



o v e s c o
innovation in scope



OTSC® System.....

saving lives®

The innovative clipping system for flexible endoscopy



The OTSC® System stands for superior clinical efficacy¹⁻⁶, easy and quick application⁶ and cost effectiveness⁷.

The OTSC® System is used in flexible endoscopy for

- acute bleeding
- wall closure
- closure of chronic lesions
- management of complications after endoscopic or surgical procedures

..... OTSC® System

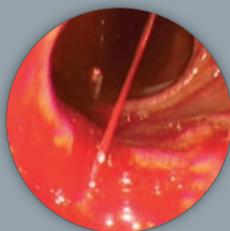
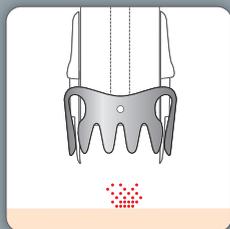
The OTSC® System is an innovative clipping system to be applied via flexible endoscopes. It offers the physician unique features superior to any other device:

- dynamic compression, continuous adaption to tissue thickness
- larger volume of tissue secured
- higher stability at the lesion site
- minimal strain on surrounding tissue

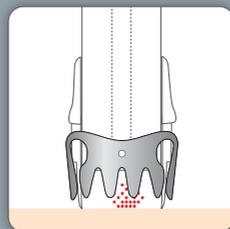
The exceptional features and therapeutic functions of the OTSC® System are based on its unique material and design: the superelastic Nitinol® is biocompatible, MRI conditional, and, if needed, even suited to be applied as a long-term implant.

..... Application

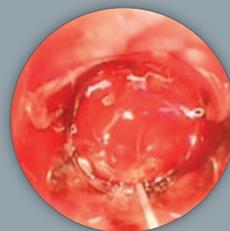
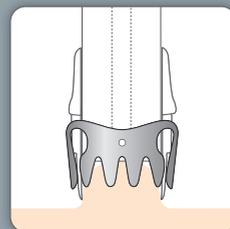
Hemostasis



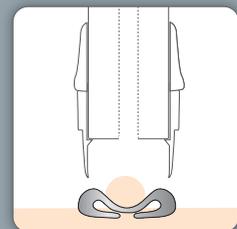
Target lesion with OTSC® System.



Bring OTSC® cap in contact with tissue.



Suction target tissue into OTSC® cap.



Apply OTSC® clip by turning the hand wheel.

Hemostasis of an arterial bleeding, source: Prof. Dr. Chiu, Prince of Wales Hospital, Hong Kong SAR, China

1 Jensen DM, Kovacs T, Ghassemi KA, Kaneshiro M, Gornbein J. Randomized Controlled Trial of Over-the-Scope Clip as Initial Treatment of Severe Nonvariceal Upper Gastrointestinal Bleeding. Clin Gastroenterol Hepatol. 2021 Nov;19(11):2315-2323.e2

2 Meier B, Wannhoff A, Denzer U, Stathopoulos P, Schumacher B, Albers D, Hoffmeister A, Feisthammel J, Walter B, Meining A, Wedi E, Zachäus M, Pickartz T, Küllmer A, Schmidt A, Caca K. Over-the-scope-clips versus standard treatment in high-risk patients with acute non-variceal upper gastrointestinal bleeding: a randomised controlled trial (STING-2). Gut. 2022 Jul;71(7):1251-1258.

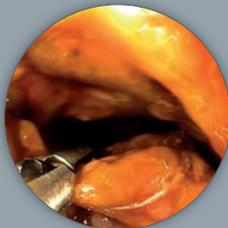
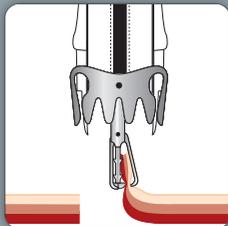


The use of the OTSC® System is intuitive and easy, very similar to other devices based on the application cap principle. The application cap is mounted to the tip of the endoscope. By turning the handwheel, the thread is tightened and the clip is applied. It is compatible with commercially available endoscopes. A variety of different sizes and combinations are available for commonly used endoscopes.

