

INSPIRAL



**SURGICAL SUCTION &
ELECTROSURGERY
2020**

INSPIRAL

Surgical Suction Units





INSPI TAL Surgical Suction Units are designed for the suction of surgical fluids, gases and other wastes in operation area during and after the surgery. Device creates stable vacuum performance at adjusted vacuum level thanks to its maintenance free oil-less vacuum pump. Wide range of accessories makes the device very suitable for many different departments in the hospital.



Main Body, Pump and Control

- ◆ Rapid suction with 60 L/Min flow rate, adjustable vacuum power at 680 mmHg
- ◆ Vacuum adjustments by easily accessible control panel and vacuum manometre for monitoring vacuum level
- ◆ Maintenance free, silent, non-vibrating, oil free vacuum pump
- ◆ Easy to clean, robust body design which is compatible with hospital cleaning and disinfection system



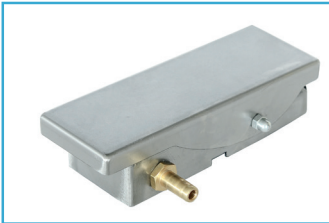
Safety Jar (Optional)

- ◆ Protective technology preventing overflow and liquid leakage to pump system



Wide Range of Jars

- ◆ Collecting jars with scaled body, integrated & easy to carry handle
- ◆ 2 L and 3 L capacity options for disposable liners with autoclavable polycarbonate jars



Foot Switch

- ◆ Designed to be used in delivery operations via Malmstrom-Throe method by its integrated pedal system.
- ◆ Device has optional delivery assistance equipment as birth cups and cannula sets.



Surgical Suction Jar

- ◆ Made of transparent polycarbonate material
- ◆ 2 L, 3 L and 5 L carrying capacity alternatives
- ◆ Sterilizable jars at 121° C
- ◆ Adapter for wall connection

A.Code	Capacity
AT20.85	5 L
AT20.83	3 L
AT20.82	2 L



MODELS

- SU60.10 2x3L Reusable Vacuum Jar
- SU60.15 2x5L Reusable Vacuum Jar
- SU60.05 2x3L Reusable Vacuum Jar, Extractor
- SU60.TP 2x3L Reusable Vacuum Jar, Twin-Pump

