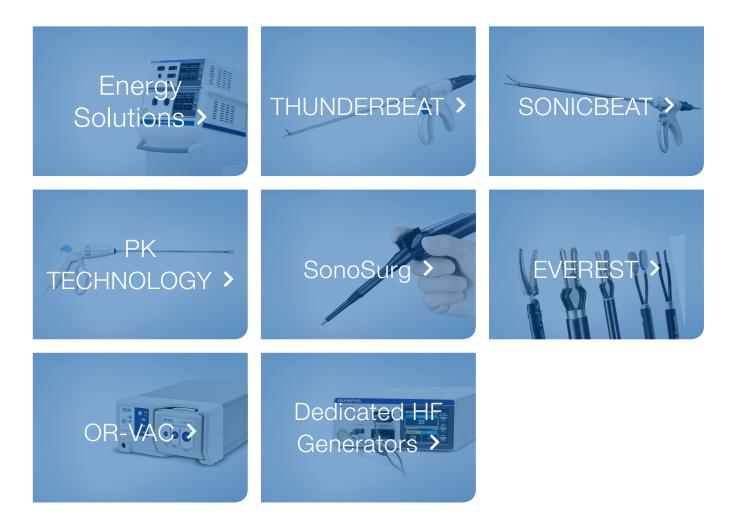


Energy Product Catalog The Complete Portfolio





Energy Solutions Unique Hybrid Technology, Advanced Bipolar Energy, and Ultrasonic Energy

One System That Covers Different Medical Specialties and Technologies for Open, Laparoscopic, and Endoscopic Surgery

Electrosurgery

ESG-400 – A Fully Equipped, Latest-Generation HF Generator

Optimizing your state-of-the-art electrosurgery in all surgical disciplines for monopolar, bipolar, and advanced bipolar modes for open, laparoscopic, and endoscopic applications, as well as transurethral or transcervical resection (TURis/TCRis).



Ultrasonic Surgery

USG-400 – Ultrasonic Energy for Advanced Tissue Management

The USG-400 generator provides compatibility with the SONICBEAT ultrasonic dissector.

Unique Hybrid THUNDERBEAT Technology

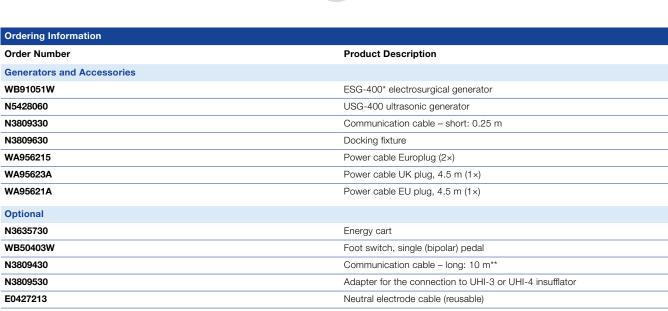
Surgical Tissue Management System

Two combined surgical energy generators provide a unique platform that delivers the most widely used energy requirements to the surgical suite, eliminating the need for multiple devices in the operating room.



One System for D	ifferent Medical S	pecialties					
Bariatrics	Upper GI	Lower GI	Urology	Other	ENT	Gynecology	Breast Surgery
			Standard HF	Accessories			
			THUND	ERBEAT			
		SONICBEAT				PK TECHNOLOGY	

The Surgical Tissue Management System



* Including one double foot switch

** Required for the automatic mist and smoke evacuation function

Connection Options

ESG-400 Sockets

	2×3 -pin (Ø 4 mm), international standard
Monopolar	1×1 -pin (Ø 8 mm), Bovie standard
	1 × coaxial (Ø inner 5 mm / Ø outer 9 mm), Erbe standard
Bipolar	1 \times 2-pin (Ø 4 mm, pin spacing 28.8 mm), international standard
ыротаг	1 × coaxial (Ø inner 4 mm / Ø outer 8 mm), Erbe standard
Universal	1 × 7-pin, Olympus standard
Neutral electrode	2-pin standard, single, or split

USG-400 Sockets

1

2



Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.









