

TONTARRA



ENDOOR-WAVE
Electrosurgical Units

TONTARRA

ENDOOR-WAVE

Electrosurgical Units

- ▶ Monopolar and bipolar cutting
- ▶ Bipolar resection
- ▶ Vessel Sealing (additional feature of ENDOOR-WAVE II)
- ▶ For Multi Disciplinary Use, e.g. Surgery, Gynecology, Urology

FEATURES:

- ▶ Optimized Programs for Various Clinical Applications
- ▶ Tissue Impedance Technology - Self-adjusting output power
- ▶ Resection and Coagulation in Saline Solution
- ▶ Touch Screen (8“) with „Touch ON/OFF function“
- ▶ Display of Effect/Level with corresponding power output (W)
- ▶ Simple and Intuitive User Interface
- ▶ Return Electrode Monitoring system
- ▶ Storage of Individual User Settings (up to 99 memories)



MONOPOLAR



Pure Cut
400W/500Ω



Blend1
250W/400Ω



Blend2
200W/400Ω



Blend3
150W/400Ω



Polypectomy
Level 4



Soft
100W/50Ω



Contact
120W/300Ω



Spray
100W/500Ω



Argon Coag
100W/500Ω
*only with additional
Argon device

BIPOLAR



Bipolar Cut
120W/500Ω



Bipolar blend
100W/500Ω



Standard
100W/100Ω



Auto Start
100W/100Ω



Forced
80W/100Ω

EndoorWave I



TURP
Level 1~9



EndoorWave II



TURP
Level 1~9

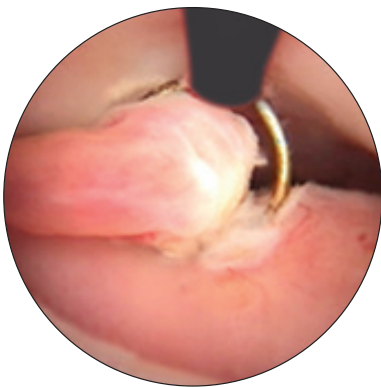


Seal
Level 1~5

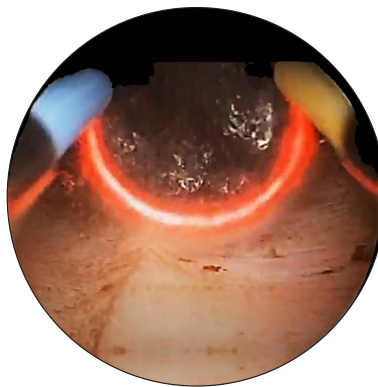
For bipolar resection in Urology and Gynecology a powerful HF-Generator is required since the electrical impedance of saline solution is significantly lower than in tissue.

Compared to monopolar resection, the operating temperature is drastically reduced which means lower thermal spread, thus reduced stimulation of the nerves.

The volumetric reduction of the tissue is not created by a thermal process but due to the plasma action with molecular disintegration at low temperatures and minimal production of necrosis surrounding the treated areas.

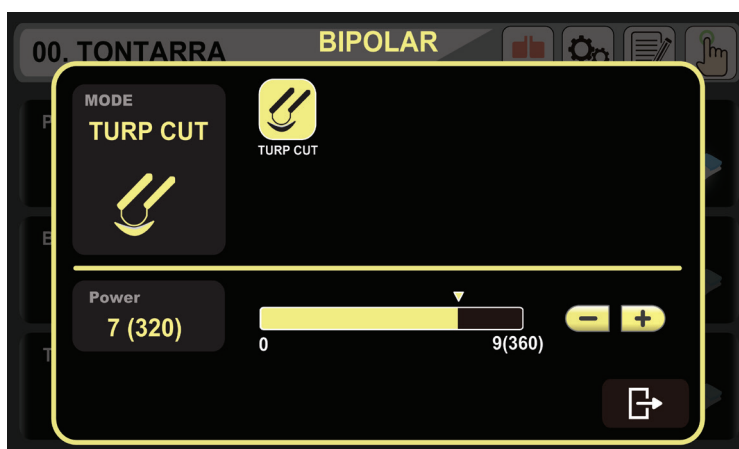


Uterine polyp resection



TURP

EndoorWave was specially developed for optimal power output in Bipolar Resection with high efficiency using low levels (power).