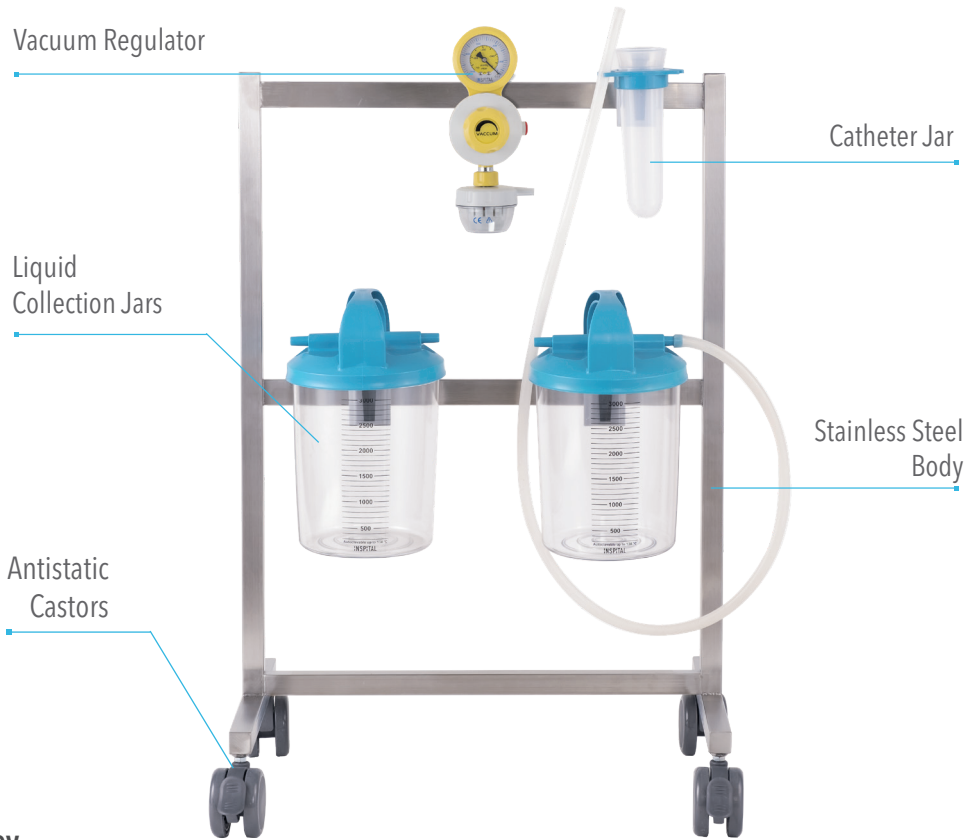


MODELS

- SU60.22 2x2L Disposable Liner
- SU60.33 2x3L Disposable Liner

Easy to Use





Central Suction Trolley

- ◆ Integrated vacuum regulator
- ◆ Liner and lid are made of durable plastic
- ◆ Trolley with 2 pcs vacuum jar capacity
- ◆ Polycarbonate, transparent vacuum jars with silicone hoses
- ◆ Sterilizable jars at 121°

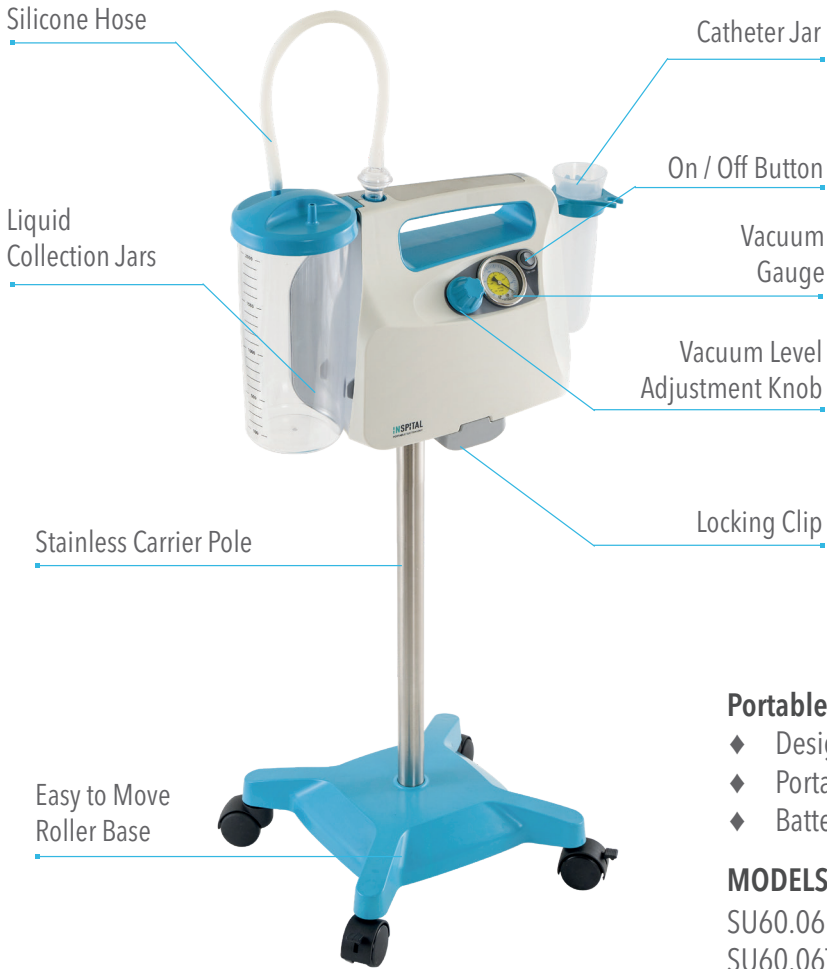
Model

- | | |
|----------|--------------------------|
| AT20.75T | 2x3L Reusable Vacuum Jar |
| AT20.75F | 2x5L Reusable Vacuum Jar |
| AT20.75D | 2x3L Disposable Liner |



