

THE WORLD'S FIRST FULLY-INTEGRATED BIPOLAR AND ULTRASONIC TECHNOLOGY

Rapid cutting and reliable 7 mm vessel sealing from a single surgical instrument.



INTEGRATED BIPOLAR AND ULTRASONIC ENERGY FROM A SINGLE VERSATILE INSTRUMENT

The THUNDERBEAT difference

THUNDERBEAT is the world's FIRST integration of both advanced bipolar and ultrasonic energies, delivered simultaneously from a single, versatile instrument. This integration delivers the widely recognised benefits of each individual energy; the ability to rapidly cut tissue with ultrasonic energy; and the ability to create reliable vessel seals with bipolar energy. THUNDERBEAT features three handle types and four working lengths to meet a variety of surgeons' procedural preferences.

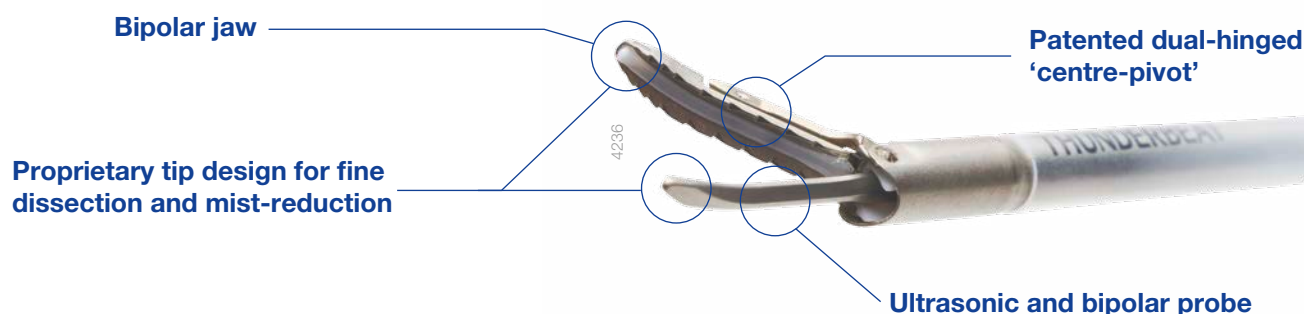
The combination of advanced bipolar and ultrasonic energy in THUNDERBEAT provides unprecedented versatility, including:

- **Reliable 7 mm vessel sealing**
- **Minimal thermal spread**
- **Quickest in-its-class cutting**
- **Reduced mist generation for improved visibility**
- **Fine dissection with fine jaw design**
- **Fewer instrument exchanges**



Revolutionary jaw design

All THUNDERBEAT devices feature a patented centre-pivot jaw design that facilitates fine dissection and generates less mist, improving visibility. This design evenly distributes closing pressures, independent of tissue thickness or type, producing reliable vessel seals and higher grasping and dissecting forces.





4233

Intuitive, easily accessible hand switches

- Intuitive, easily accessible hand switches from various directions allow for stable activation, regardless of hand size or position
- Additional protrusions on 'SEAL' button provide tactile recognition for seamless operational flow



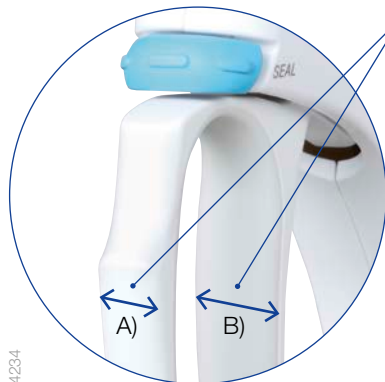
SEAL & CUT

Bipolar energy and ultrasonic energy for reliable vessel sealing and coagulation with simultaneous cutting

SEAL

Advanced bipolar energy for reliable vessel sealing and tissue coagulation without simultaneous cutting

4228



4234




Optimised actuating handle design

- A) Thinner front grip of the actuating handle provides surgeon with direct tactile feedback for blunt dissection
- B) Wider rear grip of the actuating handle provides the stability when grasping and cutting tissue


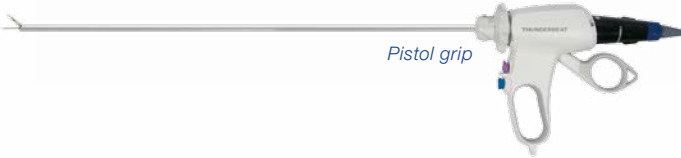
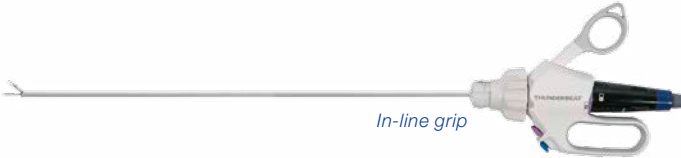
THUNDERBEAT

ORDERING INFORMATION

THUNDERBEAT Instruments for Open Surgery

Order Nr.	Grip	Diameter	Length	Pieces	
N4505730	Scissor	–	9 cm	5/box	 <i>Open Fine Jaw</i>
N4505530	Front-actuated	9 mm	20 cm	5/box	 <i>Open Extended Jaw</i>
N3810730	In-line	5 mm	20 cm	5/box	 <i>In-line grip</i>
N3810830	In-line	5 mm	10 cm	5/box	
N5390230	Front-actuated	5 mm	20 cm	5/box	

THUNDERBEAT Instruments for Laparoscopic Surgery

Order Nr.	Grip	Diameter	Length	Pieces	
N4488930	Front-actuated	5 mm	45 cm	5/box	 <i>Front-actuated grip</i>
N4489130	Front-actuated	5 mm	35 cm	5/box	
N5390230	Front-actuated	5 mm	20 cm	5/box	
N3810330	Pistol	5 mm	45 cm	5/box	 <i>Pistol grip</i>
N3810430	Pistol	5 mm	35 cm	5/box	
N3810530	In-line	5 mm	45 cm	5/box	 <i>In-line grip</i>
N3810630	In-line	5 mm	35 cm	5/box	

Generators and Accessories

Order Nr.	Description
WB91051W	ESG-400* electrosurgical generator
N3808660	USG-400 ultrasonic generator
N3808760	Transducer for THUNDERBEAT
N3809330	Communication cable – short: 0.25 m
N3809630	Docking fixture
WA95623A	Power cable UK plug, 4.5 m (1x)
WA95621A	Power cable EU plug, 4.5 m (1x)

Optional

Order Nr.	Description
N3635730	Energy cart, TC-E400
N3809230	Foot switch for THUNDERBEAT
WB50403W	Foot switch, single (bipolar) pedal
N3809430	Communication cable – long: 10 m**
N3809530	Adapter for the connection to UHI-2 or UHI-3 insufflator**
E0427213	Neutral electrode cable (reusable)

* Including one double-foot switch

** Required for the automatic mist-and-smoke-evacuation function

Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.

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EO-491888 · 2.000 · 10/15 · PR · HB