

SURTRON TOUCH *HP*

ELECTROSURGICAL UNIT

*ONE TOUCH,
MANY SURGERIES.*





100% *MADE IN ITALY*

WE FOLLOW THE PRODUCTION PROCESS, FROM INITIAL
CONCEPT TO THE FINAL PRODUCT, ENTERELY IN OUR FACTORY.

LED SpA is a company that specialises in
design and manufacture of medical equip-
ments.

LED brand achieved wide prestige in the
electrosurgery field worldwide. The com-
pany grew by using innovative manufactu-
ring methods and by investing in reasearch
and development of new technologies.

The design and the production effected
inside its own factory guarantee an eleva-
ted quality and safety of the products.

LED SpA's mission is to continuously rese-
arch and develop new electrosurgical pro-
ducts, in the aim to improve the quality of
the surgeons work.

LED[®] ELECTROSURGERY





PERFORMANCE
USABILITY
DESIGN
RELIABILITY

SURTRON® TOUCH HP, *the new generation of the electrosurgery.*

Performance, usability, design and reliability: these are the strengths of the new **SURTRON TOUCH HP**. A radiofrequency generator suitable for microsurgery and precise surgery in monopolar and bipolar modality.

The initial setup of **SURTRON TOUCH HP** and the adjustment of settings during a surgery are easily selectable through the large touchscreen.

The simplicity of the **SURTRON TOUCH HP** allows you to use it without any learning time, resulting in time savings.



A black and white photograph showing two hands, one bare and one wearing a surgical glove, holding a surgical handpiece. The handpiece has two circular buttons on its handle. The background is dark.

WHAT'S NEW

Two surgeons can work simultaneously and integrated Argon unit.

Over 35 years of experience in electrosurgery field and the continuous technical research have led to the design of **SURTRON TOUCH HP**. A new generation of technologically and functional features

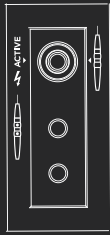
- Simultaneous activation of Monopolar and Bipolar
- Contemporary dual monopolar
- Contemporary dual bipolar
- Integrated ARGON unit
- Power control depending on impedance
- Activating power with pedal and / or handpiece
- Neutral-patient electrode contact control
- Cutting function under saline solution TUR
- Modular cut in wet conditions BLEND
- VESSEL SEALING to clamp vessels up to 7 mm
- Possibility of use for minimally invasive surgery
- Monopolar / Bipolar functions
- Autostart / Autostop in Bipolar modality
- Adjusting the intensity of the sound
- Underwater Cutting and Coagulation