Suction Liner	A.Code
Suction Liner, 1 L	AT80.10
Suction Liner, 2 L	AT80.20
Suction Liner, 3 L	AT80.30
Suction Liner With Antifoam, 1 L	AT80.11
Suction Liner With Antifoam, 2 L	AT80.22
Suction Liner With Antifoam, 3 L	AT80.33
Suction Liner With Solidifying Agents, 1 L	AT80.91
Suction Liner With Solidifying Agents, 2 L	AT80.92
Suction Liner With Solidifying Agents, 3 L	AT80.93

- ◆ No contact with patient
- ◆ Liner and lid are made of durable plastic
- ◆ Liners are flexible
- ◆ Disinfectant, foam inhibitor and gelling agents are optionally available



Portable Suction Units

- ◆ Designed to be used in small operations and first aids
- ◆ Portable design suitable for rapid interventions
- ◆ Battery system for 30 minutes continuous run (SU60.08)

MODELS

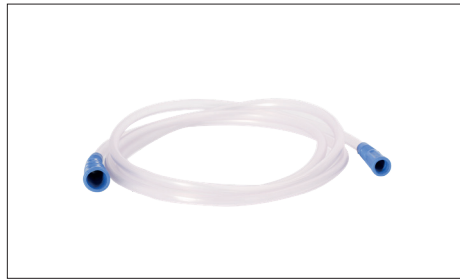
SU60.06	Mobile 220 VAC
SU60.06T	Mobile 220 VAC, with stand
SU60.08	Mobile, with battery 12 V

Rapid Solution





Rail Attachment	A.Code
For 25 x 5 mm Rail	AT20.37



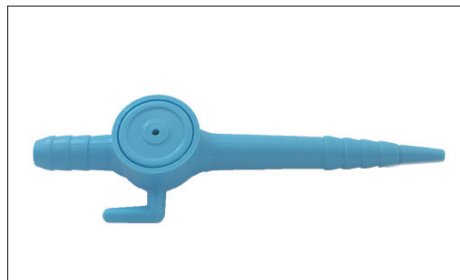
Yankauer Tipped Hose	A.Code
1,8 Meter Hose	AT20.40
Suction Cannula tip	AT20.41



Silicone / PVC Tube	A.Code
8 x 14 mm (silicone)	AT20.47
6 x 11 mm (silicone)	AT20.46
8 x 12 mm (PVC)	AT20.44
10 x 14 mm (PVC)	AT20.45



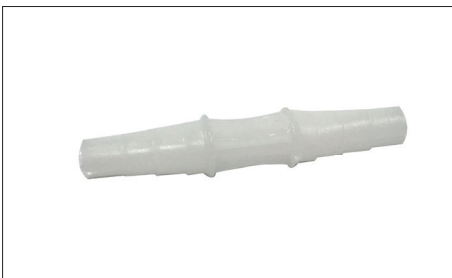
Wall Attachment	A.Code
For 25 x 5 mm Rail	AT20.50



Vacuum Control Connector	A.Code
Control Connector	AT20.54



Suction Cannula, Plastic	A.Code
Non-Sterile	AT20.55



Tube Connector	A.Code
Non-Sterile	AT20.52



Kapkon Connector	A.Code
Kapkon Connector	AT20.53



Suction Liner Probe	A.Code
With Manometer	AT20.78
Without Manometer	AT20.79



Cannula Set	A.Code
Cannula Set, 5 pcs	SU95.30



Silicone Birth	A.Code
Silicone Birth Cup, 50 mm	SU95.10
Silicone Birth Cup, 60 mm	SU95.15
Silicone Birth Cup, 70 mm	SU95.20

MANUAL SUCTION UNIT

Effective and High Performance

Designed To Be Used for Quick Fluids Suctioning



Durable Main Body

Suitable for Adults and Children

- ◆ Manual suction unit is a practical device suitable for manual use in case of emergency operations without any electrical connection.
- ◆ Max. Vacuum Power : 450 mmHg
- ◆ Collecting Jar Capacity : 250 ml
- ◆ Dimensions (WxLxH) : 280x195x65 mm
- ◆ Weight : 346 gr
- ◆ Model : SU60.02

