



## Legend

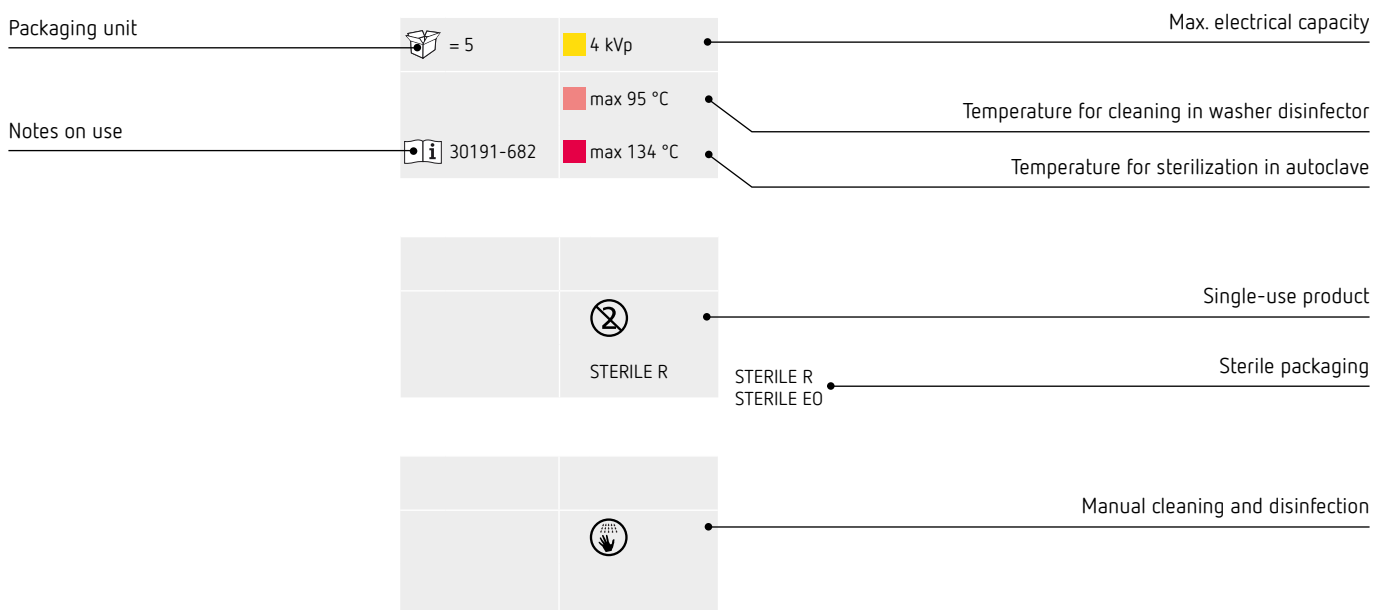
### Important notes

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.