Indication of level including the corresponding output power in W.

540-220-00

EndoorWave I Electrosurgical Unit

Features:

- for bipolar resection
- for monopolar and bipolar applications
- incl. twin-pedal



540-230-00

EndoorWave II Electrosurgical Unit

Features:

- for vessel sealing
- for bipolar resection
- for monopolar and bipolar applications
- incl. twin-pedal



TECHNICAL DATA

Power requirement 100 - 240 V~, 50/60 Hz

Power Output 400 W

Carrier Frequency 333 ~ 727 kHz

Power Consumption 800 VA

Protection Class Class I, Type CF

MDD 93/42/EEC Class II B

Dimension 390 x 395 x 160 mm

Weight 11 kg

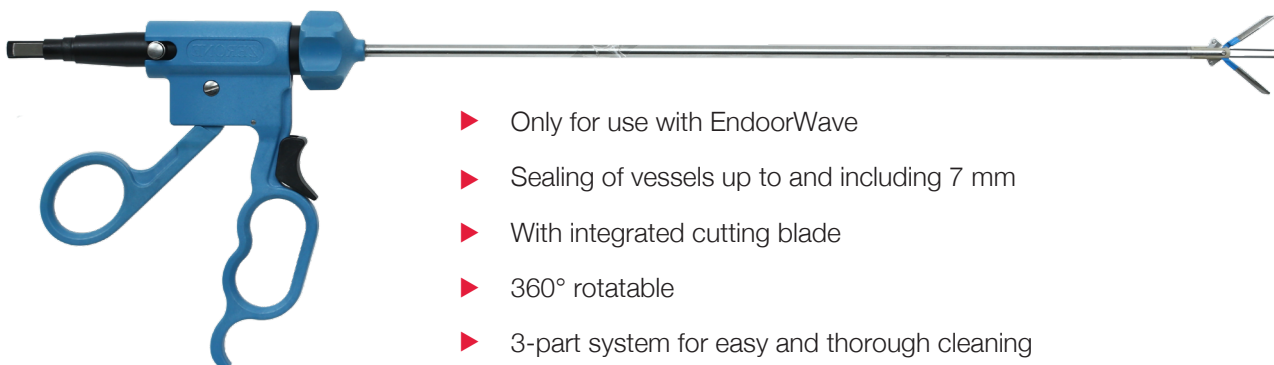
Characteristics

- > Technology of Tissue Impedance
- > Return Electrode Monitoring System
- > Self Test before booting up

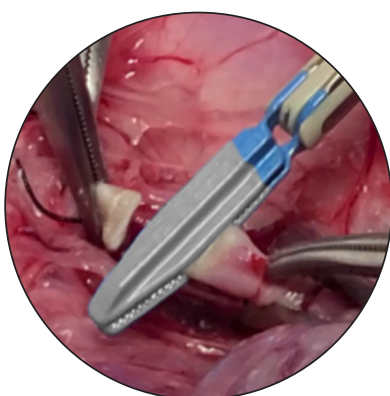
Original Manufacturer Equipment of ZERONE

VesTON

Bipolar Instruments for Vessel Sealing and Dissection



- Only for use with EndoorWave
- Sealing of vessels up to and including 7 mm
- With integrated cutting blade
- 360° rotatable
- 3-part system for easy and thorough cleaning
- Guaranteed sharpness with disposable cutting blade
- For multiple applications in Laparoscopy and Open Surgery
- Cost-effective and sustainable solution due to (almost fully) reusable design