MONOPOLAR

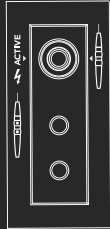
NEW LAYOUT

BIPOLAR

MONO 1



MONO 2



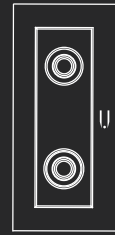
ARGON



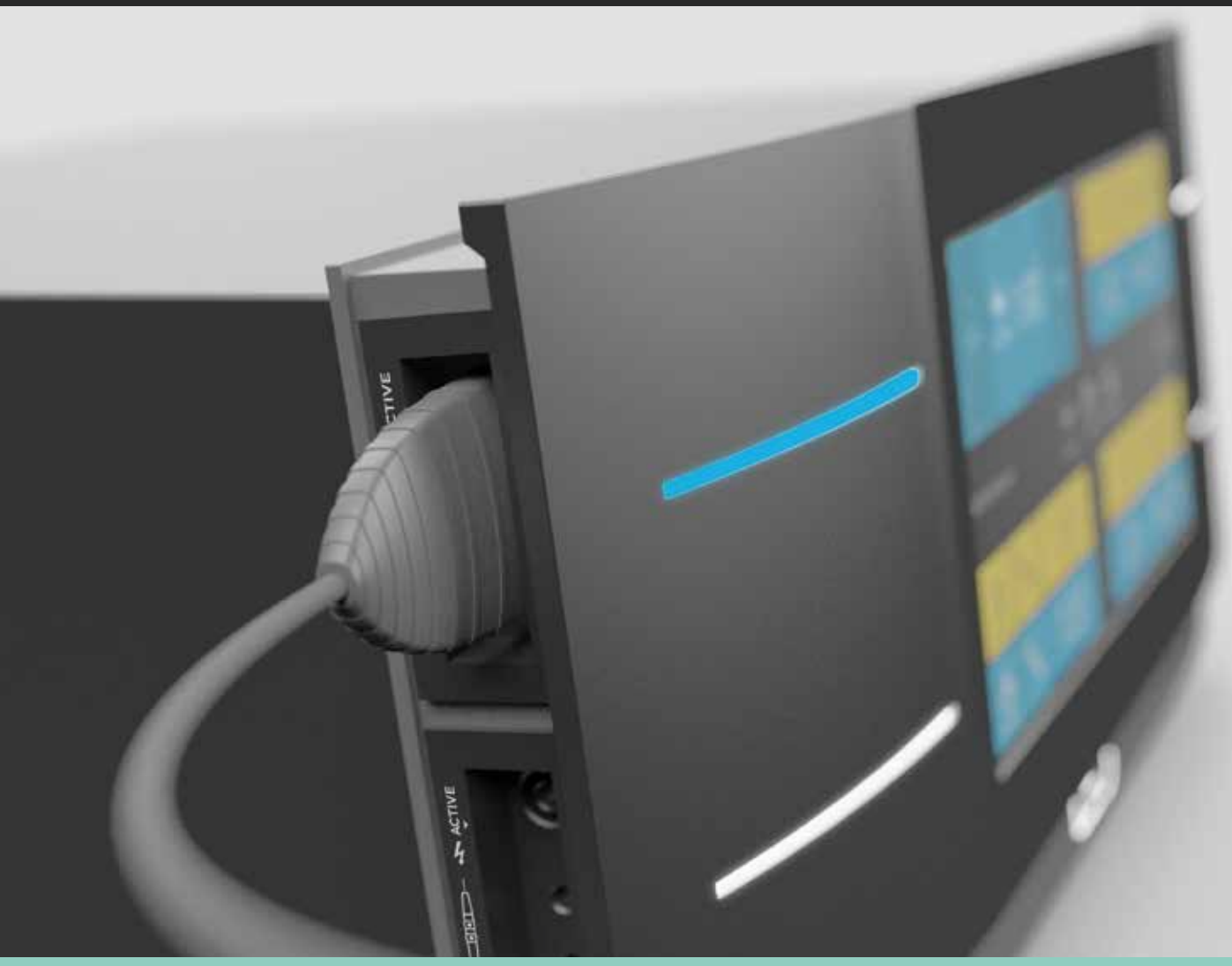
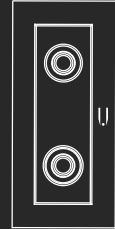
NEUTRAL
ELECTRODE



BIPO 1



BIPO 2



An intuitive and logic work enviroment

SURTRON TOUCH HP has a particularly basic and intuitive work environment.

Horizontal matching between monitors, RGB light indications and connectors provides a clear and easy-to-read overview.

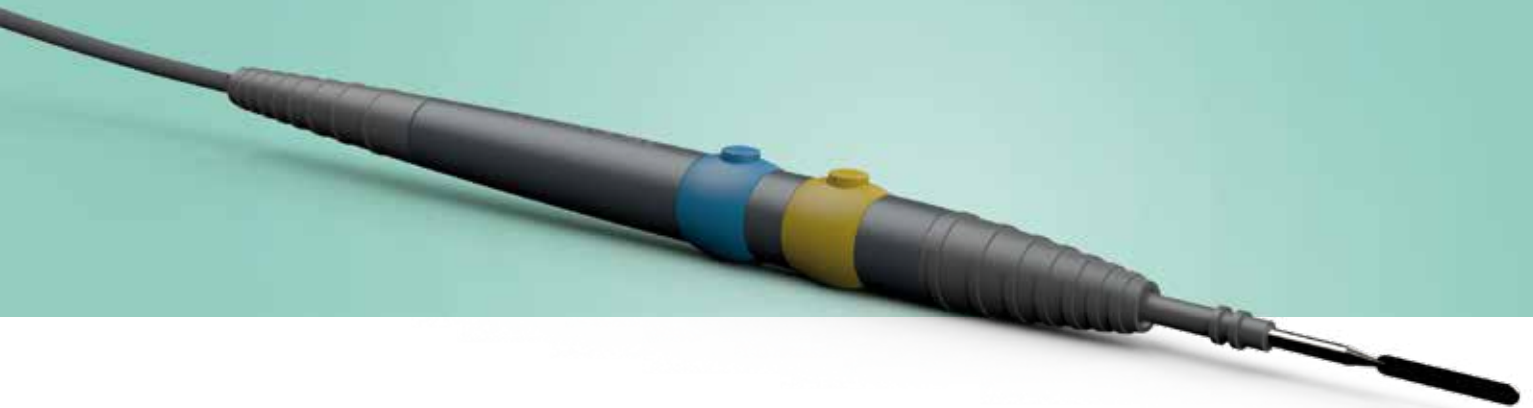
The accessories sockets are laterally placed, allowing you to control important information without disturbances such as connectors and attached accessories cables.

