

## Legend

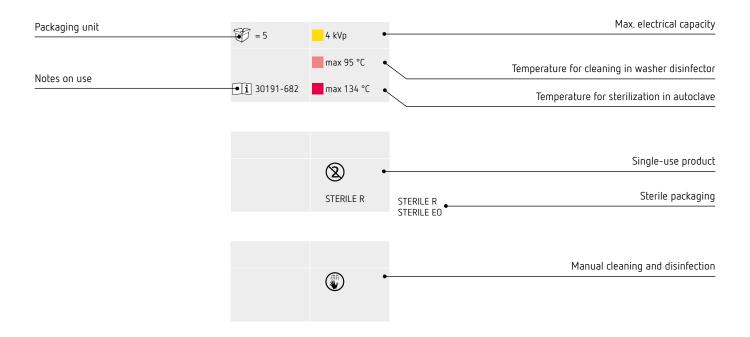
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# Further product information



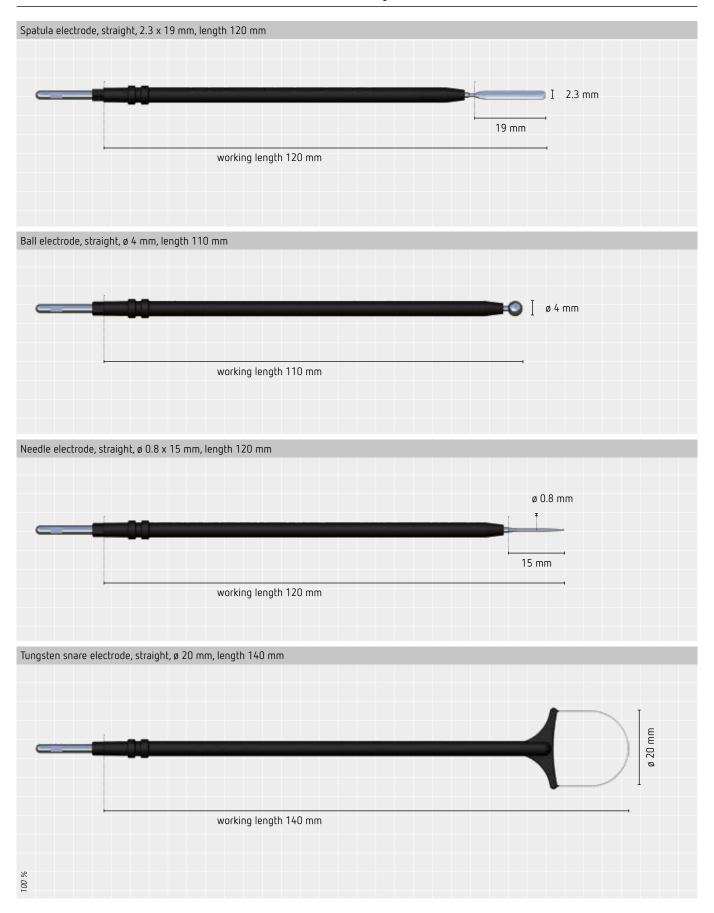
Please read carefully the corresponding notes on use before using any instrument.

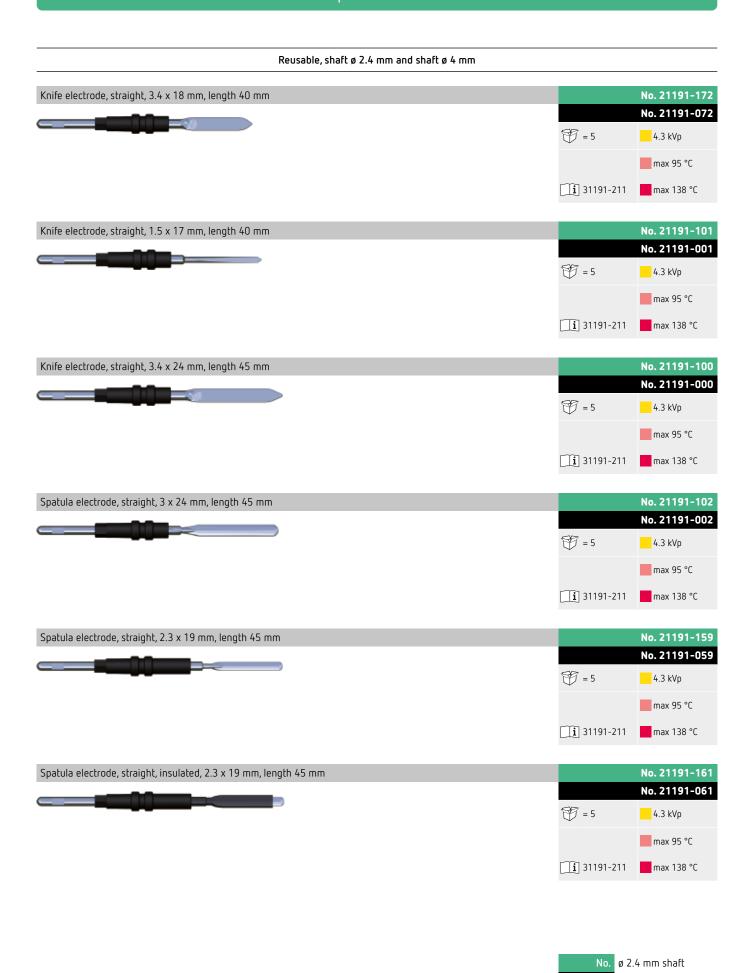
## Contents

# Electrosurgery

# Monopolar electrodes Monopolar instruments Reusable, shaft ø 2.4 mm and shaft ø 4 mm Single use, shaft ø 2.4 mm Shaft extensions, chucks, cleaning pad

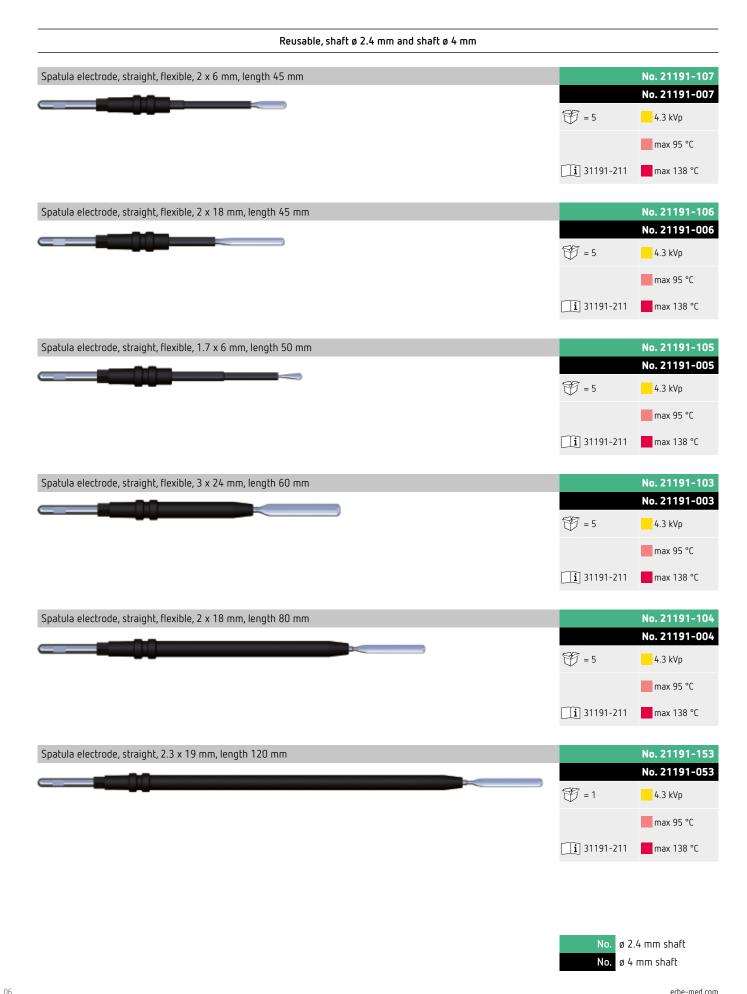
#### Dimensioning

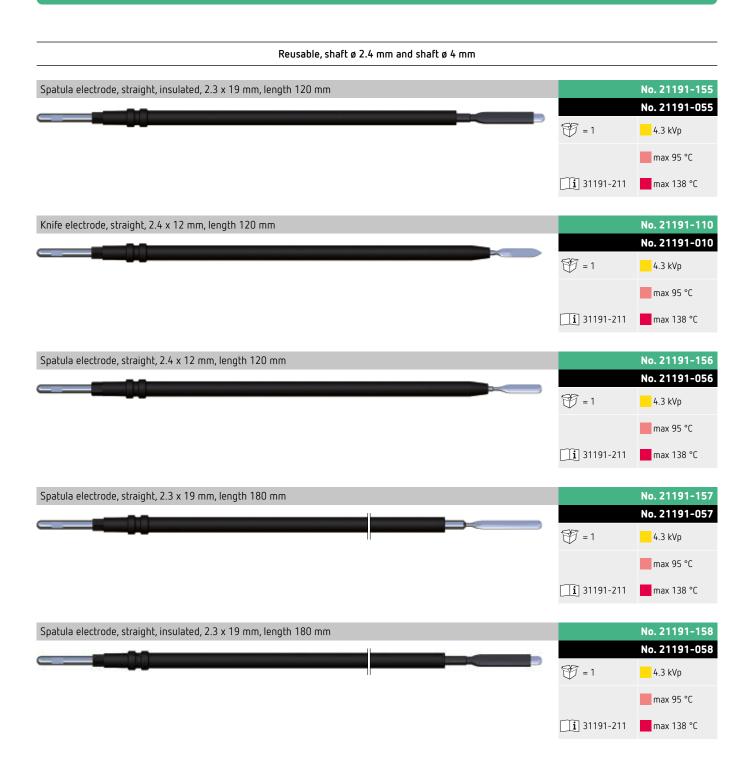


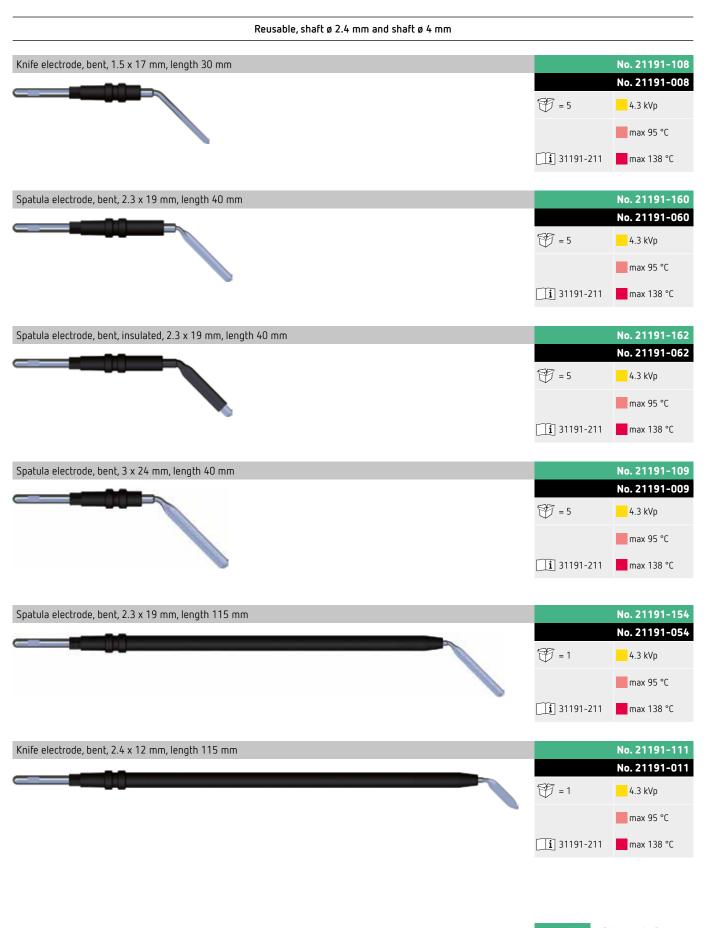


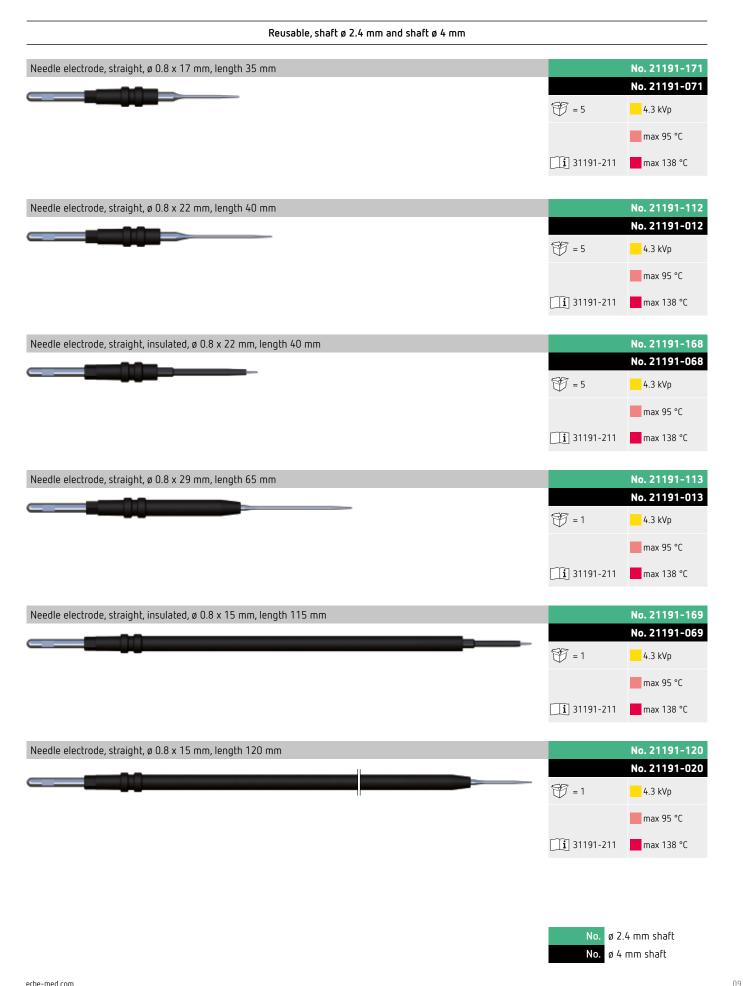
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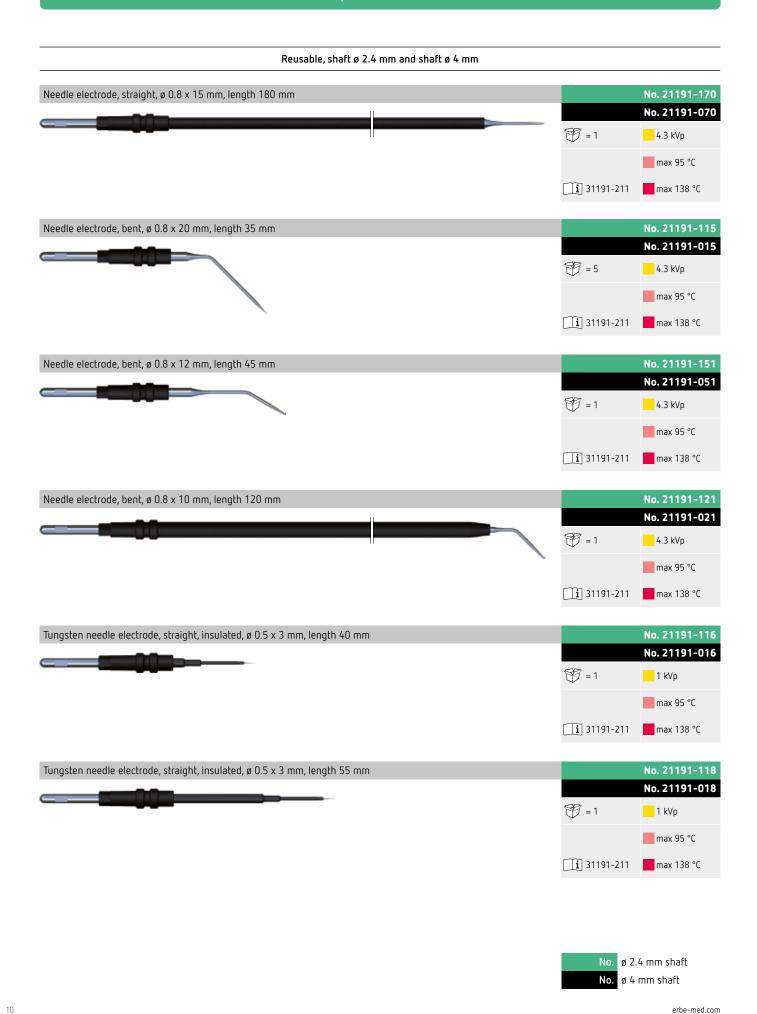
No. ø 4 mm shaft

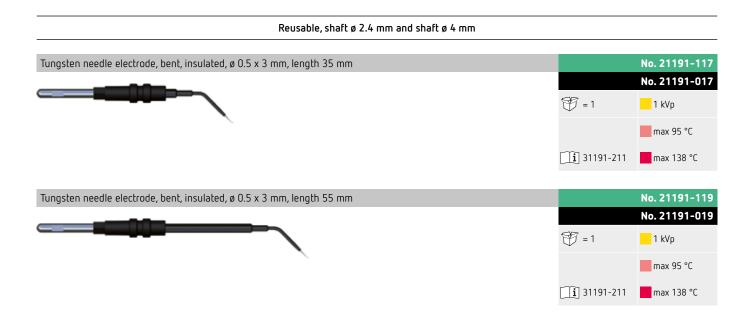


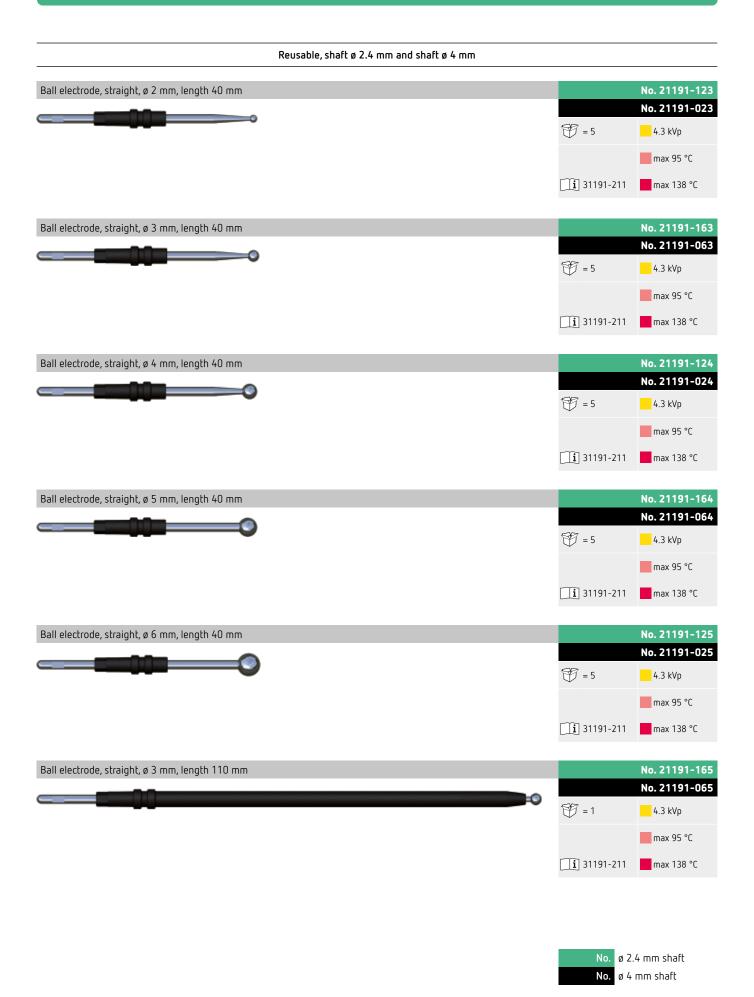


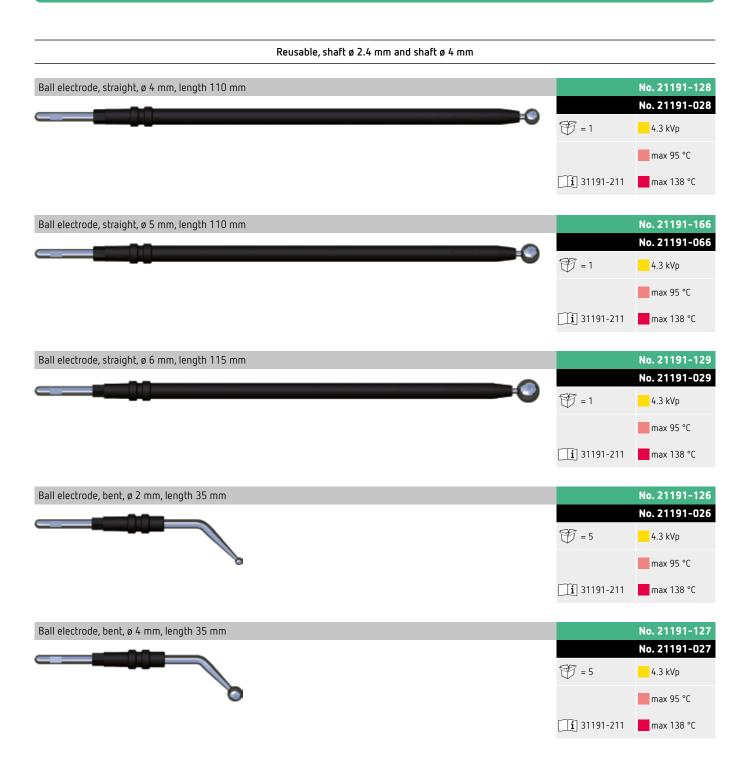






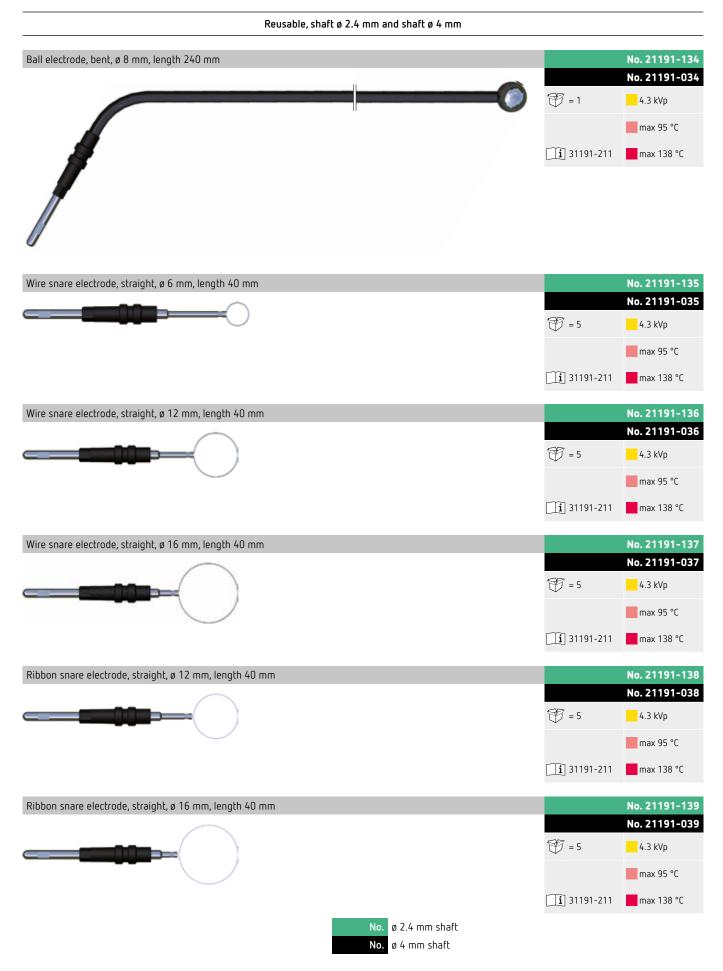




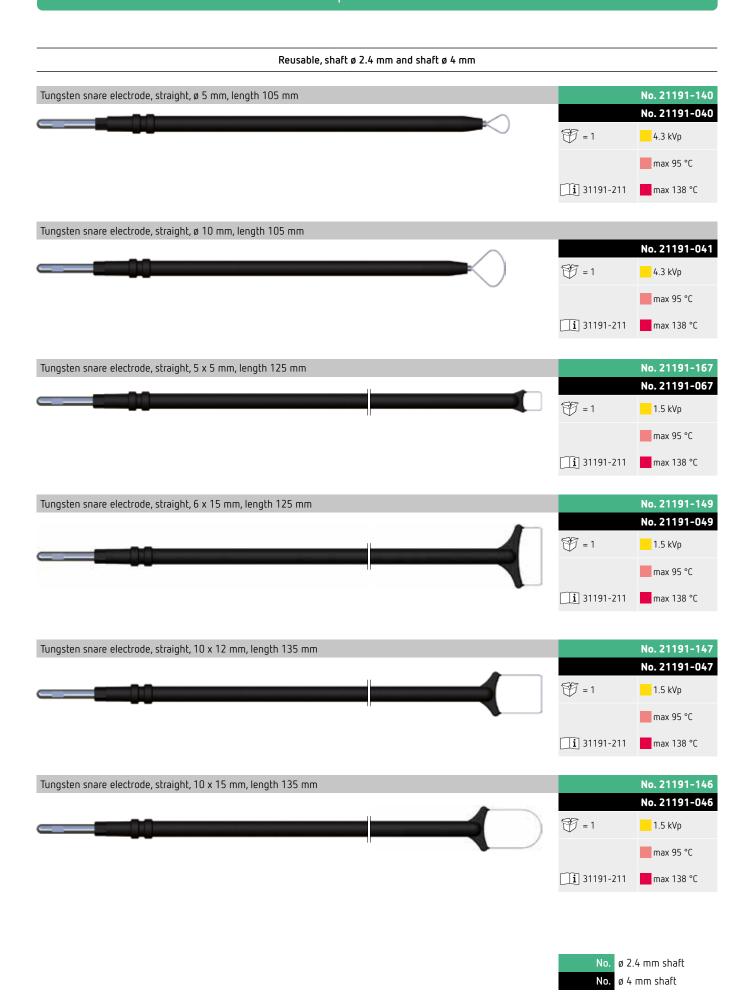


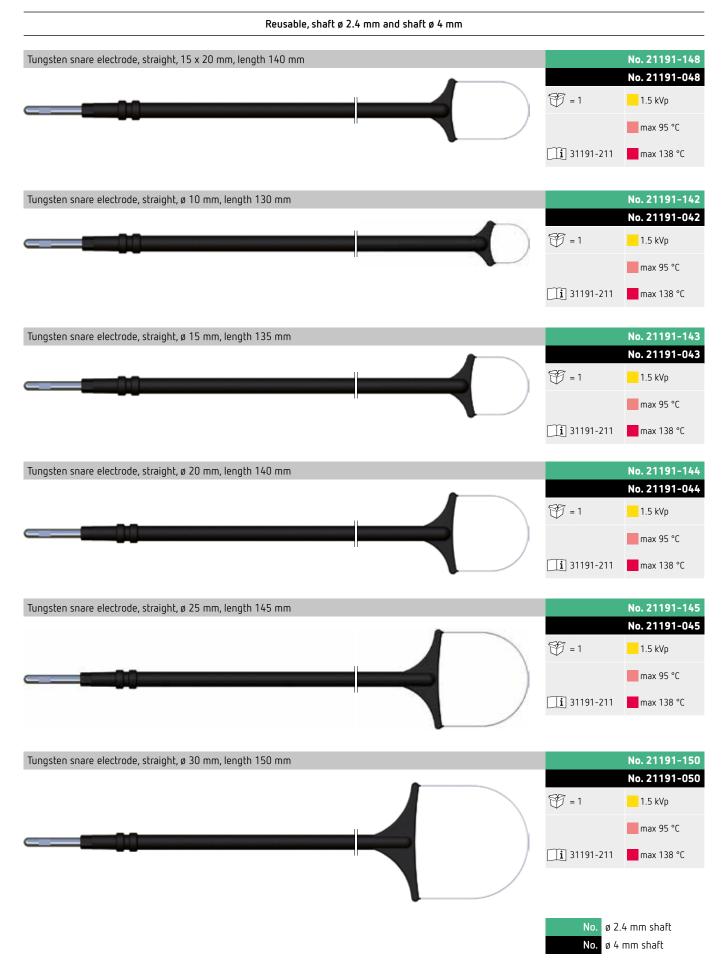
## Reusable, shaft ø 2.4 mm and shaft ø 4 mm No. 21191-130 Ball electrode, bent, ø 2 mm, length 115 mm No. 21191-030 **= 1** 1 kVp max 95 °C **i** 31191-211 max 138 °C Ball electrode, bent, ø 4 mm, length 115 mm No. 21191-131 No. 21191-031 = 1 1 kVp max 95 °C **i** 31191-211 max 138 °C Ball electrode, bent, ø 8 mm, length 190 mm No. 21191-132 No. 21191-032 = 1 4.3 kVp max 95 °C **i** 31191-211 max 138 °C Ball electrode, bent, ø 10 mm, length 190 mm No. 21191-133 No. 21191-033 = 1 4.3 kVp max 95 °C **i** 31191-211 max 138 °C No. ø 2.4 mm shaft