## Electrosurgery

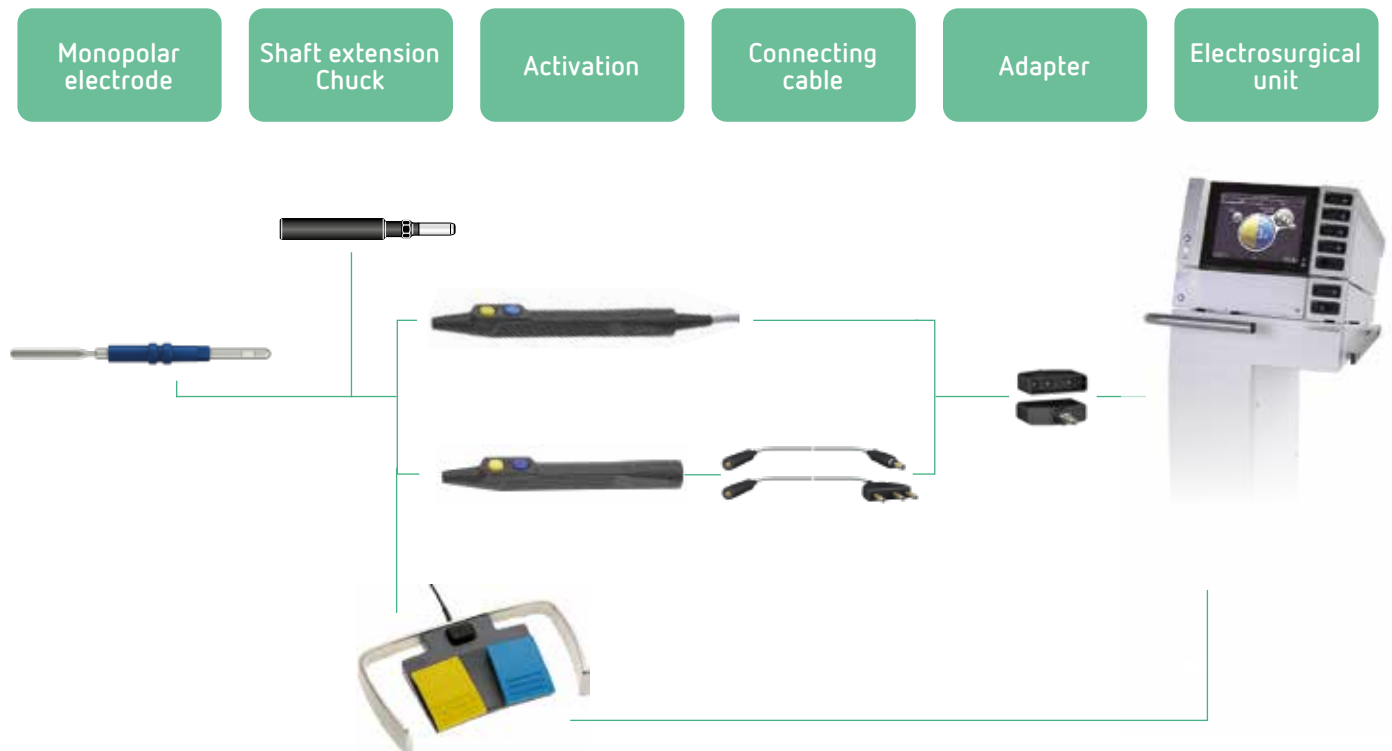
### Monopolar electrodes

- 05 Reusable, shaft  $\varnothing$  2.4 mm and shaft  $\varnothing$  4 mm
- 22 Single use, shaft  $\varnothing$  2.4 mm
- 28 Single use, shaft  $\varnothing$  2 mm for arthroscopy
- 29 Shaft extensions, chucks, cleaning pad

### Monopolar instruments

- 30 Instruments for MIS

## Overview



# Monopolar electrodes

## Dimensioning

Spatula electrode, straight, 2.3 x 19 mm, length 120 mm



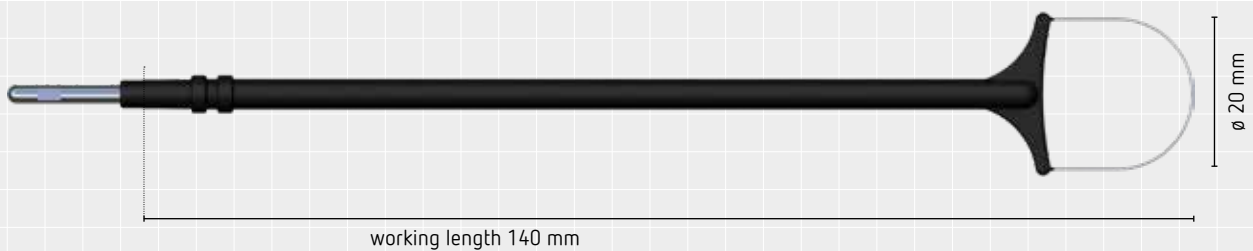
Ball electrode, straight,  $\varnothing$  4 mm, length 110 mm