The large 9 "touchscreen touchscreen gives rise to a sleek flat front design and ensures faster and more efficient cleaning in the operating room.



Design Award

SURTRON TOUCH HP was awarded for its design with the ADI Design Index and the prize "Eccellenze del Design".



STATE OF THE ART DEVICE



SURTRON TOUCH HP has a 9" capacitive touchscreen display with an intuitive user interface.

SURTRON TOUCH HP enables highly professional surgery with ergonomic and safety solutions. The connection of the neutral electrode is continuously monitored; if a split neutral plate is used, the device will monitor the contact between the patient and the electrode. The possibility to switch the functions and to set the supply of the power from the handpiece allows the execution of interventions without distracting attention from the operating range.



25% LIGHTER

SURTRON TOUCH HP has a total weight of 13.5 kgs, 25% less than the previous generation.

CUT

MONOPOLAR



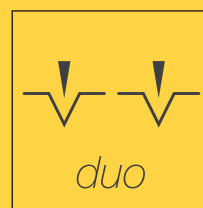
400 W-300 Ω



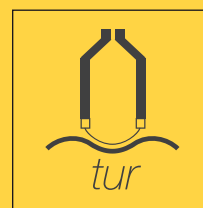
250 W-300 Ω



250 W-200 Ω



200 W+200 W
300 Ω

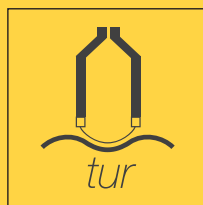


300 W-300 Ω

BIPOLAR



150 W-50 Ω



300 W-300 Ω



50 W-50 Ω

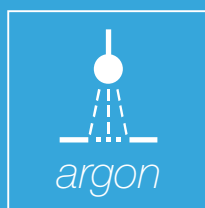
SURTRON TOUCH HP has several **monopolar** cutting modes. In addition to the standard *PURE* function, there is a cut for high impedance called *ENHANCED*. A modular cut to avoid escaping and having a better result in wet conditions called *BLEND*. The new *DUO* function,

particularly important, allows the use of a standard cut with two handpieces simultaneously.

In the **bipolar** section in addition to the *PURE* standard cut, the device offers cutting function without escaping under saline *TUR* solution.

COAG

MONOPOLAR



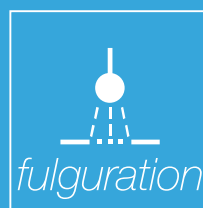
120 W-500 Ω



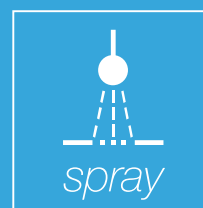
150 W-200 Ω



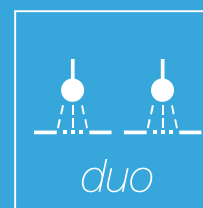
150 W-200 Ω



100 W-300 Ω



120 W-500 Ω



100 W+100 W
300 Ω

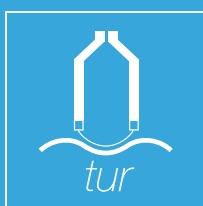
BIPOLAR



150 W-50 Ω



250 W-25 Ω



250 W-50 Ω



50 W-50 Ω

Monopolar coagulation modality allows superficial coagulation called *FORCED* or deep coagulation called *SOFT*, generated by the low voltage emitted. The *FULGURATION* and *SPRAY* functions allow a fast coagulation without contact thanks to the high voltage supplied. The

new *DUO* mode also allows a superficial coagulation with two handles at the same time. In the **bipolar** section, the standard *BIPOLAR* and *SEALING* function to clamp vessels in a fast and safe way up to 7 mm finish the wide range of functions of the **SURTRON TOUCH HP**.



