

EVIS EXERA III

PowerSpiral

Take Enteroscopy to the Next Level



Accelerating into a Motorized Future

The PowerSpiral Enteroscope

The PowerSpiral allows for fast and gentle access to reach deep into the small intestine by pleating the small bowel onto the enteroscope using a spiral segment. This is achieved via the integrated motor, which rotates the single-use PowerSpiral overtube that is equipped with soft spiral-shaped fins that gently follow the mucosa. The motorization not only ensures smooth and safe insertion and withdrawal of the enteroscope, but, in comparison to conventional systems, it also improves maneuverability during therapeutic interventions.



Smooth and Deep Insertion

The motorized advancement, combined with the soft fins of the spiral segment, enables excellent maneuverability and insertion, providing insight into the entire intestinal lumen, which makes it easier to penetrate deep into the small intestine.



Precise Positioning for Therapeutic Interventions

The motorized speed control and gentle grip on the mucosa between the soft fins of the spiral segment allow precise positioning of the endoscope and enable various well-controlled and stable therapeutic interventions to be performed.



Substantial Reduction in Procedure Time

Lesions may be reached more quickly. First study results demonstrated that procedure times with the PowerSpiral endoscope may be substantially reduced*1,2.

The motorized spiral enteroscope is the first active endoscope to reach deep into the small intestine in a relatively short time. For me, this new technology is a genuine milestone in endoscopy that allows smooth and fast insertion for effective treatment by using standard accessories.

Prof. Dr. Horst Neuhaus

^{*1} Beyna T, Schneider M, Pullmann D, et al. Motorized spiral colonoscopy: a first single-center feasibility trial. Endoscopy. 2018; 50(5): 518-523.
*2 Mans L, Arvanitakis M, Neuhaus H, et al. Motorized Spiral Enteroscopy for Occult Bleeding. Dig Dis. 2018; 36(4): 325-327.

Versatile Features Enhance the Power of a Motorized Scope

The PowerSpiral Enteroscope



3.2 mm ◀→

removing mucus and other residues in the

detected and treated more quickly.

investigated intestinal areas. Bleeding can also be

Familiar Length

Thanks to a standard colonoscope length (1,680 mm), improved maneuverability compared to conventional scopes is expected. Moreover, a great variety of compatible instruments from the large Olympus EndoTherapy portfolio can be used to perform various treatment procedures.

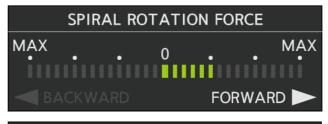


Easy-to-operate

The direction and speed of the rotation of the spiral segment are controlled by a foot switch.

Efficient Control

The Force Gauge provides the operator with a visual indication of the rotational direction and the motor current throughout the examination. The Force Gauge also displays a service indicator of the enteroscope to securely inform periodical maintenance.







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PowerSpiral System Components



PowerSpiral Control Unit PSCU

The PowerSpiral control unit controls the rotational direction and speed of the spiral segment.



Force Gauge MAJ-2179

The force gauge provides visual indication of the rotational direction and the motor current.



PowerSpiral Foot Switch MAJ-2181

The direction and speed of rotation of the spiral segment are controlled by foot pedals for simple operation.



ESG-300

The ESG-300 can adapt to meet all electrosurgical needs of enteroscopy.



Biopsy Forceps and APC

A wide variety of compatible ET instruments can be used to perform various treatment procedures.



Designated Lubricant (ENDOLAN)

ENDOLAN lubricant is the designated lubricant to be used with all PowerSpiral systems and procedures.



Training Courses and Service Solutions

Training and Service for the PowerSpiral Enteroscope



Message from PowerSpiral Experts Group

Spiral enteroscopy requires a different technique than standard enteroscopy because it relies on the powered spiral segment to pull the small bowel onto the enteroscope. Olympus has created extensive and detailed educational web content* to support physicians to reliably and safely insert and withdraw the enteroscope and clearly explains nuances in technique and troubleshooting problems. The content includes description of the product, videos of the technique, clinical videos and E-learning programs. These were developed to support the safe and effective use of PowerSpiral and we strongly recommend that you carefully view and read all of the material before beginning clinical cases.

