

Advanced Energy CROMA™ & Speedboat™



Anything is Possible
with the Right Approach



FERDINAND MEDICAL

Advanced Equipment, Trusted Care

INTRODUCTION

Creo Medical's pioneering products are used worldwide, providing:



Patients

with improved treatment options, focused on enhancing quality of life



Healthcare Professionals

with access to advanced technology and techniques



Hospitals

with optimised patient pathways and efficiency

Creo Medical is transforming lives through the development and delivery of minimally invasive devices, bringing Advanced Energy to the emerging field of therapeutic endoscopy.

With an expanded product portfolio in the field of GI Endoscopy, we can provide a unique partnership with healthcare professionals

Advanced Energy

for advanced procedures such as Speedboat Submucosal Dissection (SSD) and Per-oral Endoscopic Myotomy (POEM)

Endotherapeutics

for routine procedures such as polypectomy and Endoscopic Mucosal Resection (EMR), and for supporting advanced procedures, such as endoscopic retrograde cholangiopancreatography (ERCP)

CROMA

Advanced Energy Generator

The CROMA Advanced Energy Platform precisely controls **Advanced Bipolar RF** and **Super High Frequency (SHF) Microwave** energy to enable a suite of flexible endoscopic devices designed to deliver:



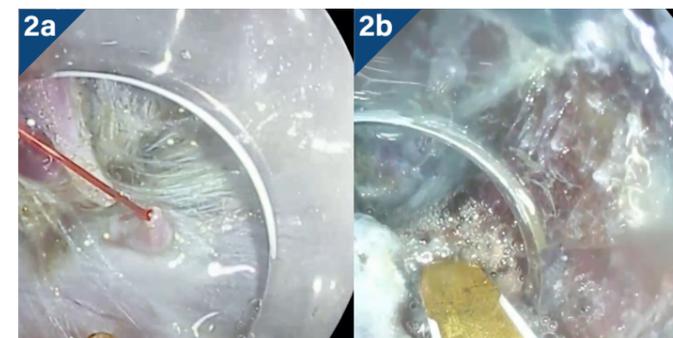
- A unique **usability and safety profile**¹⁻⁶
 - Optimal **tissue effect**¹⁻⁶
- Improved **clinical and economic outcomes**⁶
- **Expanded capabilities** in therapeutic endoscopy



Advanced Bipolar RF

Enables a smooth cut with clean margins and minimal bleeding¹

- Closed-loop technology & proprietary waveform
- Lower voltage than standard monopolar
- Focused energy, adapted based on tissue response



SHF Microwave

Enables on-demand, reproducible effects for both ablations and hemostasis¹

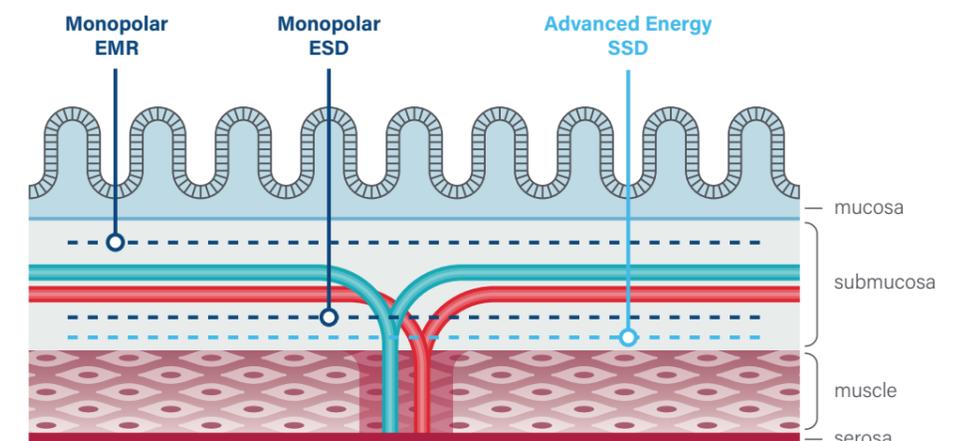
- Super high frequency (5.8 GHz)
- Precise control of the thermal energy and depth of penetration

Images (top)

- 1a. Cut fibrotic tissue
- 1b. Uncharred margins and muscle 'bed'
- 2a. Active bleeding
- 2b. Large vessels

Image (right)

GI tract layers



Speedboat Inject

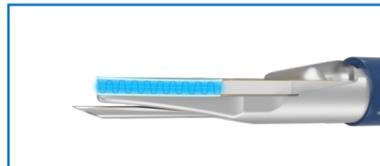
Advanced Energy Multi-modal Device

Speedboat Inject with an integrated injection needle is an Advanced Energy multi-modal instrument designed for flexible endoscopy that can deliver both Advanced Bipolar RF and 5.8 GHz Super High Frequency Microwave energy.



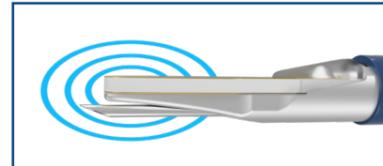
Protective hull designed for safety

Protects the muscle bed from unwanted thermal injury by maintaining a consistent distance from the energy source, allowing cutting close to the muscle bed.



