





Company Profile

Welcome to ENERTECH

Enertech healthcare is the market leader and leading manufacturer of Electrosurgical, Endoscopy and LED operation lights in India. Enertech healthcare is a division of Enertech Pvt. Ltd, established in 1988. Enertech healthcare is well-known for its high quality products, practical usability and commitment for delivering the best prices you can find anywhere. It's costeffective prices leads the way in the International market and it endeavors to become the "hidden champion" among the global Manufacturers. Enertech's

The strength of organization is in it's strong "Research and developments " capabilities. The group of engineers work together to develop products which are easy to use, having excellent performance and reliability.

The amazing results are the creation and expertise in three broad division of Surgical products like :-

- **Electro-Surgical Division** covering Vessel Sealing system, Electrosurgical generators.
- Endoscopy division: Consisting of Co2 insufflators, LED Light Source etc.
- LED Operation Theater lights division.

Enertech has been providing the Electrosurgery products where performance, precision and versatility matters!!! The Endoscopy products are fully featured and compact. The LED operation theater lights are very rful, with pure white sunlight color temperature, high Intensity lights and wide selection range.

valuate our products and join our large list of esteemed customers and distributors.







The Chairman and MD of Enertech - Mr Chetan Shah receiving rare and prestigious

Chetan Shah receiving rare and prestigious honorary award from Dr. Shankar Dayal Sharma-President of India, at Raj Bhavan, Governor's palace, for excellent contribution to India in the field of Research Development and Manufacturing.

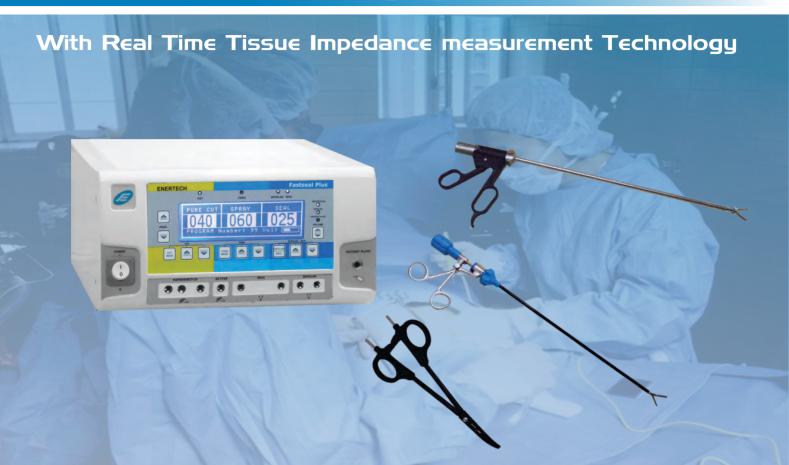
Certificates



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Enertech Vessel Sealing system gives you something that no other electrosurgical tool can-permanent vessel occlusion. This revolutionary technology replaces almost all other hemostatic tools because it doesn't just ligate vessels, it actually fuses vessel walls to create a permanent seal.

Across the range, Enertech Vessel Sealing technology delivers a unique combination of pressure and energy to create a consistent seal with each application :-

- ➤ Shorter operating time Save almost upto 75 % operating time.
- > Permanently fuses vessels upto and including 7mm diameter and tissue bundles without dessication or isolation.
- Faster and safer patient recovery.
- > Seals withstand 3 times normal systolic blood pressure.
- > Uses bodies own collagen, no requirement to insert foreign material into patient body which can cause complications.
- > Feedback controlled response system automatically discontinues energy delivery when the seal is complete, eliminating the guess work.

Each of the devices comprises with high power and low voltage bipolar mode and specialist instruments that combine tissue compression with tissue heating to produce hemostasis in veins or a bundle of tissue.

The Product is delivered through a variety of Instruments for use in both Laparoscopic and open procedures in a range of surgical specialties, including gynecological, colorectal, urology and general surgery.

