SURTRON®
50D / 80D
MONOPOLAR ELECTROSURGICAL UNIT

DENTAL
DERMATOLOGY
AMBULATORY SURGERY
FIRST AID
VETERINARY
VASCULAR SURGERY



SURTRON® 50D



CE 0051

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High precision on cut and microcoagulation



SURTRON® 80D

SURTRON® 50D

Reference code	10100.051
Maximum output power CUT	50 W – 400 Ω
Maximum output power CUT/COAG1	45 W – 400 Ω
Maximum output power CUT/COAG2	40 W – 400 Ω
Maximum output power COAG	40 W – 400 Ω
Working frequency	600 kHz
Patient circuit	F
Selectable input voltage	115/230 Vac
Mains frequency	50-60 Hz
Electrical input power	200 VA
Size WxHxD mm	190x85x239
Weight	2,5 Kgs

SURTRON® 80D

Reference code	10100.081
Maximum output power CUT	80 W – 400 Ω
Maximum output power BLEND	60 W – 400 Ω
Maximum output power COAG	50 W – 400 Ω
Maximum output power MICRO	20 W – 600 Ω
Working frequency	700 kHz
Patient circuit	F
Selectable input voltage	115-230 Vac
Mains frequency	50-60 Hz
Electrical input power	220 VA
Size WxHxD mm	190x85x239
Weight	2,5 Kgs

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TRON



High safety performances in surgery



Compact, ergonomic and user-friendly



SURTRON 50 D

SURTRON 50 D is a radiofrequency electrosurgical unit suitable for minor monopolar surgery. SURTRON 50 D through the functions selection makes pure cut, cut coagulation (CUT 1 - CUT 2) and pure coagulation possible. The one-board microcontroller and digital display guarantees consistent safety and reliability under any conditions. SURTRON 50 D offers outstanding professional surgical results due to its ergonomic and superior safety features.

SURTRON 80 D

SURTRON 80 D is a radiofrequency electrosurgical unit suitable for minor monopolar surgery. SURTRON 80 D has a multi-function selector which makes cutting (CUT), cut coagulation (BLEND), coagulation (COAG) and micro-coagulation (MICRO) possible. The one-board microcontroller and digital display guarantees consistent safety and reliability under any conditions. SURTRON 80 D offers outstanding professional surgical results due to its ergonomic and superior safety features.

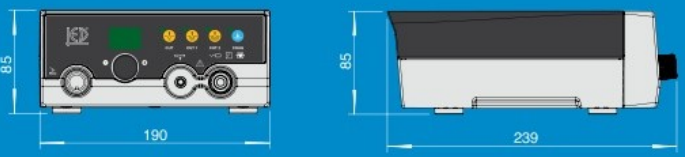
SAFETY
EN60601-1
EN60601-1-2
EN60601-2-2
Electrical Class: I CF
MDD 93/42/EC Class: II b

CONTROLS
Patient/Plate circuit monitoring (80D)
Output power monitoring
Self check control

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Size SURTRON 50 D - mm

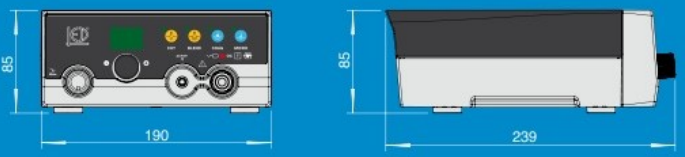


Standard Composition:

- Reusable monopolar handle	F4814
- Assorted electrodes (10 pz)	00500.00
- Cable for rod neutral electrode	00404.02
- Rod neutral electrode	00403.01
- Foot switch	00300.00
- Power supply cable 2 mt	00100.03



Size SURTRON 80 D - mm



Standard Composition:

- Reusable monopolar handle	F4814
- Assorted electrodes (10 pz)	00500.00
- Cable for neutral electrode	00404.08
- Steel neutral electrode	5365
- Foot switch	00300.00
- Power supply cable 2 mt	00100.03



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SURTRON®
80 / 120 / 160

CASUALTY SURGERY
PEDIATRIC SURGERY
PLASTIC SURGERY
VASCULAR SURGERY
DERMATOLOGY
FIRST AID
OTORHINOLARYNGOLOGY
UROLOGY
GINECOLOGY
VETERINARY
DENTAL