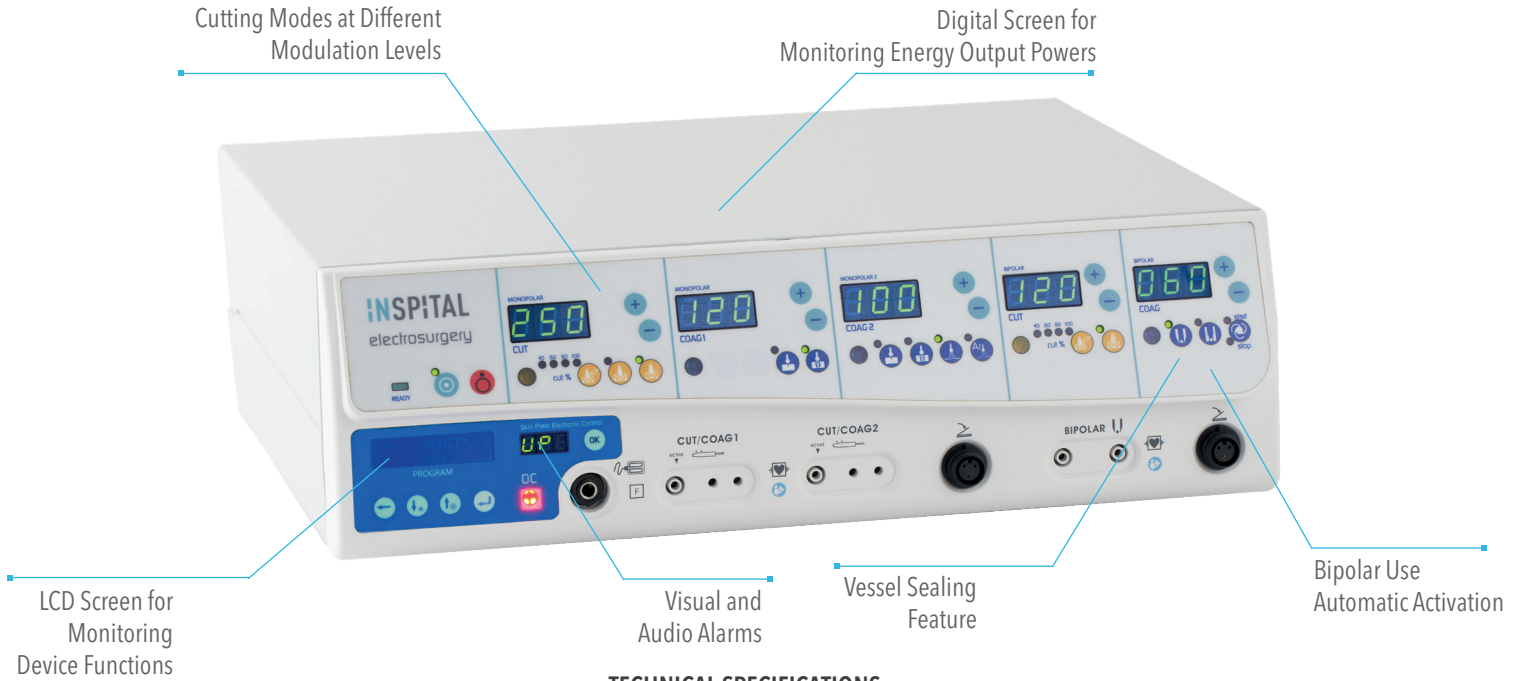


INSPIRAL

Electrosurgical
Devices



ELECTROSURGERY

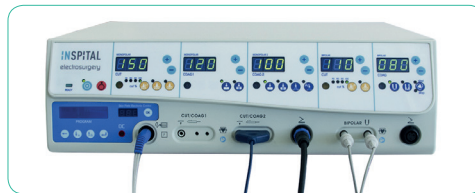


Inspital NS04.00 and NS02.50 electrocautery devices can be used in all type of surgeries like general surgery, orthopedics, urology, cardiovascular surgery and neurosurgery with high performance and micro operation technology.