Surgeon and device: they are one and the same thanks to **SURTRON TOUCH HP**. The software is divided into four sections corresponding to the four sockets on the sides. Each socket corresponds to bright LEDs indicating the yellow, blue clotting cutout. The light remains white while waiting for delivery.

*SIMPLE
FUNCTIONAL
INTUITIVE*

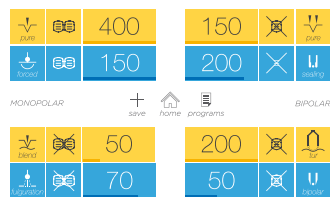
Simplicity, this is the goal we set for ourselves to achieve.

The simplified set up is designed to give priority to surgery, not to the search and the comprehension of functions.

*Simple
is nice!*

LeOS, Led electrosurgery Operating System, has been developed to provide a simple, functional and intuitive work experience.

With one finger touch you can choose from a white or black screen how to customize and to save your work settings, change the power of the cut or coagulation and to manage each function of the device.





Features

	10400.T802	10400.T902
Codice prodotto	300 W 300 Ω	400 W 300 Ω
Maximum output power monopolar PURE	200 W 300 Ω	250 W 300 Ω
Maximum output power monopolar ENHANCED	200 W 200 Ω	250 W 200 Ω
Maximum output power monopolar cut-coag BLEND	150 W 300 Ω	200 W 300 Ω
Maximum output power monopolar cut DUO	250 W 300 Ω	300 W 300 Ω
Maximum output power monopolar TUR	120 W 200 Ω	150 W 200 Ω
Maximum output power monopolar coag FORCED	120 W 200 Ω	150 W 200 Ω
Maximum output power monopolar coag SOFT	80 W 300 Ω	100 W 300 Ω
Maximum output power monopolar coag FULGURATION	80 W 300 Ω	100 W 300 Ω
Maximum output power monopolar coag DUO	100 W 500 Ω	120 W 500 Ω
Maximum output power monopolar coag SPRAY	100 W 500 Ω	120 W 500 Ω
Maximum output power monopolar coag SPRAY ARGON	150 W 50 Ω	150 W 50 Ω
Maximum output power bipolar cut PURE	300 W 300 Ω	300 W 300 Ω
Maximum output power bipolar cut-coag TUR	50 W 50 Ω	50 W 50 Ω
Maximum output power bipolar cut-coag MICRO	250 W 25 Ω	250 W 25 Ω
Maximum output power bipolar coag TUR	250 W 25 Ω	250 W 25 Ω
Maximum output power bipolar coag SEALING	150 W 50 Ω	150 W 50 Ω
Maximum output power bipolar coag BIPOLAR	50 W 50 Ω	50 W 50 Ω
Maximum output power bipolar coag MICRO	360 kHz	360 kHz
Working frequency Monopolar / Bipolar	F	F
Patient circuit	0.2 - 10 LPM	0.2 - 10 LPM
ARGON flow regulation	3.0 bar (43,5psi)	3.0 bar (43,5psi)
ARGON maximum inlet pressure	100 - 240 Vac	100 - 240 Vac
Selectable input voltage	50 / 60 Hz	50 / 60 Hz
Mains frequency	1000 VA	1000 VA
Electrical input power	470x220x460 mm	470x220x460 mm
Size WxHxD	13,5 Kgs	13,5 Kgs
Weight		

Controls

Patient/Plate circuit monitoring
 Output power monitoring
 Self check control
 HF leakage currents control
 Compensation of mains fluctuation

Safety

EN60601-1
 EN60601-1-2
 EN60601-2-2
 Electrical Class: I CF
 MDR 2017/745/UE Class: II b

Standard accessories

Disposable handle with switches (5pcs)
 Reusable handle with switches
 Blade electrode 7 cm (3 pcs)
 Blade electrode 16 cm (3 pcs)
 Needle electrode 7 cm (3 pcs)
 Ball electrode 6 cm (3 pcs)
 Cable for neutral electrode
 Disposable split neutral electrode (5pcs)
 Electrode cleaning sponge
 Double water-proof foot-switch (2 pcs)
 Power supply cable 5 mt

LED.IT

ELECTROSURGERY



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