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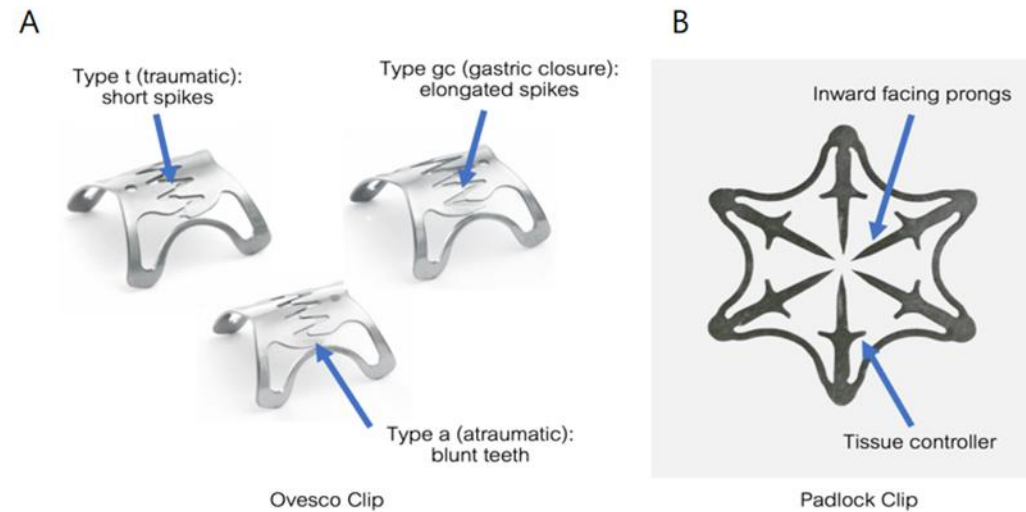


Figure 4 Anatomy of over-the-scope clips. Citation for Figure 4A: OVESCO Endoscopy. OTSC® System. [cited 30 October 2025]. Available from: <https://ovesco.com/otsc-system/>. It was obtained from the public manufacturer's product page.

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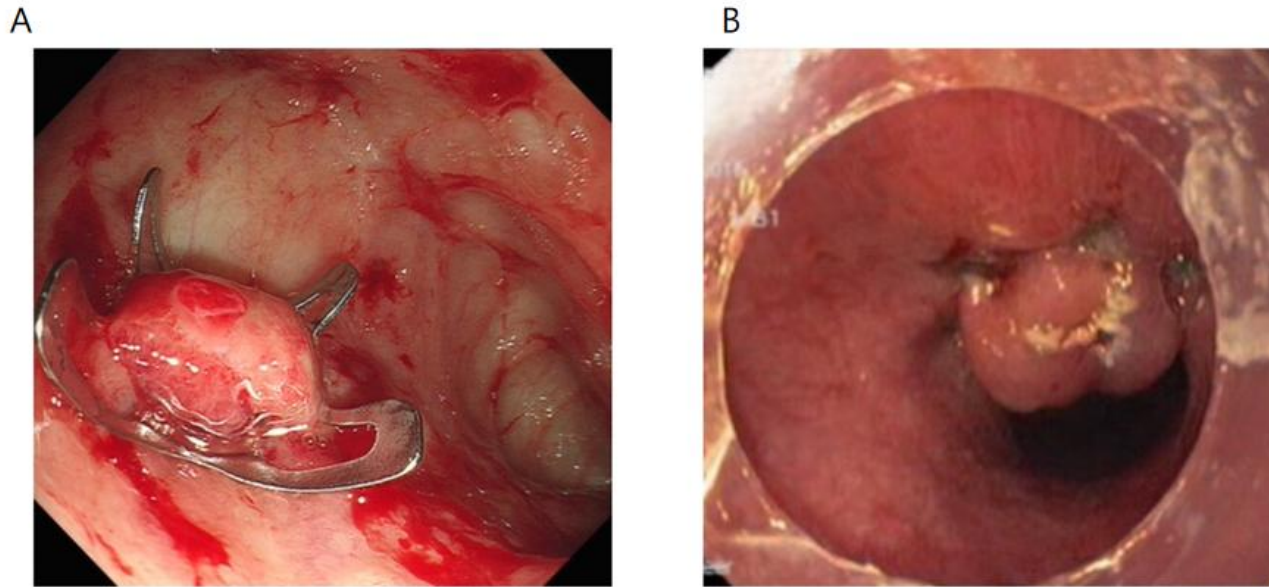


Figure 5 Deployed over-the-scope clip. Citation for Figure 5B: Rai P, Bhargava R. Successful closure of post-tracheostomy large chronic tracheoesophageal fistula with new over-the-scope clip. *Dig Endosc* 2017; 29: 634. Copyright© The Authors 2025. Published by Wiley. The author obtained permission from the publisher and was approved.