CE 0051

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High performances in compact size



SURTRON®	80	120	160
Reference code	10100.101	10100.201	10100.301
Maximum output power CUT	80 W-250 Ω	120 W-250 Ω	160 W-250 Ω
Maximum output power BLEND	60 W-200 Ω	90 W-200 Ω	120 W-200 Ω
Maximum output power FORCED COAG	50 W-150 Ω	80 W-150 Ω	100 W-150 Ω
Maximum output power SOFT COAG	40 W-100 Ω	60 W-100 Ω	80 W-100 Ω
Maximum output power BIPOLAR	30 W-100 Ω	40 W-100 Ω	60 W-100 Ω
Working frequency	600 KHz	600 KHz	600 KHz
Patient circuit	F	F	F
Selectable input voltage	115-230 Vac	115-230 Vac	115-230 Vac
Mains frequency	50-60 Hz	50-60 Hz	50-60 Hz
Electrical input power	230 VA	300 VA	350 VA
Size WxHxD mm	254x104x288	254x104x288	254x104x288
Weight	5 Kgs	5 Kgs	5 Kgs

- Possibility of use for minimum invasive surgery
- Possibility of use of bipolar forceps
- Possibility of use of split neutral electrodes
- Planning of the working conditions
- Memorization of the last used settings
- Activation of the power with pedal and/or handle
- Digital regulation and indication of the output power
- Adjustment of the acoustic indicator intensity

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TRON



Bipolar coagulation for safe surgery



Hand switch or foot switch activation



SURTRON is a high frequency electrosurgical equipment which is suitable to light and medium surgery.

SURTRON, through its performance, allows pure CUT, cut-coagulation BLEND, superficial coagulation FORCED COAG, deep coagulation in absence of necrosis SOFT COAG and, with a special adapter, BIPOLAR coagulation. The digital reading of delivered power and the monitoring of operative function by microcontroller guarantees the absolute reliability of working conditions.

SURTRON allows a highly professional surgery thanks to the user-friendly and safety solutions normally used. The connection of neutral electrode is constantly monitored. Safety control of patient/plate contact using split neutral electrode. The possibility to control by the handle the output functions as well as the delivery of output power, allows to implement the surgical operation without turning away the surgeon attention from the surgical field.

SAFETY
EN60601-1
EN60601-1-2
EN60601-2-2
Electrical Class: I CF
MDD 93/42/EC Class: II b

CONTROLS
Patient/Plate circuit monitoring
Output power monitoring
Self check control

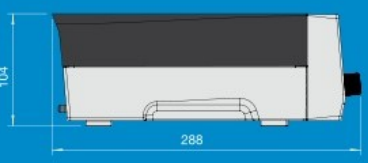
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Size - mm





Standard Composition:

- Reusable handle with switches	F4243
- Assorted electrodes (10 pcs)	00500.00
- Cable for neutral electrode	00404.08
- Steel neutral electrode	5365
- Foot switch	00300.00
- Power supply cable 2 mt	00100.03



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SURTRON® 200

- AMBULATORY SURGERY
- ENDOSCOPY
- FIRST AID
- GASTROENTEROLOGY
- GENERAL SURGERY
- GYNECOLOGY
- NEUROSURGERY
- ORTHOPEDICS
- OTORHINOLARYNGOLOGY
- PEDIATRIC SURGERY
- PLASTIC SURGERY
- PNEUMOLOGY
- UROLOGY
- VASCULAR SURGERY
- VETERINARY





CE 0051

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Many surgical procedure by a double generator



SURTRON® 200

Reference code	10100.401
Maximum output power CUT	200W - 250Ω
Maximum output power ENHANCED	120W - 250Ω
Maximum output power BLEND	120W - 200Ω
Maximum output power FORCED COAG	150W - 150Ω
Maximum output power SOFT COAG	90W - 100Ω
Maximum output power BIPOLAR COAG	80W - 100Ω
Working frequency	600 kHz
Patient circuit	F
Mains voltage	115-230 Vac
Mains frequency	50-60 Hz
Electrical input power	350 VA
Size WxHxD mm	370x144x319
Weight	6 Kgs

- Patient to plate contact control
- Split return electrode use allowed
- Minimally invasive surgical treatment allowed
- Monopolar and Bipolar indipendent output
- Auto Start/Stop in Bipolar Coag
- Working condition storing
- Power delivery by pedal and/or handle
- Digital regulation and indication of the output power
- Sound level control
- Adjustable power increment

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TRON



Programmable by the user



Minimally invasive surgery allowed



SURTRON 200 is a high frequency electrosurgical equipment which is suitable to light and medium surgery.