No. ø 4 mm shaft



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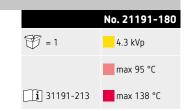
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#### Reusable, shaft ø 2.4 mm

#### Small surgical set, ø 2.4 mm

consisting of electrodes 21191-124, 21191-135, 21191-112, 21191-100 and 21191-108



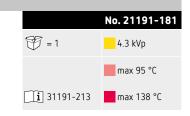


Consisting of	Diameter	Width	Length	No.
Ball electrode, straight	4 mm			21191-124
Wire snare electrode, straight	6 mm			21191-135
Needle electrode, straight	0.8 mm		22 mm	21191-112
Knife electrode, straight		3.4 mm	24 mm	21191-100
Knife electrode, bent		1.5 mm	17 mm	21191-108

#### Large surgical set, ø 2.4 mm

consisting of 15 monopolar electrodes



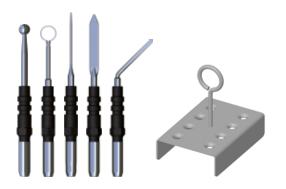


Consisting of	Diameter	Width	Length	No.
Ball electrode, straight	2 mm			21191-123
Ball electrode, straight	4 mm			21191-124
Ball electrode, straight	6 mm			21191-125
Ball electrode, bent	4 mm			21191-127
Ribbon snare electrode, straight	12 mm			21191-138
Ribbon snare electrode, straight	16 mm			21191-139
Wire snare electrode, straight	6 mm			21191-135
Wire snare electrode, straight	12 mm			21191-136
Knife electrode, bent		1.5 mm	17 mm	21191-108
Knife electrode, straight		1.5 mm	17 mm	21191-101
Knife electrode, straight		3.4 mm	24 mm	21191-100
Needle electrode, bent	0.8 mm		20 mm	21191-115
Needle electrode, straight	0.8 mm		22 mm	21191-112
Spatula electrode, straight	0.8 mm	3 mm	24 mm	21191-102
Spatula electrode, bent	0.8 mm	3 mm	24 mm	21191-109

#### Reusable, shaft ø 4 mm

#### Small surgical set, ø 4 mm

consisting of sterilizing insert 20191-004 and electrodes 21191-000, 21191-008, 21191-012, 21191-024 and 21191-035





Consisting of	Diameter	Width	Length	No.
Sterilizing insert for 8 electrodes				20191-004
Ball electrode, straight	4 mm			21191-024
Wire snare electrode, straight	6 mm			21191-035
Needle electrode, straight	0.8 mm		22 mm	21191-012
Knife electrode, straight		3.4 mm	24 mm	21191-000
Knife electrode, bent		1.5 mm	17 mm	21191-008

## Sterilizing insert for 8 electrodes, 66 x 17 x 46 mm (W x H x D)

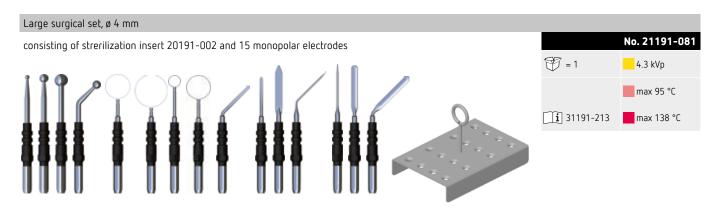
for shaft ø 4 mm



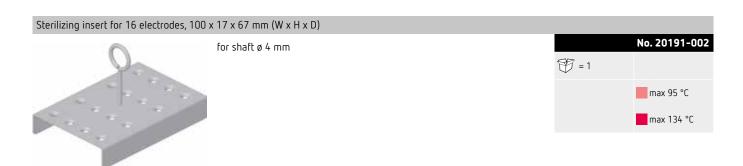
	No. 20191-004
= 1	
	max 95 °C
	max 134 °C

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#### Reusable, shaft ø 4 mm



Consisting of	Diameter	Width	Length	No.
Sterilizing insert for 16 electrodes				20191-002
Ball electrode, straight	2 mm			21191-023
Ball electrode, straight	4 mm			21191-024
Ball electrode, straight	6 mm			21191-025
Ball electrode, bent	4 mm			21191-027
Ribbon snare electrode, straight	12 mm			21191-038
Ribbon snare electrode, straight	16 mm			21191-039
Wire snare electrode, straight	6 mm			21191-035
Wire snare electrode, straight	12 mm			21191-036
Knife electrode, bent		1.5 mm	17 mm	21191-008
Knife electrode, straight		1.5 mm	17 mm	21191-001
Knife electrode, straight		3.4 mm	24 mm	21191-000
Needle electrode, bent	0.8 mm		20 mm	21191-015
Needle electrode, straight	0.8 mm		22 mm	21191-012
Spatula electrode, straight	0.8 mm	3 mm	24 mm	21191-002
Spatula electrode, bent	0.8 mm	3 mm	24 mm	21191-009



#### Old/new table: reusable, shaft ø 4 mm

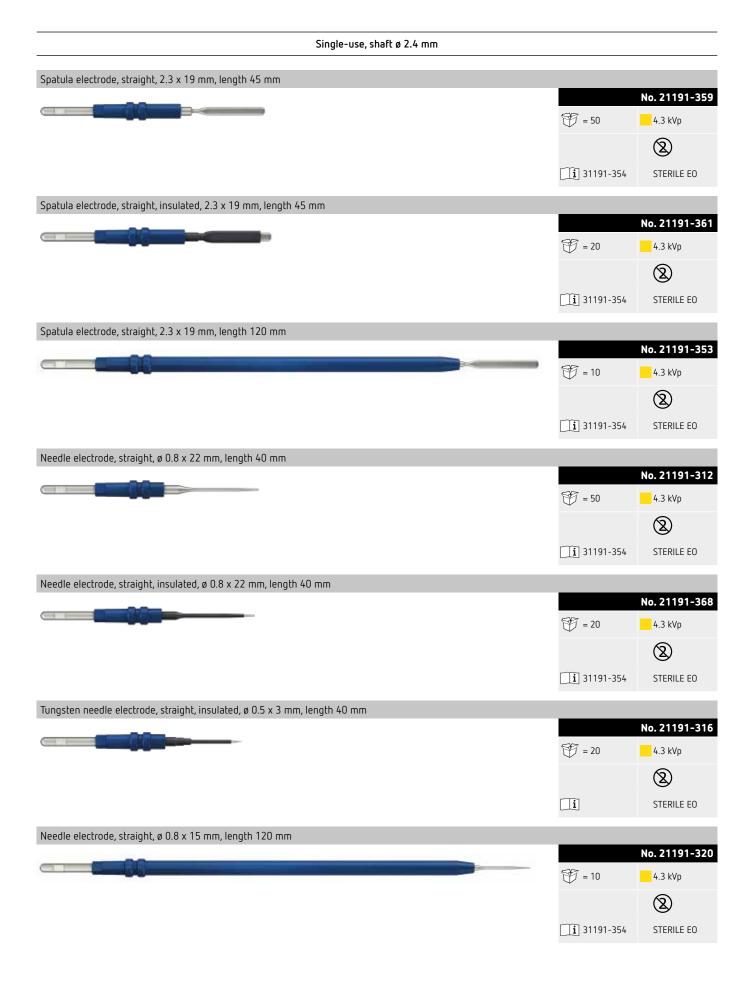
ø 4 mm shaft	Old	New
Tungsten snare electrode	20191-200	21191-041
Tungsten snare electrode	20191-201	21191-040
Ball electrode	20191-202	21191-029
Ball electrode	20191-203	21191-028
Knife electrode	20191-204	21191-010
Knife electrode	20191-205	21191-011
Needle electrode	20191-206	21191-020
Needle electrode	20191-207	21191-021
Knife electrode	20191-208	21191-000
Knife electrode	20191-209	21191-001
Spatula electrode	20191-210	21191-002
Needle electrode	20191-211	21191-012
Knife electrode	20191-212	21191-008
Spatula electrode	20191-213	21191-009
Needle electrode	20191-214	21191-015
Wire snare electrode	20191-215	21191-035
Wire snare electrode	20191-216	21191-036
Wire snare electrode	20191-217	21191-037
Ribbon snare electrode	20191-218	21191-038
Ribbon snare electrode	20191-219	21191-039
Ball electrode	20191-221	21191-023
Ball electrode	20191-222	21191-024
Ball electrode	20191-223	21191-025

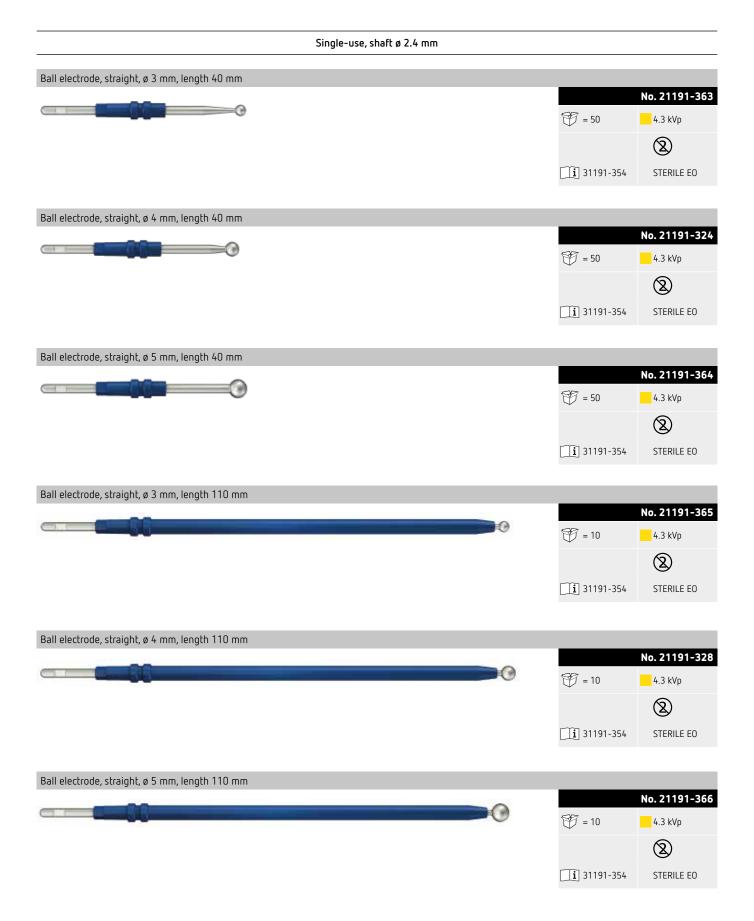
ø 4 mm shaft	Old	New
Ball electrode	20191-225	21191-026
Ball electrode	20191-226	21191-027
Needle electrode	20191-240	21191-013
Needle electrode	20191-251	-
Tungsten snare electrode	20191-252	21191-042
Tungsten snare electrode	20191-253	21191-043
Tungsten snare electrode	20191-254	21191-044
Tungsten snare electrode	20191-255	21191-045
Spatula electrode	20191-274	21191-003
Tungsten snare electrode	20191-291	21191-047
Tungsten snare electrode	20191-292	21191-048
Tungsten snare electrode	20191-293	21191-049
Spatula electrode	20191-337	21191-004
Spatula electrode	20191-338	21191-005
Spatula electrode	20191-339	21191-006
Spatula electrode	20191-340	21191-007
Tungsten needle electrode	20191-362	21191-016
Tungsten needle electrode	20191-363	21191-017
Tungsten needle electrode	20191-364	21191-018
Tungsten needle electrode	20191-365	21191-019
Spatula electrode	20191-373	21191-056
Tungsten snare electrode	20191-412	21191-050
Needle electrode	20191-414	21191-051

#### Old/new table: reusable, shaft ø 2.4 mm

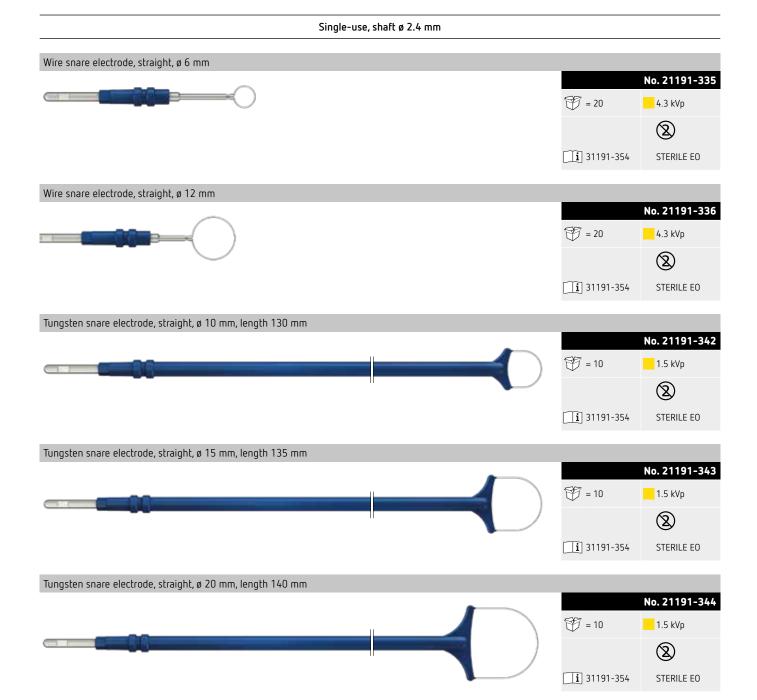
ø 2.4 mm shaft	Old	New
Ball electrode	20191-389	21191-123
Needle electrode	20191-390	21191-112
Spatula electrode	20191-391	21191-153
Spatula electrode	20191-392	21191-159

The design of the new  $2.4~\mathrm{mm}$  and  $4~\mathrm{mm}$  electrodes has been optimized. New order numbers apply. The old/new tables are effective immediately.

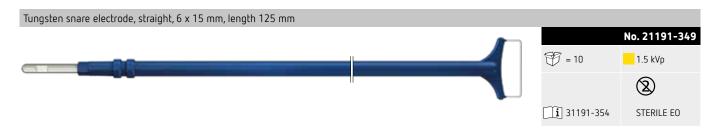


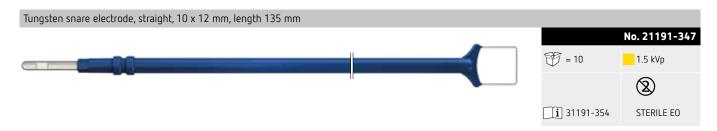


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#### Single-use, shaft ø 2.4 mm





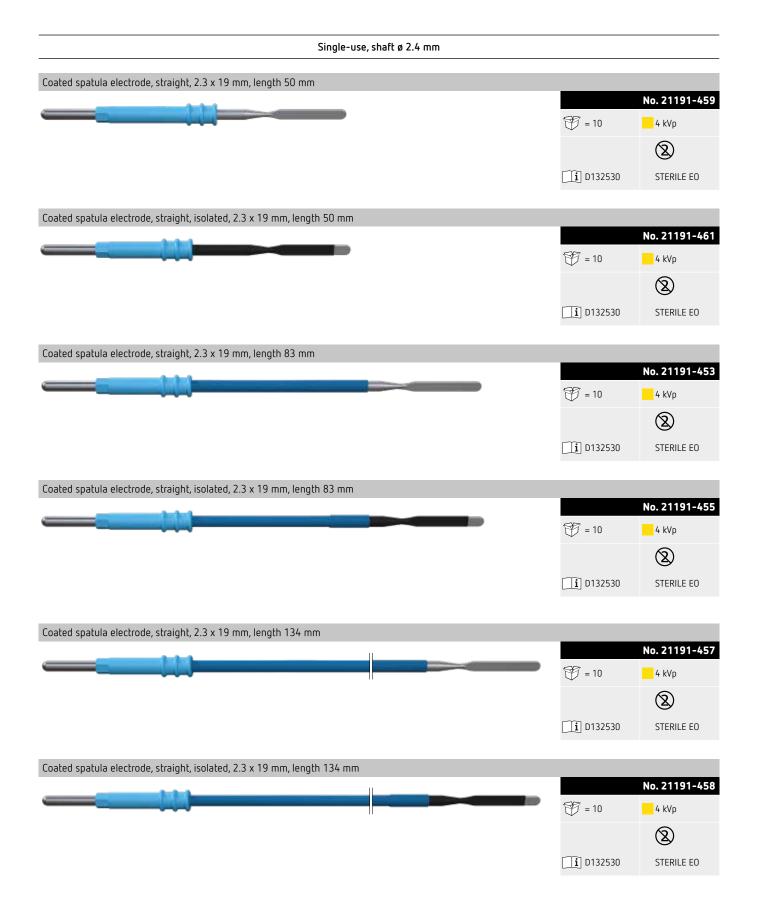
#### Old/new table: single-use, shaft ø 2.4 mm

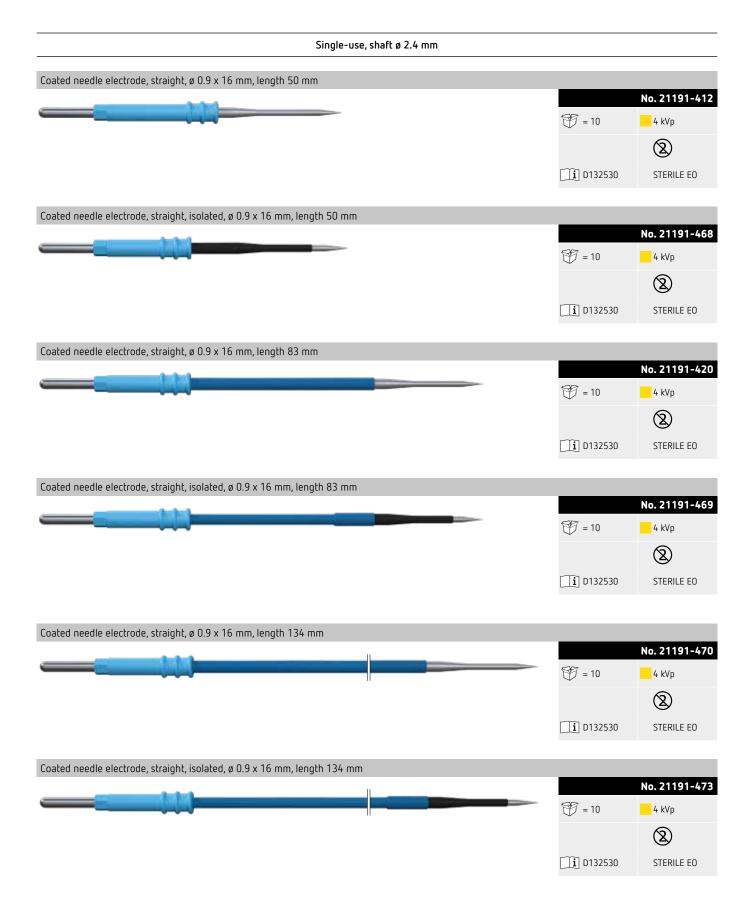
ø 2.4 mm shaft	Old	New
Needle electrode	20191-377	21191-312
Tungsten snare electrode	20191-385	21191-342
Tungsten snare electrode	20191-386	21191-343
Tungsten snare electrode	20191-387	21191-344
Tungsten snare electrode	20191-384	21191-347

ø 2.4 mm shaft	Old	New
Spatula electrode	20191-376	21191-359
Ball electrode	20191-378	21191-363
Ball electrode	20191-382	21191-365
Ball electrode	20191-383	21191-366
Spatula electrode	20191-379	21191-353

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The design of the new 2.4 mm and 4 mm electrodes has been optimized. New order numbers apply. The old/new tables are effective immediately.





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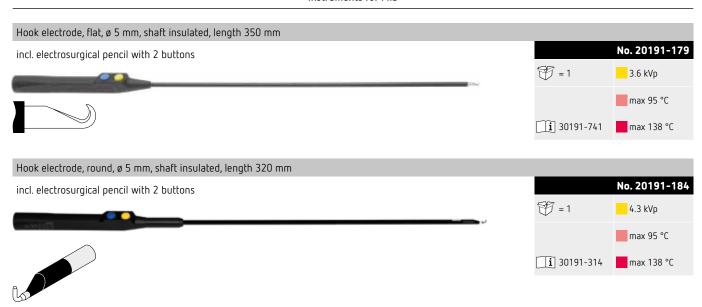




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## Monopolar instruments

#### Instruments for MIS



Monopolar connecting cables	Connection	Length	Piece	No.
Monopolar connecting cable, VIO, ICC, ACC, Standard, for electrosurgical pencils 20190-045	Standard (MO 9/5 mm) Standard (MO 9/5 mm)	4 m 5 m	1	20192-127 20192-094
Monopolar connecting cable, Martin Standard, 4 m, for electrosurgical pencils 20190-045	Martin Standard	4 m	1	20192-099
Monopolar connecting cable, VIO, ICC, ACC, International, 4 m, for electrosurgical pencils 20190-045	International	4 m	1	20192-110

## Monopolar instruments

#### Instruments for MIS



Monopolar connecting cables	Connection	Length	Piece	No.
Monopolar connecting cable, VIO, ICC, ACC, Standard, 4 m, for CUT and COAG MIS instruments, with connection Ø 4 mm	Standard (MO 9/5 mm)	4 m	1	20192-104
Monopolar connecting cable, Martin Standard, 4 m, for CUT and COAG MIS instruments, with connection Ø 4 mm	Martin Standard	4 m	1	20192-108
Monopolar connecting cable, VIO, ICC, ACC, International Ø 8 mm (Bovie Jack), 4 m, for CUT and COAG MIS instruments, with connection Ø 4 mm	International ø 8 mm (Bovie Jack)	4 m	1	20192-113
Monopolar connecting cable, 3-Pin, ø 4 mm socket, length 4.5 m for CUT and COAG MIS instruments, with connection ø 4 mm	International (3-Pin)	4.5 m	1	20192-133

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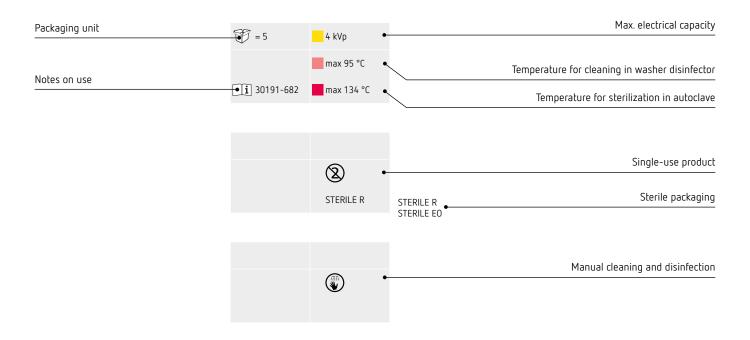
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# Electrosurgery

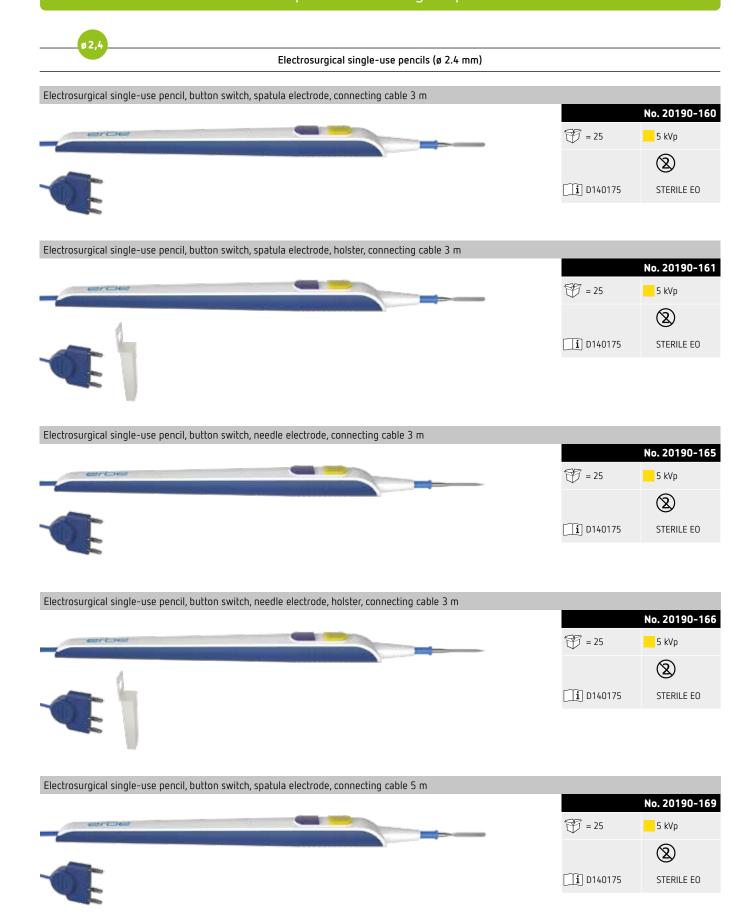
#### Monopolar electrosurgical pencils

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U	4	Flectros	urnical	single-use	nencils	(a 2 4	. mm)

- 07 Premium electrosurgical pencils (ø 2.4 mm)
- 08 Premium electrosurgical pencils (ø 4 mm)
- 10 ECO-LINE electrosurgical pencils (ø 2.4 mm)
- 11 Electrosurgical pencils for smoke evacuation