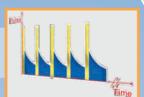


Fast Seal Plus

Real Time Tissue Impedance Measurement With Auto - Stop

During the sealing process, the Impedance of the tissue changes. The machine constantly adjusts and changes the power delivery waveform in direct accordance to this change in tissue impedance and stops power delivery automatically on reaching at a pre-determined optimum end - point. The power delivery ends with a stop in audible sound indicating that the sealing has been successfully

Endo cut mode Time-controlled cutting mode





Outputs

Technical Specification

99 Programs Memory

Display

: Graphical LCD

Dimension (W x H x D)

: 300mm x 150mm x 340mm

Weight

: 5.5 Kg.

Manufactured and tested

: IEC 601-1 / EN60601-1 acc. to std.

Input Supply Voltage

: 230 VAC + 15% @ 50/60 Hz (110 V optional.)

Technical Specification

Monopolar Mode :-

Cut

Mode	Max. Power Watt	Operating Frequency
Pure cut	400 W	480 khz
Blend 1	250 W	480 khz
Blend 2	200 W	480 khz
Endocut	99 W	480 khz

Coag

Mode	Max. Power Watt	Operating Frequency
Spray	120 W	480 khz
Fulgurate	150 W	480 khz
Dessicate	150 W	480 khz



Best in class sealing performance

Enertech systems offers best in class performance with superior sealing quality at lower and optimum power and thermal levels. The seals are safer, more white, stronger and easy to dissect.



Sealing Performance

Lowest Lateral Spread and safer and more white seal

The premium quality of machine and instruments ensures that the system offer lowest lateral spread, causing less thermal spread and causing lower levels of charring and dessication. This also ensures a better quality white seal, and least damage to tissue with faster recovery.



Lowest Lateral Spread and safer and more white seal

Accessories contact quality detection System

Be asured of the proper functioning of the accessories with constant detection and indication of accessories conductivity. The display indicates failure in case of compromised functioning or deterioration.

Vessel Sealing Instruments

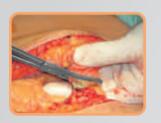
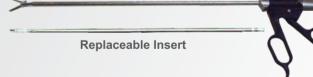


Fig. 1:The example above shows two parallel sealing actions performed on a tissue bundle. As can be seen,the sealing process changes the nature of the tissue, which typically takes on a parchment-like appearance.



Fig. 2: The sealed tissue bundle shown in Fig. 1 is simply cut off with a pair of surgical scissors, without any need for additional ligatures or clips.

Reusable 5.5 mm Laparoscopy Instrument with Replaceable insert German Quality



Reusable 5.0 mm Laparoscopy Instrument without Replaceable insert



Technical Specification

Bipolar Modes:-

Mode Max. Power Watt Operating Frequency
Bi-Coag 120 W 480 khz
Bi-Cut 120 W 480 khz

Mode	Max. Power Watt	Operating Frequency
Seal	150 W	480 khz



Maxseal

- **➤** Touch Screen operation.
- ➤ Patient plate conductivity monitoring system (PP CMS)
- ➤ Accessories contact detection during plug-in and operation
- ➤ Multiple Modes 1 Pure Cut, 1 Precise Cut, 5 Blend, 3 Endo Cut, 2 Spray, 2 Fulgurate, 1 Dessicate
- ➤ 1 Bi-Cut, 2 Bi-Coag and 1 Seal Mode
- > 100 Programs memory



Technical Specification

Monopolar Modes:

Mode	Max. Power Watt	Rated Load (Ohms)	Program	Operating Frequency
Pure Cut	400 W	500	100	480 khz
Precise Cut	300 W	500	100	480 khz
Blend 1	250 W	500	100	480 khz
Blend 2	225 W	500	100	480 khz
Blend 3	200 W	500	100	480 khz
Blend 4	175 W	500	100	480 khz
Blend 5	150 W	500	100	480 khz
Endo Cut 1	150 W	500	100	480 khz
Endo Cut 2	100 W	500	100	480 khz
Endo Cut 3	75 W	500	100	480 khz