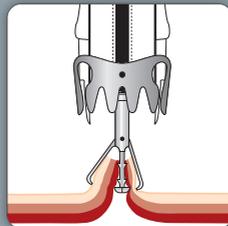
Our application aids allow easier positioning of lesions: the OTSC® Anchor (e.g. fistula or ulcer bleeding treatment) and the OTSC® Twin Grasper® (e.g. perforation closure) assist you in approximating tissue precisely into the cap.

All OTSC® products are disposable and designed for single patient use.

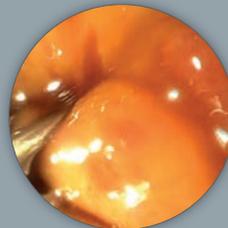
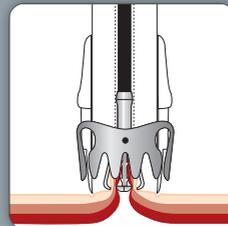
Perforation closure



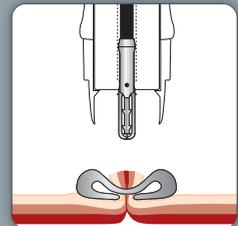
Grasp first perforation edge with one of the two OTSC® Twin Grasper® jaw parts.



Grasp opposite perforation edge with second jaw part.



Retract perforation into cap (OTSC® Twin Grasper® must be fully inside cap).



Apply clip and release OTSC® Twin Grasper®.

Closure of a perforation in the rectum, source: Dr. Mauro Manno & Dr. Paola Soriani, UOSD Endoscopia Digestiva Area Nord, Azienda USC di Modena, Ospedale di Carpi e Mirandola, Italy

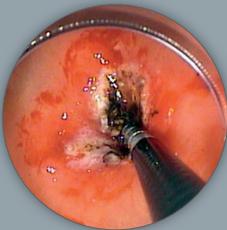
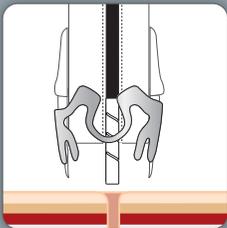
3 Lau JYW, Li R, Tan CH, Sun XJ, Song HJ, Li L, Ji F, Wang BJ, Shi DT, Leung WK, Hartley I, Moss A, Yu KYY, Suen BY, Li P, Chan FKL. Comparison of Over-the-Scope Clips to Standard Endoscopic Treatment as the Initial Treatment in Patients With Bleeding From a Nonvariceal Upper Gastrointestinal Cause: A Randomized Controlled Trial. *Ann Intern Med* 2023 Mar 7. Epub ahead of print.

4 Wedi E, Fischer A, Hochberger J, Jung C, Orkut S, Richter-Schrag HJ. Multicenter evaluation of first-line endoscopic treatment with the OTSC in acute non-variceal upper gastrointestinal bleeding and comparison with the Rock all cohort: the FLETRock study. *Surg Endosc*. 2018 Jan;32(1):307-314.

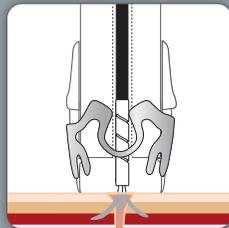
5 Schmidt A, Golder S, Goetz M, Meining A, Lau J, von Delius S, Escher M, Hoffmann A, Wiest R, Messmann H, Kratt T, Walter B, Bettinger D, Caca K. Over the Scope Clips Are More Effective Than Standard Endoscopic Therapy for Patients With Recurrent Bleeding of Peptic Ulcers. *Gastroenterology*. 2018 Sep;155(3): 674-686.e6.



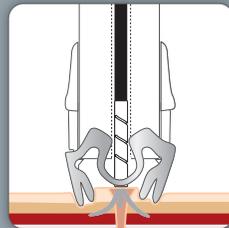
Fistula closure



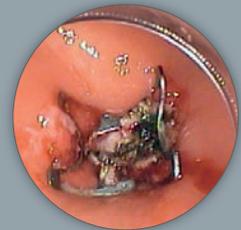
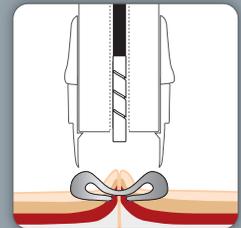
Target fistula opening, position the OTSC® Anchor and fix tissue.