THUNDERBEAT Unique Hybrid Technology



Olympus aims to provide innovative energy solutions delivering surgical safety and instrument versatility for efficient and streamlined operations with optimal patient outcomes. This is why Olympus developed the unique hybrid technology THUNDERBEAT for open and laparoscopic surgery. THUNDERBEAT is the world's first and only advanced energy system that delivers two well-established forms of energy to a tissue simultaneously:

\cdot Ultrasonic energy for superior dissection and fast tissue-cutting capability

· Advanced bipolar energy for fast and secure hemostasis for vessels up to and including 7 mm in diameter

With the introduction of the new-generation THUNDERBEAT Type S, the unique concept of hybrid energy technology is raised to the next level. The development of the innovative Type S coating and the revolutionary safety system Intelligent Tissue Monitoring (ITM) enables an optimal temperature control and targeted application of energy for a safe and fast operation.

System compatibility of THUNDERBEAT — with the ESG-400 generator in combination with the USG-400 generator.



THUNDERBEAT

Ordering Informa	ation					
Order Number	Product Description	Article Code	Diameter	Length	Grip	Pieces
THUNDERBEAT	Instruments for Endoscopic Surgery					
EGTB-0535FCS	THUNDERBEAT Type S	TB-0535FCS	5 mm	35 cm	Front-actuated	5/box
EGTB-0545FCS	THUNDERBEAT Type S	TB-0545FCS	5 mm	45 cm	Front-actuated	5/box
N3810430	THUNDERBEAT	TB-0535PC	5 mm	35 cm	Pistol	5/box
THUNDERBEAT	Instruments for Open Surgery					
N5423930	THUNDERBEAT Type S	TB-0520FCS	5 mm	20 cm	Front-actuated	5/box
N3810730	THUNDERBEAT	TB-0520IC	5 mm	20 cm	Inline	5/box
N3810830	THUNDERBEAT	TB-0510IC	5 mm	10 cm	Inline	5/box
N4505530	THUNDERBEAT Open Extended Jaw	TB-09200E	9.7 mm	20 cm	Front-actuated	5/box
N4505730	THUNDERBEAT Open Fine Jaw	TB-00090F		9 cm	Scissor	5/box
Generators and	Accessories					
WB91051W	ESG-400 electrosurgical generator	ESG-400				
N5428060	USG-400 ultrasonic generator	USG-400				
N3808760	Transducer for THUNDERBEAT	TD-TB400				
N3809330	Communication cable – short: 0.25 m					
N3809630	Docking fixture					
WA956215	Power cable Europlug (2×)					
WA95623A	Power cable UK plug, 4.5 m (1×)					
WA95621A	Power cable EU plug, 4.5 m (1×)					
A90223A	Cleaning adapter for hooks					
N2366530	Cleaning adapter for scissors					
N2301000	Cleaning brush for surfaces (all instruments)					
Optional Equipm	ent					
N3635730	Energy cart, TC-E400					
N3809230	Foot switch for THUNDERBEAT					
WB50403W	Foot switch, single (bipolar) pedal					
N3809430	Communication cable - long: 10 m					
N3809530	Adapter for the connection to UHI-3 or UHI-4 insufflator					
E0427213	Neutral electrode cable (reusable)					

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SONICBEAT







SONICBEAT is based on the design of Olympus' THUNDERBEAT in order to meet the aim of steadily developing ergonomic and multipurpose instruments for open and laparoscopic surgery. In contrast to THUNDERBEAT, SONICBEAT operates with ultrasonic energy only.

In direct combination with the USG-400 generator, the latest SONICBEAT technology harnesses ultrasonic energy for the highest level of precision and safe application. Respecting anatomic layers, SONICBEAT provides the finest dissection as well as simultaneous cutting and consistent sealing of 5.0 mm vessels, at the lowest level of lateral thermal spread.