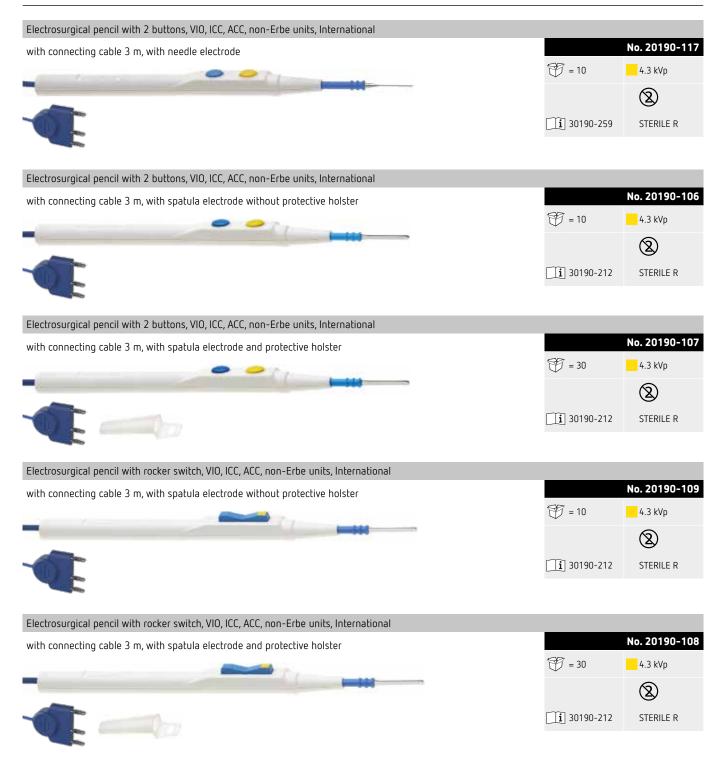
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## Monopolar electrosurgical pencils



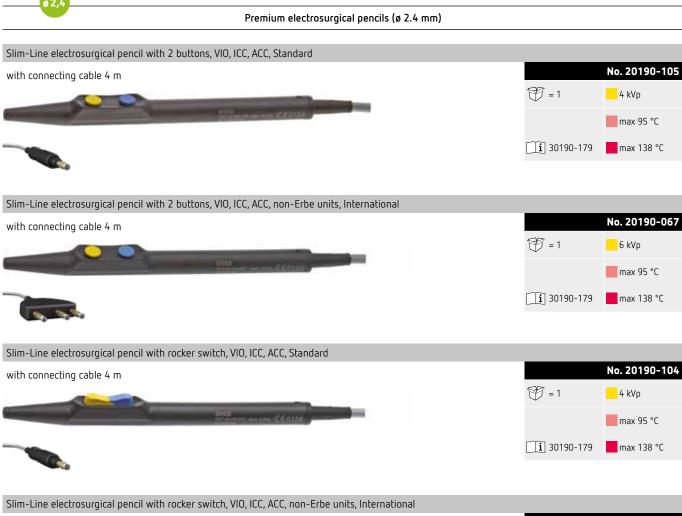


#### Electrosurgical single-use pencils (ø 2.4 mm)



Monopolar adapters for electrosurgical pencils with connecting plug International	Connection	Piece	No.
Monopolar Adapter, VIO, ICC, ACC, Standard (MO 9/5 mm), for connecting plug international (3 Pin)	Standard (MO 9/5 mm)	1	20183-028

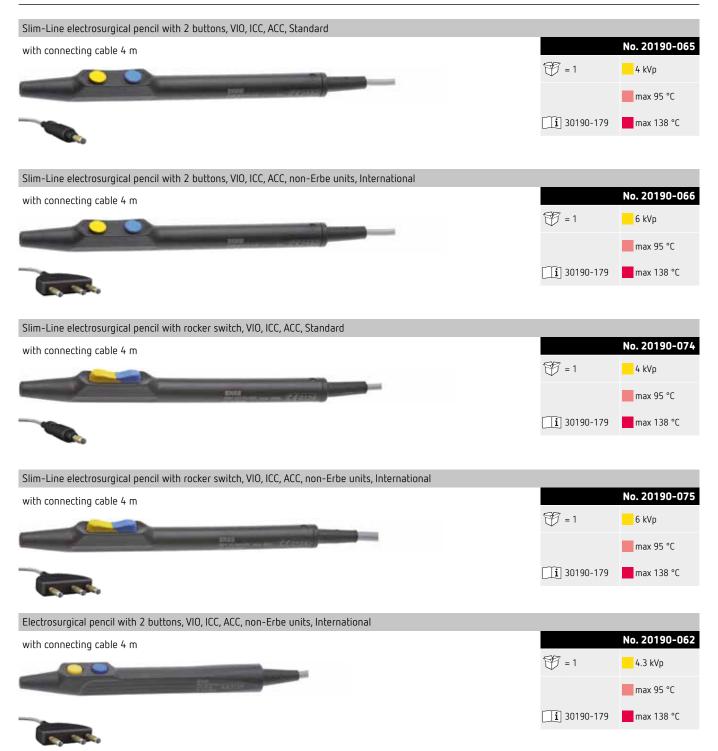
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#### Premium electrosurgical pencils (ø 4 mm)



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#### Premium electrosurgical pencils (ø 4 mm)



Monopolar connecting cables	Connection	Length	Piece	No.
Monopolar connecting cable, VIO, ICC, ACC, Standard,	Standard (MO 9/5 mm)	4 m	1	20192-127
for electrosurgical pencil 20190-045	Standard (MO 9/5 mm)	5 m	1	20192-094
Monopolar connecting cable, Martin Standard, 4 m, for electrosurgical pencil 20190-045	Martin Standard	4 m	1	20192-099
3				
Monopolar connecting cable, VIO, ICC, ACC, International, 4 m, for electrosurgical pencil 20190-045	International	4 m	1	20192-110
and the same of th				



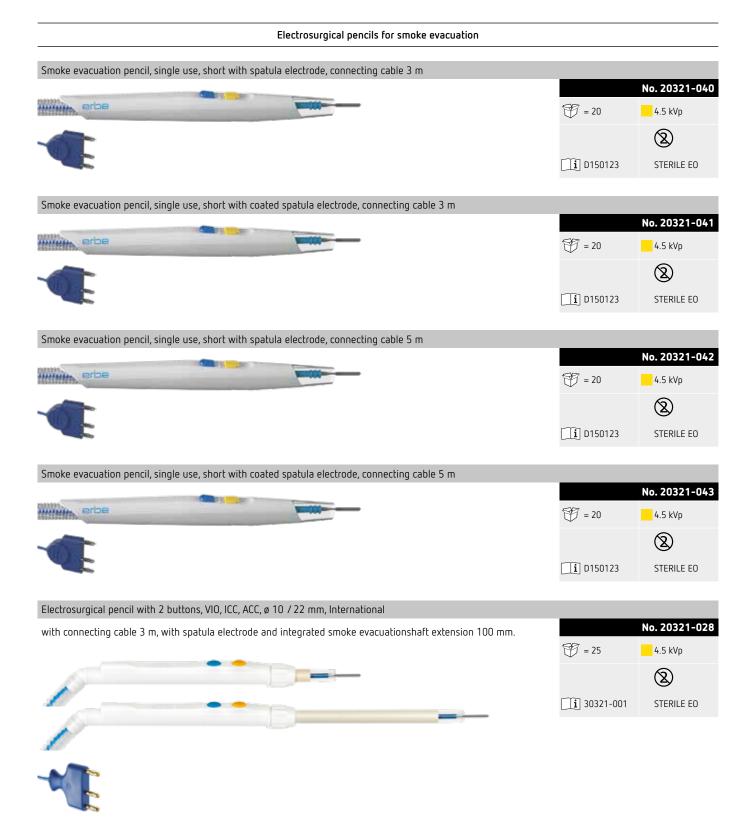


### ECO-LINE electrosurgical pencils (ø 2.4 mm)

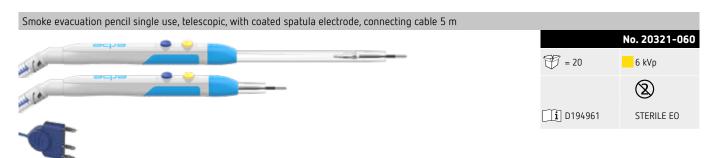


Monopolar adapters for electrosurgical pencils with connecting plug International	Connection	Piece	No.
Monopolar Adapter, VIO, ICC, ACC, Standard (MO 9/5 mm), for connecting plug international (3 Pin)	Standard (M0 9/5 mm)	1	20183-028

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#### Electrosurgical pencils for smoke evacuation





Extension tip for Clip-on handle 20321-044		
To be used in combination with 20321-044		No. 20321-045
	= 25	
		2
	<b>i</b> D146678	STERILE EO

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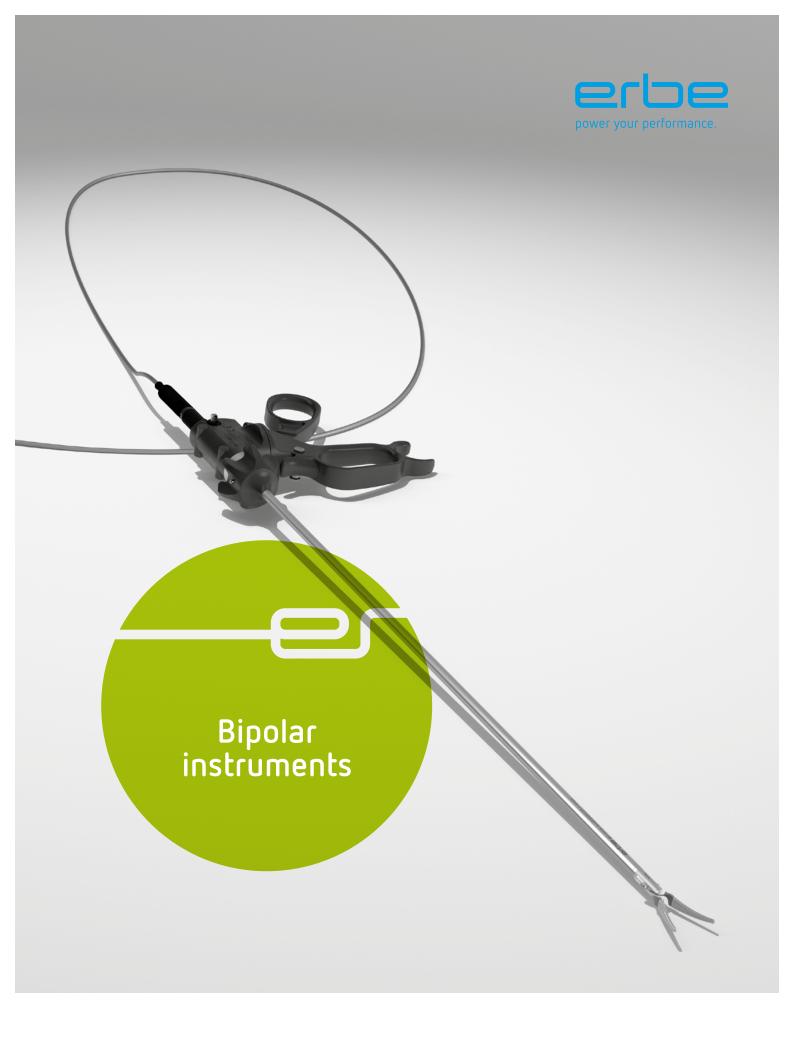
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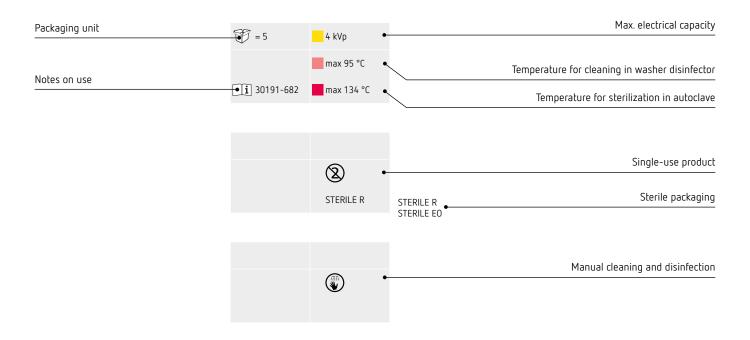
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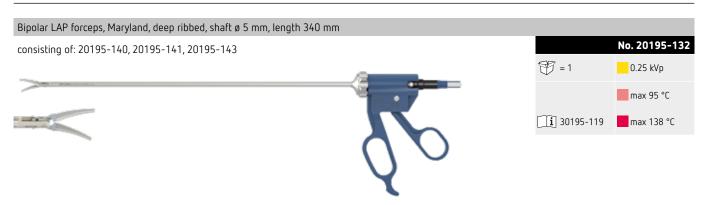
#### **Bipolar Instruments**

03 LAP forceps

05 LAP BiSect and bipolar LAP scissors

07 Cables and accessories

#### LAP forceps

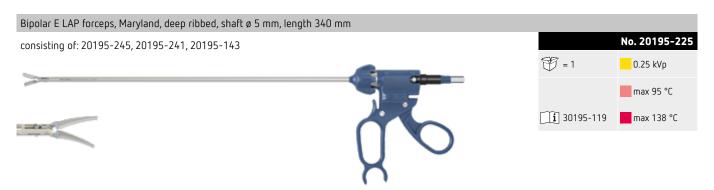






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#### LAP forceps



Single components		Piece	No.
Insert for LAP forceps, Maryland and E LAP forceps, Maryland, deepribbed, ø 5 mm, length 340 mm (for 20195-132 and 20195-225)	CASE WATER	1	20195-143
Insert for LAP forceps, fenestrated and E LAP forceps, fenestrated deepribbed, Ø 5 mm, length 340 mm (for 20195–133 and 20195–224)	and the second	1	20195-144
Shaft tube for bipolar LAP forceps and BiClamp LAP forceps, ø 5 mm, length 340 mm		1	20195-141
Shaft tube for bipolar E LAP forceps and BiClamp E LAP forceps, $\emptyset$ 5 mm, length 340 mm		1	20195-241
Handle for LAP forceps, without connecting cable	00	1	20195-140
Handle for E LAP forceps, without connecting cable	g 6	1	20195-245

#### LAP BiSect and bipolar LAP scissors



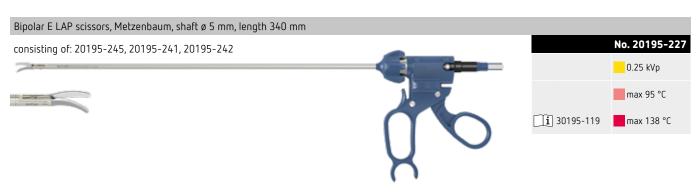


Single components		Piece	No.
Insert for LAP BiSect Micro (20195-204), ø 5 mm, length 350 mm		1	20195-206
Insert for LAP BiSect Macro (20195-205), ø 5 mm, length 350 mm		1	20195-207
Shaft tube for LAP BiSect Micro and Macro, ø 5 mm, length 350 mm		1	20195-208
Insulated tube for LAP BiSect Micro and Macro, ø 5 mm, length 350 mm		1	20195-209
Handle for LAP BiSect Micro and Macro	90	1	20195-210

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#### LAP BiSect and bipolar LAP scissors





Single components		Piece	No.
Insert for bipolar LAP scissors Metzenbaum and bipolar E LAP scissors Metzenbaum, shaft ø 5 mm, length 340 mm (for 20195-226 and 20195-227)	(in spin in section see	1	20195-242
Shaft tube for bipolar LAP scissors, ø 5 mm, length 340 mm		1	20195-141
Shaft tube for bipolar E LAP scissors, ø 5 mm, length 340 mm		1	20195-241
Handle for LAP scissors, without connecting cable		1	20195-140
Handle for E LAP scissors, without connecting cable		1	20195-245

#### Cables and accessories

Bipolar connecting cables	Connection	Length	Piece	No.
Bipolar connecting cable, VIO, ICC, ACC, T-Series, Standard	Standard Standard	4 m 5 m	1	20196-045 20196-057
Bipolar connecting cable, VIO, ICC, ACC, International (2-Pin 22 mm)	International International	4 m 5 m	1	20196-053 20196-061
Bipolar connecting cable, Martin Standard	Martin Standard Martin Standard	4 m 5 m	1	20196-047 20196-059
Bipolar connecting cable, Valleylab and non-Erbe units (2-Pin 28 mm)	Vallylab (2-Pin 28 mm)	4 m	1	20196-055

Accessories for treatment		Piece	No.
Cleaning brush, length 650 mm, for manual cleaning and disinfection	-	1	20191-279
Rinsing tube with Luer Lock connector, length 500 mm, for cleaning and disinfection by machine	-	1	20195-201

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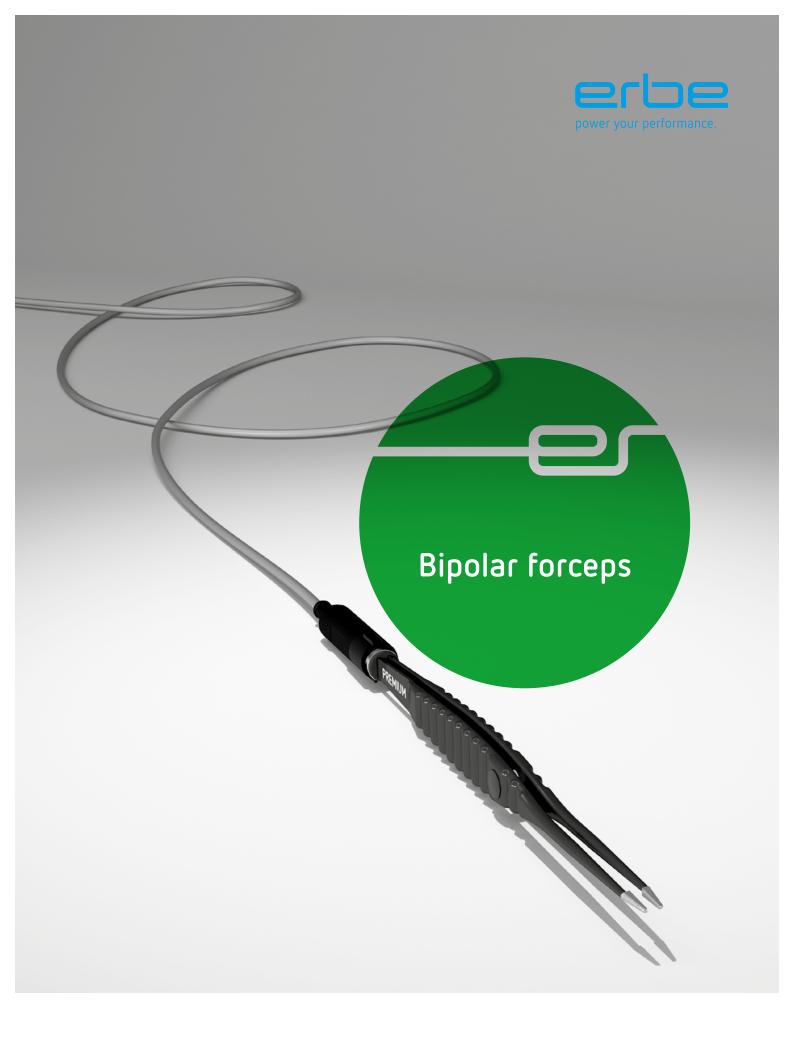
Erbe Elektromedizin GmbH Waldhoernlestrasse 17 72072 Tuebingen Germany

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## Legend

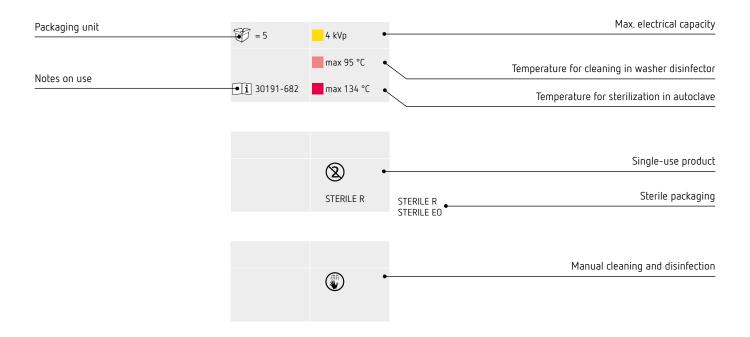
# Important notes

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# Further product information



Please read carefully the corresponding notes on use before using any instrument.

## Contents

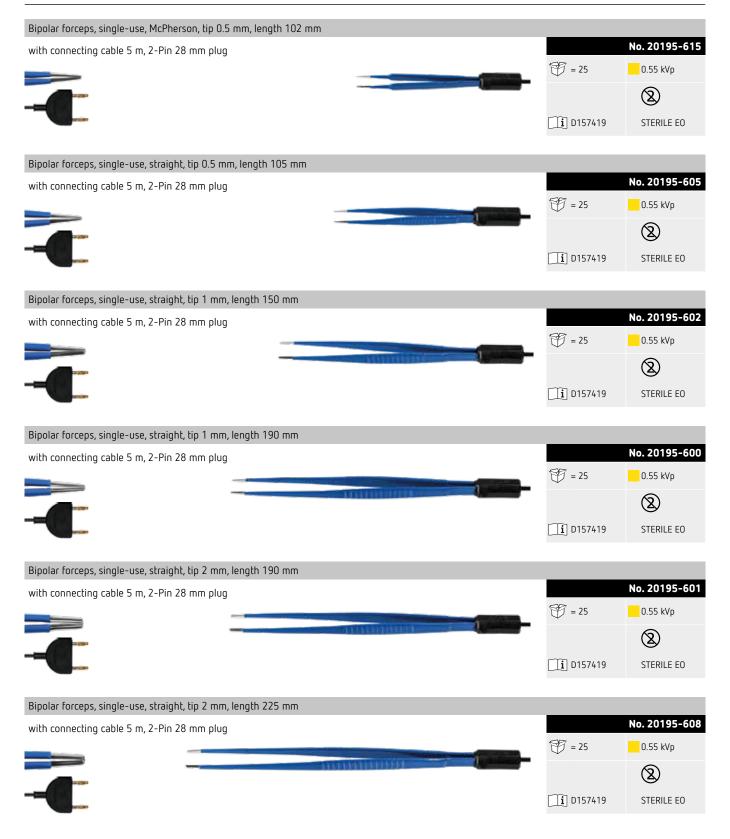
# Electrosurgery

### Bipolar forceps

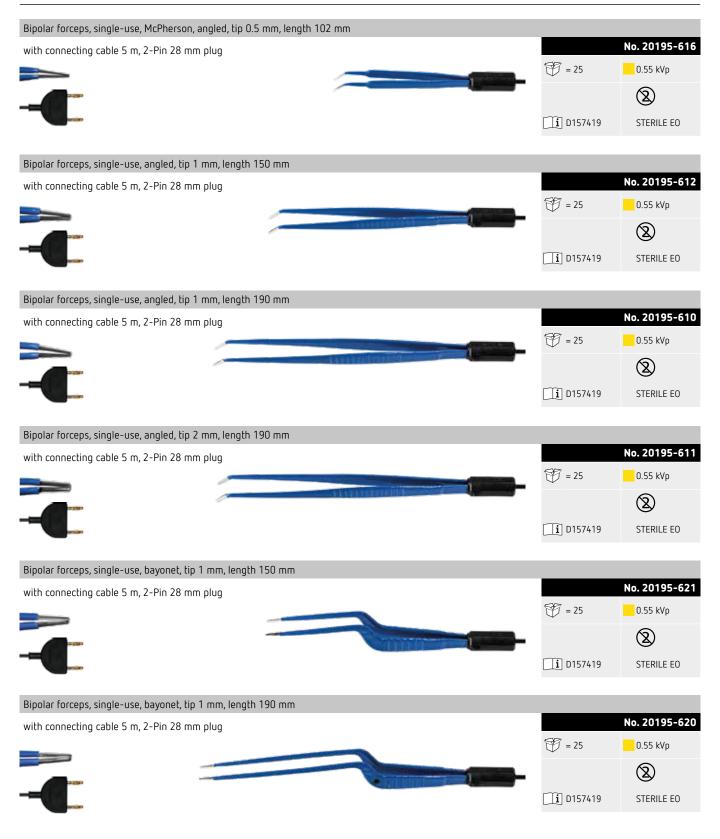
04	Bipolar forceps, single-use	16	Bipolar forceps Classic, straight
06	Bipolar forceps PREMIUM, straight	23	Bipolar forceps Classic, angled and bayonet
10	Bipolar forceps PREMIUM, bayonet	29	Bipolar forceps Classic, corrugated
		31	Bipolar irrigation forceps

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#### Bipolar forceps, single-use



#### Bipolar forceps, single-use



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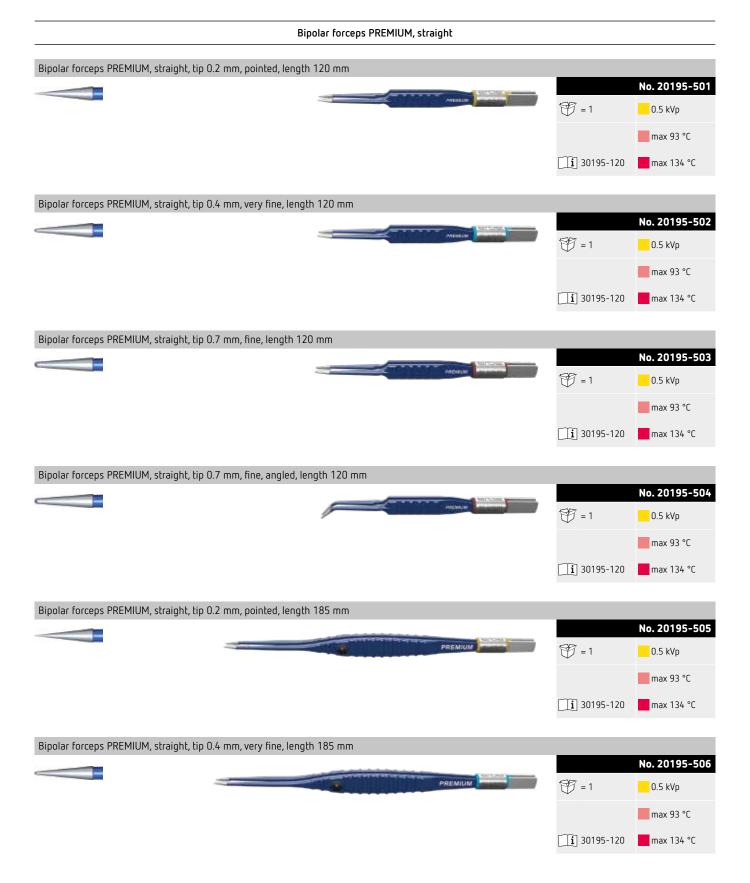
#### Bipolar forceps PREMIUM, straight