Align OTSC® cap to the fistula opening by pulling the anchor and advancing endoscope.



Mobilize tip of OTSC® Anchor shaft into cap; anchor spikes may remain external.



Apply clip; release OTSC® Anchor from tissue.

Closure of a PEG fistula, source: Dr. Thomas Kratt, Universitätsklinikum Tuebingen, Germany

6 Bapaye J, Chandan S, Naing LY, Shehadah A, Deliwala S, Bhalla V, Chaturanga D, Okolo PI 3rd. Safety and efficacy of over-the-scope clips versus standard therapy for high-risk nonvariceal upperGI bleeding: systematic review and meta-analysis. *Gastrointest Endosc.* 2022 Nov;96(5):712-720.e7.

7 Küllmer A, Behn J, Glaser N, Thimme R, Caca K, Schmidt A. Over-the-scope clips (OTSC) are cost-effective in recurrent peptic ulcer bleeding. *United European Gastroenterol J.* 2019 Nov; 7(9): 1226-1233.



one & done

OTSC[®] – superior outcome in hemostasis

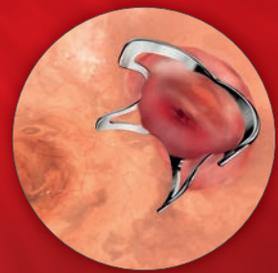
Three randomized controlled trials (USA, Europe, Asia) on first-line OTSC[®] therapy demonstrate a significant clinical benefit compared to former standard treatment. Clinical success rates:

96.0% vs. 71.4% (p=0.017) in ulcer & Dieulafoy; Jensen DM et al., Clin Gastroenterol Hepatol 2021¹

91.7% vs. 73.1% (p=0.019) in high-risk lesions; Meier B et al., Gut 2022²

96.8% vs. 85.4% (p=0.006) in all cases of NVUGIB; Lau JYW et al., Ann Intern Med 2023³

1st line



Details and components

The OTSC® System consists of an applicator cap with a mounted clip, handwheel and thread retriever. The OTSC® System is available in the following variety of cap sizes and clip designs to provide secure application regardless of the anatomical situation and endoscope type.

- 4 different cap and corresponding clip sizes
- 2 different cap depths for capturing more or less tissue
- 3 different teeth shapes suitable for different areas of application



OTSC® Version	mini	11	12	14	
Endoscope diameter Ø [mm]	8.5–10	8.5–11	10.5–12	11.5–14	
Depth of cap	3 mm	11/3a¹ (100.03)*	12/3a¹ (100.05)*	14/3a² (100.07)*	
		11/3t¹ (100.04)*	12/3a² (100.28)*	14/3t² (100.08)*	
6 mm	6 mm		12/3t¹ (100.06)*		
			12/3t² (100.29)*		
		mini/6a¹ (100.01)*	11/6a¹ (100.09)*	12/6a¹ (100.11)*	14/6a² (100.13)*
		mini/6t¹ (100.02)*	11/6t¹ (100.10)*	12/6a² (100.30)*	14/6t² (100.14)*
			12/6t¹ (100.12)*		
			12/6t² (100.31)*		
			12/6gc¹ (100.27)*		
Max. outer diameter Ø [mm]	14.6	16.5	17.5	21	

* (ref. no.) ¹ thread length 165 cm ² thread length 220 cm



type a

blunt teeth, primarily compression effect



type t

teeth with small spikes, compression and anchoring effect



type gc

elongated teeth with spikes, application: closure of gastric wall

Application aid

There are two instruments available to enable a more effective application. These can be inserted next to the thread in the same working channel.



For better approximation of tissue especially when hard or fibrotic (e.g. fistulae, chronic ulcer), OTSC® Anchor 220tt especially for thin tissue.

	OTSC® Anchor	OTSC® Anchor 220tt
ref. no.	200.10	200.11
working length	1650 mm	2200 mm
max. Ø	2.4 mm	2.4 mm
needle width	12 mm	9 mm
stitch depth	4 mm	2–2.5 mm



For easier approximation of gaping edges of a lesion (e.g. perforation).

	OTSC® Twin Grasper®	
ref. no.	200.44	200.45
working length	1650 mm	2200 mm
max. Ø	2.6 mm	2.6 mm

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