SONICBEAT

Ordering Inform	ation					
Order Number	Product Description	Article Code	Diameter	Length	Grip	Pieces
SONICBEAT Ins	truments for Endoscopic Surgery					
N5390430	SONICBEAT	SB-0535FC	5 mm	35 cm	Front-actuated	5/box
N5390630	SONICBEAT	SB-0545FC	5 mm	45 cm	Front-actuated	5/box
SONICBEAT Ins	truments for Open Surgery					
N5390830	SONICBEAT	SB-0520FC	5 mm	20 cm	Front-actuated	5/box
Generators and	Accessories					
N3808860	Transducer for SONICBEAT	TD-SB400				
N5428060	USG-400 ultrasonic generator	USG-400				
WA95623A	Power cable UK plug, 4.5 m (1×)					
WA95621A	Power cable EU plug, 4.5 m (1×)					
Optional Equipn	nent					
N3635730	Energy cart, TC-E400					
N3809130	Foot switch for SONICBEAT					
N3809530	Adapter for the connection to UHI-3 or UHI-4 insufflator					

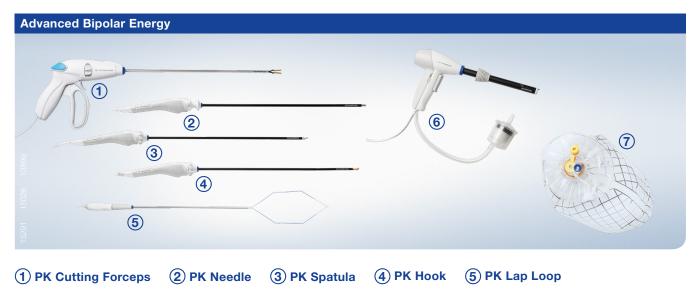
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PK TECHNOLOGY Advanced Bipolar Energy



6 PK Morcellator

(7) PneumoLiner

PK TECHNOLOGY provides surgeons with the ability to seal, transect, coagulate, dissect, vaporize, resect, and mobilize tissue all with precision and control from one energy platform: the ESG-400 – a fully equipped, latest-generation HF generator that provides the PK TECHNOLOGY instruments with advanced bipolar energy. An auto-detection function and dedicated sealing and cutting modes for PK TECHNOLOGY instruments and other Olympus devices help simplify the OR workflow.



PK TECHNOLOGY

Ordering Information	n			
Order Number	Product Description	Diameter	Length	Pieces
PK TECHNOLOGY In	nstruments			
EGPK-CF0533	PK Cutting Forceps	5 mm	33 cm	5/box
WA90300A	PK Lap Loop	5 mm	33 cm	5/box
EGPK-NE0533	PK Needle	5 mm	33 cm	5/box
EGPK-JH0533	PK J-Hook	5 mm	33 cm	5/box
EGPK-SP0533	PK Spatula	5 mm	33 cm	5/box
Contained Tissue Extraction System				
WA90200A	PK Morcellator			
WA90500A	PneumoLiner			
Generators and Acc	essories			
WB91051W	ESG-400 electrosurgical generator			
WA95623A	Power cable UK plug, 4.5 m (1×)			
WA95621A	Power cable Europlug, 4.5 m (1×)			
Optional Equipment				
N3635730	Energy cart, TC-E400			
WB50403W	Foot switch, single (bipolar) pedal			
N3809530	Adaptor for the connection to UHI-3 or UHI-4 insufflator			
E0427213	Neutral electrode cable (reusable)			

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SonoSurgX Ultrasonic Instruments

Thanks to the fully reusable, autoclavable instruments SonoSurg offers an excellent price–performance ratio. The system enables a very precise dissection and controlled energy delivery for reliable cutting and coagulation in laparoscopic and open procedures of various surgical disciplines like general surgery, gynecology, and urology.



SonoSurg Ultrasonic Aspirators

The SonoSurg ultrasonic aspirator comprised of the IU irrigation unit* and KV-6 suction pump is a compact, high-powered system ensuring efficient ultrasound aspiration and coagulation. The system offers a wide selection of autoclavable probes to suit your needs in open and laparoscopic surgery.

System Compatibility of SonoSurg Devices with the SonoSurg G2 Generator

The SonoSurg G2^{*} is a multifunctional ultrasonic generator enabling the use of cost-efficient reusable instruments available for open and endoscopic surgery. For a clear view during endoscopic procedures through automatic mist and smoke evacuation the SonoSurg system can be combined with the UHI-3 or UHI-4 insufflators.

* Please note that the IU irrigation unit and the SonoSurg G2 generator are no longer available.