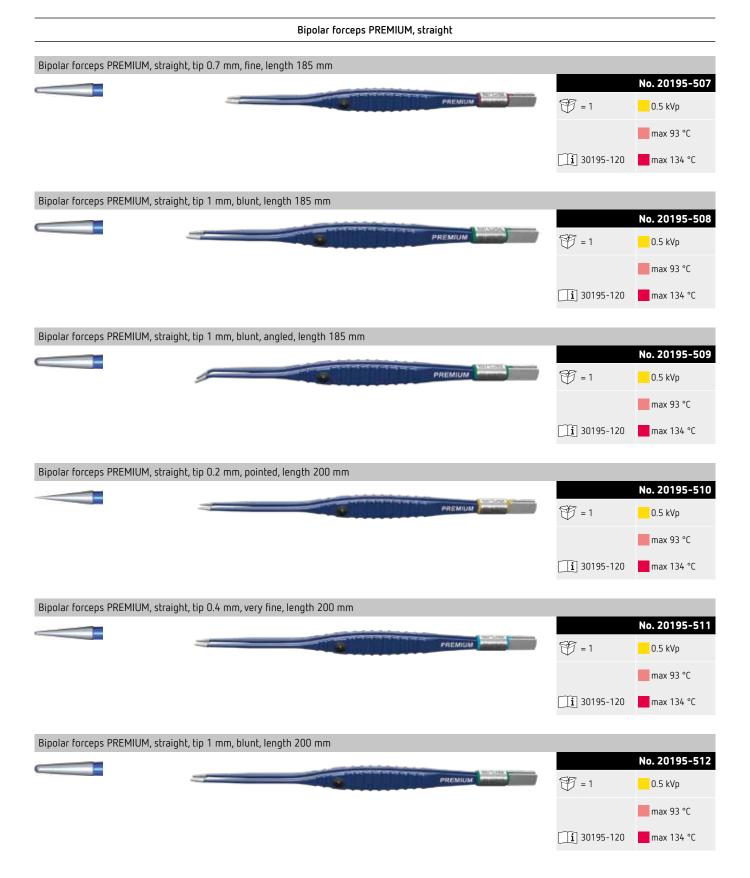
Form of tip	Length	Length of tip	Form of forceps	No.
Tip 0.2 mm, pointed	120 mm	8 mm	straight	20195-501
	185 mm	8 mm	straight	20195-505
	200 mm	8 mm	straight	20195-510
• Tip 0.3 – 0.4 mm, very fine	120 mm	8 mm	straight	20195-502
	185 mm	8 mm	straight	20195-506
	200 mm	8 mm	straight	20195-511
● Tip 0.5 – 0.7 mm, fine	120 mm	8 mm	straight	20195-503
	120 mm	8 mm	angled, 45°	20195-504
	185 mm	8 mm	straight	20195-507
• Tip 1 mm, blunt	185 mm	8 mm	straight	20195-508
	185 mm	8 mm	angled, 30°	20195-509
	200 mm	8 mm	straight	20195-512
	200 mm	8 mm	angled, 30°	20195-513
	260 mm	8 mm	angled, 30°	20195-516
● Tip 2 mm, blunt	200 mm	8 mm	angled, 30°	20195-514
	230 mm	8 mm	straight	20195-515
	260 mm	8 mm	angled, 30°	20195-517
	280 mm	8 mm	straight	20195-518

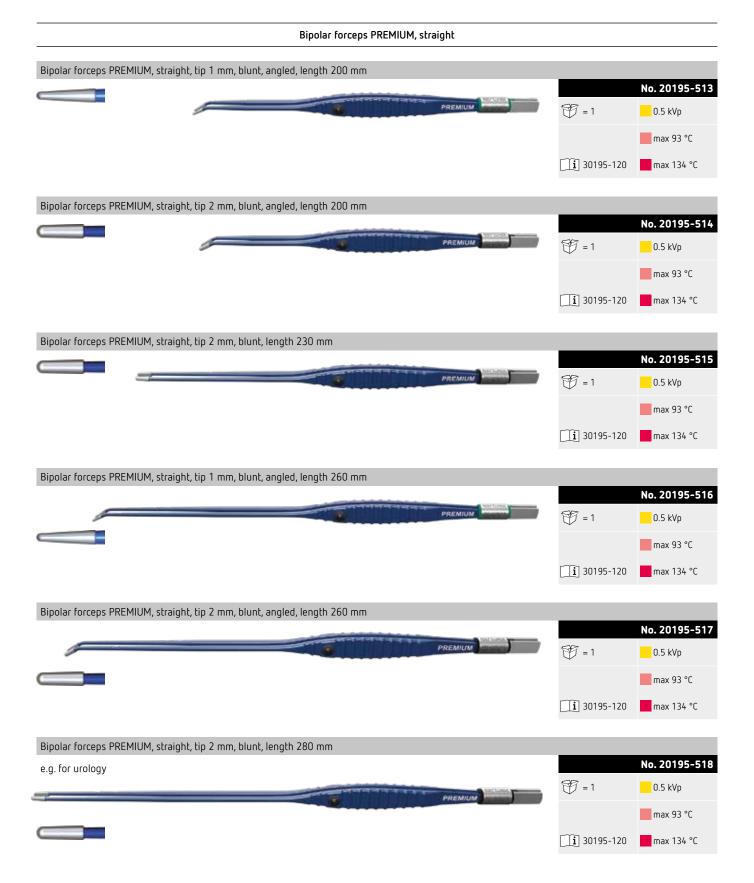
Bipolar connecting cables	Length	Piece	No.
Standard	4 m 5 m	1	20196-045 20196-057
International (2-Pin 22 mm)	4 m 5 m	1	20196-053 20196-061
Martin Standard	4 m 5 m	1	20196-047 20196-059
Valleylab (2-Pin 28 mm)	4 m	1	20196-055

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#### Bipolar forceps PREMIUM, bayonet



	Form of tip	Length	Length of tip	Form of forceps	No.
100 %	• Tip 0.2 mm, pointed	155 mm 170 mm 200 mm 230 mm 250 mm	8 mm 8 mm 8 mm 8 mm 8 mm	bayonet bayonet bayonet bayonet bayonet	20195-531 20195-534 20195-560 20195-543 20195-551
	• Tip 0.3 – 0.4 mm, very fine	155 mm 200 mm 230 mm 250 mm	8 mm 8 mm 8 mm 8 mm	bayonet bayonet bayonet bayonet	20195-532 20195-536 20195-544 20195-552
	● Tip 0.5 — 0.7 mm, fine	155 mm 170 mm 200 mm 230 mm 230 mm 230 mm 250 mm 250 mm	8 mm 8 mm 8 mm 8 mm 8 mm 8 mm 8 mm 8 mm	bayonet bayonet bayonet bayonet angled upwards, 135° angled downwards, 135° bayonet angled upwards, 135°	20195-533 20195-557 20195-537 20195-545 20195-548 20195-550 20195-553 20195-556
	• Tip 1 mm, blunt	170 mm 200 mm 230 mm 250 mm	8 mm 8 mm 8 mm 8 mm	bayonet bayonet bayonet bayonet	20195-535 20195-538 20195-546 20195-554
	● Tip 1,2 mm, blunt	200 mm 200 mm 200 mm 230 mm 230 mm 250 mm	8 mm 8 mm 8 mm 8 mm 8 mm 8 mm	bayonet angled downwards, 135° angled upwards, 135° bayonet angled upwards, 135° bayonet	20195-539 20195-541 20195-542 20195-547 20195-549 20195-555
	● Tip 2 mm, blunt	170 mm 200 mm 230 mm 250 mm	8 mm 8 mm 8 mm 8 mm	bayonet bayonet bayonet bayonet	20195-559 20195-540 20195-561 20195-558

Bipolar connecting cables		Length	Piece	No.
Standard	9	4 m 5 m	1	20196-045 20196-057
International (2-Pin 22 mm)		4 m 5 m	1	20196-053 20196-061
Martin Standard		4 m 5 m	1	20196-047 20196-059
Valleylab (2-Pin 28 mm)		4 m	1	20196-055

## Bipolar forceps PREMIUM, bayonet Bipolar forceps PREMIUM, bayonet, tip 0.2 mm, pointed, length 155 mm No. 20195-531 **= 1** 0.5 kVp max 93 °C **i** 30195-120 max 134 °C Bipolar forceps PREMIUM, bayonet, tip 0.4 mm, very fine, length 155 mm No. 20195-532 = 1 0.5 kVp max 93 °C **i** 30195-120 max 134 °C Bipolar forceps PREMIUM, bayonet, tip 0.7 mm, fine, length 155 mm No. 20195-533 = 1 0.5 kVp max 93 °C **i** 30195-120 max 134 °C Bipolar forceps PREMIUM, bayonet, tip 0.2 mm, pointed, length 170 mm No. 20195-534 = 1 0.5 kVp max 93 °C **1** 30195-120 max 134 °C Bipolar forceps PREMIUM, bayonet, tip 0.7 mm, fine, length 170 mm No. 20195-557 = 1 0.5 kVp max 93 °C **i** 30195-120 max 134 °C Bipolar forceps PREMIUM, bayonet, tip 1 mm, blunt, length 170 mm No. 20195-535 = 1 0.5 kVp max 93 °C **i** 30195-120 max 134 °C Bipolar forceps PREMIUM, bayonet, tip 2.0 mm, blunt, length 170 mm No. 20195-559

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= 1

**i** 30195-120

0.5 kVp

max 93 °C

max 134 °C

Bipolar forceps PREMIUM, bayonet

## Bipolar forceps PREMIUM, bayonet, tip 0.2 mm, pointed, length 200 mm No. 20195-560 **= 1** 0.5 kVp max 93 °C **i** 30195-120 max 134 °C Bipolar forceps PREMIUM, bayonet, tip 0.4 mm, very fine, length 200 mm No. 20195-536 **=** 1 0.5 kVp max 93 °C **i** 30195-120 max 134 °C Bipolar forceps PREMIUM, bayonet, tip 0.7 mm, fine, length 200 mm No. 20195-537 **= 1** 0.5 kVp max 93 °C **i** 30195-120 max 134 °C Bipolar forceps PREMIUM, bayonet, tip 1 mm, blunt, length 200 mm No. 20195-538 **= 1** 0.5 kVp max 93 °C **i** 30195-120 max 134 °C Bipolar forceps PREMIUM, bayonet, tip 1.2 mm, blunt, length 200 mm No. 20195-539 = 1 0.5 kVp max 93 °C **i** 30195-120 max 134 °C Bipolar forceps PREMIUM, bayonet, tip 2 mm, blunt, length 200 mm No. 20195-540 **7** = 1 0.5 kVp max 93 °C **i** 30195-120 max 134 °C

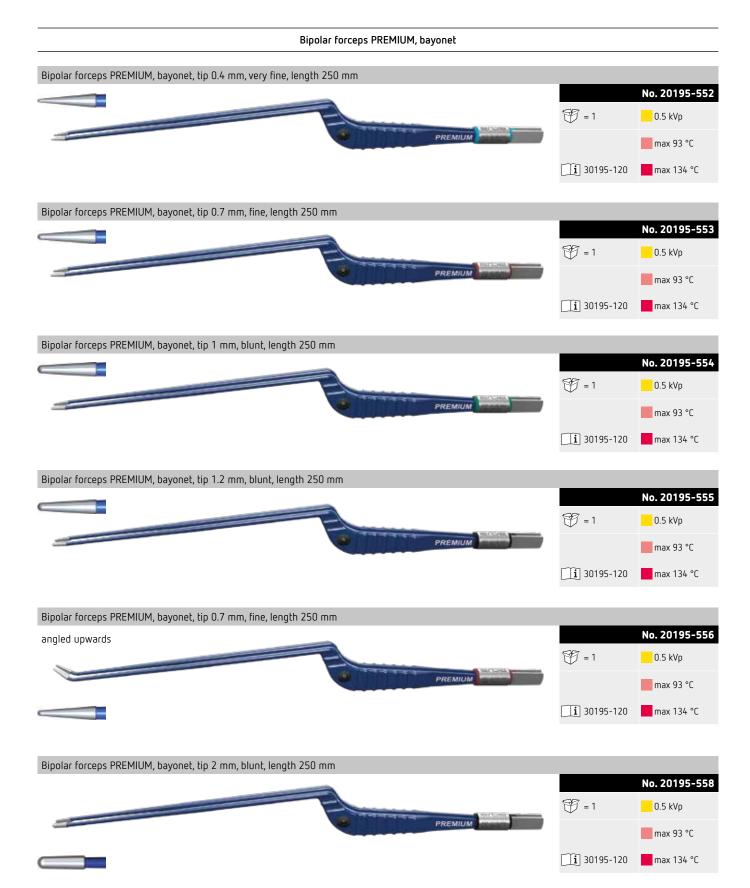
#### Bipolar forceps PREMIUM, bayonet



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#### Bipolar forceps PREMIUM, bayonet





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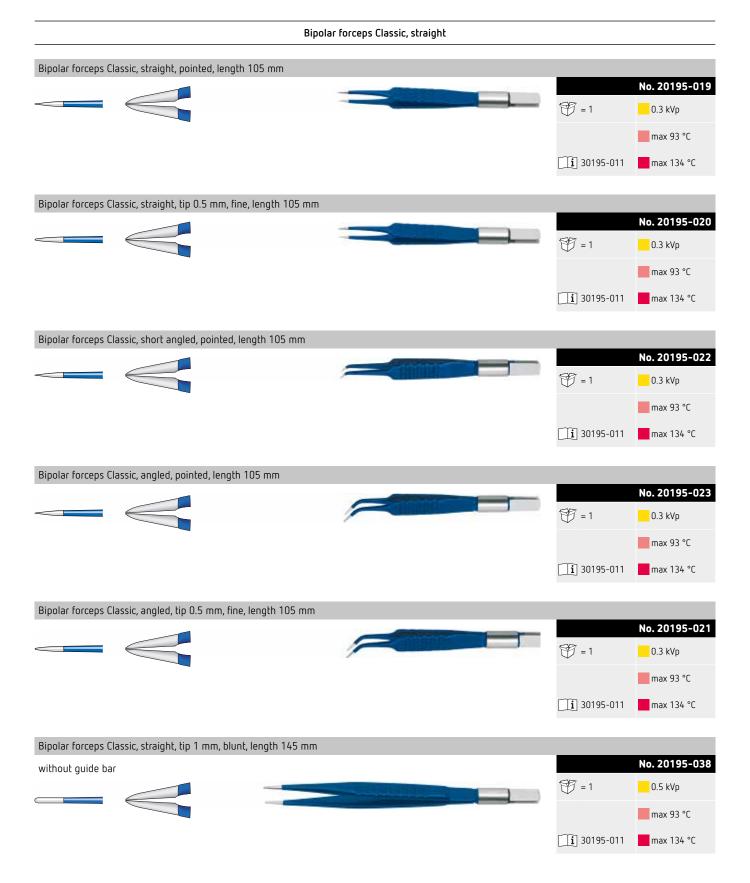
#### Bipolar forceps Classic, straight



100 %

	Form of tip	Length	Length of tip	Form of forceps	Type of clasps	No.
	Tip 0.2 mm, pointed	105 mm	6 mm	straight	punctiform	20195-019
?		105 mm	5 mm	short angled, 45°	punctiform	20195-022
3		105 mm	6 mm	angled, 45°	punctiform	20195-023
		165 mm	6 mm	straight	punctiform	20195-011
		165 mm	6 mm	angled, 30°	punctiform	20195-013
_		190 mm	6 mm	straight	punctiform	20195-037
	Tip $0.3 - 0.4$ mm, very fine	165 mm	6 mm	angled, 30°	punctiform	20195-036
-	Tip 0.5 – 0.7 mm, fine	105 mm	6 mm	straight	punctiform	20195-020
		105 mm	6 mm	angled, 45°	punctiform	20195-021
		150 mm	8 mm	straight	punctiform	20195-005
		165 mm	5 mm	short angled, 45°	punctiform	20195-066
		190 mm	5 mm	short angled, 45°	punctiform	20195-065
		225 mm	5 mm	angled, 45°	punctiform	20195-064
	Tip 1 mm, blunt	145 mm	10 mm	straight	punctiform	20195-038
		165 mm	6 mm	straight	punctiform	20195-010
		165 mm	10 mm	straight	punctiform	20195-039
		165 mm	6 mm	angled, 30°	punctiform	20195-014
		165 mm	6 mm	angled, 30°	punctiform	20195-493
		190 mm	10 mm	straight	punctiform	20195-040
		190 mm	8 mm	straight	parallel	20195-000
		190 mm	8 mm	angled, 30°	parallel	20195-001
		190 mm	6 mm	angled, 30°	parallel	20195-490
_		225 mm	10 mm	straight	punctiform	20195-041
	Tip 2 mm, blunt	145 mm	10 mm	straight	punctiform	20195-027
		165 mm	10 mm	straight	punctiform	20195-028
		190 mm	10 mm	straight	punctiform	20195-029
		190 mm	6 mm	angled, 30°	punctiform	20195-007
		190 mm	6 mm	angled, 30°	punctiform	20195-492
		225 mm	10 mm	straight	punctiform	20195-030
		260 mm	10 mm	straight	punctiform	20195-110
_		300 mm	10 mm	straight	punctiform	20195-109

Bipolar connecting cables		Length	Piece	No.
Standard	3	4 m 5 m	1	20196-045 20196-057
International (2-Pin 22 mm)		4 m 5 m	1	20196-053 20196-061
Martin Standard		4 m 5 m	1	20196-047 20196-059
Valleylab (2-Pin 28 mm)		4 m	1	20196-055



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Bipolar forceps Classic, straight

### Bipolar forceps Classic, straight, tip 2 mm, blunt, length 145 mm No. 20195-027 without guide bar = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, straight, tip 0.7 mm, fine, length 150 mm No. 20195-005 without guide bar **=** 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, straight, pointed, length 165 mm No. 20195-011 **= 1** 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, straight, tip 1 mm, blunt, length 165 mm No. 20195-010 = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, straight, tip 1 mm, blunt, length 165 mm No. 20195-039 without guide bar **3** = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, straight, tip 2 mm, blunt, length 165 mm No. 20195-028 without guide bar **= 1** 0.5 kVp max 93 °C **i** 30195-011 max 134 °C

## Bipolar forceps Classic, straight Bipolar forceps Classic, angled, pointed, length 165 mm No. 20195-013 **= 1** 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, angled, tip 0.4 mm, very fine, length 165 mm No. 20195-036 = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, short angled, tip 0.7 mm, fine, length 165 mm No. 20195-066 **9** = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, angled, tip 1 mm, blunt, length 165 mm No. 20195-014 = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, angled, tip 1 mm, blunt, length 165 mm No. 20195-493 without guide bar **7** = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, straight, pointed, length 190 mm No. 20195-037 = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C

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Bipolar forceps Classic, straight

## Bipolar forceps Classic, straight, tip 1 mm, blunt, length 190 mm No. 20195-040 without guide bar **= 1** 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, straight, tip 1 mm, blunt, length 190 mm No. 20195-000 = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, straight, tip 2 mm, blunt, length 190 mm No. 20195-029 without guide bar **#** = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, short angled, tip 0.7 mm, fine, length 190 mm No. 20195-065 = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, angled, tip 1 mm, blunt, length 190 mm No. 20195-001 **7** = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, angled, tip 1 mm, blunt, length 190 mm No. 20195-490 without guide bar = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C

### Bipolar forceps Classic, straight Bipolar forceps Classic, angled, tip 2 mm, blunt, length 190 mm No. 20195-007 = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, angled, tip 2 mm, blunt, length 190 mm No. 20195-492 without guide bar = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, straight, tip 1 mm, blunt, length 225 mm No. 20195-041 without guide bar **=** 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, straight, tip 2 mm, blunt, length 225 mm No. 20195-030 without guide bar = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, short angled, tip 0.7 mm, fine, length 225 mm No. 20195-064

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= 1

**i** 30195-011

0.5 kVp

max 93 °C

max 134 °C

### 

max 93 °C

max 134 °C

**i** 30195-011

#### Bipolar forceps Classic, angled and bayonet



For	m of tip	Length	Length of tip	Form of forceps	Type of clasps	No.
Tip	0.2 mm, pointed	165 mm 165 mm 190 mm	6 mm 6 mm 6 mm	angled, 160° bayonet bayonet	punctiform punctiform punctiform	20195-016 20195-017 20195-008
Tip	0.3-0.4 mm, very fine	165 mm 165 mm 230 mm 250 mm	6 mm 6 mm 6 mm 6 mm	angled, 160° bayonet bayonet bayonet	punctiform punctiform punctiform punctiform	20195-015 20195-033 20195-044 20195-042
	0.7 mm, fine	105 mm 190 mm 190 mm 230 mm 250 mm	6 mm 5 mm 5 mm 6 mm 6 mm	angled, 170° bayonet short-angled down., 45° bayonet short-angled up., 45° bayonet bayonet	punctiform punctiform punctiform punctiform punctiform	20195-035 20195-164 20195-006 20195-045 20195-043
Tip	1 mm, blunt	165 mm 165 mm 190 mm 190 mm	6 mm 6 mm 8 mm 6 mm	bayonet bayonet bayonet bayonet	punctiform punctiform parallel punctiform	20195-018 20195-494 20195-002 20195-491
Tip	1,2 mm, blunt	190 mm 190 mm 230 mm 230 mm 230 mm 250 mm 250 mm 250 mm	5 mm 5 mm 6 mm 5 mm 5 mm 5 mm 5 mm 6 mm	bayonet short-angled down., 45° bayonet short-angled up., 45° bayonet bayonet short-angled up., 45° bayonet short-angled down., 45° bayonet short-angled down., 45° bayonet short-angled up., 45° bayonet	punctiform punctiform punctiform punctiform punctiform punctiform punctiform punctiform	20195-009 20195-026 20195-031 20195-063 20195-167 20195-168 20195-169 20195-032
Tip	2 mm, blunt	190 mm 190 mm	6 mm 6 mm	bayonet bayonet	punctiform punctiform	20195-034 20195-495

Bipolar connecting cables	Length	Piece	No.
Standard	4 m 5 m	1	20196-045 20196-057
International (2-Pin 22 mm)	4 m 5 m	1	20196-053 20196-061
Martin Standard	4 m 5 m	1	20196-047 20196-059
Valleylab (2-Pin 28 mm)	4 m	1	20196-055

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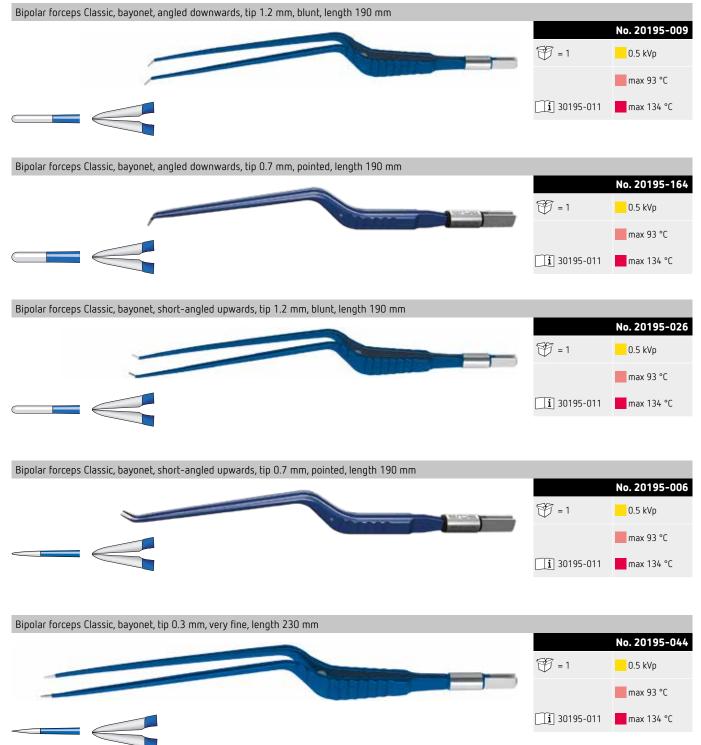
Bipolar forceps Classic, angled and bayonet

### Bipolar forceps Classic, bent, tip 0.5 mm, fine, length 105 mm No. 20195-035 **= 1** 0.3 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, bent, pointed, length 165 mm No. 20195-016 = 1 0.5 kVp max 93 °C max 134 °C **i** 30195-011 Bipolar forceps Classic, bent, tip 0.4 mm, very fine, length 165 mm No. 20195-015 **3** = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, bayonet, pointed, length 165 mm No. 20195-017 **= 1** 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, bayonet, tip 0.4 mm, very fine, length 165 mm No. 20195-033 = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, bayonet, tip 1 mm, blunt, length 165 mm No. 20195-018 = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C

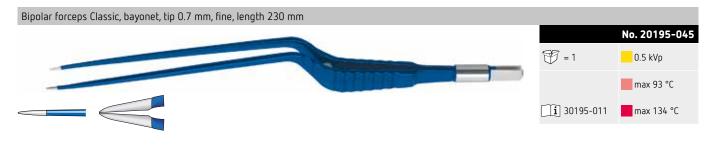
### Bipolar forceps Classic, angled and bayonet Bipolar forceps Classic, bayonet, tip 1 mm, blunt, length 165 mm No. 20195-494 without guide bar **= 1** 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, bayonet, pointed, length 190 mm No. 20195-008 **3** = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, bayonet, tip 1 mm, blunt, length 190 mm No. 20195-002 **9** = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, bayonet, tip 1 mm, blunt, length 190 mm No. 20195-491 without guide bar **= 1** 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, bayonet, tip 2 mm, blunt, length 190 mm No. 20195-034 **= 1** 0.5 kVp max 93 °C **i** 30195-011 max 134 °C Bipolar forceps Classic, bayonet, tip 2 mm, blunt, length 190 mm No. 20195-495 without guide bar = 1 0.5 kVp max 93 °C **i** 30195-011 max 134 °C

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## Bipolar forceps Classic, angled and bayonet



#### Bipolar forceps Classic, angled and bayonet











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#### Bipolar forceps Classic, angled and bayonet

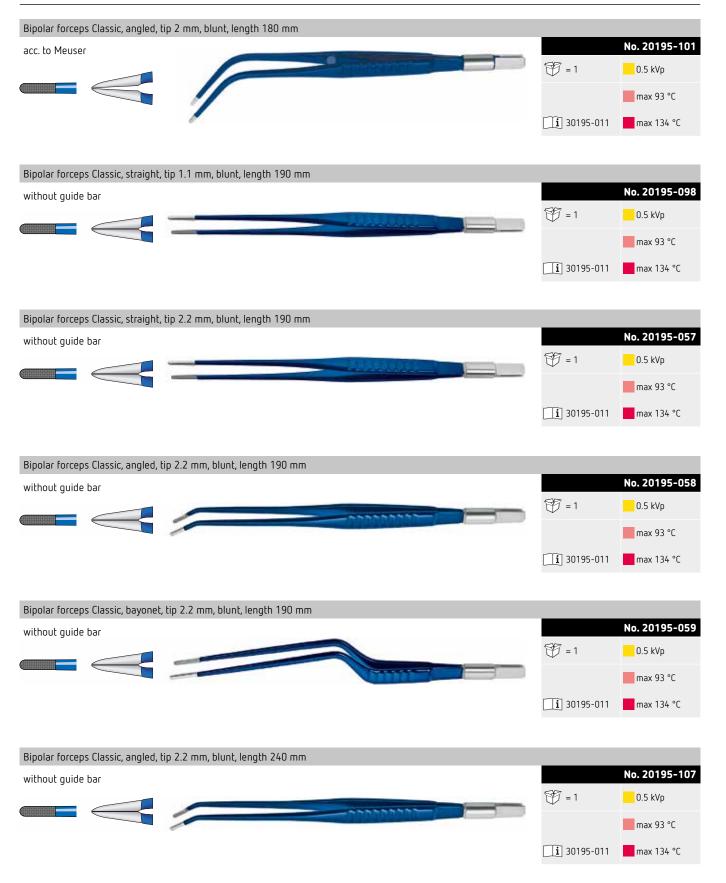








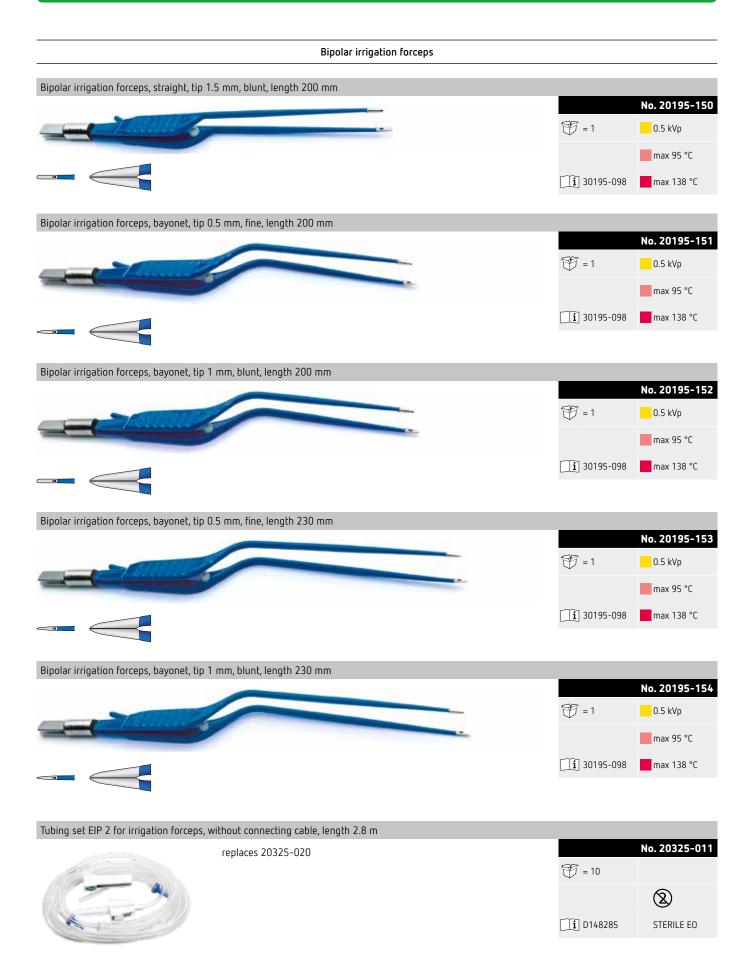
#### Bipolar forceps Classic, corrugated



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#### Bipolar forceps Classic, corrugated





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#### Important information

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### Legend

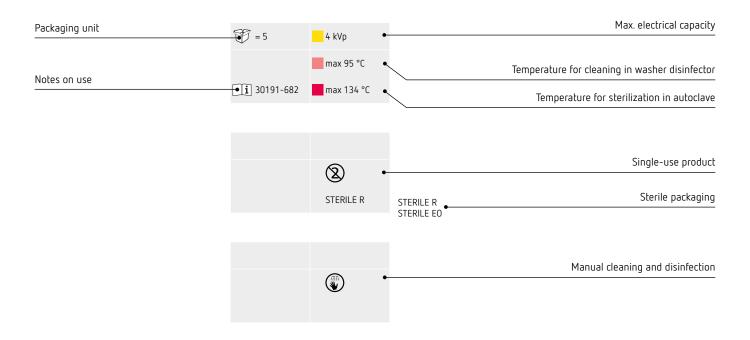
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## Further product information



Please read carefully the corresponding notes on use before using any instrument.

