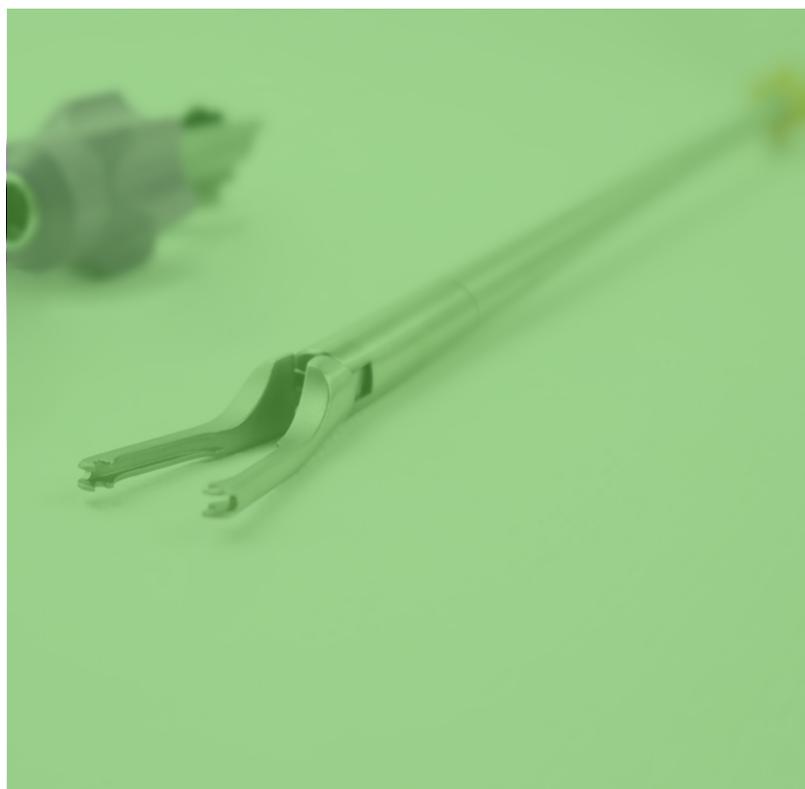
Detachable Removers for Endo Surgery

	Item no.
Remover for **medium**, **medium-large** and **large** Polyclips™, rotatable, demountable, Ø 5 mm, 330 mm	**13-1613PRZ**
Remover for **large** and **extra-large** Polyclips™, rotatable, demountable, Ø 10 mm, 330 mm	**13-1615PRZ**

Polyclips™, Appliers & Removers

Designs at a Glance

Straight (20° curved)

Right-angled (70° curved)

Townsend Handle

Townsend Handle, demountable

Medium-large

Large

Extra-large

Compatibility Matrix

For Polyclips™, Appliers and Removers

	Color coding of item	Item no.
Open surgery appliers for **medium** Polyclips™, straight jaws, 20 cm / 8″	●	AI-321526P
Open surgery appliers for **medium** Polyclips™, straight jaws, 28 cm / 11″	●	AI-321522P
Open surgery appliers for **medium** Polyclips™, right angled jaws, 28 cm / 11″	●	AI-321528P
Medium-large Polyclips™, 84 clips/box	●	AI74CMLP6
Open surgery appliers for **medium-large** Polyclips™, straight jaws, 20 cm / 8″	●	AI-321540P
Open surgery appliers for **medium-large** Polyclips™, straight jaws, 28 cm / 11″	●	AI-321542P
Open surgery appliers for **medium-large** Polyclips™, right angled jaws, 28 cm / 11″	●	AI-321546P
Endo Appliers for **med.-large** Polyclips™, townsend handle, rotatable, 330 mm	●	13-1615AS-P
Endo Appliers for **med.-large** Polyclips™, townsend handle, rotatable, demountable, 330 mm	●	13-1615AS-PZ
Large Polyclips™, 84 clips/box	●	AI74CLP6
Open surgery appliers for **large** Polyclips™, straight jaws, 20 cm / 8″	●	AI-321550P
Open surgery appliers for **large** Polyclips™, straight jaws, 28 cm / 11″	●	AI-321554P

	Csolor coding of item	Item no.
Open surgery appliers for **large** Polyclips™, right angled jaws, 28 cm / 11˝	●	AI-321556P
Endo Appliers for **large** Polyclips™, townsend handle, rotatable, 330 mm	●	13-1613-106AS-P
Endo Appliers for **large** Polyclips™, townsend handle, rotatable, demountable, 330 mm	●	13-1613-106AS-PZ
Extra-large Polyclips™, 84 clips/box	●	AI74CXLP6
Open surgery appliers for **extra-large** Polyclips™, straight jaws, 20 cm / 8˝	●	AI-321557P
Open surgery appliers for **extra-large** Polyclips™, straight jaws, 28 cm / 11˝	●	AI-321558P
Open surgery appliers for **extra-large** Polyclips™, right angled jaws, 28 cm / 11˝	●	AI-321560P
Endo Appliers for **extra-large** Polyclips™, townsend handle, rotatable, 330 mm	●	13-1613-108AS-P
Endo Appliers for **extra-large** Polyclips™, townsend handle, rotatable, demountable, 330 mm	●	13-1613-108AS-PZ
Remover for **medium**, **medium-large** and **large** Polyclips™, Ø 5 mm, 330 mm	●●●	13-1613PR
Remover for **medium**, **medium-large** and **large** Polyclips™, demountable, Ø 5 mm, 330 mm	●●●	13-1613PRZ
Remover for **large** and **extra-large** Polyclips™, Ø 10 mm, 330 mm	●●	13-1615PR
Remover for **large** and **extra-large** Polyclips™, Ø 10 mm, demountable, 330 mm	●●	13-1615PRZ

Alphanumeric Index
Item Numbers at a Glance

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