SonoSurg

Ordering Inform	mation					
Order Number	Product Description	Article Code	Diameter	Length	Grip	Tip Desig
SonoSurgX Inst	ruments for Endoscopic Surgery					
N2643660	SonoSurgX scissor	T3771	5 mm	34 cm	Pistol	Straight
N2643960	SonoSurgX scissor (HF)	T3900	5 mm	34 cm	Pistol	Straight
N2643760	SonoSurgX scissor	T3775	5 mm	34 cm	Pistol	Curved
N2644060	SonoSurgX scissor (HF)	T3905	5 mm	34 cm	Pistol	Curved
N2644160	SonoSurgX scissor (HF)	T3910	5 mm	34 cm	Inline	Straight
N2644260	SonoSurgX scissor (HF)	T3915	5 mm	34 cm	Inline	Curved
N2643860	SonoSurgX scissor	T3795	5 mm	45 cm	Pistol	Curved
SonoSurg Instru	iments for Endoscopic Surgery					
N2301160	SonoSurg scissor	T3071	5 mm	35.7 cm	Pistol	Straight
N2301460	SonoSurg scissor (HF)	T3100	5 mm	34 cm	Pistol	Straight
N2301260	SonoSurg scissor	T3075	5 mm	34 cm	Pistol	Curved
N2301560	SonoSurg scissor (HF)	T3105	5 mm	34 cm	Pistol	Curved
N2301660	SonoSurg scissor (HF)	T3110	5 mm	34 cm	Inline	Straight
N2301760	SonoSurg scissor (HF)	T3115	5 mm	34 cm	Inline	Curved
N2301360	SonoSurg scissor	T3095	5 mm	45 cm	Pistol	Curved
A90208A	SonoSurg hook	T3060	5 mm	33 cm		
SonoSurgX Inst	ruments for Open Surgery					
N2644760	SonoSurgX scissor (HF)	T3955	5 mm	8.8 cm	Inline	Curved
N2644560	SonoSurgX scissor (HF)	T3930	5 mm	19 cm	Pistol	Straight
N2644660	SonoSurgX scissor (HF)	T3935	5 mm	19 cm	Pistol	Curved
N2644360	SonoSurgX scissor (HF)	T3920	5 mm	19 cm	Inline	Straight
N2644460	SonoSurgX scissor (HF)	T3925	5 mm	19 cm	Inline	Curved
SonoSurg Instru	iments for Open Surgery					
N2302260	SonoSurg scissor (HF)	T3155	5 mm	8.8 cm	Inline	Curved
N2302060	SonoSurg scissor (HF)	T3130	5 mm	19 cm	Pistol	Straight
N2302160	SonoSurg scissor (HF)	T3135	5 mm	19 cm	Pistol	Curved
N2301860	SonoSurg scissor (HF)	T3120	5 mm	19 cm	Inline	Straight
N2301960	SonoSurg scissor (HF)	T3125	5 mm	19 cm	Inline	Curved
N1051930	SonoSurg hook	T3080	5 mm	11.3 cm		
Aspirator for En	doscopic Surgery					
N1806830	Aspirator probe for T3330 (HF)	MH-125	7 mm	43 cm		Straight
N1807230	Aspirator sheath, long	T3330		45.8 cm		Straight
Aspirator for Op	ben Surgery					
N1806630	Aspirator probe for T3310 (HF)	MH-112	7 mm	11.7 cm		Straight
N1807030	Aspirator sheath, short	T3310		14.5 cm		Straight
N1806730	Aspirator probe for T3320 (HF)	MH-113	7 mm	12.9 cm		Angled
N1807130	Aspirator sheath, angled	T3320		15.3 cm		Angled
N1806930	SonoSurg attachment for sheaths	T3300				

Order Number	Product Description	Article Code
SonoSurg Instru	ment Accessories	
A90205A	SonoSurg transducer with connecting cable	T2H
N1021430	SonoSurg transducer without detachable MAJ-1121 connecting cable	T2H-C
N1021500	Cable for T2H-C transducer	MAJ-1121
A05952A	Instrument tray with lid for SonoSurg instruments	
N2367160	SonoSurg hand switch	MAJ-677
A90222A	Torque wrench	MAJ-1117
26441	Cleaning brush for transducer	MH-507
WA90214A	Cleaning brush for hook/scissor	MH-362
A90223A	Cleaning adapter for hooks	MAJ-1118
N2366530	Cleaning adapter for scissors	MAJ-1532
N2301000	Cleaning brush for surfaces (all instruments)	MAJ-1534

