



ESS-MAXSEAL

Vessel Sealing System with Touchscreen



OPERATING THEATRE

PROGRAM
Programm



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ESS-MAXSEAL – Vessel Sealing System

The revolutionary technology of the ESS-MAXSEAL replaces almost all other haemostatic tools because it doesn't just ligate vessels, it fuses vessel walls in order to create a permanent seal.

Across the range, the Vessel Sealing technology delivers a unique combination of pressure and energy to create a consistent seal with each application : Shorter operating time - save almost up to 75% operating time. Permanently fused vessels up to and including 7 mm diameter and tissue bundles without desiccation or isolation.

Faster and safer patient recovery. The seals withstand 3 times more the normal systolic blood pressure. It uses bodies own collagen, is not required the insert foreign material into patient body which can cause complications. Automatic controlled response system when the seal is complete.

Each device is provided with high power and low voltage bipolar mode and specialist instruments that combine tissue compression with tissue heating to produce haemostasis 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 gynaecological, colorectal, urology and general surgery.

Performance Features :

- 100 programs memory:**
 100 programs memory to save all desired settings for all different cases. Recall on program selection. Touch screen display.
- Patient plate conductivity monitoring system (PP - CMS) :**
 The advanced monitoring system gives a Real Time indication of the quality of the conductivity via the patient plate. There are 3 indicators.
 H = High contact and good conductivity.
 M = Medium Contact and medium conductivity.
 L = Low contact and poor conductivity.
 This feature enables the monitoring of contact quality and hence significantly reduces the chances of plate failure resulting in burns
- Accessories contact detection during plug in and operation :**
 Accessories are detected during plug in and indicator for the footswitch turns red with words "FS" indicating that the same are ready for operation. During Press mode the indicator turns green showing which mode has been activated, reducing chances of wrong mode operation.
- Multiple modes for superior functionality :**
 Multiple Modes - 2 Cut modes, 5 Blend modes, 3 EndoCut modes, 2 Spray modes, 2 Fulgurate modes, 1 Dessicate mode, 1 Bi-Cut mode, 2 Bi-coag mode and 1 Seal mode for all types of procedures and all types of desired settings for superior performance.



Technical Specifications :

• Monopolar Modes:

Mode	Max. Power (Watts)	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
Endocut 1	150 W	500	100	480 khz
Endocut 2	100 W	500	100	480 khz
Endocut 3	75 W	500	100	480 khz
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
Desiccate	150 W	500	100	480 khz







• Bipolar Modes:

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

Standard Accessories :

<p>Monopolar Double Pedal Footswitch / Bipolar & Seal Double Pedal Footswitch</p> 	<p>Autoclavable Patient Plate With Cable Cord</p> 	<p>Silicon Patient Plate (Optional)</p> 
<p>Chuk Handle With Electrode Autoclavable</p> 	<p>Autoclavable Bipolar Forcep With Cable</p> 	<p>Disposable Hand Switch Pencil Imported</p> 

Sealer Accessories :

<p>Reusable 5.5 mm Laparoscopy Instrument (With Changable Insert)</p> 	<p>Reusable 5.0 mm Laparoscopy Instrument (With Fixed Insert)</p> 	<p>Reusable Biclamp for Open Surgery</p> 
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CUT

Pure Cut	- 400 W
Precise Cut	- 300 W
Blend 1	- 250 W
Blend 2	- 225 W
Blend 3	- 200 W
Blend 4	- 175 W
Blend 5	- 150 W
Endo Cut 1	- 150 W
Endo Cut 2	- 100 W
Endo Cut 3	- 75 W

COAG

Coarse Spray	- 120 W
Fine Spray	- 100 W
Coarse Fulgurate	- 150 W
Fine Fulgurate	- 150 W
Dessicate	- 150 W

BIPOLAR

Bi-Cut	- 120 W
Macro	
Micro	- 80 W

100 Programs Memory

SEAL

Seal - 150 W



Monopolar Handswitches Output

Active Monopolar Output

Bipolar Output

Patient Plate Input

Seal Output



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