Mode	Max. Power Watt	Rated Load (Ohms)	Program	Operating Frequency
Coarse Spray	120 W	500	100	480 khz
Fine Spray	100 W	500	100	480 khz
Coarse Fulgurate	150 W	500	100	480 khz
Fine Fulgurate	150 W	500	100	480 khz
Dessicate	150 W	500	100	480 khz

Bipolar Modes:

Mode	Max. Power Watt	Rated Load (Ohms)	Program	Operating Frequency
Bi - Cut	120 W	500	100	480 khz
Macro	120 W	500	100	480 khz
Micro	80 W	500	100	480 khz

Sealer Mode:

Mode	Max. Power Watt	Max. Short Circuit Current	Peak to Peak Voltage	Operating Frequency	Crest Factor
Seal	150 W	4.4 Amps	700 (350)	480 khz	1.5

100 Programs Memory

Interface Dimension (W x H x D)

Weight

Manufactured and tested

Input Supply Voltage

: Touch screen

: 300mm x 150mm x 340mm

: 5.5 Kg

: IEC 601-1 / EN 60601-1

acc. to std.

: 230 VAC + 15% @ 50/60 Hz (110 V optional)



Illustration of Vessel







Technical Specifications

Display : Graphical LCD Display Dimension (W x H x D) : 290mm X 110mm X 300mm

Weight : 3 kg

Keyboard : Feather Touch

Manufactured and tested : IEC 601-1 / EN 60601-1

acc. to std.

Input Supply Voltage : 230 VAC + 15% @ 50/60 Hz

(110 V optional)

Sealer Modes:

Mode	Max. Power Watt	Max. Short Circuit Current	Peak to Peak Voltage	Operating Frequency	Crest Factor
Soft	150	4.4 Amps	560 (280)	480 khz	1.5
Force	150	4.4 Amps	700 (350)	480 khz	1.5

Bipolar Modes:

Mode	Max. Power Watt	Max. Short Circuit Current	Peak to Peak Voltage	Operating Frequency	Crest Factor
Bi-Coag	120	2.2 Amps	560 (280)	480 khz	1.5
Bi- Cut	120	2.2 Amps	620 (310)	480 khz	1.5

23 Procedures selection menu.

Specific modulated outputs for all proceduresacross all specialities for unmatched superior performance.

Bisealer



Technical Specifications

Display : 7 segment LED

Dimension (WxHxD) : 290 mm x 110 mm x 300 mm

Weight : 3 kg

Keyboard : Feather Touch

Manufactured and tested : IEC 601-1 / EN 60601-1

acc. to std.

: 230 VAC + 15% @ 50/60 Hz **Input Supply Voltage**

(110 V optional)

Sealer Modes:

Mode	Max. Power Watt	Max. Short Circuit Current	Peak to Peak Voltage	Operating Frequency	Crest Factor
Soft	150	4.4 Amps	560 (280)	480 khz	1.5
Force	150	4.4 Amps	700 (350)	480 khz	1.5

Bipolar Modes:

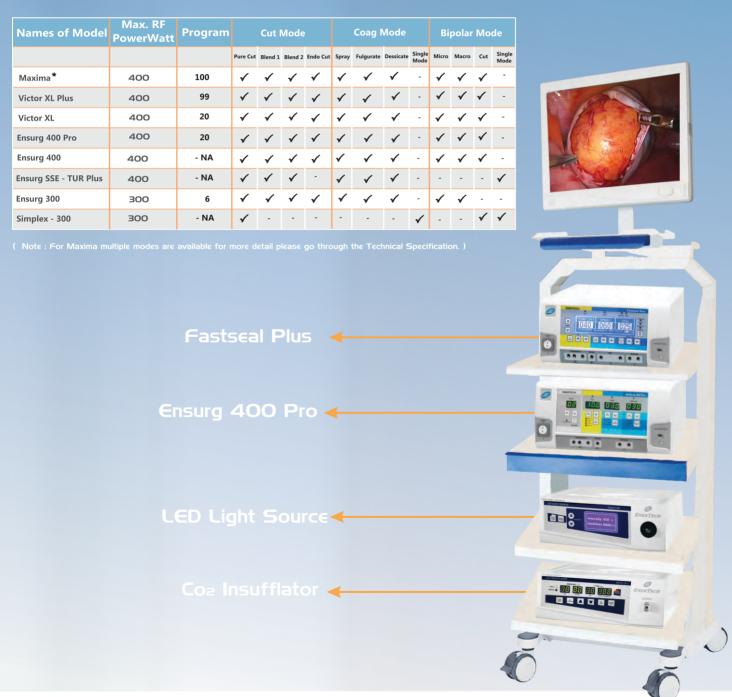
Mode	Max. Power Watt	Max. Short Circuit Current	Peak to Peak Voltage	Operating Frequency	Crest Factor
Macro	120	2.2 Amps	560 (280)	480 khz	1.5
Micro	80	2.2 Amps	480 (240)	480 khz	1.5
Force	120	2.2 Amps	620 (310)	480 khz	1.5



Electro Surgical Generators

Latest Generation Technology Reliability and High Performance

Enertech providing it's widest range of high performance state of the art COST EFFECTIVE Electro Surgical Generators available today in the market. The machines come with Instant Tissue response technology and Tissue impedance measurement systems. These models offer top of the line features like 99 program modes, multiple blend modes, endocut facility, best monopolar cutting and coagulation performance with precision controlled bipolar output and host of safety features with adherence to EC 60601 guidelines. The range also includes low cost analog models for price conscious customers.





Electro Surgical Generators

Maxima

Touch Screen operation, patient plate conductivity monitoring system (PP-CMS). Accessories contact detection during plug -in and operation. Multiple Modes - 1 Pure cut , 1 Precise Cut , 5 Blend , 3 Endo Cut, 2 Spray, 2 Fulgurate , 1 Dessicate, 1 Bi-cut, 2 Bi- coag modes & 100 programs Memory.

Technical Specifications:

Max Power : 400 W Interface : Touch Screen Programs : 100

Monopolar Cut Modes : 2 Cut, 5 Blend, 3 Endo Cut
Monopolar Coagulation Modes : 2 Spray, 1 Dessicate, 2Fulgurate
Bipolar Modes : 1Bi-Cut, 2 Bi-Coag

Tissue Response Circuit : Present
Patient Plate Monitoring System : Present

Dimension (WxHxD) & Weight : 300mm x 150mm x 340mm &5.5kg



Victor XL Plus

Victor XL Plus is a top of the line micro controller based model with 99 programs, high speed tissue response circuit and host of modes and superior bipolar performance for the customers who demand the best.



Max Power : 400 W

Display : 7 Segment Digital

Programs : 99

Monopolar Cut Modes : Pure Cut, Blend1, Blend2, Endo Cut

Monopolar Coagulation Modes: Spray, Dessicate, Fulgurate

Bipolar Modes : Micro, Macro, Cut

Tissue Response Circuit : Present Patient Plate Monitoring System: Present

Dimension (WxHxD) & Weight : 300mm x 150mm x 340mm & 5.5 Kg.

Technical Specifications

Victor XL

Victro XL is a high performance micro controller based model With 20 programs with host of features and modes for all around superior capabilities. This is the right model for the customers who require all the features and controls at a reasonable price.