Order Number	Product Description	Article Code
Aspirator Access	ories	
N1807930	Tubing set for suction/irrigation	MAJ-1099
N1806430	SonoSurg transducer without detachable MAJ-1121 connecting cable	T2L-GE-C
N1021500	Cable for T2L-GE-C transducer	MAJ-1121
A05952A	Instrument tray with lid for SonoSurg instruments	-
N1808130	Cleaning rod for aspirator probe	MAJ-1178

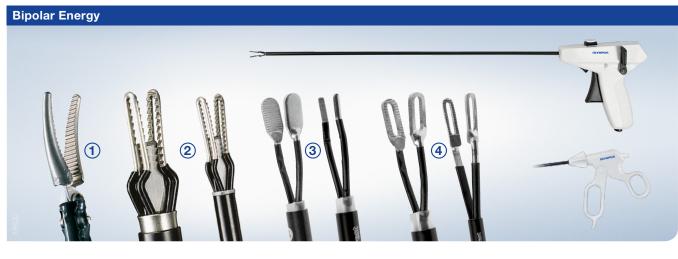
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Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.









1 Everest LYONS Dissecting Forceps (2) Everest Bipolar Cutting Forceps ③ Everest Macro-jaw and Micro-jaw Forceps (4) Everest MOLly Forceps

Everest Bipolar Products

The Everest Bipolar Products offer a wide range of instruments for precise tissue coagulation, transecting, dissection, grasping and mobilization. Bipolar technology reduces the hazards associated with monopolar electrosurgery, including alternate site burns, direct coupling, capacitive coupling, and insulation failure. It also minimizes lateral thermal spread. Bipolar coagulation is superior compared to monopolar electrosurgical technology and yields less collateral thermal damage.^{1,2}

System compatibility of Everest with the ESG-400 generator and other standard bipolar generators.

¹ Vilos, G.A. and Rakumar, C. Electrosurgical Generators And Monopolar and Bipolar Electrosurgery. Journal of Minimally Invasive Gynecology. 2013;20:279–287.

² Livaditis, G.J. Comparison Of Monopolar And Bipolar Electrosurgical Modes For Restorative Dentistry: A Review of the Literature. J Prosthetic Dentistry. 2001;86:390–399.

EVEREST

Ordering Inform	nation		
Order Number	Product Description	Diameter	Length
Everest Bipolar	Cutting Forceps		
EG3005	Everest cutting forceps	5 mm	33 cm
EG3006-020	Everest cutting forcepss, with cord	5 mm	33 cm
Everest LYONS	Dissecting Forceps		
EG3700-000	Everest LYONS dissecting forceps	5 mm	33 cm
EG3740-000	Everest LYONS dissecting forceps	5 mm	45 cm
Everest MOLly F	orceps		
EG3300-000	Everest MOLly forceps	3 mm	33 cm
EG3330-000	Everest MOLly forceps	5 mm	33 cm
EG3345-000	Everest MOLly forceps	5 mm	45 cm
Everest Macro-J	aw and Micro-Jaw Forceps		
EG3600-000	Everest Macro-jaw forceps	5 mm	33 cm
EG3640-000	Everest Macro-jaw forceps	5 mm	45 cm
EG3601-000	Everest Micro-jaw forceps	5 mm	33 cm
Everest Connce	tor Cords For Standard Bipolar Generators*		
EGEC3999	Fixed dual banana pin style cord to connect Everest devices to generators with standard banana pin receptacles		

*Reusable, supplied non-sterile

All devices supplied sterile, single-use disposable, except for Everest connector cords.

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OR-VAC Surgical Smoke Evacuator



The OR-VAC surgical smoke evacuator provides ideal smoke management for operating rooms, physicians' offices, and outpatient surgery centers. The OR-VAC minimizes exposure to these toxic smoke biohazards during electrosurgery, procedures with lasers, and ultrasound tissue dissections. It combines variable filter life, a compact design, and three-port filter with filter-life-tracking technology.