- Twin Output Channels
- Controlled Cutting & Coagulation Procedures
- Wide Bipolar Features
- Vessel Sealing Function
- Total Safety for Surgeon and Patient
- Standard Outputs for Argon Plasma and Smoke Evacuator Units
- Error Log System
- Automatic Self Diagnosis

TECHNICAL SPECIFICATIONS

Model	NS04.00	NS02.50
Monopolar		
• Maximum Output Power Pure CUT	400 W - 300 Ω	250W - 300 Ω
• Maximum Output Power Cut-Coag CUT80%	300 W - 300 Ω	220 W - 300 Ω
• Maximum Output Power Cut-Coag CUT60%	250 W - 300 Ω	200 W - 300 Ω
• Maximum Output Power Cut-Coag CUT40%	200 W - 300 Ω	150 W - 300 Ω
• Maximum Output Power Cut ENHANCED	250 W - 500 Ω	150 W - 500 Ω
• Maximum Output Power Cut-coag BLEND	250 W - 300 Ω	150 W - 300 Ω
• Maximum Output Power Coag SPEEDY	120 W - 500 Ω	100 W - 500 Ω
• Maximum Output Power Coag DEEP	120 W - 200 Ω	100 W - 200 Ω
• Maximum Output Power Coag SPRAY	100 W - 2000 Ω	60 W - 2000 Ω
• Maximum Output Power Coag SPRAY ARGON	100 W - 2000 Ω	60 W - 2000 Ω
Bipolar		
• Maximum Output Power Pure CUT	120 W - 150 Ω	120 W - 150 Ω
• Maximum Output Power Cut-Coag CUT80%	100 W - 150 Ω	100 W - 150 Ω
• Maximum Output Power Cut-Coag CUT60%	100 W - 150 Ω	100 W - 150 Ω
• Maximum Output Power Cut-Coag CUT40%	60 W - 150 Ω	60 W - 150 Ω
• Maximum Output Power Cut-coag BLEND	100 W - 150 Ω	100 W - 150 Ω
• Maximum Output Power Coag COAG	120 W - 50 Ω	120 W - 50 Ω
• Vessel Sealing Feature	200 W - 50 Ω	200 W - 50 Ω
• Working Frequency Monopolar / Bipolar	380 kHz / 525 kHz	425 kHz / 525 kHz
• Dimensions	470 x 380 x 150mm	470 x 380 x 150mm



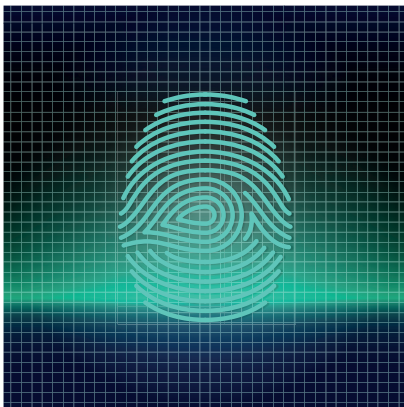
TOUCH ELECTROSURGERY



Inspital NS02.00 is new generation of electrocautery devices with microprocessor control and 7" touchscreen control panel. It is suitable to use in emergencies and minor or major surgeries.

TECHNICAL SPECIFICATIONS

Model	NS02.00
• Maximum Output Power CUT	200 W - 300 Ω
• Maximum Output Power BLEND	150 W - 300 Ω
• Maximum Output Power FORCED COAG	150 W - 200 Ω
• Maximum Output Power SOFT COAG	100 W - 200 Ω
• Maximum Output Power BIPOLAR PURE CUT	120 W - 100 Ω
• Max Output Power BIPOLAR COAG	100 W - 50 Ω
• Max Output Power BIPOLAR SEALING	200 W - 50 Ω
• Working Frequency	360 kHz
• Selectable Input Voltage	100 - 240 V AC / 50-60 Hz
• Inlet Power	750 VA



**One Touch
Many Surgeries**



USB support



INTRODUCTION

Destination of Use / Sectors of Application

The use of HF electro surgical equipment NS02.00 has reserved to specialized medical personnel. The equipment has destined to a temporary use, for surgical operations in emergency room or hospital. It has foreseen its use in the monopolar cut, cut coagulated or coagulation mode or in bipolar cut or coagulation mode.