## Contents

# Electrosurgery

#### Neutral electrodes

04 Single-use with contact stud

O5 Single-use with connecting cable

06 Reusable with contact stud

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#### Single-use with contact stud

#### Erbe Nessy $\Omega$ , split, VIO, contact surface 85 cm<sup>2</sup>



equipotential ring 23 cm², without connecting cable

	No. 20193-082
= 50	
	2
<b>i</b> 30193-082	

#### Erbe NESSY Plate 170, split, VIO, ICC, ACC, contact surface 168 cm<sup>2</sup>



without connecting cable

	No. 20193-070
= 50	
	2
<b>i</b> 30193-080	

#### Erbe NESSY Plate 70, split, VIO, ICC, ACC, contact surface 72 cm<sup>2</sup>



without connecting cable, for children from 5 to 15 kg  $\,$ 

	No. 20193-071
= 50	
	2
<b>i</b> 30193-080	

#### Erbe MONOPlate 40, single, VIO, ICC, ACC, T-Series, contact surface 40 cm<sup>2</sup>



without connecting cable, for children < 5kg

	No. 20193-073
= 50	
	2
<b>i</b> 30193-080	

Connecting cables for neutral electrodes	Length	Piece	No.
Neutral electrode cable, VIO, ICC, ACC, T-Series, Standard, for neutral electrodes with contact stud	4 m 5 m	1	20194-077 20194-078
03)			
Neutral electrode cable, VIO, ICC, ACC, non-Erbe units, International,	4 m	1	20194-080
for neutral electrodes with split contact surface and contact stud	5 m		20194-087
Neutral electrode cable, VIO, ICC, ACC, non-Erbe units, International,	4 m	1	20194-079
for neutral electrodes with single contact surface and contact stud	5 m	1	20194-086

#### Single use with connecting cable

#### Erbe NESSY $\Omega$ , split, VIO, non-Erbe units, International



contact surface 85  $\text{cm}^2,$  equiptential ring 23  $\text{cm}^2,$  with connecting cable 4 m

	No. 20193-083
= 50	
	2
<b>i</b> 30193-082	

#### Erbe NESSY Plate 170, split, VIO, ICC, ACC, non-Erbe units, International



contact surface 168  $cm^2$ , with connecting cable 3 m

	No. 20193-074
= 50	
	2
<b>i</b> 30193-080	

#### Erbe NESSY Plate 70, split, VIO, ICC, ACC, non-Erbe units, International



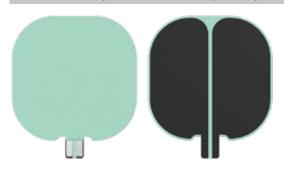
contact surface 72  $\mbox{cm}^{2},$  with connecting cable 3 m, for children from 5 to 15 kg

	No. 20193-075
= 50	
	2
<b>i</b> 30193-080	

05

#### Reusable with contact stud

#### NESSY® RePlate 200, contact surface 194 cm², reusable, can be monitored





#### NESSY® RePlate Fixation, length 82 cm



	No. 20193-091
= 1	
	max 95 °C
<b>i</b> 30193-088	

#### Contact spray/Signaspray®, for NESSY® RePlate



	No. 20193-092
= 1	
<b>1</b> D181820	

Connecting cables for neutral electrodes	Length	Piece	No.
Neutral electrode cable, VIO, ICC, ACC, T-Series, Standard, for neutral electrodes with contact stud	4 m 5 m	1	20194-077 20194-078
03			
Neutral electrode cable, VIO, ICC, ACC, non-Erbe units, International, for neutral electrodes with split contact surface and contact stud	4 m 5 m	1	20194-080 20194-087

#### Reusable with contact stud

#### NESSY® RePlate kit I, reusable, incl. fixation and contact spray





#### NESSY® RePlate kit II, reusable, incl. fixation



	No. 20193-094
= 1	
	max 95 °C
<b>i</b> 30193-088	

07

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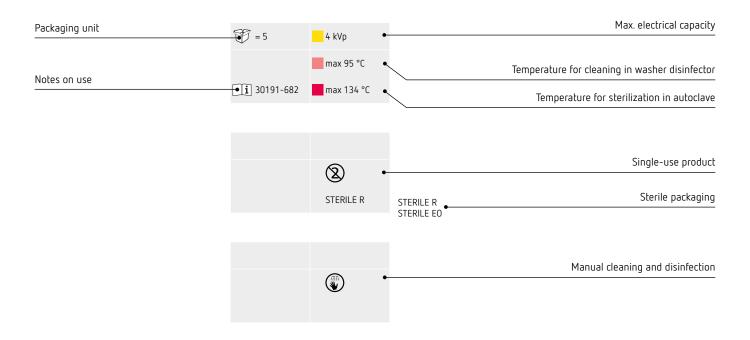
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## Further product information



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## Contents

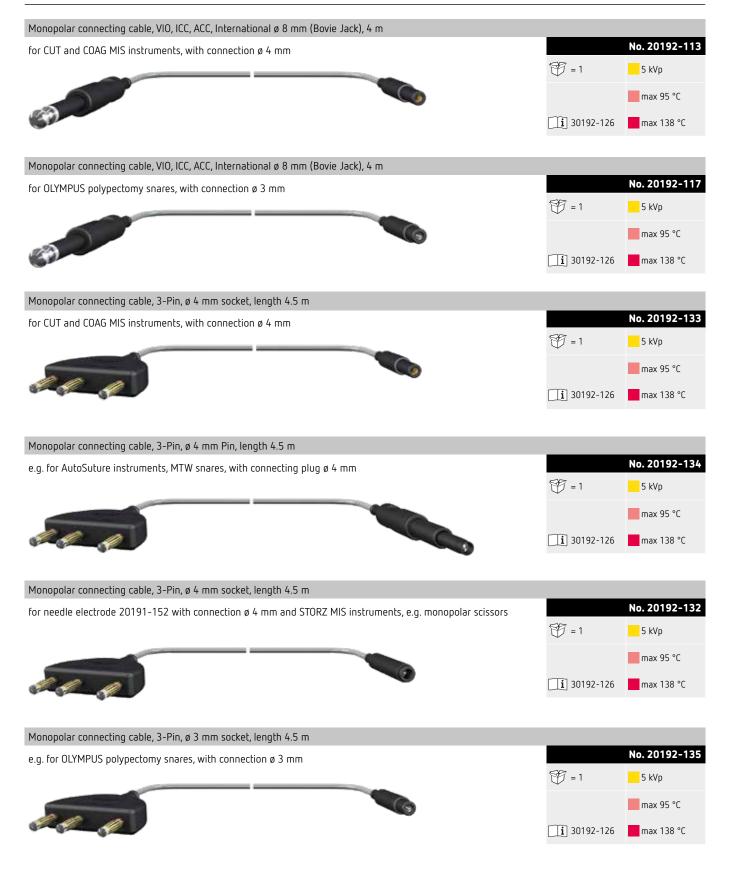
## Electrosurgery

#### Connecting cables Adapters 04 15 Monopolar connecting cables Monopolar adapters 16 80 Bipolar adapters Bipolar connecting cables 13 18 Connecting cables for return electrodes Ignition test adapters 19 Irrigation adapters

#### Monopolar connecting cables



#### Monopolar connecting cables



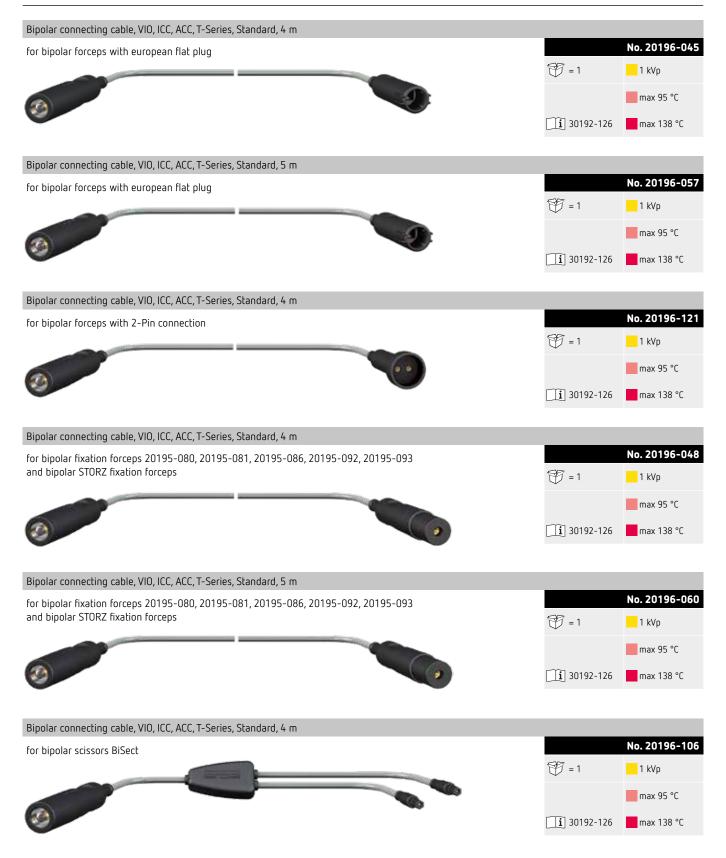
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#### Monopolar connecting cables





#### Bipolar connecting cables

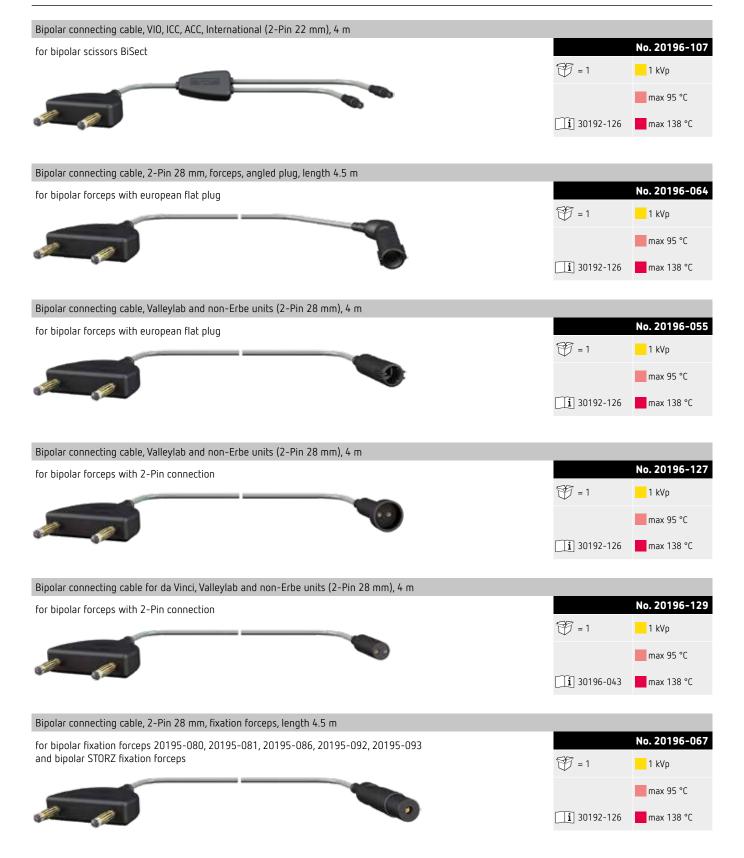


Bipolar connecting cables

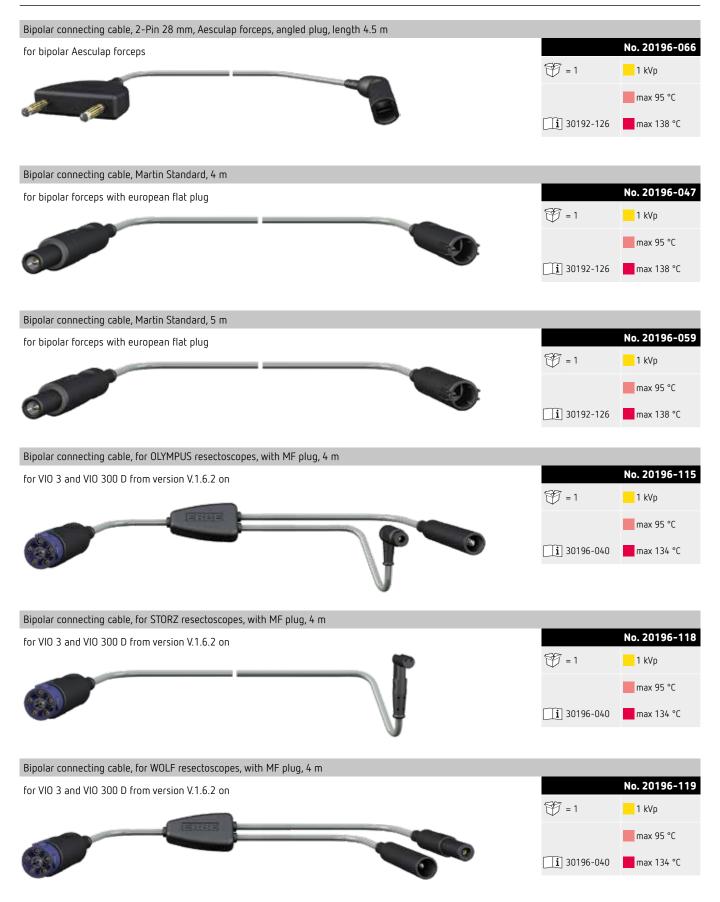
### Bipolar cable for da Vinci, Standard, 4 m No. 20196-130 **9** = 1 1 kVp max 95 °C **i** 30196-043 max 138 °C Bipolar connecting cable, 8/4 mm, forceps, angled plug, length 4.5 m No. 20196-062 for bipolar forceps with european flat plug **3** = 1 1 kVp max 95 °C **i** 30192-126 max 138 °C Bipolar connecting cable, 8/4 mm, Aesculap forceps, angled plug, length 4.5 m No. 20196-065 for bipolar Aesculap forceps 1 kVp max 95 °C **i** 30192-126 max 138 °C Bipolar connecting cable, VIO, ICC, ACC, International (2-Pin 22 mm), 4 m No. 20196-053 for bipolar forceps with european flat plug **8** = 1 1 kVp max 95 °C **i** 30192-126 max 138 °C Bipolar connecting cable, VIO, ICC, ACC, International (2-Pin 22 mm), 5 m No. 20196-061 for bipolar forceps with european flat plug **7** = 1 1 kVp max 95 °C **i** 30192-126 max 138 °C Bipolar connecting cable, 2-Pin 22 mm, forceps, angled plug, length 4.5 m No. 20196-063 for bipolar forceps with european flat plug 1 kVp max 95 °C **i** 30192-126 max 138 °C

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#### Bipolar connecting cables



#### Bipolar connecting cables

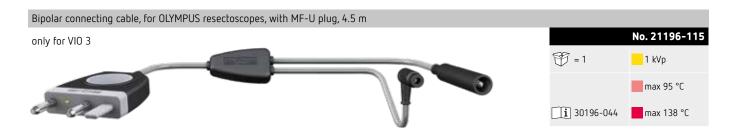


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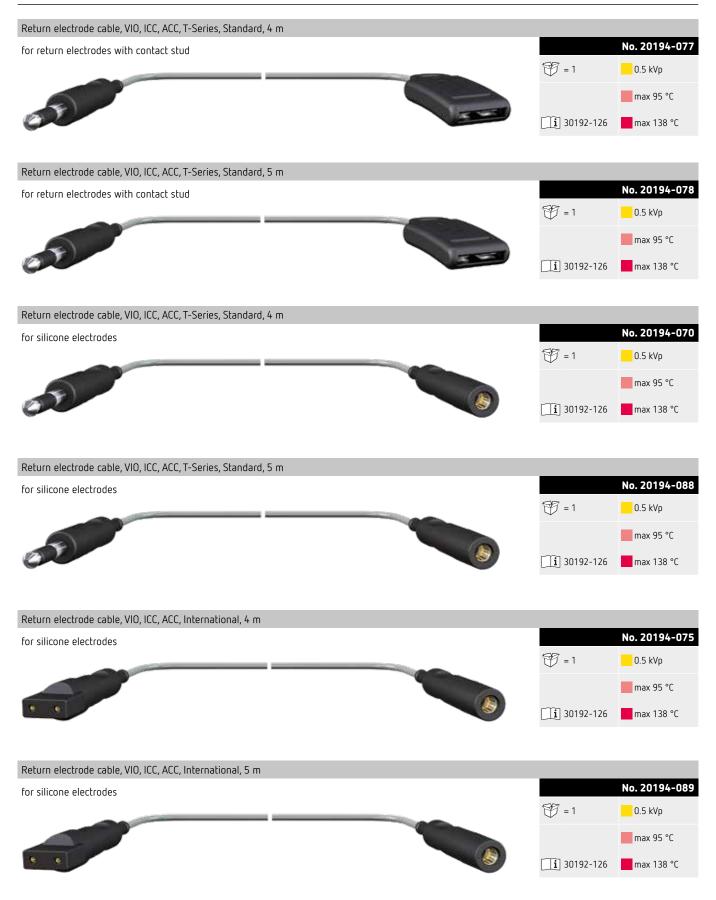
#### Bipolar connecting cables





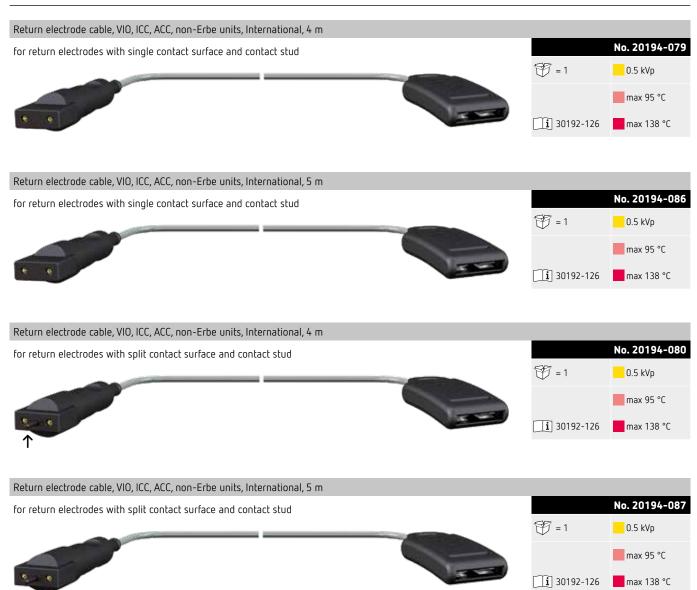


#### Connecting cables for return electrodes



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#### Connecting cables for return electrodes



## Adapters

#### Monopolar adapters

#### Monopolar adapter, VIO, ICC, ACC, Standard (MO 9/5 mm)



for connecting plug international (3 Pin)



#### Monopolar adapter, VIO, ICC, ACC, Standard (MO 9/5 mm)



for standard Martin accessories (MO 8/4 mm)



#### Monopolar adapter, units International ø 8 mm (Bovie Jack)



for connecting plug ø 2-7 mm (single-pole)



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## Adapters

#### Bipolar adapters

#### Bipolar adapter, VIO, ICC, ACC, Standard (BI 8/4 mm)



for Martin, Berchtold, Aesculap connecting plug, Standard (BI 9/2.5 mm)

	No. 20183-025
= 1	0.8 kVp
<b>i</b> 30183-128	

#### Bipolar adapter, Erbe units, International (2-Pin 22 mm)



for standard connecting plug (BI 8/4 mm)



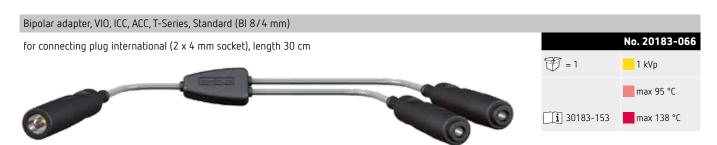
#### Bipolar adapter, Valleylab units (2-Pin 28 mm)



for standard connecting plug (BI 8/4 mm)

	No. 20183-055
= 1	0.5 kVp
<b>i</b> 30183-128	





# Adapters

# Bipolar adapters

# Adapter, MF-socket, MF-2-plug

for VIO 300 D



	No. 20183-100
= 1	4.3 kVp
<b>i</b> 30183-173	

# Adapter, MF-2-/MF-U-socket, MF-plug



for VIO 3 and VIO 300 D  $\,$ 

	No. 20183-101
= 1	4.3 kVp
<b>i</b> 30183-173	

17

Fastening set		No.
	Fastening set for adapter 20183-100 and 20183-101, for VIO 300 D	20183-102
	Fastening set for adapter 20183-101, for VIO 3	20183-103

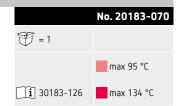
# Adapters

# Ignition test adapters

# APC ignition test adapter for VIO D/S, ICC, Standard (NE 6 mm)



APC ignition test adapters are not compatible with VIO3/APC3



# APC ignition test adapter for VIO D/S, ICC, International (NE 2-Pin)



APC ignition test adapters are not compatible with VIO  $3\,\mbox{/APC}\,3$ 

	No. 20183-071
= 1	
	max 95 °C
<b>i</b> 30183-126	max 138 °C

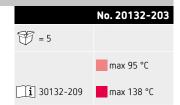
# Adapters

# Irrigation adapters

# Irrigation adapter for flexible APC probes with Luer-Lock



for APC probes with APC connecting cable 20132-158



# Irrigation adapter for flexible APC probes with Luer-Lock



for APC applicators with APC connecting cables 20132-046



# Irrigation for adapter APC applicators with Luer-Lock



for APC applicators with APC handles

No. 20132-08	
= 5	
	max 95 °C
<b>i</b> 30132-209	max 138 °C

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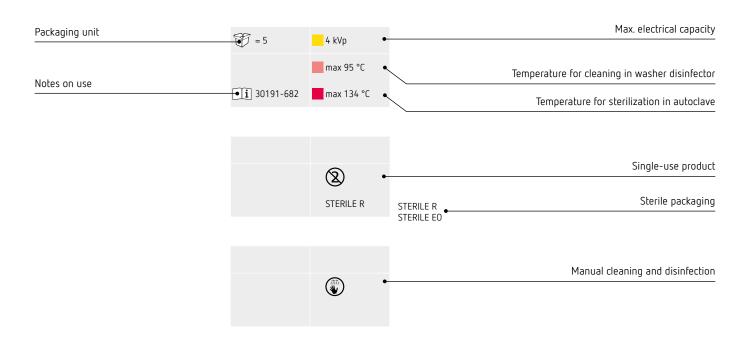
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#### Carts and accessories

## VIO CART, system carrier for VIO family and modules



dimensions: 630 x 940 x 650 mm (WxHxD)

weight: 31 kg,

4 conductive castors ø 100 mm, with fixing brake

1 power input 3 power outlets

incl. following accessories:

1 grab handle out of stainless steel

2 cable holders

1 foot switch bracket (for currently available foot switches)



Optional accessoires for VIO CART	No.
Wire basket, 339 x 100/155 x 205 mm (WxHxD)	20180-010
Cable holder	20180-020
Upper bracket for VIO CART, length 260 mm	20180-040
Lower bracket for VIO CART, length 390 mm, for use with secretion suction	20180-042
Foot switch support, plastic, for currently available VIO foot switches	20180-051
Cylinder pad for argon gas cylinder	20180-080
Fastening strap for argon gas cylinder	20180-120

# Carts and accessories

# SystemCarrier performance, system carrier for Erbe units and modules



Dimensions: 650 x 924 x 633 mm (WxHxD) Weight: 28 kg Internal gas bottle storage 4 conductive castors with fixing brake 1 power input, 5 power outlets