SURTRON 200 allows to execute surgical minimally invasive procedure of resection, evaporation and coagulation.

SURTRON 200 through its performances allows pure CUT, cut-coagulation BLEND, incision with reduced prodution of eschar ENHANCED, superficial coagulation FORCED COAG, deep coagulation in absence of necrosis SOFT COAG and BIPOLAR coagulation.
The digital reading of the delivered power and the overseeing through microcontroller of the operational functions, assure the absolute reliability of the conditions of job.

SURTRON 200 allows a highly professional surgery thanks to the user-friendly and safety solutions normally used.
The connection of neutral electrode is constantly monitored. Safety control of patient/plate contact using split neutral electrode. The possibility to control by the handle the output functions as well as the delivery of output power, allows to implement the surgical operation without turning away the surgeon attention from the surgical field.

SAFETY
EN60601-1
EN60601-1-2
EN60601-2-2
Electrical Class: I CF
MDD 93/42/EC Class: II b

CONTROLS
Patient/Plate circuit monitoring
Output power monitoring
Self check control

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Size - mm



Standard Composition:

- Reusable handle with switches F4243
- Assorted electrodes (10 pcs) 00500.00
- Blade electrode 7 cm (3 pcs) 152-110
- Needle electrode 7 cm (3 pcs) 152-120
- Ball electrode 6 cm (3 pcs) 152-150
- Cable for neutral electrode 00404.08
- Steel neutral electrode 5365
- Disposable split neutral electrode (2 pcs) F7920
- Waterproof foot switch 00302.00
- Power supply cable 5mt 00100.01



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SURTRON®
FLASH / FLASH HF
MONOPOLAR AND BIPOLAR RADIOSURGICAL UNIT

- AMBULATORY SURGERY
- DERMATOLOGY
- VASCULAR SURGERY
- GYNECOLOGY
- DENTAL
- OTORHINOLARYNGOLOGY
- PEDIATRIC SURGERY
- FIRST AID
- PLASTIC SURGERY
- ENDOSCOPY
- OPHTHALMOLOGY
- NEUROSURGERY
- PODIATRY
- PNEUMOLOGY
- UROLOGY
- VETERINARY



SURTRON® FLASH HF



CE 0051

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Best surgical results with HF

SURTRON® FLASH



SURTRON® 120 160 HF 200

	120	160 HF	200	
Reference code	10300.101	10300.201	10300.401	Patient to plate contact control
Max output power CUT	120 W-250 Ω	150 W-250 Ω (1)	200 W-250 Ω	Split return electrode use allowed
Max output power BLEND	90 W-200 Ω	100 W-200 Ω (1)	120 W-200 Ω	Minimally invasive surgical treatment allowed
Max output power ENHANCED	90 W-250 Ω	100 W-250 Ω (1)	120 W-250 Ω	Monopolar and Bipolar indipendent output
Max output power FORCED COAG	80 W-150 Ω	100 W-150 Ω	150 W-150 Ω	Auto Start/Stop in Bipolar Coag
Max output power SOFT COAG	60 W-100 Ω	80 W-100 Ω	90 W-100 Ω	Working condition storing
Max output power BIPOLAR COAG	60 W-100 Ω	60 W-100 Ω	80 W-100 Ω	Power delivery by pedal and/or handle
Max output power BIPOLAR ABLATION	60 W-100 Ω	60 W-100 Ω (1)	80 W-100 Ω	Digital regulation and indication of the output power
Working frequency	600 KHz	600 KHz	600 KHz	Sound level control
Working frequency (1) FUNCTION ONLY	-	4.0 MHz	-	Adjustable power increment
RF power pulse emission time	10 - 990 ms	10 - 990 ms	10 - 990 ms	RF power pulse emission time setting
RF power pulse interval	1 - 9	1 - 9	1 - 9	RF power pulse interval setting
Patient circuit	F	F	F	HF Dual Frequency for best performances
Selectable input voltage	115 - 230 Vac	115 - 230 Vac	115 - 230 Vac	HF Least amount of lateral heat
Mains frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	HF Less smoke in cutting mode
Electrical input power	300 VA	350 VA	350 VA	
Size WxHxD mm	370x144x319	370x144x319	370x144x319	
Weight	6 Kgs	6 Kgs	6 Kgs	