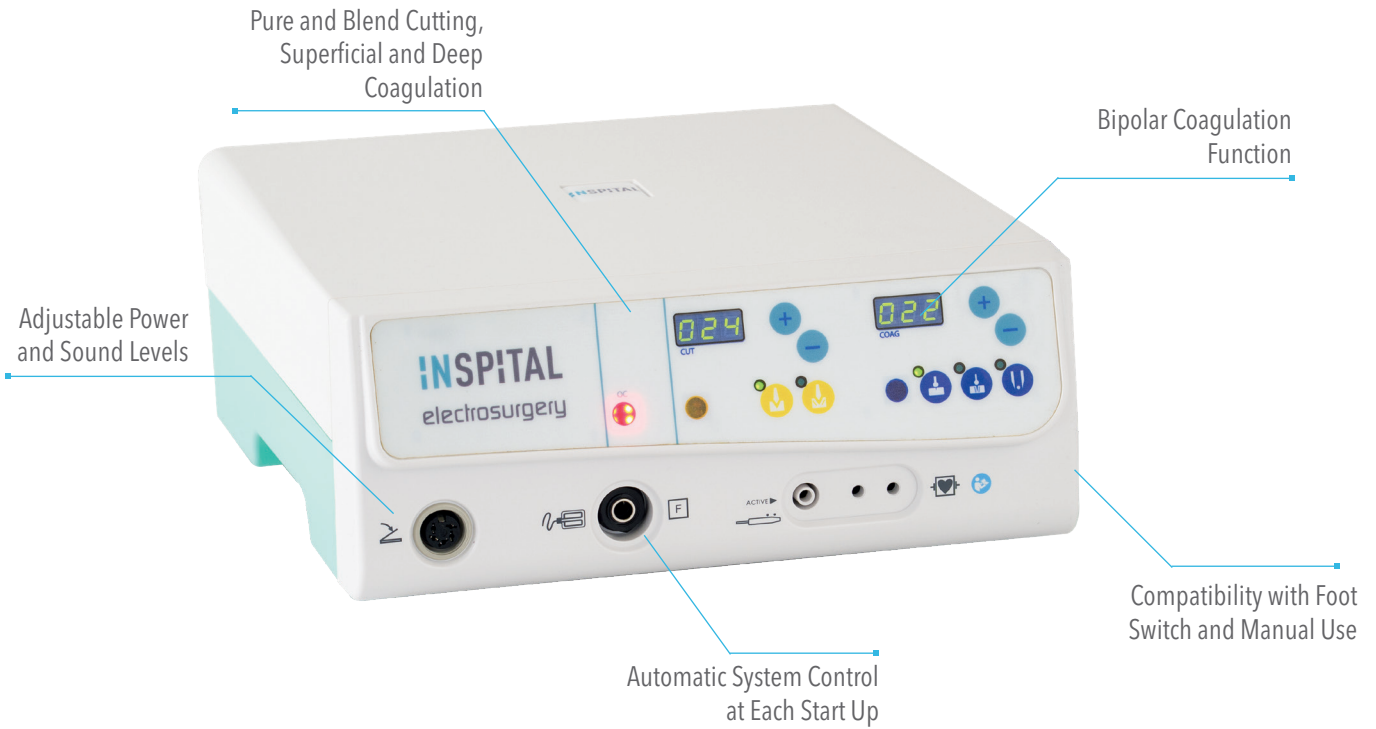
The equipment is conceived for being used in the following sectors

- = Recommended
- = Usable

Description	NS02.00
Endoscopy	●
First Aid	●
Gastroenterology	●
General Surgery	○
Gynecology	●
Neurosurgery	●
Orthopedics	○
Otorhinolaryngology	●
Pediatric Surgery	●
Plastic Surgery	○
Thoracic Surgery	●
Trans Urethral Resection (TUR)	○
Urology	●
Vascular Surgery	●
Veterinary	●

High-Tech





NS01.60 is designed for minor and medium surgery procedures. It has microprocessor controlled wide range of monopolar and bipolar usage with 160 W max output power.

TECHNICAL SPECIFICATIONS

Model	NS01.60
• Maximum Output Power Pure CUT	160 W - 250 Ω
• Maximum Output Power CUT	120 W - 200 Ω
• Maximum Output Power FORCED COAG	100 W - 150 Ω
• Maximum Output Power SOFT COAG	80 W - 100 Ω
• Maximum Output Power BIPOLAR	60 W - 100 Ω
• Working Frequency	600 kHz
• Selectable Input Voltage	115 - 230 VAC / 50-60 Hz
• Dimensions	254x288x104 mm



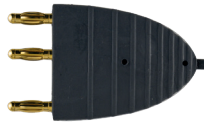
ELECTROSURGICAL DEVICE WITH SURGICAL SUCTION



- ◆ Stylish combination of INSPITAL Electro-surgical Device and the suction device.
- ◆ Space saving design for Operating Theaters: Two device in one stand.
- ◆ Easy to use and move to the most efficient position during the surgery.