Needle electrode, straight,  $\varnothing$  0.8 x 15 mm, length 120 mm



Tungsten snare electrode, straight,  $\varnothing$  20 mm, length 140 mm



100 %



# Monopolar electrodes

Reusable, shaft  $\varnothing$  2.4 mm and shaft  $\varnothing$  4 mm

Knife electrode, straight, 3.4 x 18 mm, length 40 mm



**No. 21191-172**

**No. 21191-072**



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Knife electrode, straight, 1.5 x 17 mm, length 40 mm



**No. 21191-101**

**No. 21191-001**



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Knife electrode, straight, 3.4 x 24 mm, length 45 mm



**No. 21191-100**

**No. 21191-000**



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Spatula electrode, straight, 3 x 24 mm, length 45 mm



**No. 21191-102**

**No. 21191-002**



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Spatula electrode, straight, 2.3 x 19 mm, length 45 mm



**No. 21191-159**

**No. 21191-059**



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Spatula electrode, straight, insulated, 2.3 x 19 mm, length 45 mm



**No. 21191-161**

**No. 21191-061**



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

**No.**  $\varnothing$  2.4 mm shaft

**No.**  $\varnothing$  4 mm shaft

# Monopolar electrodes

Reusable, shaft  $\varnothing$  2.4 mm and shaft  $\varnothing$  4 mm

Spatula electrode, straight, flexible, 2 x 6 mm, length 45 mm

e.g. for coronary bypass surgery



**No. 21191-107**

**No. 21191-007**



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Spatula electrode, straight, flexible, 2 x 18 mm, length 45 mm

e.g. for coronary bypass surgery



**No. 21191-106**

**No. 21191-006**



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Spatula electrode, straight, flexible, 1.7 x 6 mm, length 50 mm

e.g. for coronary bypass surgery



**No. 21191-105**

**No. 21191-005**



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Spatula electrode, straight, flexible, 3 x 24 mm, length 60 mm

e.g. for coronary bypass surgery



**No. 21191-103**

**No. 21191-003**



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Spatula electrode, straight, flexible, 2 x 18 mm, length 80 mm

e.g. for coronary bypass surgery



**No. 21191-104**

**No. 21191-004**



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Spatula electrode, straight, 2.3 x 19 mm, length 120 mm