Find more information at: https://www.olympusprofed.com/gi/powerspiral/

Training Courses

Olympus offers face-to-face training for new users of the PowerSpiral enteroscope. The agenda includes hands-on training sessions, live case observations and various presentations.





Training Material

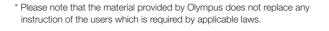
Olympus has worked intensively with experienced physicians to develop an extended set of materials. It contains a procedural manual, example video cases and an e-learning platform to familiarize the new technology.

https://www.olympusprofed.com/gi/powerspiral/



Comprehensive Service Solutions

Olympus provides a level of service support that extends beyond repairs. Unique service solutions increase the system's uptime so as to ensure a secure investment for customers.





User-controlled Motor Power Changes your Enteroscopy with Faster and Deeper Insertion

The PowerSpiral Enteroscope

Intestinal Videosc	ope (PSF-1)		Rotation Part	Maximum rotation rate	30 rpm
Optical System	Field of view	140°	Instrument Channel	Channel inner	
	Direction of view	Forward viewing		diameter	ø 3.2 mm
	Depth of field	2 – 100 mm		Minimum visible	3 mm
	Image quality	HD Image		distance*1	
	NBI observation	Available		Direction from which EndoTherapy accessories enter and exit the endoscopic image	
Insertion Section	Distal end outer diameter	ø 11.3 mm			
	Distal end enlarged	RIGHT 4 DOWN			
	Air/water nozzle Light guide lens Objective lens Instrument channel outlet Auxiliary water channel		Airflow Rate*2		25 cm ³ /s
			Bending Section	Angulation range	UP 180°/DOWN 180°/ RIGHT 160°/LEFT 160°
			Total Length		2035 mm
			*1 Distance from the distal end of the endoscope. *2 Standard when CLV-190 (high air pressure) is used.		ed.
	Insertion tube outer diameter	ø 11.5 mm (Distal to the rotation part)			
		Ø 12.8 mm (Proximal to the rotation part)	Single-use Power	Spiral Tube (DPST-1)	
	Insertion section working length	1680 mm	Fin	Maximum outer diameter	ø 31.1 mm
	HFT (High Force Transmission)	Available	Tube	Outer diameter	ø 18.1 mm
			Total Length		240 mm

PowerSpiral Control	Unit (PSCU)		
	Rated voltage	220 – 240 V AC	
	Voltage fluctuation	Within ±10%	
	Rated frequency	50/60 Hz	
Power Input	Frequency fluctuation	Within ±1 Hz	
	Power consumption	70 VA	
	Fuse rating	5 A	
	Dimensions	370 (W) \times 69 (H) \times 460 (D) mm	
Size	Dimensions (maximum)	375 (W) × 75 (H) × 477 (D) mm	
	Weight	6.1 kg	
	Type of protection against electric shock	Class I	
Classification (Medical Electrical Equipment)	Degree of protection against electric shock of applied part	TYPE BF applied part. Where no classification mark appears, the device is a TYPE BF applied part.	
	Degree or protection against explosion	The PowerSpiral control unit should be kept away from flammable gases.	

	Rotation speed control range	30 rpm (at single-use PowerSpira tube rotation speed) Forward and backward		
	Rotation direction			
	Control method	Speed control		
Rotation Control	Limit function	The limit function stops the rotation of the single-use PowerSpiral tube when the electric current to the motor on the endoscope exceeds a setting value.		
Output of the Video Signal of the Force Gauge		Outputs the display of the force gauge as the video signal.		
Output of	Signal format	PAL		
the Video Signal	Output signal	Y/C		
Included Items		PSCU Force Gauge Force Gauge Cable PowerSpiral Foot Switch Communication Cable 1.8M CLV-UPD Cable		

Tube Content 200 ml	
Delivery Quantity 12 / box	