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TRON



RF power pulse planning



Two frequency for my needs HF



SURTRON FLASH HF is a High Frequency RadioSurgical equipment which is suitable to precision monopolar and bipolar surgery and micro-surgery without tissue alterations.

SURTRON FLASH can supply RF operative powers either for programmable time as short as hundreds of a second.

SURTRON FLASH through its performances allows pure CUT, cut-coagulation BLEND, incision with reduced prodution of eschar ENHANCED, superficial coagulation FORCED COAG, deep coagulation in absence of necrosis SOFT COAG, BIPOLAR coagulation and ABLATION.
The digital reading of the delivered power and the overseeing through microcontroller of the operational functions, assure the absolute reliability of the conditions of job.

SURTRON FLASH allows a highly professional surgery thanks to the user-friendly and safety solutions normally used.
The connection of neutral electrode is constantly monitored. Safety control of patient/plate contact using split neutral electrode. The possibility to control by the handle the output functions as well as the delivery of output power, allows to implement the surgical operation without turning away the surgeon attention from the surgical field.

SAFETY
EN60601-1
EN60601-1-2
EN60601-2-2
Electrical Class: I CF
MDD 93/42/EC Class: II b

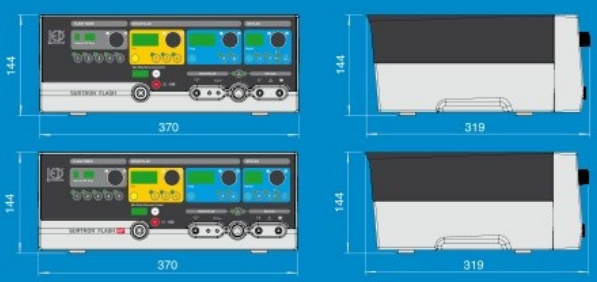
CONTROLS
Patient/Plate circuit monitoring
Output power monitoring
Self check control

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Size - mm



Standard Composition:

- Reusable handle with switches	F4243
- Handle for microsurgical needle	00201.00
- Assorted electrodes (10 pcs)	00500.00
- Needles for micro-surgery (5 pcs)	00500.L11
- Blade electrode 7 cm (3 pcs)	152-110
- Needle electrode 7 cm (3 pcs)	152-120
- Ball electrode 6 cm (3 pcs)	152-150
- Cable for neutral electrode	00404.08
- Steel neutral electrode	5365
- Disposable split neutral electrode (2 pcs)	F7920
- Disposable neutral electrode (2 pcs)	0350
- Waterproof foot switch	00302.00
- Power supply cable 5mt	00100.01



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SURTRON®

300HP / 400HP

HIGH POWER MONOPOLAR AND BIPOLAR ELECTROSURGICAL UNIT

AMBULATORY SURGERY
GENERAL SURGERY
PEDIATRIC SURGERY
PLASTIC SURGERY
THORAX SURGERY
VASCULAR SURGERY
DERMATOLOGY
ENDOSCOPY
GASTROENTEROLOGY
GYNECOLOGY

GOLOGY





CE 0051

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High performance capabilities in a multipurpose generator