**No. 21191-153**

**No. 21191-053**



= 1

4.3 kVp

max 95 °C



31191-211

max 138 °C

**No.**  $\varnothing$  2.4 mm shaft

**No.**  $\varnothing$  4 mm shaft

# Monopolar electrodes

Reusable, shaft  $\varnothing$  2.4 mm and shaft  $\varnothing$  4 mm

Spatula electrode, straight, insulated, 2.3 x 19 mm, length 120 mm



**No. 21191-155**

**No. 21191-055**



= 1

4.3 kVp

max 95 °C



31191-211

max 138 °C

Knife electrode, straight, 2.4 x 12 mm, length 120 mm



**No. 21191-110**

**No. 21191-010**



= 1

4.3 kVp

max 95 °C



31191-211

max 138 °C

Spatula electrode, straight, 2.4 x 12 mm, length 120 mm



**No. 21191-156**

**No. 21191-056**



= 1

4.3 kVp

max 95 °C



31191-211

max 138 °C

Spatula electrode, straight, 2.3 x 19 mm, length 180 mm



**No. 21191-157**

**No. 21191-057**



= 1

4.3 kVp

max 95 °C



31191-211

max 138 °C

Spatula electrode, straight, insulated, 2.3 x 19 mm, length 180 mm



**No. 21191-158**

**No. 21191-058**



= 1

4.3 kVp

max 95 °C



31191-211

max 138 °C

**No.**  $\varnothing$  2.4 mm shaft

**No.**  $\varnothing$  4 mm shaft

# Monopolar electrodes

Reusable, shaft  $\varnothing$  2.4 mm and shaft  $\varnothing$  4 mm

Knife electrode, bent, 1.5 x 17 mm, length 30 mm



**No. 21191-108**

**No. 21191-008**



4.3 kVp

max 95 °C



31191-211

max 138 °C

Spatula electrode, bent, 2.3 x 19 mm, length 40 mm



**No. 21191-160**

**No. 21191-060**



4.3 kVp

max 95 °C



31191-211

max 138 °C

Spatula electrode, bent, insulated, 2.3 x 19 mm, length 40 mm



**No. 21191-162**

**No. 21191-062**



4.3 kVp

max 95 °C



31191-211

max 138 °C

Spatula electrode, bent, 3 x 24 mm, length 40 mm



**No. 21191-109**

**No. 21191-009**



4.3 kVp

max 95 °C



31191-211

max 138 °C

Spatula electrode, bent, 2.3 x 19 mm, length 115 mm



**No. 21191-154**

**No. 21191-054**



4.3 kVp

max 95 °C



31191-211

max 138 °C

Knife electrode, bent, 2.4 x 12 mm, length 115 mm



**No. 21191-111**

**No. 21191-011**



4.3 kVp

max 95 °C



31191-211

max 138 °C

**No.**  $\varnothing$  2.4 mm shaft

**No.**  $\varnothing$  4 mm shaft

# Monopolar electrodes

Reusable, shaft  $\varnothing$  2.4 mm and shaft  $\varnothing$  4 mm

Needle electrode, straight,  $\varnothing$  0.8 x 17 mm, length 35 mm



**No. 21191-171**

**No. 21191-071**



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Needle electrode, straight,  $\varnothing$  0.8 x 22 mm, length 40 mm



**No. 21191-112**

**No. 21191-012**



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Needle electrode, straight, insulated,  $\varnothing$  0.8 x 22 mm, length 40 mm



**No. 21191-168**

**No. 21191-068**



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Needle electrode, straight,  $\varnothing$  0.8 x 29 mm, length 65 mm



**No. 21191-113**

**No. 21191-013**



= 1

4.3 kVp

max 95 °C



31191-211

max 138 °C

Needle electrode, straight, insulated,  $\varnothing$  0.8 x 15 mm, length 115 mm



**No. 21191-169**

**No. 21191-069**



= 1

4.3 kVp

max 95 °C



31191-211

max 138 °C

Needle electrode, straight,  $\varnothing$  0.8 x 15 mm, length 120 mm



**No. 21191-120**

**No. 21191-020**



= 1

4.3 kVp

max 95 °C



31191-211

max 138 °C

**No.**  $\varnothing$  2.4 mm shaft

**No.**  $\varnothing$  4 mm shaft

# Monopolar electrodes

Reusable, shaft  $\varnothing$  2.4 mm and shaft  $\varnothing$  4 mm

Needle electrode, straight,  $\varnothing$  0.8 x 15 mm, length 180 mm



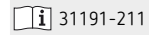
**No. 21191-170**

**No. 21191-070**



4.3 kVp

max 95 °C



max 138 °C

Needle electrode, bent,  $\varnothing$  0.8 x 20 mm, length 35 mm



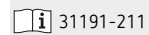
**No. 21191-115**

**No. 21191-015**



4.3 kVp

max 95 °C



max 138 °C

Needle electrode, bent,  $\varnothing$  0.8 x 12 mm, length 45 mm



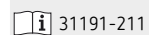
**No. 21191-151**

**No. 21191-051**



4.3 kVp

max 95 °C



max 138 °C

Needle electrode, bent,  $\varnothing$  0.8 x 10 mm, length 120 mm



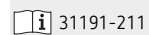
**No. 21191-121**

**No. 21191-021**



4.3 kVp

max 95 °C



max 138 °C

Tungsten needle electrode, straight, insulated,  $\varnothing$  0.5 x 3 mm, length 40 mm