Optional accessoires for SystemCarrier performance	No.
One-pedal footswitch mount, VIO®/EREBJET® 2/ERBECRYO® 2 footswitch	20180-463
One-pedal footswitch mount, EIP 2 footswitch	20180-464
Cable holder for power cord	20180-460
Hook for cable storage	20180-465
Hook for irrigation-liquid bag on bracket	20325-002
Attachment rail for suction container (can be mounted onto the ESM 2 itself or the SystemCarrier corpus)	20180-509
Accessory basket for SystemCarrier performance	20180-520
Wire basket 339 x 205 x 155 / 100 mm	20180-010
Fastening set device for VIO®/APC/EREBJET®2/ERBECRYO®2 on SystemCarrier performance	20180-150
Fastening set IES 3 on SystemCarrier performance	20180-512
Fastening set ESM2 on SystemCarrier performance	20180-511
Fastening set EIP2 on SystemCarrier performance	20180-513
Fastening set VIO® 3/VIO® 3n/VIO® seal/APC 3 on ERBEJET® 2/ERBECRYO® 2	20180-144
Fastening set VIO® D/VIO® S/APC 2 on ERBEJET® 2/ERBECRYO® 2	20150-050
Fastening set VIO® D / VIO® S on APC 2	20180-134

#### Carts and accessories

# SystemCarrier compact, system carrier for VIO® family and modules



Dimensions: 615 x 955 x 615 mm (WxHxD) Weight: 26 kg 3 internal storage compartments 4 conductive castors with fixing brake

	No. 20180-100
= 1	

# SystemCarrier compact plus, system carrier for VIO®/APC family and modules



Dimensions: 615 x 955 x 615 mm (WxHxD) Weight: 26 kg Internal gas bottle storage 4 conductive castors with fixing brake 1 power input, 3 power outlets

	No. 20180-101
= 1	

Optional accessoires for SystemCarrier compact and SystemCarrier compact plus	No.
One-pedal footswitch mount, VIO® footswitch	20180-463
One-pedal footswitch mount, EIP 2/VIO® C footswitch	20180-464
Cable holder for power cord	20180-460
Hook for cable storage	20180-465
Hook for irrigation-liquid bag on bracket	20325-002
Fastening set device for VIO® or APC on SystemCarrier compact/compact plus	20180-150
Fastening set VIO® C on SystemCarrier compact/compact plus	20180-151
Fastening set IES 3 on SystemCarrier compact/compact plus	20180-152
Fastening set EIP 2 on SystemCarrier compact/compact plus	20180-153

# Fastening sets

Fastening sets	No.
VIO 3 to VIO CART 20180-000	20180-140
APC 3 to VIO CART 20180-000	20180-141
VIO 3 and APC 3 to Konsole	20180-143
VIO 3 and APC 3 to ERBEJET 2 10150-000	20180-144
IES 3 to VIO 3	20323-007
VIO C on IES 3	20323-008
VIO D/S / APC 2 on VIO CART 20180-000	20180-131
VIO D/S on APC 2 (version since 2005)	20180-134
EIP 2 on VIO CART 20180-000	20180-135
IES 2 on VIO CART 20180-000, incl. ECB cable 15 cm	20180-132

# Potential equalization lines / Power cords

Potential equalization lines	Length	No.
Potential equalization line, for all types of units, connections acc. to DIN 42801	5 m	20194-025

Power cords	Country	Length	No.
Power cord 10A	Germany	0.5 m	52704-046
Power cord 10A	Germany	2.5 m	52704-037
Power cord 10A	Germany	4 m	52704-032
Power cord 10A	Germany	5 m	52704-042
Power cord 10A	Great Britain	2.5 m	52704-038
Power cord 10A	Great Britain	5 m	52704-043
Power cord 10A	Italy	2.5 m	52704-040
Power cord 10A	Italy	5 m	52704-045
Power cord 10A	Canada	4 m	52704-039

#### Foot switches

# ReMode two-pedal footswitch with bracket and center bar for VIO 3, AP & IP X8 Equipment



with connecting cable 5 m



# ReMode two-pedal foot switch with bracket for VIO 3, AP & IP X8 Equipment



with connecting cable 5 m

	No. 20189-351
= 1	
	max 75 °C
<b>i</b> 30189-306	

# ReMode two-pedal foot switch with center bar for VIO 3, AP & IP X8 Equipment



with connecting cable 5  $\,\mathrm{m}$ 

	No. 20189-352
= 1	
	max 75 °C
<b>i</b> 30189-306	

# ReMode two-pedal foot switch for VIO 3, AP & IP X8 Equipment



with connecting cable 5 m

	No. 20189-350
= 1	
	max 75 °C
<b>i</b> 30189-306	

# ReMode one-pedal foot switch for VIO 3, AP & IP X8 Equipment



with connecting cable 5 m



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#### Foot switches

# ReMode two-pedal foot switch for VIO D with bracket, AP & IP X8 equipment



with connecting cable 5 m, ReMode function only available with VIO D



# ReMode two-pedal foot switch for VIO D, AP & IP X8 equipment



with connecting cable 5 m, ReMode function only available with VIO D



# Two-pedal foot switch for VIO D/S with bracket, AP & IP X8 equipment



with connecting cable 5  $\,\mathrm{m}$ 

	No. 20189-300
= 1	
	max 75 °C
<b>i</b> 30189-301	

# Two-pedal foot switch for VIO D/S, AP & IP X8 equipment



with connecting cable 5 m

	No. 20189-302
= 1	
	max 75 °C
<b>i</b> 30189-301	

# ReMode one-pedal foot switch for VIO D, AP & IP X8 equipment



with connecting cable 5 m, for VIO D from version V 1.7.6

	No. 20188-302
= 1	
	max 75 °C
<b>1</b> 30189-301	

# Foot switches

# One-pedal foot switch for VIO D/S, AP & IP X8 equipment



with connecting cable 5 m



# Two-pedal foot switch for VIO C, AP & IP X8 equipment



with connecting cable 5 m

	No. 20189-107
= 1	
<b>i</b> 30189-108	

# One-pedal foot switch for VIO C, AP & IP X8 equipment



with connecting cable 5  $\ensuremath{\text{m}}$ 

	No. 20188-102
= 1	
<b>i</b> 30189-108	

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Further accessories for VIO foot switch	No.
Hoop guard for VIO two-pedal foot switch	20189-306
Middle piece for two-pedal foot switch	20189-308
Cable for VIO 3 foot switch, length 5 m	20189-355
Cable for VIO foot switch, length 5 m	20189-309
Extension cable for VIO foot switch, length 0.6 m	20189-103

# Upgrades

VIO Upgrades for VIO D from V.2.x	No.
VIO Upgrade Interface	20140-006
VIO Upgrade Connector BiClamp	29140-214
VIO Upgrade Connector DRY CUT	29140-215
VIO Upgrade Connector TWINCOAG	29140-216
VIO Upgrade Connector PRECISE	29140-217
VIO Upgrade Connector ENDO CUT	29140-218

# Socket modules

Socket modules	No.
Socket module MF-U, as an upgrade kit for VIO 3	20160-005
Socket module MF-0, as an upgrade kit for VIO 3	20160-004
Socket module MO 3Pin-9/5, as an upgrade kit for VIO 3	20160-001
Socket module MO 3Pin-Bovie, as an upgrade kit for VIO 3	20160-002
Socket module BI 2Pin 22-28-8/4, as an upgrade kit for VIO 3	20160-003
Socket module NE 6 - NE 2Pin, as an upgrade kit for VIO 3	20160-006
Assembly kit without socket, for APC 2	20134-600
FiAPC socket module for APC 2	20134-651
Socket module BI 2Pin 22-28-8/4, as an upgrade kit	20140-613
Socket module MO 3Pin-Bovie, as an upgrade kit	20140-622
Socket module MO 3Pin-9/5, as an upgrade kit	20140-623
Cover MO 3Pin	20140-625
Complete Cover MO 3PIN	20140-626
Socket module MF-0, as an upgrade kit	20140-630
Socket module MF-2, as an upgrade kit for VIO 300 D	20140-633
Socket module NE 6 - NE 2Pin, as an upgrade kit	20140-642

#### APC pressure reducers and argon gas cylinders

# Country-specific gas cylinder connectors APC 3, APC 2, APC 300









## DIN 477, Nr. 6 m

for Afghanistan, Algeria, Andorra, Argentina B\*, Austria, Bangladesh D\*, Belgium, Bhutan, Brazil B\*, Brunei, Caribbean Countries, Chile **B\***, China, Croatia, Cyprus, Czech Republic, Egypt, Estonia, France, Germany, Greece, Hungary, Iceland, India D\*, Indonesia, Iran, Ireland, Israel, Japan, Korea North, Korea South, Kuwait D\*, Latvia, Lebanon, Libya, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malaysia, Malta, Mauritius, Morocco, Myanmar, Namibia, Nepal D\*, Oman D\*, Pakistan D\*, Peru B\*, Philippines, Poland, Portugal, Qatar D\*, Romania, Russia, Saudi Arabia D\*, Singapore, Slovakia, Slovenia, South Africa, Spain, Sri Lanka D\*, Sudan, Switzerland, Taiwan (ROC), Thailand D\*, Tunisia, Turkey, Ukraine, United Arab Emirates D\*, Uruguay, Vietnam D\*, Yemen D\*, Yugoslavia

#### CGA Nr. 580 m

for Argentina A\*, Bolivia, Brazil A\*, Canada, Chile A\*, Columbia, Dominican Republic, Ecuador, El Salvador, Guam, Guatemala, Haiti, Honduras, Italy, Mexico, New Zealand, Panama, Peru A\*, USA, Venezuela

## DIN 477, Nr. 10 m

for Denmark, Finland, Ivory Coast, Netherlands, Norway, Sweden

## BS 341, Nr. 3 m

for Australia, Bangladesh A\*, Great Britain, India A\*, Kuwait A\*, Nepal A\*, Northern Ireland, Oman A\*, Pakistan A\*, Qatar A\*, Saudi Arabia A\*, Sri Lanka A\*, Thailand A\*, United Arab Emirates A\*, Vietnam A\*, Yemen A\*

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<sup>\*</sup> further gas cylinder connectors possible

## APC pressure reducers and argon gas cylinders

# Pressure reducer with sensor for APC 2/APC 3, with manual connection



gas cylinder connector to DIN 477 No. 6 m, W 21,8 outside, with hose 1 m with manual connection

	No. 20134-004
= 1	
<b>i</b> 30134-008	A

#### Argon gas cylinder, 5 liters, empty



gas cylinder connector to DIN 477 No. 6 m dimensions: height 60 cm, ø 14 cm weight 8,8 kg

	No. 20132-171
= 1	
	A

# Argon gas cylinder, 5 liters, 200 bar (2800 psi) filled with 4.8 argon gas (99,998%)



gas cylinder connector to DIN 477 No. 6 m dimensions: height 60 cm, ø 14 cm weight 10,7 kg

	No. 20132-004
= 1	
	A

# Pressure reducer with sensor for APC 2/APC 3, with manual connection



gas cylinder connector to CGA No. 580 m, 0,965" inside, with hose 1 m  $\,$ 

	No. 20134-002
= 1	
<b>i</b> 30134-008	В

# APC pressure reducers and argon gas cylinders

## Argon gas cylinder, 5 liters, empty



gas cylinder connector to CGA No. 580 m dimensions: height 60 cm, ø 14 cm weight: 8,1 kg

	No. 20132-165
= 1	
	В

## Pressure reducer with sensor for APC 2/APC 3, with manual connection



gas cylinder connector to DIN 477 No. 10 m, W 24,32 outside, with hose 1 m with manual connection  $\,$ 

	No. 20134-001
= 1	
<b>i</b> 30134-008	G

# Pressure reducer with sensor for APC 2/APC 3, with manual connection



gas cylinder connector to BS 341 No. 3 m, G 5/8" inside, with hose 1 m, with manual connection

	No. 20134-003
= 1	
<b>i</b> 30134-008	D

# Pressure reducer with sensor for APC 2/APC 3



	No. 20134-005
= 1	
<b>i</b> 30134-008	Japan

# Pressure reducer with sensor for APC 2/APC 3



	No. 20134-006
= 1	
2012/ 000	В
<b>i</b> 30134-008	

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# Further APC accessories

# Pressure reducer with sensor for APC 2/APC 3, with manual connection



gas cylinder connector to ISO 5145  $\ensuremath{\text{n}^{\circ}\text{4}},$  with hose 0.75 m

	No. 20134-007
= 1	
☐ <b>i</b> D130245	France

# Pressure reducer without sensor for APC 300, with manual connection



gas cylinder connector to ISO 5145  $\ensuremath{\text{n}^{\circ}\text{4}},$  with hose 0,75 m

	No. 20132-078
= 1	
<b>i</b> D130245	France

# Connecting tube for central gas supply, APC 2/APC 3, APC 300, length 1 m



	No. 20132-085
= 1	

Socket modules	No.
FiAPC socket module for APC 2	20134-651

## IES smoke evacuation system

# Main filter cartridge IES 3 with connection ø 22 mm



# Filter cartridge for IES 2, IES 300, with connection ø 22 mm





#### Prefilter for use with smoke evacuators, with connection ø 22 mm





# Smoke evacuation tubing ø 32 mm, length 1.8 m, type VT 10106 for connection to central evacuation system



	No. 20323-009
= 6	
	2
① <b>i</b> D147210	

# Suction hose, with connection ø 22 mm, length 2.1 m



	No. 20321-012
= 1	
	max 95 °C
	max 134 °C

## Suction hose, with connection ø 22 mm, length 2.7 m



	No. 20321-009
= 1	
	max 95 °C
	max 134 °C

# Evacuation tube, optimized streaming, with connection $\emptyset$ 22 mm



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## IES smoke evacuation system

# Evacuation funnel, with connection ø 22 mm





# T-piece, 22M - 22F - 22M for simultaneous application





# LAP tubing set IES 3, with trumpet valve, 3 m, for laparoscopic application



	No. 20323-003
= 10	
	2
<b>1</b> D146821	STERILE EO

# LAP tubing set IES 3, with trumpet valve, 5 m, for laparoscopic application



	No. 20323-006
= 10	
	2
<b>i</b> D146821	STERILE EO

# LAP tubing set IES 3, without valve, 3 m, for laparoscopic application



	No. 20323-010
= 10	
	2
<b>1</b> D146821	STERILE EO

# LAP tubing set IES 3, without valve, 5 m, for laparoscopic application



	No. 20323-011
= 10	
	2
<b>i</b> D146821	STERILE EO

# IES smoke evacuation system

# Evacuation element IES 3 for central evacuation



	No. 20323-001
= 1	

# Automatic Activation Device for IES 3 for VIO C, electrosurgical external devices or stand-alone operation



	No. 20323-002
= 1	
<b>i</b> D158940	

# Self-sealing water trap, right angled, medium volume for protecting the main filter cartridge



	No. 20323-004
= 1	
	2
<b>1</b> D139277	

# Evacuation element with connector ø 22 mm for IES 2





	No. 20322-010
= 1	

# One-pedal foot switch for IES 2, AP & IP X8 equipment

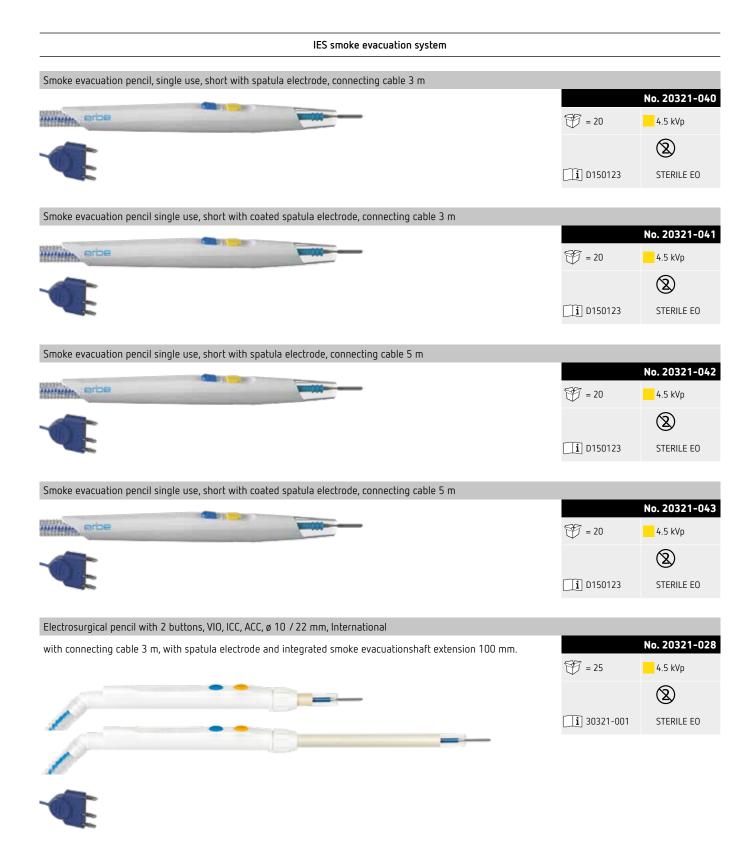


with connecting cable 5 m, with connecting plug 7 poles

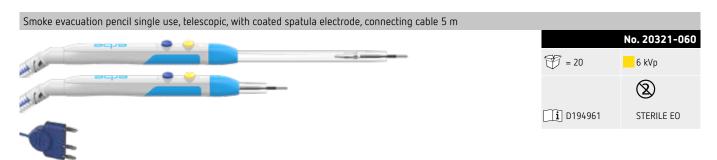
	No. 20322-101
= 1	
	max 75 °C
<b>i</b> 30189-301	

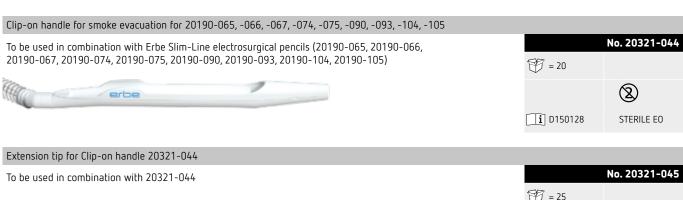
17

Power cord and foot switch cable	No.
Power cord ICC / IES 300, length 0.35 m	51704-033



# IES smoke evacuation system





Extension tip for Clip-on handle 20321-044		
To be used in combination with 20321-044		No. 20321-045
	= 25	
		2
	<b>1</b> D146678	STERILE EO

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# EIP 2 irrigation pump

# Tubing set EIP 2 for flexible endoscopes, with Luer Lock connection, length 2.5 m



replaces 20325-001

No. 20325-010	
= 10	
	2
<b>i</b> D148285	STERILE EO

# Tubing set EIP 2 for irrigation forceps, without connecting cable, length 2.8 m



replaces 20325-020

No. 20325-01	
= 10	
	2
<b>1</b> D148285	STERILE EO

# One-pedal foot switch for EIP 2, AP & IP X8 equipment



with connecting cable 3 m, connecting plug 4 poles

	No. 20325-000
= 1	
<b>i</b> 30189-028	

# Hook for irrigation liquid bag on bracket / VIO Cart



	No. 20325-002
= 1	
	max 95 °C
	max 134 °C

# EIP 2 irrigation pump

# Irrigation adapter for Fujifilm



	No. 20325-004
= 1	



# Irrigation adapter for PENTAX



	No. 20325-005
= 1	



Fastening sets	No.
Fastening set EIP 2 / ESM 2 to VIO Cart 20180-000	20180-135

# Fluid management system

# Reusable, with one suction unit



Single components	Pieces	No.
Silicone hose, length 600 mm	1	20340-004
Rail bracket, plastic	1	20340-002
Upper bracket for VIO CART, length 260 mm	1*	20180-040

<sup>\*</sup> optional

# Reusable, with two suction units



Single components	Pieces	No.
Silocone hose, length 600 mm	1	20340-004
Reversing valve, rail bracket with two silicone hoses, length 300 mm	1	20340-003
Rail bracket, plastic	2	20340-002
Lower bracket for VIO CART, length 390 mm	1	20180-042
Upper bracket for VIO CART, length 260 mm	1	20180-040

# ESM membrane filter



for use with silicone hose 20340-004

	No. 20340-100
= 10	
	2

# Silicone hose, length 600 mm



	No. 20340-004
= 1	
	max 95 °C
	max 134 °C

# Rail bracket, plastic



for use with suction container 20340-102 and 20340-103

	No. 20340-002
= 1	

# Fluid management system

# Switching valve, rail bracket and 2 silicone hoses, length 300 mm



	No. 20340-003
= 1	
	max 95 °C
	max 134 °C

# Suction container, 1.5 liters



for use with suction bag 20340-012

	No. 20340-102
= 1	

# Suction bag, 1.5 liters



for use with suction container 20340-102

	No. 20340-012
= 30	
	2

# Suction bag, 2.5 liters



for use with suction container 20340-103

2

#### Test box

# Test box 3 for checking of electrosurgical accessories



	No. 20183-042
= 1	

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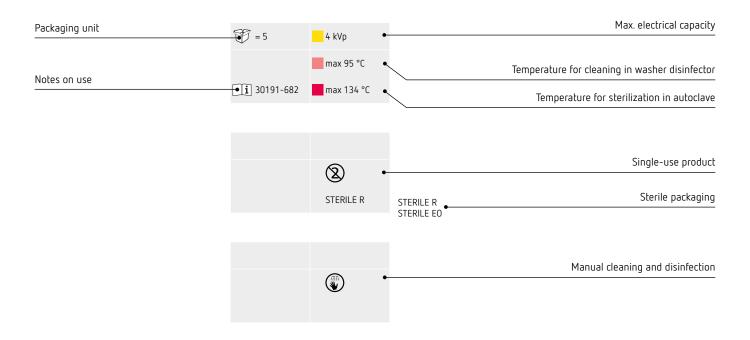
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The data on the use of instruments is based on clinical experience. Medical science is subject to a process of permanent change based on research and clinical experience. Therefore the products are subject to alterations in design and technique. Because of production tolerances dimensions in the catalogue may marginally differ.

# Further product information



Please read carefully the corresponding notes on use before using any instrument.

# Contents

# Vessel sealing

## Instruments and accessories

U	4	TriSect	rapide
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04 BiClamp knife

05 BiClamp

13 BiClamp LAP forceps

17 BiClamp E LAP forceps

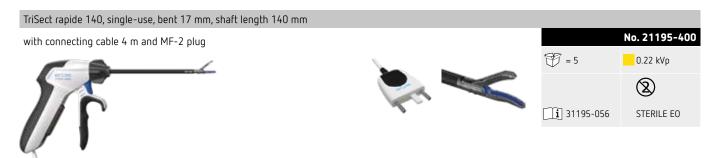
Accessories for treatment for BiClamp LAP and BiClamp E LAP forceps

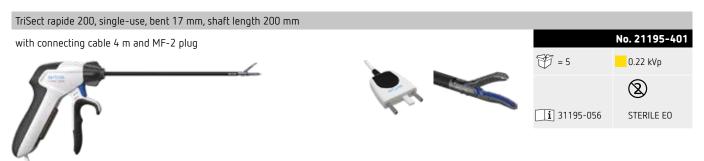
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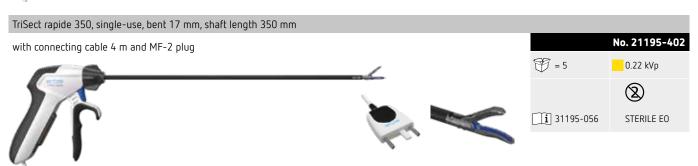
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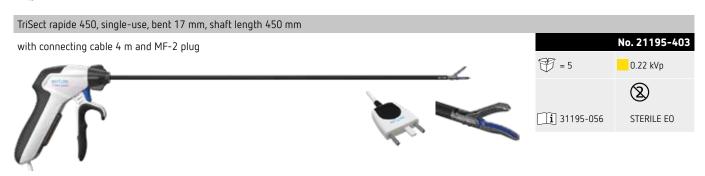
# Instruments and accessories

## TriSect rapide

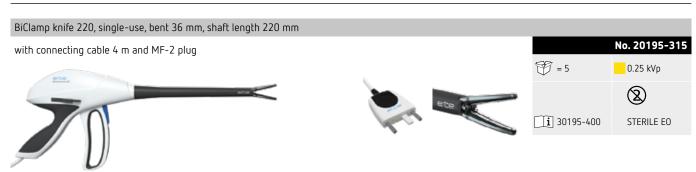








# BiClamp knife



# Instruments and accessories

# BiClamp







# Instruments and accessories

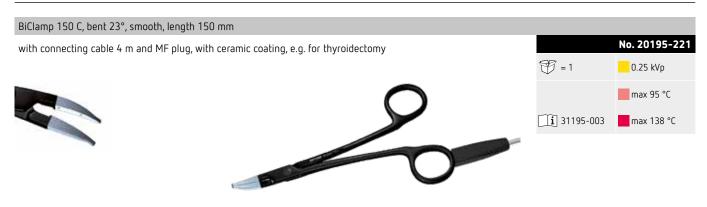
# BiClamp



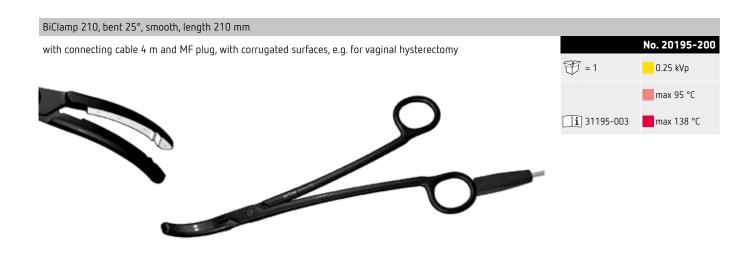
Product type	Length	Shape	Jaws	No.
BiClamp 150 C	150 mm	bent 23°	smooth	20195-221 21195-221
BiClamp 190 C	190 mm	bent 23°	smooth	21195-190
BiClamp 201 T	200 mm	bent 18°	smooth	20195-202 21195-202
BiClamp 210	210 mm	bent 25°	corrugated	20195-200 21195-200
BiClamp 260 C	260 mm	bent 18°	smooth	20195-299 21195-299
BiClamp 271 T	270 mm	bent 18°	smooth	20195-203 21195-203
BiClamp 280	280 mm	bent 25°	smooth	20195-280 21195-280

100 %

#### BiClamp

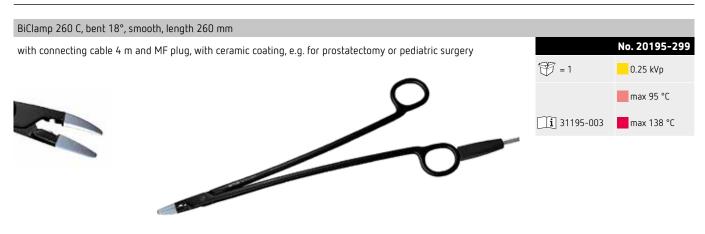


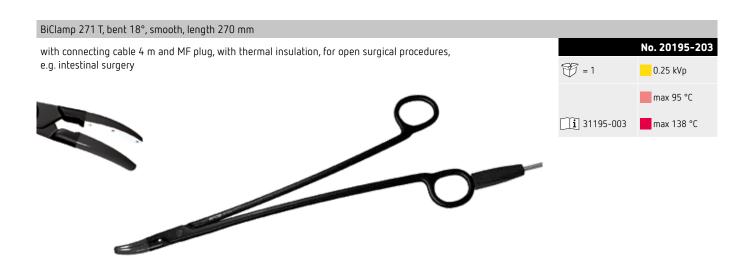


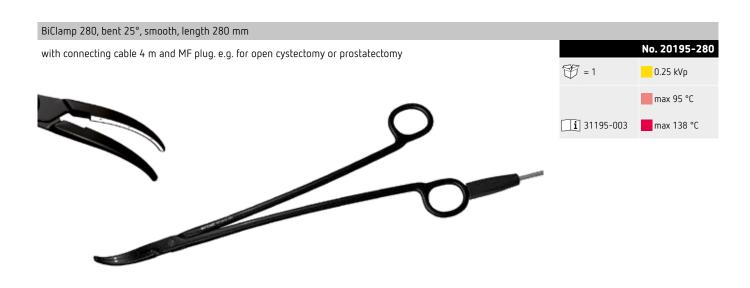


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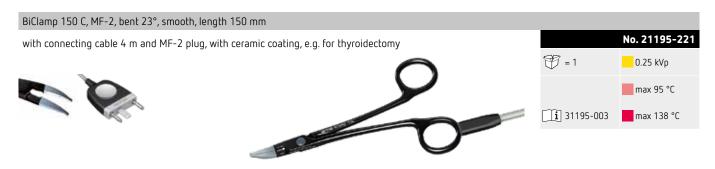
#### BiClamp