Model : NS04.00T

ELECTROSURGICAL ACCESSORIES



Finger-Switch Pencil Reusable NS30.11



Finger-Switch Pencil Disposable NS30.10



Silicone Bipolar Cable 3.0 M NS30.12
 Instrument Connector : Ethicon
 Generator Connector: 4mm Banana Plug



Silicone European Bipolar Cable 3.0 M NS30.13
 Instrument Connector : European Flat Plug
 Generator Connector: 4mm Banana Plug



Silicone Diathermy Cable 3.0 M : NS30.14
 Instrument Connector : 4mm Male Fitting
 (European Diathermy)
 Generator Connector : 4mm Banana Plug



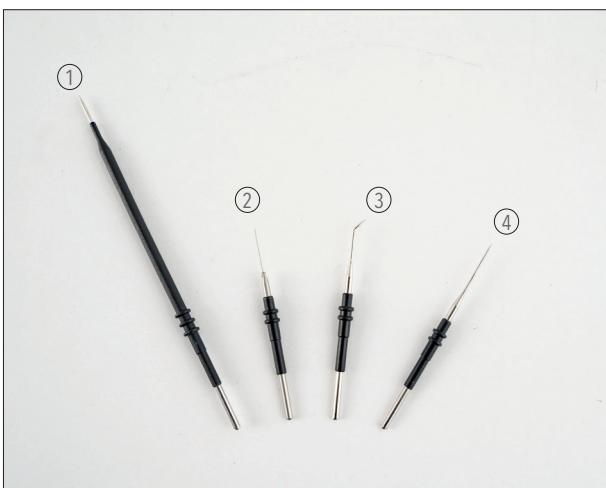
Patient Return Cable 3.0 M NS30.15



No.	Ball Type Electrodes	A.Code
1	Dia. 2mm, 7 cm, straight, reusable	NS30.40
2	Dia. 3mm, 7 cm, straight, reusable	NS30.42
3	Dia. 4mm, 7 cm, straight, reusable	NS30.44
4	Dia. 5mm, 7 cm, straight, reusable	NS30.46
5	Dia. 3mm, 13 cm, straight, reusable	NS30.48
6	Dia. 5mm, 13 cm, straight, reusable	NS30.49
7	Dia. 2mm, 7 cm, curved, reusable	NS30.41
8	Dia. 3mm, 7 cm, curved, reusable	NS30.43
9	Dia. 4mm, 7 cm, curved, reusable	NS30.45
10	Dia. 5mm, 7 cm, curved, reusable	NS30.47



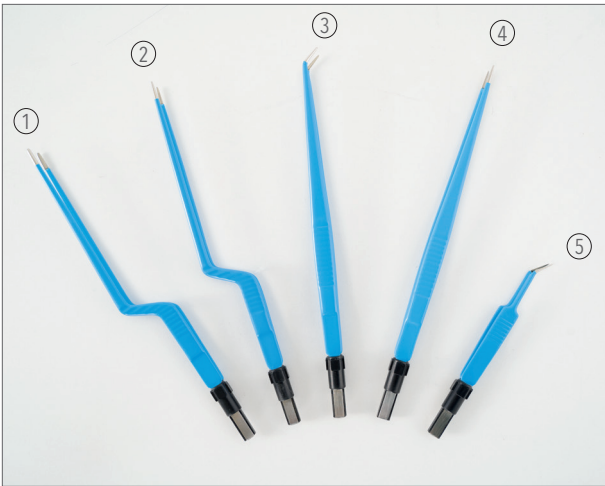
No.	Circle & Loop Type Electrodes	A.Code
1	Circle Loop Electrode 6mm, reusable	NS30.55
2	Circle Loop Electrode 8mm, reusable	NS30.56
3	Circle Loop Electrode 4mm, reusable	NS30.57
4	Loop Electrode 20x20 cm, reusable	NS30.50
5	Loop Electrode 10x10 cm, reusable	NS30.51
6	Loop Electrode 20x20 cm, reusable	NS30.52
7	Conization Electrode 13x15 mm, reusable	NS30.53