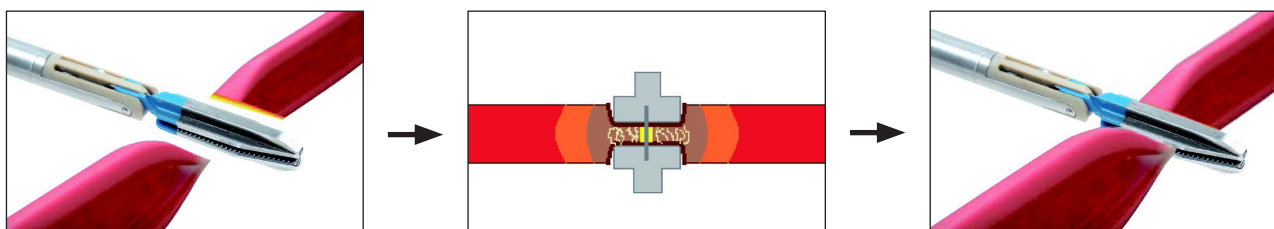
Vessel sealing technology uses pressure and energy to seal vessels and offers major advantages in the field of laparoscopic surgery.

Bipolar Vessel Sealing is an electrosurgery technology for sealing blood vessels. It enables permanent sealing of large blood vessels and bundle of tissues during open and laparoscopic surgery.

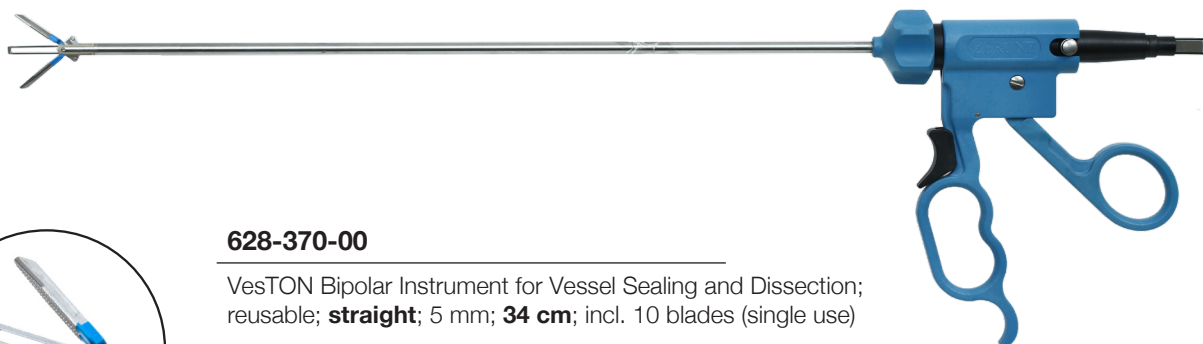
Based on Technology of Tissue Impedance, as soon as sealing in the tissue has been completed, the AUTO STOP function blocks the current flow. The tissue is now denatured and sealed, and the collagen fibers are linked without damage.

Working principle:

Fusing the vessel with electrosurgical energy working by foot switch and cut with mechanical blade working by trigger of the instrument.



► VesTON Bipolar Instruments for Vessel Sealing and Dissection



628-370-00

VesTON Bipolar Instrument for Vessel Sealing and Dissection; reusable; **straight**; 5 mm; **34 cm**; incl. 10 blades (single use)

628-375-00

VesTON Bipolar Instrument for Vessel Sealing and Dissection; reusable; **straight**; 5 mm; **25 cm**; incl. 10 blades (single use)



628-380-00

VesTON Bipolar Instrument for Vessel Sealing and Dissection; reusable; **Maryland curved**; 5 mm; **34 cm**; incl. 10 blades (single use)

628-385-00

VesTON Bipolar Instrument for Vessel Sealing and Dissection; reusable; **Maryland curved**; 5 mm; **25 cm**; incl. 10 blades (single use)



628-390-15

VesTON Blades; single use; box of 10 pieces



HF Connection Cables

monopolar

Available for following units:

		TONTARRA mod. EndoorWave and PWT-400; Equipment with banana plug; Ø 4.0 mm; 3.0 m	582-533-04
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HF Connection Cables

bipolar; for Electrodes

Available for following units: (length)

 flat plug		US-Models; 2-pins/unit side banana plugs; Ø 4.0 mm	287-210-30 (3m)
		TONTARRA mod. EndoorWave and PWT-400; Valleylab; International Models; 2 pins; Ø 4.0 mm	287-210-50 (5m) 287-215-30 (3m) 287-215-50 (5m)

HF Connection Cables

bipolar; for TONTARRA Resectoscopes

Available for following units:

		TONTARRA mod. PWT-400; International Models; 2-pins 3.0 m	287-215-30BR
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HF Connection Cables

for Neutral Electrodes

Available for following units:

	 10 mm 2.5 mm	BOWA; Conmed; Valleylab 5.0m	289-030-45
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289-010-10

Single-use neutral electrode; for adults and children;
split; Acond*= 110 cm²; 1 PU= 100 pieces



289-010-05

Single-use neutral electrode; for adults and children;
non-split; Acond*= 110 cm²; 1 PU= 100 pieces



540-235-00

Twin-pedal footswitch

Mode			Output Power	Carrier Frequency	Crest Factor	Repeat Frequency
BASIC	Cut	Pure Cut	400W / 500 Ω	400kHz	1.4	Continuous
		Blend 1	250W / 400 Ω	400kHz	1.7	33kHz
		Blend 2	200W / 400 Ω	380kHz	2.1	27 kHz
		Blend 3	150W / 400 Ω	380kHz	2.6	27 kHz
	Coagulation	Soft	100W / 50 Ω	400kHz	1.6	Continuous
		Contact	120W / 300 Ω	727 kHz	5.4	23kHz
		Spray	100W / 500 Ω	400kHz	5.7	33kHz
		Argon	100W / 500 Ω	400kHz	5.7	33kHz
	Bipolar Cut	Bipolar Cut	120W / 500 Ω	500kHz	1.4	Continuous
		Bipolar Blend	100W / 500 Ω	500kHz	2.2	33kHz
	Bipolar Coagulation	Standard	100W / 100 Ω	500kHz	1.4	Continuous
		Auto Start	100W / 100 Ω	500kHz	1.4	Continuous
		Forced	80W / 100 Ω	500kHz	2.2	33kHz
	Endo Cut	Polypectomy	Max. Output Power (Cut phase): 350 W at 500 Ω Max. Output Power (Coag. phase): 100 W at 50 Ω Rated Frequency: 350 kHz			

Model	Repeat Frequency
EndoorWave I Electrosurgical Unit with TURP	Max. Output Power (TURP Cut): 360 W at 200 Ω Max. Output Power (TURP Coag.): 180 W at 50 Ω Rated Frequency: Cut 350 kHz; Coag.: 50 kHz Crest Factor: 1.4
EndoorWave II Electrosurgical Unit with TURP & Vessel Sealing	Max. Output Power: 300 W at 25 Ω Rated Frequency: 400 kHz Crest Factor: 1.4

TONTARRA Medizintechnik GmbH is certified in accordance with the European Medical Device Regulation (EU) 2017/745 and complies with the requirements of the Medical Device Single Audit Program (MDSAP).

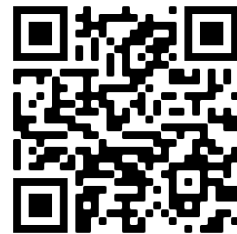
This certification affirms our commitment to quality and safety standards in the design, manufacturing, and distribution of our medical devices. As a result, we are authorized to affix the CE mark to our products within the scope outlined in our certificates, which can be accessed on our official website. This achievement reflects our dedication to delivering high-quality, compliant medical devices to our customers and underscores our adherence to the rigorous standards set forth by regulatory authorities.

Sales and availability of products are limited to registrations in the corresponding markets.

The products listed in this catalog may only be used by trained healthcare professionals, evaluating the proper application in each patient case.

This content does not replace the instruction for use of the product.

Indications, contraindications and warnings are specified in the corresponding instructions for use.



The current digital e-catalogues
can be found on our website:
<https://tontarra.de/en/products/e-catalogues>

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