e.g. for precise skin incisions



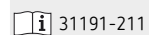
**No. 21191-116**

**No. 21191-016**



1 kVp

max 95 °C



max 138 °C

Tungsten needle electrode, straight, insulated,  $\varnothing$  0.5 x 3 mm, length 55 mm

e.g. for precise skin incisions



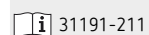
**No. 21191-118**

**No. 21191-018**



1 kVp

max 95 °C



max 138 °C

**No.**  $\varnothing$  2.4 mm shaft

**No.**  $\varnothing$  4 mm shaft

## Monopolar electrodes

Reusable, shaft  $\varnothing$  2.4 mm and shaft  $\varnothing$  4 mm

Tungsten needle electrode, bent, insulated,  $\varnothing$  0.5 x 3 mm, length 35 mm

e.g. for precise skin incisions



**No. 21191-117**

**No. 21191-017**



= 1

1 kVp

max 95 °C



31191-211

max 138 °C

Tungsten needle electrode, bent, insulated,  $\varnothing$  0.5 x 3 mm, length 55 mm

e.g. for precise skin incisions



**No. 21191-119**

**No. 21191-019**



= 1

1 kVp

max 95 °C



31191-211

max 138 °C

**No.**  $\varnothing$  2.4 mm shaft

**No.**  $\varnothing$  4 mm shaft

# Monopolar electrodes

Reusable, shaft  $\varnothing$  2.4 mm and shaft  $\varnothing$  4 mm

Ball electrode, straight,  $\varnothing$  2 mm, length 40 mm



**No. 21191-123**

**No. 21191-023**



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Ball electrode, straight,  $\varnothing$  3 mm, length 40 mm



**No. 21191-163**

**No. 21191-063**



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Ball electrode, straight,  $\varnothing$  4 mm, length 40 mm



**No. 21191-124**

**No. 21191-024**



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Ball electrode, straight,  $\varnothing$  5 mm, length 40 mm



**No. 21191-164**

**No. 21191-064**



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Ball electrode, straight,  $\varnothing$  6 mm, length 40 mm



**No. 21191-125**

**No. 21191-025**



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Ball electrode, straight,  $\varnothing$  3 mm, length 110 mm



**No. 21191-165**

**No. 21191-065**



= 1

4.3 kVp

max 95 °C



31191-211

max 138 °C

**No.**  $\varnothing$  2.4 mm shaft

**No.**  $\varnothing$  4 mm shaft



# Monopolar electrodes

Reusable, shaft  $\varnothing$  2.4 mm and shaft  $\varnothing$  4 mm

Ball electrode, straight,  $\varnothing$  4 mm, length 110 mm



No. 21191-128

No. 21191-028



= 1

4.3 kVp

max 95 °C



31191-211

max 138 °C

Ball electrode, straight,  $\varnothing$  5 mm, length 110 mm



No. 21191-166

No. 21191-066



= 1

4.3 kVp

max 95 °C



31191-211

max 138 °C

Ball electrode, straight,  $\varnothing$  6 mm, length 115 mm



No. 21191-129

No. 21191-029



= 1

4.3 kVp

max 95 °C



31191-211

max 138 °C

Ball electrode, bent,  $\varnothing$  2 mm, length 35 mm



No. 21191-126

No. 21191-026



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Ball electrode, bent,  $\varnothing$  4 mm, length 35 mm