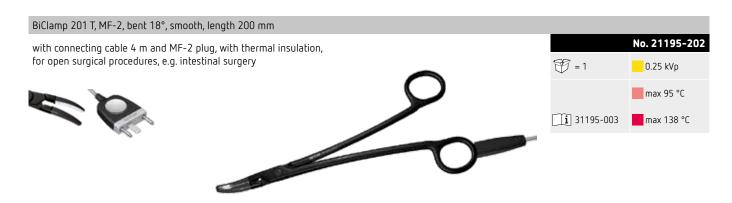




#### BiClamp



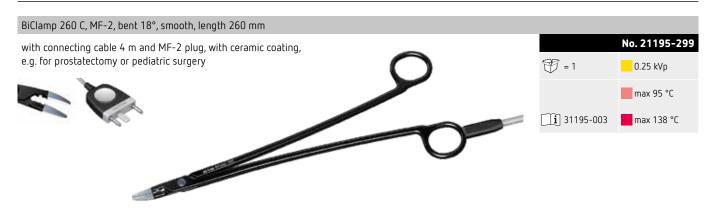


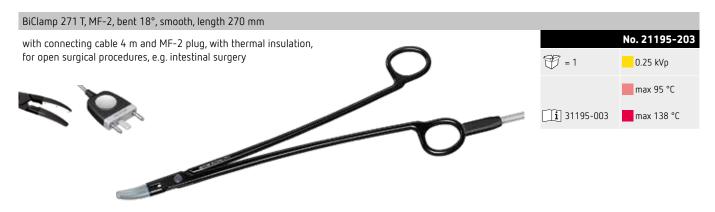


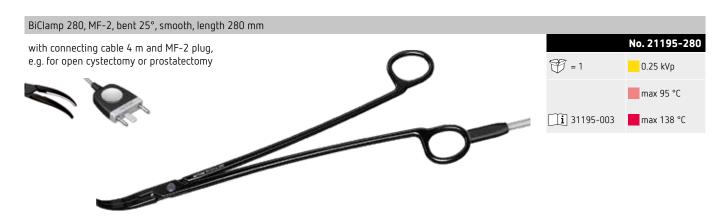


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#### BiClamp







Adapters	Piece	No.
Adapter, MF-socket, MF-2-plug for VIO 300 D	1	20183-100
Adapter, MF-2/MF-U-socket, MF-plug for VIO 3 and VIO 300 D	1	20183-101

#### BiClamp LAP forceps









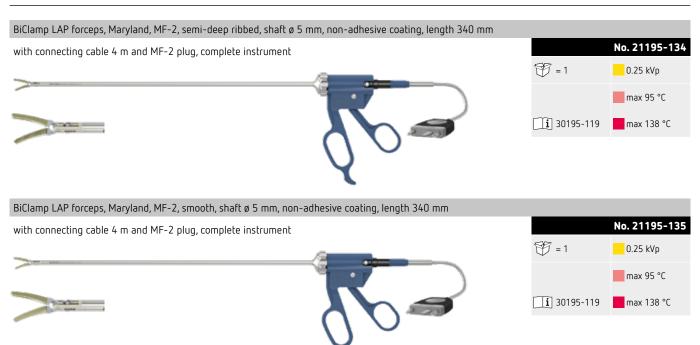
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#### BiClamp LAP forceps





#### BiClamp LAP forceps



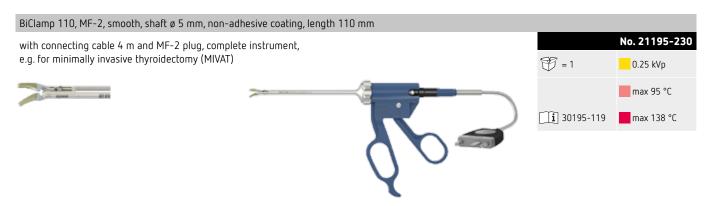






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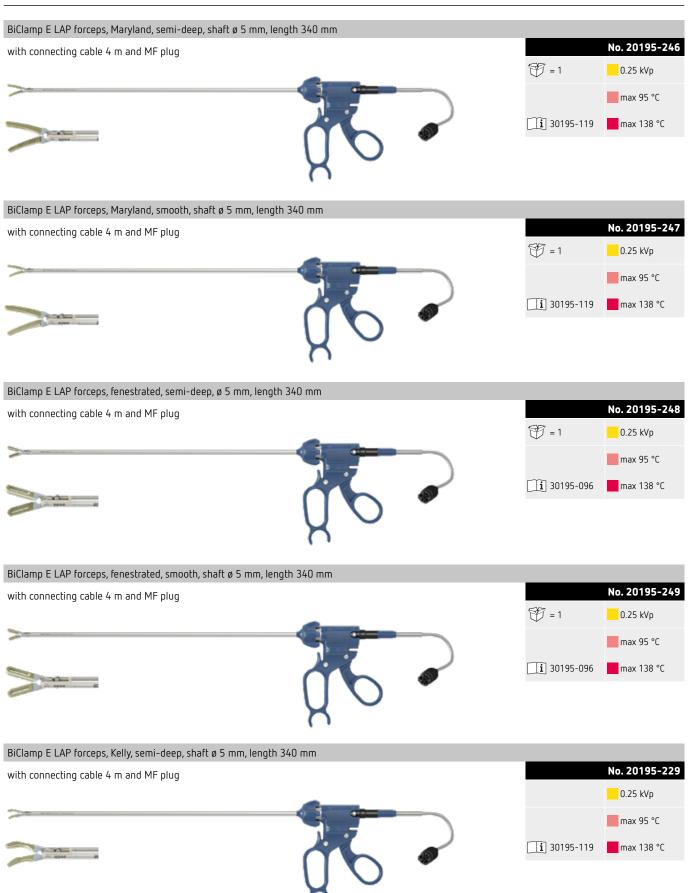
#### BiClamp LAP forceps



Single components		Piece	No.
Insert for BiClamp LAP forceps, Kelly, shaft ø 5 mm, length 340 mm (for 20195-228)	arbassa	1	20195-236
Insert for BiClamp LAP forceps, Maryland, semi-deep ribbed, shaft ø 5 mm, length 340 mm (for 20195-134)	- arises	1	20195-146
Insert for BiClamp LAP forceps, Maryland, smooth, shaft ø 5 mm, length 340 mm (for 20195-135)	The sections	1	20195-147
Insert for BiClamp LAP forceps, fenestrated, semi-deep, shaft ø 5 mm, length 340 mm (for 20195-136)		1	20195-148
Insert for BiClamp LAP forceps, fenestrated, smooth, shaft ø 5 mm, length 340 mm (for 20195-137)	arba	1	20195-149
Insert for BiClamp 110, smooth, shaft ø 5 mm, length 110 mm (for 20195-230)	Table mylon	1	20195-232
Shaft tube for bipolar LAP forceps and BiClamp LAP forceps		1	20195-141
Shaft tube for BiClamp 110, ø 5 mm, length 110 mm (for 20195-230)		1	20195-234
Handle for BiClamp LAP forceps and BiClamp 110, with connecting cable 4 m and MF plug	160	1	20195-145
Handle for BiClamp LAP forceps and BiClamp 110, with connecting cable 4 m and MF-2 plug	160	1	21195-145

Adapters	Piece	No.
Adapter, MF-socket, MF-2-plug for VIO 300 D	1	20183-100
Adapter, MF-2/MF-U-socket, MF-plug for VIO 3 and VIO 300 D	1	20183-101

#### BiClamp E LAP forceps



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#### BiClamp E LAP forceps











#### BiClamp E LAP forceps

Single components		Piece	No.
Insert for BiClamp E LAP forceps, Kelly, shaft ø 5 mm, length 340 mm (for 20195-229, 21195-229)	erbe	1	20195-236
Insert for BiClamp E LAP forceps, Maryland, semi-deep ribbed, shaft ø 5 mm, length 340 mm (for 20195-246, 21195-246)	The section of the se	1	20195-146
Insert for BiClamp E LAP forceps, Maryland, smooth, shaft ø 5 mm, length 340 mm (for 20195-247, 21195-247)	The sections	1	20195-147
Insert for BiClamp E LAP forceps, fenestrated, semi-deep, shaft ø 5 mm, length 340 mm (for 20195-248, 21195-248)	arisa	1	20195-148
Insert for BiClamp E LAP forceps, fenestrated, smooth, shaft ø 5 mm, length 340 mm (for 20195-249, 21195-249)	arisa	1	20195-149
Shaft tube for BiClamp E LAP forceps, ø 5 mm, length 340 mm		1	20195-241
Handle for BiClamp E LAP forceps, with connecting cable 4 m and MF plug (for 20195-246, 20195-247, 20195-248, 20195-249, 20195-229)	g6.	1	20195-240
Handle for BiClamp E LAP forceps, with connecting cable 4 m and MF-2 plug (for 21195-246, 21195-247, 21195-248, 21195-249, 21195-229)	963	1	21195-240

Adapters	Piece	ce No.
Adapter, MF-socket, MF-2-plug for VIO 300 D		20183-100
Adapter, MF-2/MF-U-socket, MF-plug for VIO 3 and VIO 300 D		20183-101

#### Accessories for treatment for BiClamp LAP and BiClamp E LAP forceps

Accessories for treatment	Piece	No.
Cleaning brush for suction channel max. ø 3.5 mm, length 650 mm, for manual cleaning and disinfection	 1	20191-279
Irrigation tube for shaft tube with Luer Lock connector, length 500 mm, for LAP instruments, for cleaning and disinfection by machine	1	20195-201

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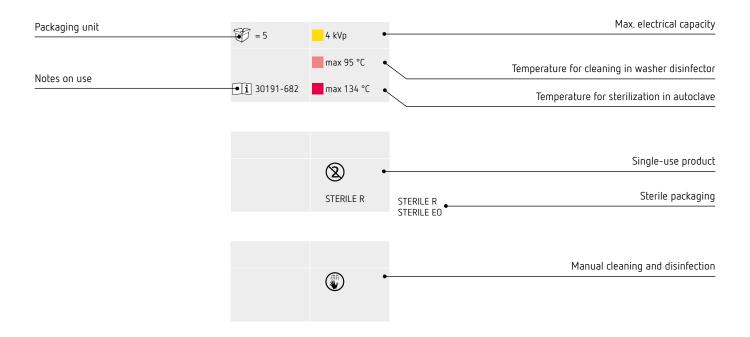
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## Further product information



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## Contents

# Argon plasma coagulation

#### Accessories for APC

04 FiAPC probes, single-use

07 APCapplicator

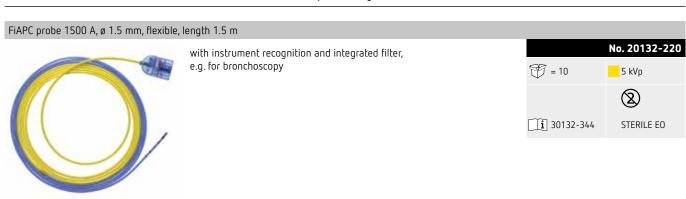
Instruments for APC

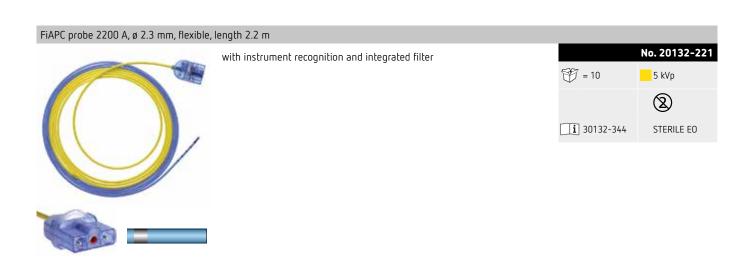
08 APC ignition test adapters

09  $\,^{\text{APC}}$  pressure reducers and argon gas cylinder / further APC accessories

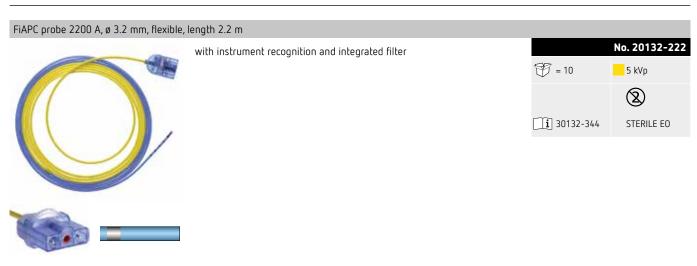


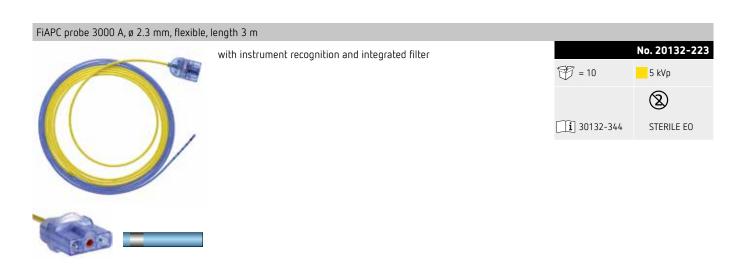
#### FiAPC probes, single-use

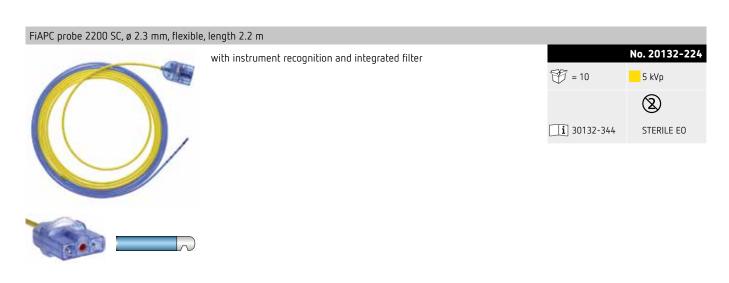




#### FiAPC probes, single-use







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#### FiAPC probes, single-use

No. 20132-225

STERILE EO

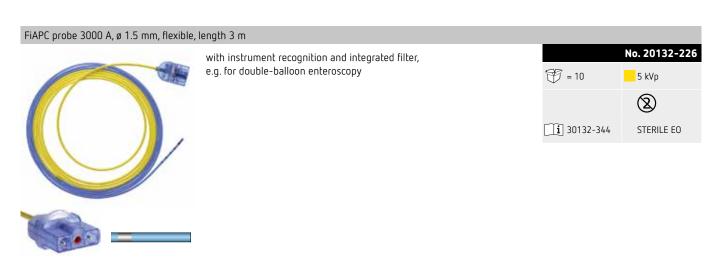
5 kVp

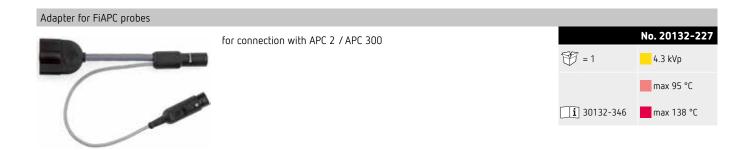
(2)

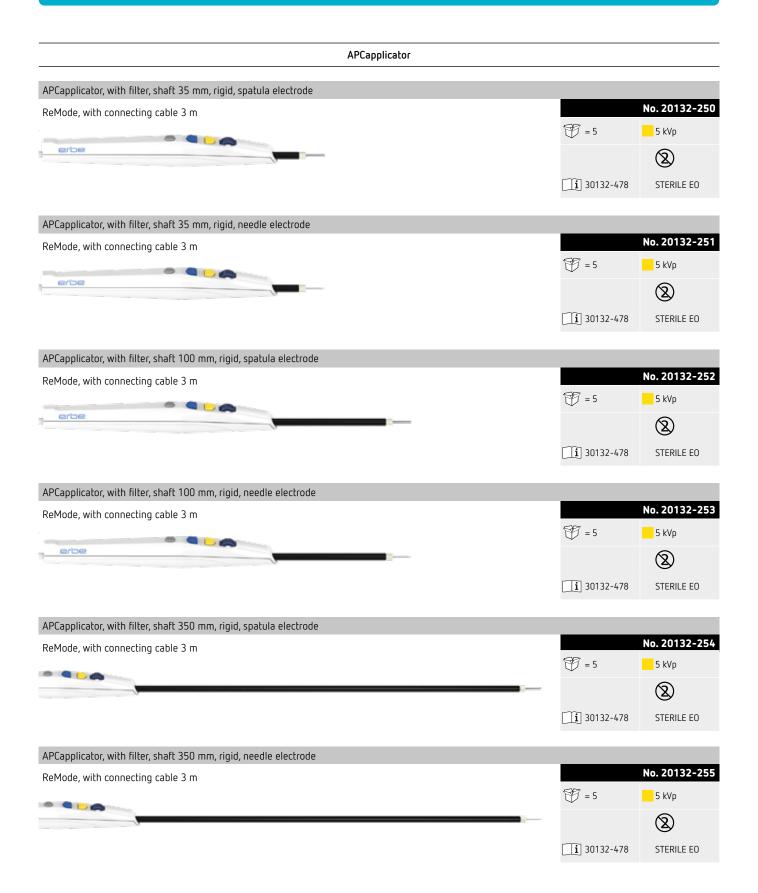
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**i** 30132-344

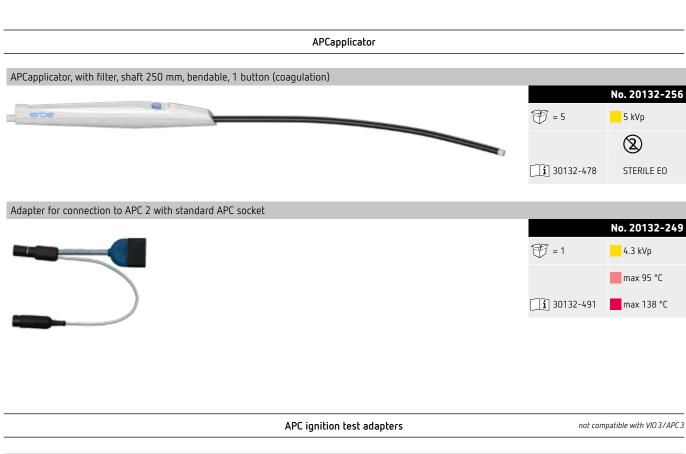




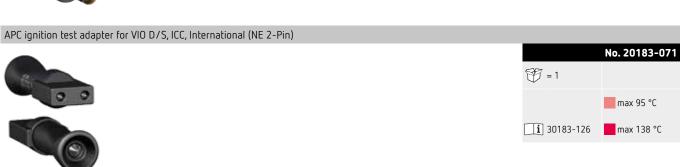




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#### Accessories for APC

#### APC pressure reducers and argon gas cylinders

# Country-specific gas cylinder connectors APC 3, APC 2, APC 300









#### DIN 477, Nr. 6 m

for Afghanistan, Algeria, Andorra, Argentina B\*, Austria, Bangladesh D\*, Belgium, Bhutan, Brazil B\*, Brunei, Caribbean Countries, Chile **B\***, China, Croatia, Cyprus, Czech Republic, Egypt, Estonia, France, Germany, Greece, Hungary, Iceland, India D\*, Indonesia, Iran, Ireland, Israel, Japan, Korea North, Korea South, Kuwait D\*, Latvia, Lebanon, Libya, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malaysia, Malta, Mauritius, Morocco, Myanmar, Namibia, Nepal D\*, Oman D\*, Pakistan D\*, Peru B\*, Philippines, Poland, Portugal, Qatar D\*, Romania, Russia, Saudi Arabia D\*, Singapore, Slovakia, Slovenia, South Africa, Spain, Sri Lanka D\*, Sudan, Switzerland, Taiwan (ROC), Thailand D\*, Tunisia, Turkey, Ukraine, United Arab Emirates D\*, Uruguay, Vietnam D\*, Yemen D\*, Yugoslavia

#### CGA Nr. 580 m

for Argentina A\*, Bolivia, Brazil A\*, Canada, Chile A\*, Columbia, Dominican Republic, Ecuador, El Salvador, Guam, Guatemala, Haiti, Honduras, Italy, Mexico, New Zealand, Panama, Peru A\*, USA, Venezuela

#### DIN 477, Nr. 10 m

for Denmark, Finland, Ivory Coast, Netherlands, Norway, Sweden

#### BS 341, Nr. 3 m

for Australia, Bangladesh A\*, Great Britain, India A\*, Kuwait A\*, Nepal A\*, Northern Ireland, Oman A\*, Pakistan A\*, Qatar A\*, Saudi Arabia A\*, Sri Lanka A\*, Thailand A\*, United Arab Emirates A\*, Vietnam A\*, Yemen A\*

09

## Accessories for APC

#### APC pressure reducers and argon gas cylinder / further APC accessories

#### Pressure reducer with sensor for APC 2/APC 3, with manual connection



gas cylinder connector to DIN 477 No. 6 m, W 21,8 outside, with hose 0.5 m with manual connection

	No. 20134-004
= 1	
i 30134-008	A

#### Argon gas cylinder, 5 liters, empty



gas cylinder connector to DIN 477 No. 6 m dimensions: height 60 cm, ø 14 cm weight 8,8 kg

32-171	
	= 1

#### Argon gas cylinder, 5 liters, 200 bar (2800 psi) filled with 4.8 argon gas (99,998%)



gas cylinder connector to DIN 477 No. 6 m dimensions: height 60 cm, ø 14 cm weight 10,7 kg

o. 20132-004
A

#### Pressure reducer with sensor for APC 2/APC 3, with manual connection



gas cylinder connector to CGA No. 580 m, 0,965" inside, with hose 0,5 m  $\,$ 

	No. 20134-002
= 1	
i 30134-008	B

#### Argon gas cylinder, 5 liters, empty



gas cylinder connector to CGA No. 580 m dimensions: height 60 cm, ø 14 cm weight: 8,1 kg

	No. 20132-165
= 1	
	В

#### Pressure reducer with sensor for APC 2/APC 3



	No. 20134-006
= 1	
<b>i</b> 30134-008	В

## Accessories for APC

#### APC pressure reducers and argon gas cylinder / further APC accessories

#### Pressure reducer with sensor for APC 2/APC 3, with manual connection



gas cylinder connector to DIN 477 No. 10 m, W 24,32 outside, with hose  $0.5\,$  m with manual connection

	No. 20134-001
= 1	
<b>1</b> 30134-008	C

#### Pressure reducer with sensor for APC 2/APC 3, with manual connection



gas cylinder connector to BS 341 No. 3 m, G  $5/8^{\prime\prime}$  inside, with hose 0,5 m, with manual connection

	No. 20134-003
= 1	
<b>i</b> 30134-008	D

#### Pressure reducer with sensor for APC 2/APC 3



	No. 20134-005
= 1	
<b>i</b> 30134-008	Japan

#### Pressure reducer with sensor for APC 2/APC 3, with manual connection



gas cylinder connector to ISO 5145  $\ensuremath{\text{n}^{\circ}\text{4}},$  with hose 0.75 m

	No. 20134-007
= 1	
<b>i</b> D130245	France

#### Pressure reducer without sensor for APC 300, with manual connection



gas cylinder connector to ISO 5145 n°4, with hose 0,75 m

	No. 20132-078
= 1	
	France
<b>1</b> D130245	France

#### Connecting tube for central gas supply, APC 2/APC 3, APC 300, length 1 m



No. 20132-085

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### Legend

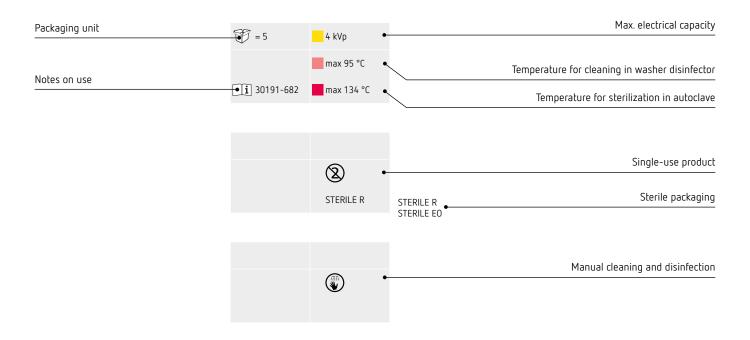
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## Contents

# Cryosurgery

#### Instruments and accessories

ĺ	J	4	ł	Gas	bottle	adapter	CO.
•	_		•	GGS	DOLLIC	daaptei	CO <sub>2</sub>

O5 Flexible cryoprobes for ERBECRYO 2, single-use

06 Accessories for ERBECRYO 2

07 Accessories for ERBOKRYO CA/ERBOKRYO AE

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#### Gas bottle adapter CO<sub>2</sub>

## Country-specific gas cylinder connectors

Code letter		E		F	G	Н	1
Thread type / Country	W 2.8 x 1/14"	W 21.7 x 1/14"	0.860" x 14 TPI	0.830"-14 NGO	G 3/4"	Pin Index	W 27 x 2 mm
Standard	Whitworth thread DIN 477 no. 9 (ø x pitch)	French standard for gases NFE 29-650	B. S. 341 British standard Threads per inch = pitch in threads/inch	CGA no. 320 Compressed Gas Association National Gas Outlet Straight Threads (ø x pitch)	British Whitworth pipe thread DIN ISO 228-1 (ø in inches)	Kodierung 1&6 DIN EN ISO 407	ISO 5145 no. 17
Gas bottle adapter		20410-003		20402-060	20410-016	20410-011	20402-061
Switch valve for connecting two gas cylinder adapters				20402-052			
	Austria Belarus Belgium Bulgaria China ex. Yugoslavia Finland Germany Greece Hungary Israel Korea Poland Russia Sweden Ukraine	Algeria Angola Belarus Ethiopia France Guinea Lebanon Morocco Portugal Russia Somalia Spain Swiss Syria Tunisia Ukraine	Australia Brunei Ecuador Egypt Hongkong India Indonesia Iraq Ireland Jordan Kenya Kuwait Liberia Libya Malaysia Malta New Zealand Nigeria Pakistan Saudi Arabia Singapore South Africa Sri Lanka UAE Vietnam Yemen	Argentina Bolivia Brazil Costa Rica Guatemala Mexico Peru Thailand	Belarus Czech Republic Egypt Russia Slovakia Ukraine Venezuela	Canada Cuba France Great Britain The Netherlands USA Venezuela	Denmark Finland Iceland Italy Norway Sweden