No.	Needle Type Electrodes	A.Code
1	Needle Electrode 13cm, straight, reusable	NS30.32
2	Needle Electrode 7cm, straight, reusable	NS30.30
3	Needle Electrode 7cm, curved, reusable	NS30.31
4	Fine Needle Electrode 7cm, straight, reusable	NS30.33
5	Needle Electrode 7cm, straight, disposable, non-stick	NS30.34
6	Needle Electrode 7cm, straight, disposable	NS30.35



No.	Blade Type Electrodes	A.Code
1	Blade Electrode 15cm, straight, reusable	NS30.22
2	Blade Electrode 7cm, straight, reusable	NS30.20
3	Blade Electrode 7cm, curved, reusable	NS30.21
4	Blade Electrode 7cm, straight, disposable, non-stick	NS30.23
5	Blade Electrode 16cm, straight, disposable, non-stick	NS30.24



No.	Europen Bipolar Forceps	A.Code
1	Dia. 2mm, 20 cm, Bayonet, reusable	NS31.40
2	Dia. 1mm, 20 cm, Bayonet, reusable	NS31.41
3	Dia. 1mm, 20 cm, angled, reusable	NS31.42
4	Dia. 1mm, 20 cm, straight, reusable	NS31.43
5	Dia. 0.7mm, 11.5cm, Jeweler, reusable	NS31.44
6	Dia. 1mm, 20 cm, straight, reusable, non-stick	NS31.45
7	Dia. 2mm, 20 cm, straight, reusable	NS31.46



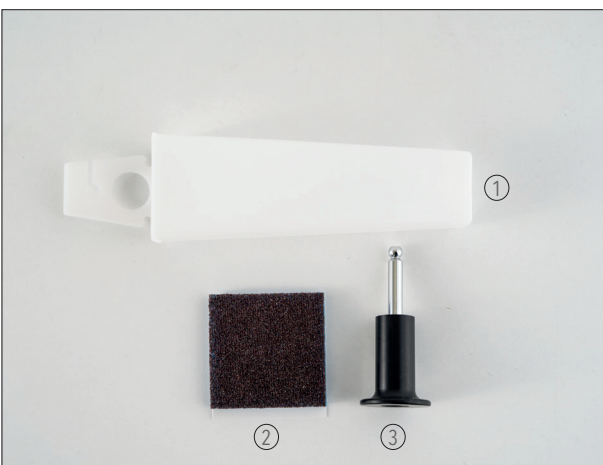
No.	Blade Type Electrodes	A.Code
1	Bipolar Electrode, 20 cm, angled, reusable	NS30.63
2	Bipolar Electrode, 19 cm, angled 45, reusable	NS30.64
3	Bipolar Electrode, 20 cm, straight, reusable	NS30.65



No.	Scissors & Artery Sealer	A.Code
1	Bipolar Artery Sealer , 16cm, reusable, non-stick	NS31.70
2	Bipolar Artery Sealer , 22cm, reusable, non-stick	NS31.71
3	Bipolar Scissor, 18cm, curved, reusable	NS31.72
4	Bipolar Artery Sealer, 26cm, reusable, non-stick	NS31.73
Diathermy Instruments		
5	Wilson Hey Forcept 17.8cm, monopolar male 4mm conn., reusable,	NS31.80
6	Artery Forcept 17.8cm, monopolar male 4mm conn., reusable	NS31.81



No.	Patient Return Plates	A.Code
1	Monopolar Patient Plate, disposable	NS30.05
2	Bipolar Patient Plate, disposable	NS30.09
3	Monopolar Patient Plate, 16x12 cm, reusable	NS30.06



No.	Accessories	A.Code
1	Holster (Electrodes&Pencils)	NS31.01
2	Tip Cleaner (Electrodes&Pencils)	NS31.02
3	Bipolar Adaptor	NS31.03



No.	Waterproof Foot Pedals	A.Code
1	Double Water-Proof Foot-Switch	NS30.08
2	Single Water-Proof Foot-Switch	NS30.07

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