No. 21191-127

No. 21191-027



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

No.  $\varnothing$  2.4 mm shaft

No.  $\varnothing$  4 mm shaft

# Monopolar electrodes

Reusable, shaft  $\varnothing$  2.4 mm and shaft  $\varnothing$  4 mm

Ball electrode, bent,  $\varnothing$  2 mm, length 115 mm



No. 21191-130

No. 21191-030



= 1

1 kVp

max 95 °C



31191-211

max 138 °C

Ball electrode, bent,  $\varnothing$  4 mm, length 115 mm



No. 21191-131

No. 21191-031



= 1

1 kVp

max 95 °C



31191-211

max 138 °C

Ball electrode, bent,  $\varnothing$  8 mm, length 190 mm



No. 21191-132

No. 21191-032



= 1

4.3 kVp

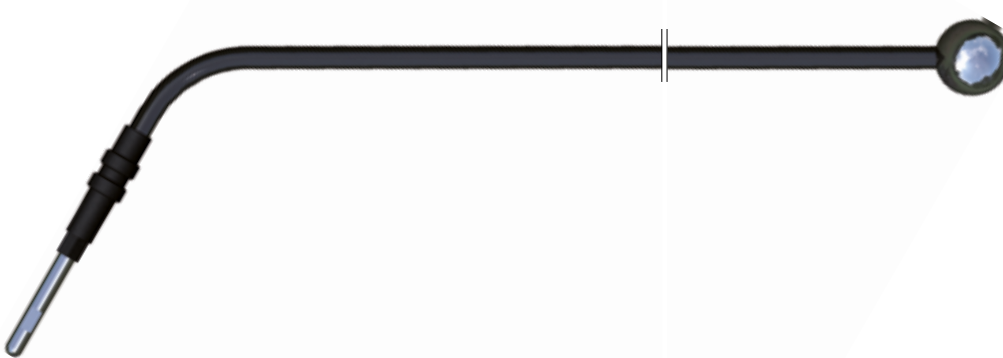
max 95 °C



31191-211

max 138 °C

Ball electrode, bent,  $\varnothing$  10 mm, length 190 mm



No. 21191-133

No. 21191-033



= 1

4.3 kVp

max 95 °C



31191-211

max 138 °C

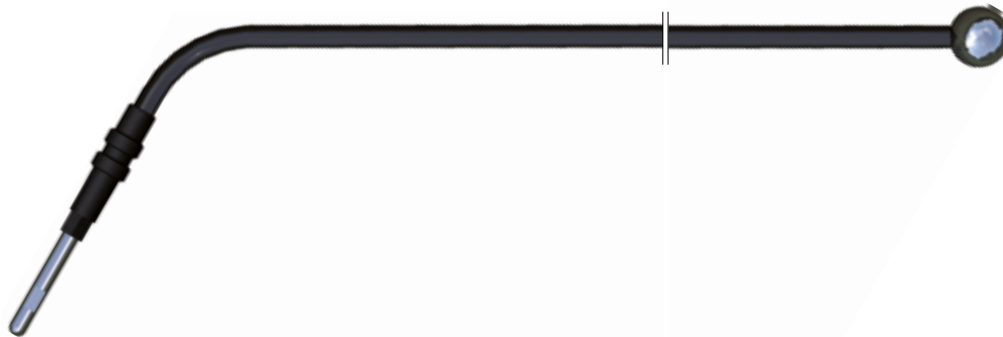
No.  $\varnothing$  2.4 mm shaft

No.  $\varnothing$  4 mm shaft

# Monopolar electrodes

Reusable, shaft  $\varnothing$  2.4 mm and shaft  $\varnothing$  4 mm

Ball electrode, bent,  $\varnothing$  8 mm, length 240 mm



No. 21191-134

No. 21191-034



= 1

4.3 kVp

max 95 °C



31191-211

max 138 °C

Wire snare electrode, straight,  $\varnothing$  6 mm, length 40 mm



No. 21191-135

No. 21191-035



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Wire snare electrode, straight,  $\varnothing$  12 mm, length 40 mm



No. 21191-136

No. 21191-036



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Wire snare electrode, straight,  $\varnothing$  16 mm, length 40 mm



No. 21191-137

No. 21191-037



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Ribbon snare electrode, straight,  $\varnothing$  12 mm, length 40 mm