#### Cryoprobes for ERBECRYO 2

#### Flexible cryoprobe, single-use, ø 1.1 mm, length 1150 mm, with oversheath, length 817 mm

with oversheath ø 2.6 mm, length 817 mm



	No. 20402-401
= 5	
	2
<b>i</b> 30402-406	STERILE EO

#### Flexible cryoprobe, single-use, ø 1.1 mm, length 1150 mm, with oversheath, length 757 mm

with oversheath ø 2.6 mm, length 757 mm



	No. 20402-402
= 5	
	2
<b>i</b> 30402-406	STERILE EO

#### Flexible cryoprobe, single-use, ø 1.7 mm, length 1150 mm



	No. 20402-410
= 5	
	2
<b>i</b> 30402-406	STERILE EO

#### Flexible cryoprobe, single-use, ø 2.4 mm, length 1150 mm



	No. 20402-411
= 5	
	2
<b>i</b> 30402-406	STERILE EO

#### Accessories for ERBECRYO 2

#### One-pedal foot switch for ERBECRYO 2, AP & IP X8 equipment



	No. 20402-200
= 1	
	max 75 °C
<b>i</b> 30402-231	

#### Extension cable for ERBECRYO 2 footswitch, length 0.4 m



	No. 20402-202
= 1	

#### ERBECRYO 2 Cart



	No. 20402-300
= 1	

### Wire basket, 339 x 100/155 x 205 mm (W x H x D)



	No. 20180-010
= 1	

#### Accessories for ERBECRYO 2

Accessories for ERBECRYO 2	No.
Gas hose for ERBOKRYO CA / ERBOKRYO AE / ERBECRYO 2, length 1 m	20410-004
Gas hose for ERBOKRYO CA / ERBOKRYO AE / ERBECRYO 2, length 0.7 m	20448-000
Gas bottle adapter E, CO <sub>2</sub> , W 21.8 x 1/14" / W 21.7 x 1/14" / 0.860" x 14 TPI	20410-003
Gas bottle adapter F, CO <sub>2</sub> , 0.830"-14 NGO	20402-060
Gas bottle adapter G, CO <sub>2</sub> , G 3/4"	20410-016
Gas bottle adapter H, CO <sub>2</sub> , Pin Index	20410-011
Gas bottle adapter I, CO <sub>2</sub> , W 27 x 2 mm	20402-061
Switching valve, CO <sub>2</sub>	20402-052
Exhaust gas hose for ERBECRYO 2, length 5 m Inner diameter 13 mm, outer diameter 18 mm	20402-007
Exhaust gas hose for ERBECRYO 2, length 10 m Inner diameter 13 mm, outer diameter 18 mm	20402-008

#### Accessories for ERBOKRYO CA / ERBOKRYO AE

Accessories for ERBOKRYO CA / ERBOKRYO AE	No.
Gas hose for ERBOKRYO CA / ERBOKRYO AE / ERBECRYO 2, length 0.7 m	20448-000
Gas hose for ERBOKRYO CA / ERBOKRYO AE / ERBECRYO 2, length 1 m	20410-004
Gas filter for CO <sub>2</sub> (Germany)	20410-010
Gas filter for CO <sub>2</sub> , CIS, G 3/4"	20410-017
Gas filter, N <sub>2</sub> O, R 3/8"	20410-006
Filter cartridges for gas filter N <sub>2</sub> 0 R 3/8"	20410-008
Gas bottle adapter E, CO <sub>2</sub> , W 21.8 x 1/14" / W 21.7 x 1/14" / 0.860" x 14 TPI	20410-003
Gas bottle adapter F, CO <sub>2</sub> , 0.830"-14 NGO	20402-060
Gas bottle adapter G, CO <sub>2</sub> , G 3/4"	20410-016
Gas bottle adapter H, CO <sub>2</sub> , Pin Index	20410-011
Gas bottle adapter I, CO <sub>2</sub> , W 27 x 2 mm	20402-061
Gas bottle adapter, N <sub>2</sub> O, R 3/8"	20410-001
Gas bottle adapter, N <sub>2</sub> 0, 11/16" x 20	20410-002
Gas bottle adapter, N <sub>2</sub> O, Pin Index	20410-005
Gas bottle adapter, N <sub>2</sub> O, M 22 x 1.5	20410-013
Gas bottle adapter, $N_2O$ , M 26 x 1.5	20410-037

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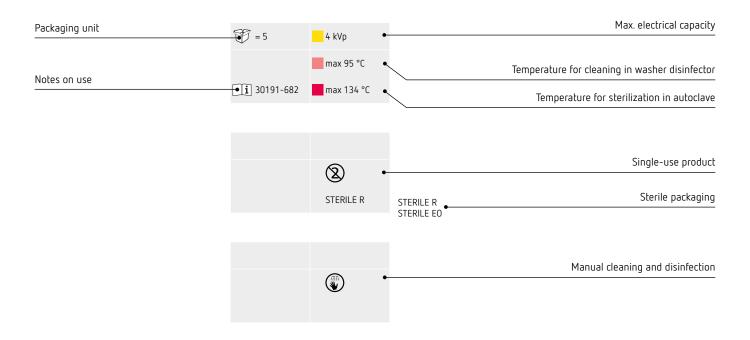
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## Contents

# Hydrosurgery

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_			1190110	III SCI GIII CIICS

06 Applicators and probes

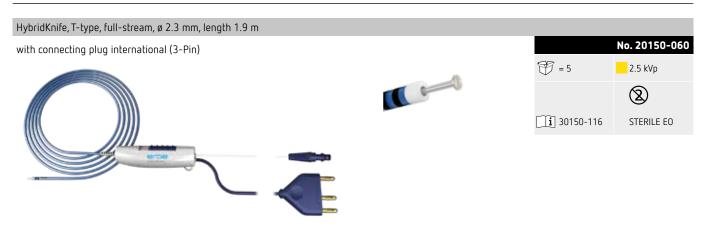
08 Accessories for ERBEJET 2

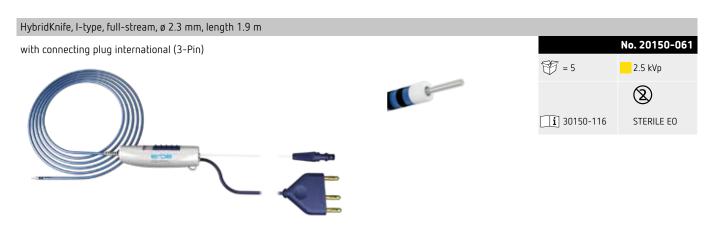
09 Accessories for ESM 2

11 Carts and accessories

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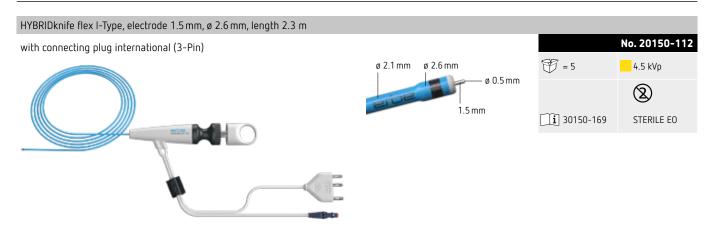
#### Hybrid instruments

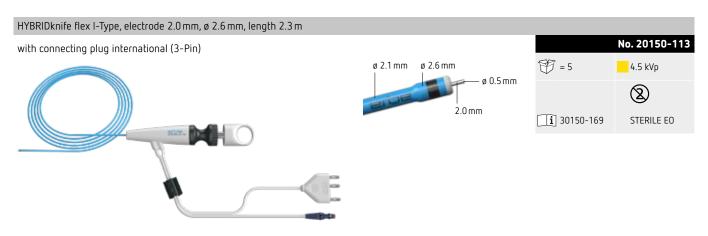




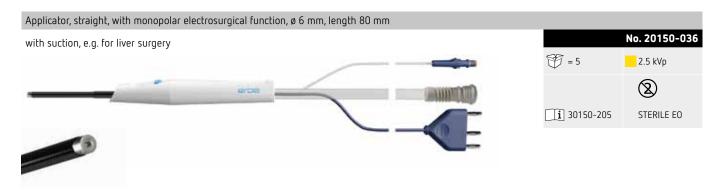


#### Hybrid instruments



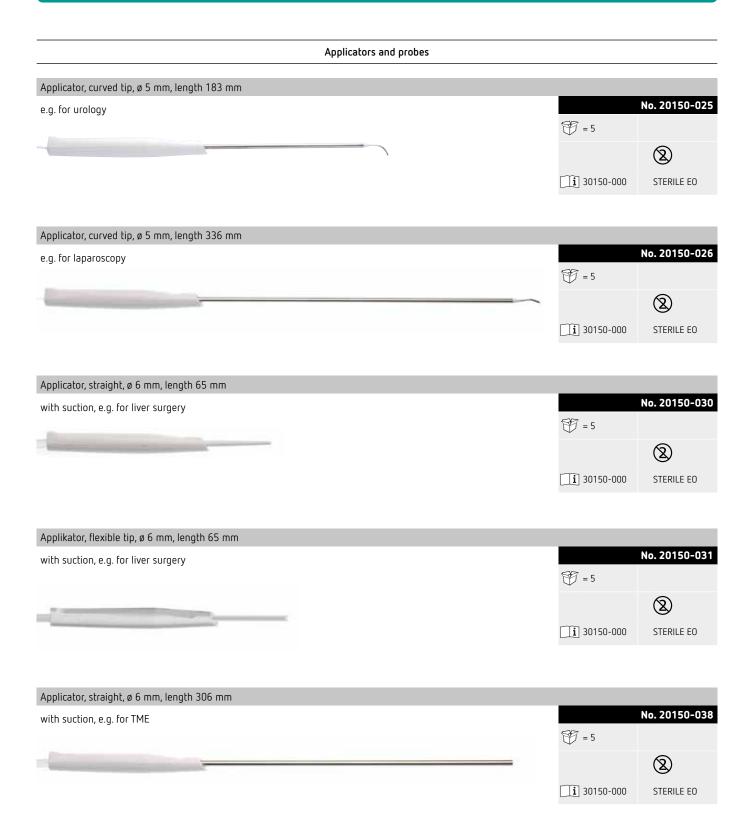


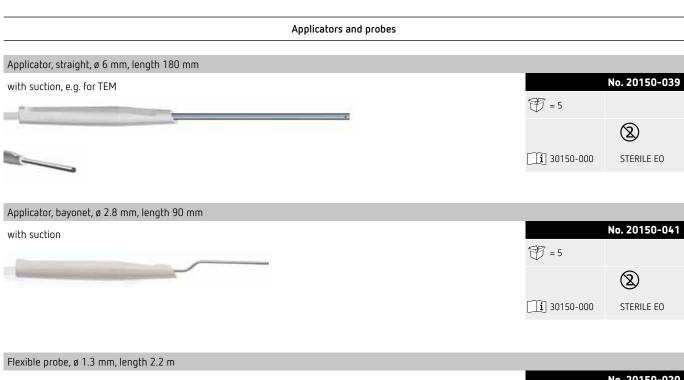




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05







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07

#### Accessories for ERBEJET 2

#### Pump cartridge plus for ERBEJET 2



	No. 20150-301
= 5	
	2
<b>i</b> 30150-400	STERILE EO

#### ERBEJET 2 one-pedal foot switch with ReMode, AP & IP X8 equipment





#### ERBEJET 2 two-pedal foot switch with ReMode, AP & IP X8 equipment



	No. 20150-100
= 1	
	max 75 °C
<b>i</b> 30150-100	

Further accessories for foot switches	Piece	No.
Hoop guard for VIO two-pedal foot switch	1	20189-306
Cable for ERBEJET 2 foot switch, length 5 m	1	20150-104

Power cord	Country	Length	Piece	No.
Power cord 10A	Germany	0.5 m	1	51704-046
Power cord 10A	Germany	2.5 m	1	51704-037
Power cord 10A	Germany	4 m	1	51704-032
Power cord 10A	Germany	5 m	1	51704-042
Power cord 10A	Great Britain	2.5 m	1	51704-038
Power cord 10A	Great Britain	5 m	1	51704-043
Power cord 10A	Italy	2.5 m	1	51704-040
Power cord 10A	Italy	5 m	1	51704-045
Power cord 10A	Canada	4 m	1	51704-039
Power cord 10A	India	4 m	1	20128-004

#### Accessories for ESM 2

#### Suction container, 1.5 liters



for use with suction bag 20340-012

	No. 20340-102
= 1	

### Suction bag, 1.5 liters



for use with suction container 20340-102

	No. 20340-012
= 30	
	2

### Suction bag, 2.5 liters



for use with suction container 20340-103

	No. 20340-013
= 30	
	2

09

#### Accessories for ESM 2

#### ESM membrane filter



for use with silicone hose 20340-004

	No. 20340-100
= 10	
	2

#### Silicone hose, length 600 mm



	No. 20340-004
= 1	
	max 95 °C
	max 134 °C

### Rail bracket, plastic



for use with suction container 20340-102 and 20340-103

	No. 20340-002
= 1	

#### Switching valve, rail bracket and 2 silicone hoses, length 300 mm



	No. 20340-003
= 1	
	max 95 °C
	max 134 °C

Connecting cable	No.
ECB connecting cable for ERBEJET 2, length 0.45 m	51709-008
- Les commercing coole for Life 1911 2, length of 19	<u> </u>

Fastening set	No.
Fastening set EIP 2 / ESM 2 to VIO CART 20180-000	20180-135

#### Carts and accessories

#### VIO CART, system carrier for VIO family and modules



dimensions: 630 x 940 x 650 mm (WxHxD)

weight: 31 kg

- 4 conductive castors ø 100 mm, with fixing brake
- 1 power input
- 3 power outlets

incl. following accessories:

- 1 grab handle out of stainless steel
- 2 cable holders
- 1 foot switch bracket (for currently available foot switches)



#### Hook for irrigation liquid bag on bracket / VIO Cart



	No. 20325-002
= 1	
	max 95 °C
	max 134 °C

#### Upper bracket for VIO CART, length 260 mm

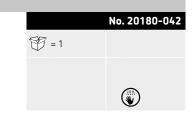




#### Lower bracket for VIO CART, length 390 mm

for use with secretion suction





11

Fastening sets	No.
Fastening set VIO D/S / APC 2 / ERBEJET 2 on VIO CART 20180-000	20180-131
Fastening set EIP 2 / ESM 2 to VIO CART 20180-000	20180-135
Fastening set on ERBEJET 2, connection to VIO / APC 2	20150-050

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Units and modules



### Legend

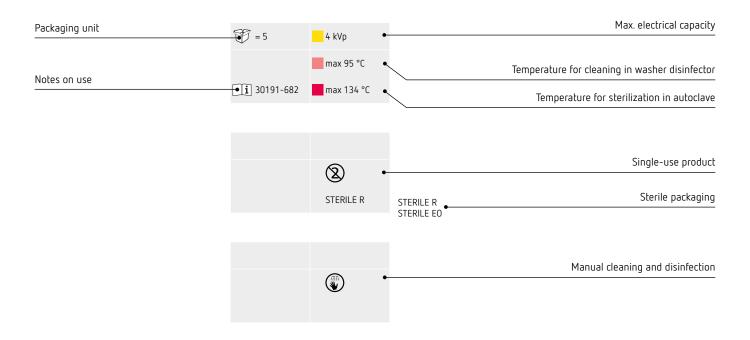
# Important notes

The authors and Erbe Elektromedizin GmbH have taken the greatest possible care while compiling the catalogue with electrosurgical accessories. Nevertheless, it is impossible to exclude the possibility that errors may be contained herein.

The information and recommendations given here may not be construed as constituting any basis for any claims against Erbe Elektromedizin GmbH. Should legal regulations stipulate liability, such liability shall be limited to intentional misconduct or gross negligence.

The data on the use of instruments is based on clinical experience. Medical science is subject to a process of permanent change based on research and clinical experience. Therefore the products are subject to alterations in design and technique. Because of production tolerances dimensions in the catalogue may marginally differ.

# Further product information



Please read carefully the corresponding notes on use before using any instrument.

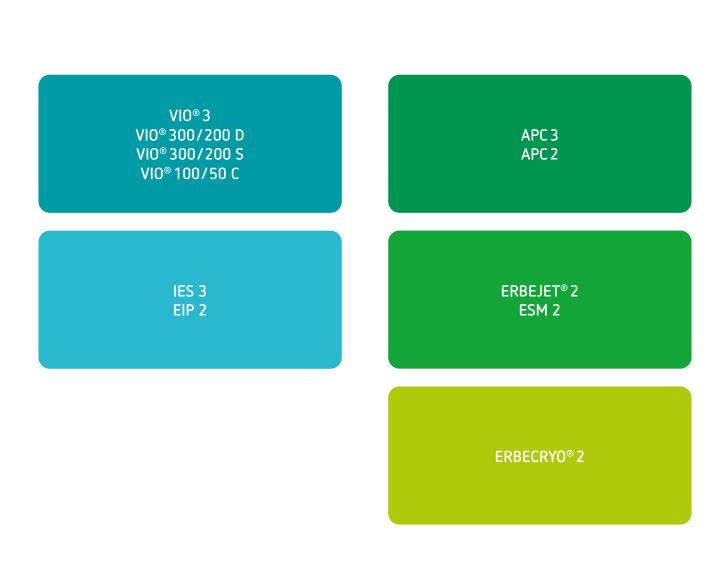
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# Units and modules

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Units



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03

#### VI0® 3

#### VI0® 3

VIO $^{\circ}$  3 is yet another of our milestones in technology following VIO $^{\circ}$  300/200. Take advantage of the progress that using VIO $^{\circ}$  3 provides you and your patients.

- Logical, convenient and visual operator guidance (stepGUIDE)
- ReMode: Up to 6 different settings selectable from the sterile field
- Reliable, reproducible tissue effects thanks to state-of-the-art processor technology
- Sockets: Easy replacement, connection recommendations, slot assignment



	No. 10160-000
CUT	COAG
autoCUT highCUT dryCUT autoCUT bipolar highCUT bipolar	preciseSECT swiftCOAG softCOAG forcedCOAG sprayCOAG
endoCUT Q endoCUT I	twinCOAG softCOAG bipolar forcedCOAG bipolar thermoSEAL forcedAPC pulsedAPC

#### Socket modules for VIO® 3

Socket modules	No.
MF-U, as an upgrade kit	20160-005
MF-0, as an upgrade kit	20160-004
MO 3Pin-9/5, as an upgrade kit	20160-001
MO 3Pin-Bovie, as an upgrade kit	20160-002
BI 2Pin 22-28-8/4, as an upgrade kit	20160-003
NE 6 - NE 2Pin, as an upgrade kit	20160-006

#### VIO® D

#### VIO® 300 D

In addition to vessel sealing, the high-end unit from the VIO® product range offers all APC modes and all available CUT and COAG modes (either as a standard mode in the unit or as an upgrade)

- Simple and interactive operation using the TFT display
- Automatic power adjustment for all control technologies
- · Variable configuration of socket assignment
- Additional upgrades available for specific medical specialties



No. 10140-100	
Upgrades	
PRECISE Upgrade - PRECISE CUT - BIPOLAR PRECISE CUT - PRECISE COAG - BIPOLAR PRECISE COAG	29140-217
ENDO CUT Upgrade - ENDO CUT Q - ENDO CUT I	29140-218
TWIN COAG Upgrade - TWIN COAG - Argon TWIN COAG	29140-216
BiClamp Upgrade	29140-214

#### VIO® 200 D

VIO® electrosurgical unit for endoscopy and other disciplines with all APC modes and other COAG modes for endoscopy, ENDO CUT I and Q as an upgrade

- Simple and interactive operation using the TFT display
- Automatic power adjustment for all control technologies
- · Variable configuration of socket assignment
- Additional upgrades available for specific medical specialties



No. 10140-200	
Upgrades	
PRECISE Upgrade - PRECISE CUT - BIPOLAR PRECISE CUT - PRECISE COAG - BIPOLAR PRECISE COAG	29140-217
ENDO CUT Upgrade - ENDO CUT Q - ENDO CUT I	29140-218
DRY CUT Upgrade - DRY CUT - Argon DRY CUT	29140-215

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#### VIO® D

#### VIO® 300 S

Universal VIO $^{\circ}$  electrosurgical unit based on different variants. For many surgical specialities with the most important CUT and COAG modes as well as FORCED APC, with optional ENDO CUT I and Q

- · Direct operation using the segment display
- Automatic power adjustment for all control technologies
- · Variable configuration of socket assignment



No. 1	0140-300
Upgrades	
ENDO CUT Upgrade - ENDO CUT Q - ENDO CUT I	29140-218
TWIN COAG Upgrade - TWIN COAG - Argon TWIN COAG	29140-216

#### VIO® 200 S

 $VIO^{\circ}$  electrosurgical unit for many electrosurgical procedures and for specialist medical practices with the most important CUT and COAG modes as well as FORCED APC, with optional ENDO CUT I and Q

- Direct operation using the segment display
- Automatic power adjustment for all control technologies
- Variable configuration of socket assignment



#### 

VIO® C

#### VIO® 100 C

 $VI0^{\circ}$  compact electrosurgical unit for use in surgical practice with the most important CUT and COAG modes (100 watt unit)

No. 10140-500

- · Direct operation using the segment display
- Monopolar cutting
- Monopolar and bipolar coagulation



#### VIO® 50 C

 $VI0^{\circ}$  compact electrosurgical unit for use in surgical practice with the most important CUT and COAG modes (50 watt unit)

No. 10140-550

07

- Direct operation using the segment display
- Monopolar cutting
- Monopolar and bipolar coagulation



### Socket modules for VIO® D, S and C

Bipolar sockets (BI)	No.
2Pin-22-28-8/4 mm	20140-613

Monopolar sockets (MO)	No.
3Pin-Bovie	20140-622
3Pin-9/5 mm	20140-623

Multifunctional socket (MF) for VIO® 300 D only	No.
multifunctional	20140-630

Neutral electrode sockets (NE)	No.
6 mm-2Pin	20140-642

Socket modularity						
	VIO® 300 D	VI0® 200 D	VI0® 300 S	VI0® 200 S	VIO® 100 C	VI0 <sup>®</sup> 50 C
Slot 1	ВІ	BI	BI	ВІ	ВІ	BI
Slot 2	MO, BI, MF	MO, BI	MO	MO	MO	M0
Slot 3	M0, MF	MO	M0	MO	-	-
Slot 4	NE	NE	NE	NE	NE	NE

#### Modes and Upgrades for VIO® D, S, C

CUT	VIO® 300 D	VI0® 200 D	VI0® 300 S	VI0® 200 S	VIO® 50/100 C
AUTO CUT					*
HIGH CUT		-	0	-	_
DRY CUT			0	-	*
DRY CUT°		-	0	-	-
BIPOLAR CUT			0	-	-
BIPOLAR CUT +		-	-	-	-
BIPOLAR CUT ++		-	-	-	-
PRECISE CUT			-	-	-
BIPOLAR PRECISE CUT			-	-	-
ENDO CUT Q					-
ENDO CUT I					-
ARGON AUTO CUT					-
ARGON HIGH CUT		-	0	_	_
ARGON DRY CUT			0	-	_
ARGON DRY CUT°		-	0	-	_

COAG	VIO® 300 D	VIO® 200 D	VIO® 300 S	VI0® 200 S	VIO® 50/100 C
SOFT COAG			0		<b>*</b>
SWIFT COAG			0	-	-
SWIFT COAG°		-	0	_	_
CLASSIC COAG		-			_
FORCED COAG			0		<b>*</b>
SPRAY COAG		-		-	_
BIPOLAR SOFT COAG					<b>*</b>
BIPOLAR SOFT COAG +		-	-	-	-
BIPOLAR SOFT COAG ++		-	-		_
BIPOLAR FORCED COAG			-	-	-
PRECISE COAG			-	-	-
BIPOLAR PRECISE COAG			-	-	-
TWIN COAG		-		-	_
BICLAMP		-	_	_	_
FORCED APC					-
PRECISE APC			-	-	-
PULSED APC			_	_	-
ARGON SOFT COAG			0		_
ARGON SWIFT COAG			0	-	-
ARGON SWIFT COAG°		-	0	-	-
ARGON FORCED COAG			0		_
ARGON TWIN COAG		-		-	-

#### Application areas

	VI0® 3	VIO® 300 D	VIO® 200 D	VIO® 300 S	VI0® 200 S	VIO® 50/100 C
Gynecology		-	-		-	
Urology		-	-		-	•
General surgery			-		-	•
Gastroenterology / Endoscopy						-
Pulmonology						-
ENT		-	-		-	•
Orthopedics		-	-		-	•
Dermatology			-	-		
OMS					-	
Ophthalmology	-	-	-	-		

For practices in hospitals and outpatient operations

Clinics/Practices

#### Legend:

- strongly recommended □ recommended

#### Modules

#### IES 3 Smoke evacuation unit, 100 – 240 V AC (± 10 %), without main filter cartridge

- Protection through ULPA-15 filter
- Good response, quiet operation
- Extended range of applications
- Flexible activation

The main filter cartridge is not included in the scope of delivery.

No. 10323-000



#### Main filter cartridge IES 3 with connection ø 22 mm



	No. 20323-000
= 1	
<b>i</b> 80114-801	

#### EIP 2, irrigation pump for endoscopic procedures

Endoscopic irrigation pump for irrigating the target tissue

- · Activation via footswitch or via the user interface on the unit
- 3 quick access options for irrigation level (30 %, 50 % and 80 % irrigation)
- Values can be changed individually and quickly
- Additional irrigation catheter often not required

No. 10325-000

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### Plasmasurgery

#### Modules

#### APC 3

The benefits of the logical and intuitive VIO® 3 interface are now also available with APC 3. As your stepGUIDE, the interface guides you through each menu, suggesting experienced starting settings for APC applications.

- All APC modes are integrated into the VIO® 3: pulsedAPC®, forcedAPC and preciseAPC®
- The APC socket your connection for APC filtered instruments
- Besides the APC socket, an additional multifunctional socket is provided for further instruments. For the first time, this allows you to connect and use up to 6 instruments as required for your procedure.

only for VIO® 3



#### APC 2

Effective coagulation of bleeding, as well as devitalization of changes in tissue

No. 10134-000

No. 10135-000

- 3 APC modes: FORCED APC, PRECISE APC, PULSED APC (see table on page 9)
- Non-contact procedure, instrument tips cannot become clogged
- Even effects with coagulation and devitalization
- Good dosage accuracy, resulting in greater safety during application
- Low risk of perforation
- · Argon-supported cutting
- Minimum carbonization, minimum development of smoke plume, good visibility of the target area

only for VIO® D/S



### Hydrosurgery

#### Units and modules

#### ERBEJET® 2

Selective dissection of tissue, layer-specific elevation of tissue layers

No. 10150-000

- Basic module for hybrid technology
- Applications include general or abdominal surgery, gastroenterology, urology
- Protects blood vessels, nerves and organs
- · High degree of tissue selectivity enables exposure and dissection of tissue layers
- Minimized bleeding, controlled management of bleeding



#### ESM 2, suction module

Suction module for the waterjet surgery unit (ERBEJET 2)

- Individual or automatic suction for waterjet application
- · Clear view of the target operating area

No. 10340-000



Units

#### ERBECRYO® 2

Cryosurgical unit for cryobiopsy, recanalization and cryo-devitalization

No. 10402-000

- Application with flexible cryoprobes
- Superior tissue samples in terms of quality and quantity No crush artifacts or hemorrhages

- High diagnostic weighting Supports endobronchial and transbronchial biopsy Coolant: carbon dioxide (CO<sub>2</sub>)



#### Important information

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