SURTRON®	300HP	400HP
Reference code	10400.801	10400.901
Maximum output power monopolar pure CUT	300 W - 300 Ω	400 W - 300 Ω
Maximum output power monopolar cut-coag CUT80%	250 W - 300 Ω	300 W - 300 Ω
Maximum output power monopolar cut-coag CUT60%	200 W - 300 Ω	250 W - 300 Ω
Maximum output power monopolar cut-coag CUT40%	150 W - 300 Ω	200 W - 300 Ω
Maximum output power monopolar cut ENHANCED	200 W - 500 Ω	250 W - 500 Ω
Maximum output power monopolar cut-coag BLEND	200 W - 300 Ω	250 W - 300 Ω
Maximum output power monopolar coag SPEEDY	100 W - 500 Ω	120 W - 500 Ω
Maximum output power monopolar coag DEEP	100 W - 200 Ω	120 W - 200 Ω
Maximum output power monopolar coag SPRAY	70 W - 2000 Ω	100 W - 2000 Ω
Maximum output power monopolar coag SPRAY ARGON	70 W - 2000 Ω	100 W - 2000 Ω
Maximum output power bipolar CUT	95 W - 150 Ω	95 W - 150 Ω
Maximum output power bipolar cut-coag CUT80%	95 W - 150 Ω	95 W - 150 Ω
Maximum output power bipolar cut-coag CUT60%	95 W - 150 Ω	95 W - 150 Ω
Maximum output power bipolar cut-coag CUT40%	60 W - 150 Ω	60 W - 150 Ω
Maximum output power bipolar cut-coag BLEND	90 W - 150 Ω	90 W - 150 Ω
Maximum output power bipolar coag COAG	70 W - 100 Ω	70 W - 100 Ω
Working frequency Monopolar / Bipolar	425 kHz / 525 kHz	425 kHz / 525 kHz
Patient circuit	F	F
Selectable input voltage	115 - 230 Vac	115 - 230 Vac
Mains frequency	50 - 60 Hz	50 - 60 Hz
Electrical input power	1000 VA	1000 VA
Size WxHxD mm	470x150x400	470x150x400
Weight	17,5 Kgs	17,5 Kgs



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TRON

Multiprogrammable by the user

Double generator for twin surgical procedures



TWIN OPERATIVE ACTIVITY
- Two output channels for monopolar cutting
- Two independent setting and output channels for the most frequent monopolar coagulation

CONTROLLED CUTTING PROCEDURES
- Enhanced cutting current for eschar free incision
- Cutting current with selectable coagulating property for bleeding controlled dissection
- Low capacitive coupling by slow BLEND current for endoscopic procedures

TWIN CONTROLLED COAGULATIVE PROCEDURES
- SPEEDY* coagulation and DEEP**coagulation available to two operators
- SPRAY coagulation available by hand switch or foot switch controls

WIDE BIPOLAR FEATURES
- Bipolar cutting current with selectable bleeding control
- Slow BLEND cutting current
- Separately activable Automatic Start/Stop coagulation

SURGEON AND PATIENT TOTAL SAFETY
- Acceptability of contact impedance between patient body and return electrode continuously watched by Skin Plate Electronic Control (SPEC)
- H.F. Leakage currents continuously monitored
- Mains fluctuation automatically compensated before to start the delivery of HF power

PERSONALIZED PROCEDURES
- Independent choise of coagulative currents and power levels by each of two operators
- Ten personal configurable and immediately recallable procedures

EXTENTION DRIVER AND INTERLOCK SIGNALS
- Drived output connection to external Argon Plasma unit and Smoke Evacuator unit

AUTOMATIC SELF DIAGNOSIS
- Automatic diagnostic control of the actual complete functionality of the electronic unit and the connected accessories with coded report of failures

*SPEEDY coagulation also said Fulgurate or Forced coagulation
**DEEP coagulation also said Pin Point, Dessicate or Soft coagulation

SAFETY
EN60601-1
EN60601-1-2
EN60601-2-2
Electrical Class: I CF
MDD 93/42/EC Class: II b

CONTROLS
Patient/Plate circuit monitoring
Output power monitoring
Self check control
H.F. Leakage currents control
Compensation of mains fluctuation

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Size - mm



Standard Composition:

- Disposable handle with switches (5pcs)	755VL
- Reusable handle with switches	F4243
- Blade electrode 7 cm (3 pcs)	152-110
- Blade electrode 16 cm (3 pcs)	152-115
- Needle electrode 7 cm (3 pcs)	152-120
- Ball electrode 6 cm (3 pcs)	152-150
- Cable for neutral electrode	00404.08
- Disposable split neutral electrode (5pcs)	F7920
- Electrode cleaning sponge	F7520
- Double water-proof foot-switch (2 pcs)	00301.04
- Power supply cable 5 mt	00100.01



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UNI EN ISO 9001 - UNI CEI EN ISO 13485