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Licensed Content Publisher	John Wiley and Sons
Licensed Content Publication	Digestive Endoscopy
Licensed Content Title	Successful closure of post-tracheostomy large chronic tracheoesophageal fistula with new over-the-scope clip
Licensed Content Author	Praveer Rai, Rajat Bhargava
Licensed Content Date	Apr 10, 2017
Licensed Content Volume	29
Licensed Content Issue	5
Licensed Content Pages	1
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Title of new article	Endoscopic clip systems for hemostasis and defect closure in gastrointestinal endoscopy
Lead author	Enrik John T. Aguila
Title of targeted journal	World Journal of Gastrointestinal Endoscopy
Publisher	Baishideng Publishing Group
Expected publication date	Jan 2026
Portions	Figure 2b
The Requesting Person / Organization to Appear on the License	Enrik John T Aguila
Requestor Location	Dr. Enrik John Aguila 401/42-48 Garden Terrace Mawson Lakes Salisbury, South Australia 5095 Australia
Publisher Tax ID	EU826007151

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v1.10 Last updated September 2015

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Supplementary Table 1 Comparison of different commercially available endoscopic clips (as per product information and manufacturer website)

Image	Ref.		Open width	Stem/tail length (mm)	Rotatability	Open-close mechanism	Material	Features
Through the Scope Clips								
	EZ (Olympus) [19]	Clip	7, 9.5, 11	Not specified	Yes	No	Not specified	Reloadable clips on separate applicator catheter Simple push-pull action for loading Cost savings
	QuickClip (Olympus) [20]	Pro	11	Not specified	Yes	Yes	Elgiloy (nickel alloy)	Precise rotation Clip arm resists bending Useful in angulated and retroflexed positions



Retentia Clip (Olympus) [21]	9, 12, 16	5.4 (for the 9 and 12mm clips), 7.4 (for the 16mm clip)	Yes	Yes	Stainless steel	360-degree rotation One-step deployment Short tail length Atraumatic tip Reliable through angulated positions
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Resolution Clip (Boston Scientific) [22]	11, 17 (Ultra)	7, 10.6 (Ultra)	Yes	Yes	Stainless steel, cobalt	Can open and close to five times prior to deployment Can be rotated by the endoscopist through its delivery catheter Precise 1:1 rotation Strong closure and compression Low overshoot
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Instinct (Cook Medical) [23]	Clip	11, 16 (Plus)	8.7	Yes	Yes	Stainless steel, nitinol	1:1 rotation Strong closure, compression, and clip retention; useful for fibrotic lesions Multiple anchoring tip on clip Can be rotated with side-viewing scope
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DuraClip (ConMed) [24]		11, 16	7.4	Yes	Yes	Stainless steel	Short stem may be useful for areas with limited space requiring adjacent clips Strong closure and compression Can be rotated with side-viewing scope
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Assurance Clip 9, 11, 13, 16, 18 7
(STERIS) [27]

Yes Yes Stainless steel 360-degree 1:1 rotation
One-step deployment
Short stem/tail length
Can be rotated with side-viewing scope



Viper Clip 9, 11, 13, 16 7.1
(STERIS) [28]

Yes Yes Not specified Rotational control; can reopen even in a fully angulated scope
Short stem/tail length (7.1 mm)

Specialized TTS Clips



MANTIS Clip 11 11
(Boston Scientific) [29]

Yes Yes Stainless steel Closing large defects (< 3 cm)
With long, curved hook/claw that can grip the mucosa
3-step approach: Anchor,



Lockado Clip 11, 16, 22 (Micro-Tech) [30]

6.3

Yes

Yes

Stainless steel

mobilize, and close
Multiple grasping points with two rows of atraumatic teeth
Short stem
Can be rotated with side-viewing scope



Dual Action Tissue Clip (DAT) (Micro-Tech) [31]

Not specified

No

Yes

Stainless steel with gold

Two independent actuated arms to capture tissue and support manipulation
For defects < 3 cm
Minimum channel size 3.2 mm

Over-the-Scope Clips (OTSC)



Ovesco OTSC 16.5, 17.5, 21
Clip (Ovesco
Endoscopy) [32]

Not
applicable

No

No

Super-elastic
nitinol

Opposing sides of tissue are
suctioned and/or pulled
into a cap-like cylinder



Padlock Clip 19
(STERIS) [33]

Not
applicable

No

No

Nitinol

Pre-loaded self-grasping
clip
Attachment outside of the
endoscope
Free instrument channel
'Push of the thumb'
deployment