OR-VAC



Order Number	Reference Number*	Product Name
WA98110A	HYVV220	OR-VAC surgical smoke plume evacuator, 220/240 V
WA98115A	FOVV220	OR-VAC surgical smoke plume evacuator, 220/240 V, with exhaust capture port
WA98120A	OL3532	OR-VAC filter, 2/box
WA98130A	OLLAP12	OR-VAC laparoscopic smoke evacuation tube, 12/box
WA98160A	OL3MT24	OR-VAC open smoke evacuation tube, 24/box
WA98140A	OLSONIC	OR-VAC adapter for automatic activation
WA98150A	OLPRFIL20	OR-VAC fluid trap, 20/box
WA98170A	OLPWRCORDUKM	Power cord, UK
N3647400	-	Communication cable, length 0.7 m
N3647600	-	Communication cable, length 1.8 m
N3809430	-	Communication cable, length 10 m
K7504124	-	TC-C2 compact trolley**

Specifications		F
Dimensions	15.2 (H) \times 27.9 (W) \times 39.4 (D) cm	5
Weight	5.0 kg	2
Noise Level	55.0 dB A (max.)	g

Liters per Minute
708*
130
57

* Using new 22 mm tubing

** If TC-E400 is not suitable and an additional cart is needed

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Dedicated HF Generators For ENT, Gastrointestinal and Respiratory



ESG-200

CELON ELITE is a radiofrequency-based power control unit that incorporates multiple functions into a single device. The intelligent tissue monitoring allows precise and safe tissue ablation for a variety of ENT indications.

Specifications

Areas of Application	ENT, Head and Neck	
Special Features	 Touch screen Personalized settings Radiofrequency-induced thermotherapy (RFITT) 	
Sockets	Bipolar output	Monopolar output
	Olympus standard 2-pin plug (28 mm) Erbe standard 1-pin coaxial plug	International standard 3-pin plug (4 mm diameter) Bovie standard* 1-pin plug (8 mm diameter) Erbe standard** 1-pin plug (5 mm diameter) Banana plug 1-pin plug (4 mm diameter)
Max. Power Output	120 watts	



ESG-300

The ESG-300 is a high-end HF generator dedicated to advanced gastrointestinal and respiratory procedures such as POEM or ESD. The ESG-300 can be combined with the APU-300 for argon plasma applications.

Areas of Application	Gastrointestinal and respiratory		
Special Features	· Touch screen		
	· Wireless foot switch		
	 Personalized settings 		
	· Argon PLASMA ready		
	(in combination with APU-300)		
Sockets	Bipolar output	Monopolar output	
	International standard	International standard	
	2-pin plug (22 mm)	3-pin plug (4 mm	
	Erbe standard	diameter)	
	1-pin coaxial plug	Bovie standard	
		1-pin plug (8 mm	
		diameter)	
		Banana plug	
		1 min mlug (4 mm	
		1-pin plug (4 mm	

Dedicated HF Generators



Ordering Information

CELON ELITE (ESG-200)		
Order Number	Product Description	
WA90001A	CELON ELITE "Type E", (incl. double-pedal foot switch)	
WA90002A	CELON ELITE "Type B", (incl. double-pedal foot switch)	
WA95621A	Power cable, EU, 4.5 m with angled plug	
WA95622A	Power cable, US, 4.5 m with angled plug	
WA95623A	Power cable, UK, 4.5 m with angled plug	
WB50402W	Double-pedal foot switch	
E0427213	MAJ-814 P-Cord for disposable neutral electrodes	
WB990007	CelonProBreath	
WB990008	CelonProSleep Plus	
WB990278	CELON ELITE ProCut Handpiece	
WB990177	CelonProCut Electrode (5 pcs/box)	
WB990202	CelonProCut Gripping Forceps	

ESG-300		
Order Number	Product Description	
WA90003W	ESG-300 electrosurgical generator	
WA90004W	APU-300 argon plasma unit	
WA94034W	Wireless foot switch incl. receiver and charger	
WA94033C	Wired foot switch, 4 m cable	
K10026806	TC-E300 (EU) system cart, for most European countries	
K10026805	TC-E300 (UK) system cart, UK standard	
A02915A	MAJ-860 active cord for ET instruments, 8 mm	
E0427213	MAJ-814 connecting cable for disposable neutral electrode	
E0427245	MAJ-897 split neutral electrode, disposable, 10 pcs	
WA94041A	Pressure reducer, DIN 477-6, central and southern Europe	
WA94042A	Pressure reducer, DIN 477-10, northern Europe	
WA94043A	CGA no. 580, Italy	

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