190-190 MONOPOLAR CABLE M4-F4 3 mt



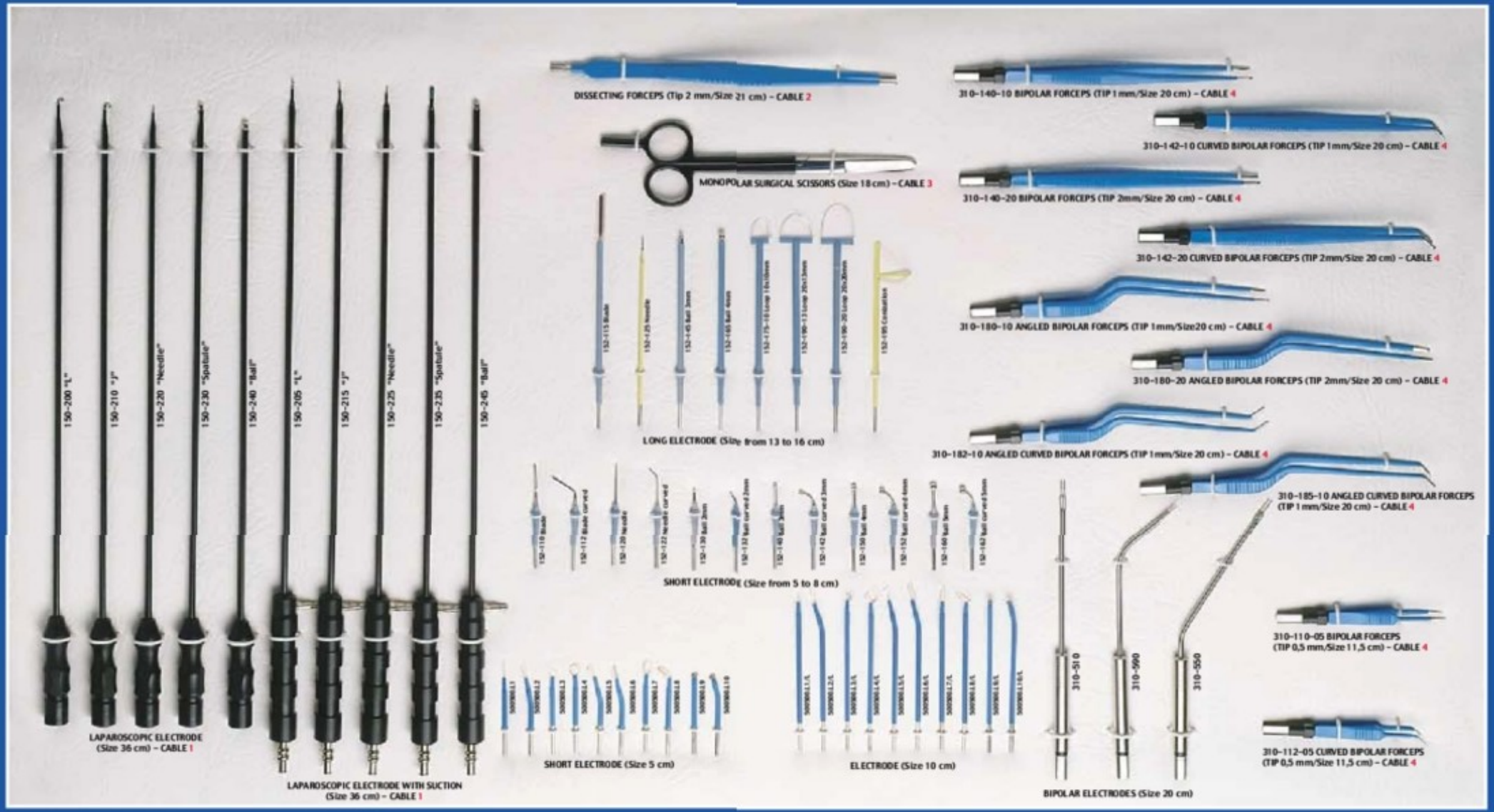
190-180 MONOPOLAR SILICONE CABLE M4-F4,8 3 mt



190-185 MONOPOLAR CABLE M4-MP4 3 mt



190-110 SILICONE BIPOLAR CABLE 3 mt



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