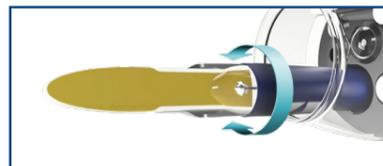
Precise advanced bipolar RF cutting

Blade design controls the depth of penetration and provides a focused pathway of energy delivery at lower voltage <460 V. Adaptive waveform automatically adjusts parameters to tissues and balances coagulation during cutting to minimise bleeding.



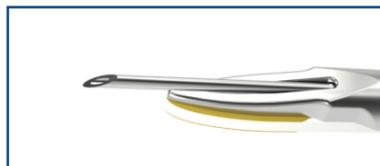
On-demand, controlled microwave coagulation

SHF Microwave energy distributes heat evenly across the treatment area, coagulating the area and constricting the source of bleeds. 5.8 GHz enables controlled depth of penetration not impacted by tissue resistance, designed to minimise the risk of perforations and charring.



1-to-1 rotational feel designed for usability

Torque Rotation Technology™ for accurate control, ensures the tip can be positioned to match the contour of the muscle bed at all stages of submucosal dissection.



Integrated injection needle for versatility

On-demand submucosal lift using a 26-gauge extendable needle, eliminating unnecessary instrument exchanges.

Speedboat UltraSlim

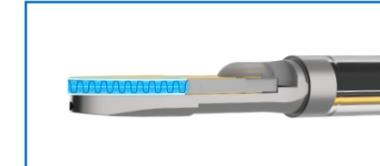
Our Slimmest Advanced Energy Device

Speedboat UltraSlim is our slimmest Advanced Energy multi-modal instrument designed for flexible endoscopy that can deliver both Advanced Bipolar RF and 5.8GHz Super High Frequency Microwave energy from a single device.



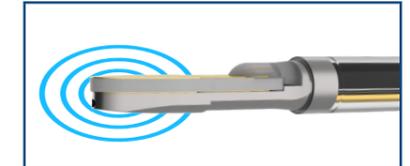
Integrated lifting system & Protective Hull

Compatible with both endoscopic pumps and syringes, the integrated system provides rapid tissue lift during dissections. Protects the muscle bed from unwanted thermal injury by maintaining a constant distance from the energy source, allowing cutting close to the muscle bed.



Precise Advanced Bipolar RF cutting

Blade design controls the depth of penetration and provides a focused pathway of energy delivery at lower voltage <460 V. Adjusts voltage/current based on tissue impedance automatically to maintain power density for a smooth, high quality and precise cut.



On-demand, controlled microwave coagulation

SHF Microwave energy distributes heat evenly across the treatment area, coagulating the area and constricting the source of bleeds. 5.8 GHz enables controlled depth of penetration not impacted by tissue resistance, designed to minimise the risk of perforations and charring.

Multi-modal device



Benefits of Speedboat UltraSlim

- ✓ Improved access to the GI tract
- ✓ Integrated torquer for enhanced control
- ✓ Functions in tortuous and challenging scope positions including retroflexion
- ✓ Compatible with all routine and therapeutic endoscopes
- ✓ Our fastest microwave coagulation yet

References

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2. Microwave coagulation of blood vessels during advanced colonoscopic polypectomy: first results in humans. Zacharias P. Tsiamoulos et al. published in United European Gastroenterology Journal; 2016; 2 (Supplement 1). <https://www.ueg.eu/education/document/microwave-coagulation-of-bloodvessels-during-advanced-colonoscopy-polypectomy-first-results-in-humans/129209>
3. A new approach to endoscopic submucosal tunneling dissection: the "Speedboat-RS2" device. Zacharias P. Tsiamoulos et al. published in Endoscopy. <https://www.thieme-connect.de/products/ejournals/html/10.1055/a-0875-3352>
4. Endoscopic submucosal tunneling dissection: use of a novel bipolar radiofrequency and microwave-powered device for colorectal endoscopic submucosal dissection. Thomas R. McCarty, Hiroyuki Aihara. Published in Video GIE, official video journal of the American Society of Gastrointestinal Endoscopy. [https://www.videogie.org/article/S2468-4481\(20\)30090-4/fulltext](https://www.videogie.org/article/S2468-4481(20)30090-4/fulltext)
5. Tsiamoulos et al. First results using Speedboat Tunneling technique in colorectal submucosal dissection – clinical outcomes and procedure time prediction models. Poster presented at UEG 2020. <https://ueg.eu/library/first-results-using-speedboat-tunneling-technique-in-colorectal-submucosal-dissection-clinical-outcomes-and-procedure-time-prediction-models/240928>
6. Cost-effectiveness analysis of Speedboat submucosal dissection in the management of large non-pedunculated colorectal polyps, based on 50 patients. Authors: Amir Ansaripour, Mehdi Javanbakht, Adam Reynolds, Zacharias Tsiamoulos. Data on file.



Creo Medical provides a complete suite of solutions for clinicians and hospitals targeting critical procedures in the field of gastroenterology for therapeutic endoscopy



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