Technical Specifications :-

Max Power : 400 W
Display : 7 Segment Digital
Programs : 20
Monopolar Cut Modes : Pure Cut, Blend1, Blend2, Endo Cut
Monopolar Coagulation Modes : Spray, Dessicate, Fulgurate

Bipolar Modes : Micro, Macro, Cut
Tissue Response Circuit : Present
Patient Plate Monitoring System : Present

Dimension (WxHxD) & Weight : 300mm x 150mm x 340mm & 5.5 Kg.





Electro Surgical Generator

Ensurg 400 Pro

Ensurg 400 Pro is a micro controller based model with all the required features. Full power output at low cost. This is the right model for the customers who required basic 400W micro controller based model with 20 programs.

Technical Specifications :-

Max Power : 400 W

Display : 7 Segment Digital

Programs : 20

Monopolar Cut Modes : Pure Cut, Blend1, Blend2, Endo Cut

Monopolar Coagulation Modes : Spray, Dessicate, Fulguration

Bipolar Modes : Micro, Macro, Cut

Tissue Response Circuit : Present Patient Plate Monitoring System : Present

Dimension (WxHxD) & Weight : 300mm x 150mm x 340mm & 5.5 Kg.



Ensurg 400

Ensurg 400 is a micro controller based model with all the required features. Full power output at low cost. This is the right model for the customers who required basic 400W micro controller based model.



Max Power : 400 W

Display : 7 Segment Digital

Programs : NA

Monopolar Cut Modes : Pure Cut, Blend1, Blend2, Endo Cut

Monopolar Coagulation Modes : Spray, Dessicate, Fulguration

Bipolar Modes : Micro, Macro, Cut

Tissue Response Circuit : Present Patient Plate Monitoring System: Present

Dimension (WxHxD) & Weight : 300mm x 150mm x 340mm & 5.5 Kg.

Technical Specifications

Ensurg SSE - TUR Plus

Ensurg SSE- TUR is a 400W analog model with number of cut, blend and coagulation modes with to do under water surgery. This is the model with all around capabilities and simple of operation. It is the lowest cost model in similar class available today in the market.

Technical Specifications:

Max Power : 400 W Programs : NA

Monopolar Cut Modes : Pure Cut, Blend1, Blend2
Monopolar Coagulation Modes : Spray, Dessicate, Fulguration

Bipolar Modes : Coag
Tissue Response Circuit : NA
Patient Plate Monitoring System : Present

Dimension (WxHxD) & Weight : 300mm x 150mm x 340mm & 5.5 Kg





Electro Surgical Generator

Ensurg 300

Ensurg 300 is micro controller based model with 6 programs, best price performance ratio in similar class of generators offered by other manufactures and can be widely used in procedures including urology, Gl, Gynecologic, Orthopedic, Thoracic and Plastic Surgery.

Technical Specifications:

Max Power : 300 W
Display : 7 segment Digital
Programs : 6
Monopolar Cut Modes : Pure Cut, Blend 1, Blend 2, Endo Cut
Monopolar Coagulation Modes : Spray, Dessicate, Fulgurate

Bipolar Modes : Micro, Macro
Tissue Response Circuit : Present
Patient Plate Monitoring System : Present

Dimension (WxHxD) & Weight: 300mm x 150mm x 340mm & 5.5 Kg.



Simplex - 300

Simplex 300 is a 300W analog model with basic cut, coag and bipolar modes with capability of doing most of the surgeries with lowest price



Max Power : 300 W Programs : NA

Monopolar Modes : Cut, Coagulation
Bipolar Modes : Cut, Coag
Tissue Response Circuit : NA
Patient Plate Monitoring System: NA

Dimension (WxHxD) & Weight : 3.5" x 13" x 12" & 3 Kg.

Technical Specifications

STANDARD ACCESSORIES

Monopolar Double Pedal Footswitch / Bipolar Single Pedal Footswitch





Patient Plate with Cable Cord
Autoclavable





Bipolar Forcep Autoclavable with cable



Chuck Handle with Electrodes Autoclavable



Disposable Hand Switch Pencil -Imported







Endoscopy Products

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