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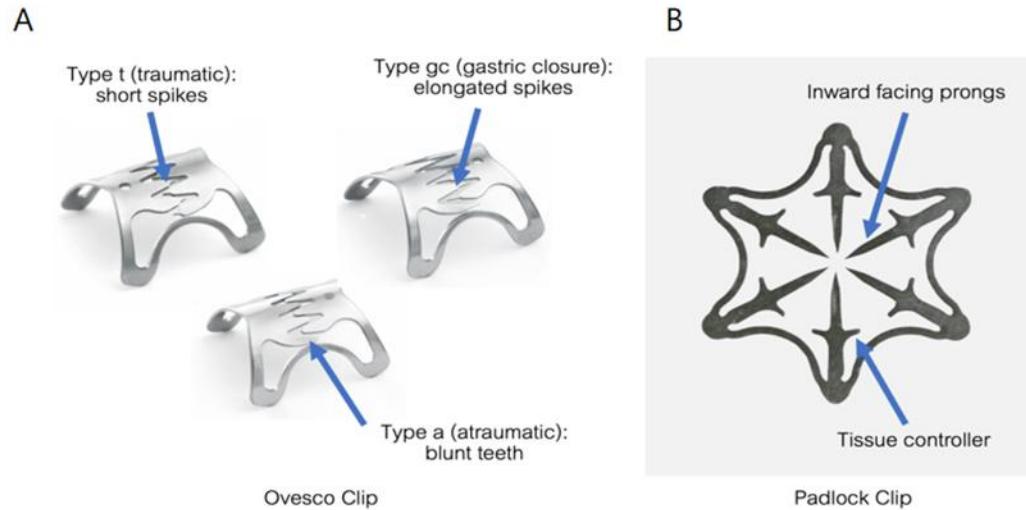


Figure 4 Anatomy of over-the-scope clips. Citation for Figure 4A: OVESCO Endoscopy. OTSC® System. [cited 30 October 2025].

Available from: <https://ovesco.com/otsc-system/>. It was obtained from the public manufacturer's product page.

Figure 5B license

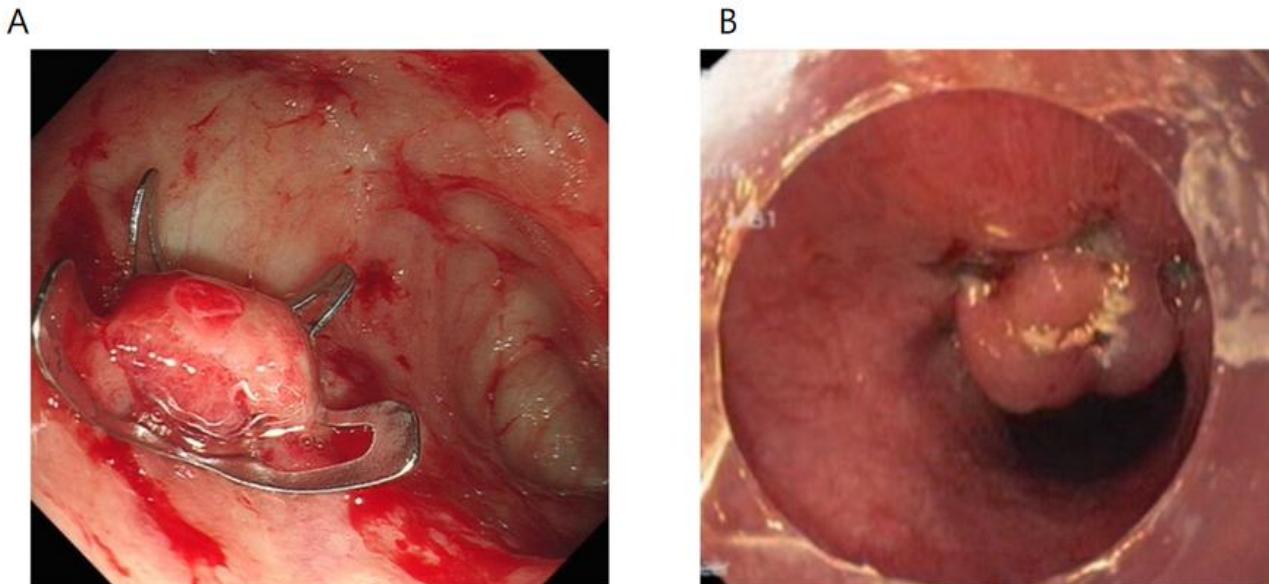


Figure 5 Deployed over-the-scope clip. Citation for Figure 5B: Rai P, Bhargava R. Successful closure of post-tracheostomy large chronic tracheoesophageal fistula with new over-the-scope clip. *Dig Endosc* 2017; 29: 634. Copyright© The Authors 2025. Published by Wiley. The author obtained permission from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

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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

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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 (mm)	Stem/tail length (mm)	Rotatability	Open-close mechanism	Material	Features
Through the Scope Clips							
	EZ Clip (Olympus) [19]	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 Pro (Olympus) [20]	11	Not specified	Yes	Yes	Elgiloy (nickel alloy)	Precise rotation Clip arm resists bending Useful in angulated and retroflexed positions



Retentia Clip 9, 12, 16
(Olympus) [21]

5.4 (for the 9 and 12mm clips), 7.4 (for the 16mm clip)

Yes

Stainless steel

360-degree rotation
One-step deployment

Short tail length

Atraumatic tip

Reliable through angulated positions



Resolution Clip 11, 17 (Ultra)
(Boston
Scientific) [22]

7, 10.6 (Ultra)

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



Instinct Clip 11, 16 (Plus) 8.7 Yes Yes Stainless 1:1 rotation
(Cook Medical)
[23]

steel, nitinol Strong closure,
compression, and clip
retention; useful for fibrotic
lesions



DuraClip 11, 16 7.4 Yes Yes Stainless Short stem may be useful
(ConMed) [24]

steel for areas with limited
space requiring adjacent
clips

Strong closure and
compression

Can be rotated with
side-viewing scope



Stella Clip 11, 13, 16
(Pentax) [25]

Not specified Yes Yes Stainless 1:1 rotation and
steel repositionable
Handle security lock system
helps prevent unexpected
deployment



SureClip / 7.3, 11, 16
SureClip Eco
(Micro-Tech)
[26]

7.3 Yes Yes Stainless Short stem
steel Precise rotation
Fenestration hole to
accommodate tissue
Strong closure,
compression, and clip
retention

SureClip Eco can be a
cost-effective option

Low overshoot



Assurance Clip 9, 11, 13, 16, 18 7
(STERIS) [27]

Yes Yes Stainless 360-degree 1:1 rotation
steel 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
(Boston
Scientific) [29]

11 Yes Yes Stainless 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



Dual Action 15
Tissue (DAT)
Clip
(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)



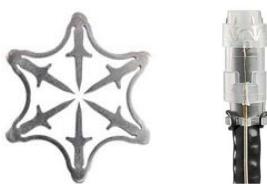
Ovesco OTSC 16.5, 17.5, 21 mm
Clip (Ovesco Endoscopy) [32]

Not applicable

No

Super-elastic nitinol

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



Padlock Clip 19 mm
(STERIS) [33]

Not applicable

No

Nitinol

Pre-loaded self-grasping clip

Attachment outside of the endoscope

Free instrument channel
'Push of the thumb' deployment