No. 21191-138

No. 21191-038



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

Ribbon snare electrode, straight,  $\varnothing$  16 mm, length 40 mm



No. 21191-139

No. 21191-039



= 5

4.3 kVp

max 95 °C



31191-211

max 138 °C

No.  $\varnothing$  2.4 mm shaft

No.  $\varnothing$  4 mm shaft

# Monopolar electrodes

Reusable, shaft  $\varnothing$  2.4 mm and shaft  $\varnothing$  4 mm

Tungsten snare electrode, straight,  $\varnothing$  5 mm, length 105 mm

e.g. for the conization of the cervical portio



**No. 21191-140**

**No. 21191-040**



= 1

4.3 kVp

max 95 °C



31191-211

max 138 °C

Tungsten snare electrode, straight,  $\varnothing$  10 mm, length 105 mm

e.g. for the conization of the cervical portio



**No. 21191-041**



= 1

4.3 kVp

max 95 °C



31191-211

max 138 °C

Tungsten snare electrode, straight, 5 x 5 mm, length 125 mm

e.g. for the conization of the cervical portio



**No. 21191-167**

**No. 21191-067**



= 1

1.5 kVp

max 95 °C



31191-211

max 138 °C

Tungsten snare electrode, straight, 6 x 15 mm, length 125 mm

e.g. for the conization of the cervical portio



**No. 21191-149**

**No. 21191-049**



= 1

1.5 kVp

max 95 °C



31191-211

max 138 °C

Tungsten snare electrode, straight, 10 x 12 mm, length 135 mm

e.g. for the conization of the cervical portio



**No. 21191-147**

**No. 21191-047**



= 1

1.5 kVp

max 95 °C



31191-211

max 138 °C

Tungsten snare electrode, straight, 10 x 15 mm, length 135 mm

e.g. for the conization of the cervical portio



**No. 21191-146**

**No. 21191-046**



= 1

1.5 kVp

max 95 °C



31191-211

max 138 °C

**No.**  $\varnothing$  2.4 mm shaft

**No.**  $\varnothing$  4 mm shaft

# Monopolar electrodes

Reusable, shaft  $\varnothing$  2.4 mm and shaft  $\varnothing$  4 mm

Tungsten snare electrode, straight, 15 x 20 mm, length 140 mm

e.g. for the conization of the cervical portio



**No. 21191-148**

**No. 21191-048**



1.5 kVp

max 95 °C



31191-211

max 138 °C

Tungsten snare electrode, straight,  $\varnothing$  10 mm, length 130 mm

e.g. for the conization of the cervical portio



**No. 21191-142**

**No. 21191-042**



1.5 kVp

max 95 °C



31191-211

max 138 °C

Tungsten snare electrode, straight,  $\varnothing$  15 mm, length 135 mm

e.g. for the conization of the cervical portio



**No. 21191-143**

**No. 21191-043**



1.5 kVp

max 95 °C



31191-211

max 138 °C

Tungsten snare electrode, straight,  $\varnothing$  20 mm, length 140 mm

e.g. for the conization of the cervical portio



**No. 21191-144**

**No. 21191-044**



1.5 kVp

max 95 °C



31191-211

max 138 °C

Tungsten snare electrode, straight,  $\varnothing$  25 mm, length 145 mm

e.g. for the conization of the cervical portio



**No. 21191-145**

**No. 21191-045**



1.5 kVp

max 95 °C



31191-211

max 138 °C

Tungsten snare electrode, straight,  $\varnothing$  30 mm, length 150 mm

e.g. for the conization of the cervical portio



**No. 21191-150**

**No. 21191-050**



1.5 kVp

max 95 °C



31191-211

max 138 °C

**No.**  $\varnothing$  2.4 mm shaft

**No.**  $\varnothing$  4 mm shaft

# Monopolar electrodes

Reusable, shaft  $\varnothing$  2.4 mm

## Small surgical set, $\varnothing$ 2.4 mm

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



**No. 21191-180**



= 1

4.3 kVp

max 95 °C



31191-213

max 138 °C

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, $\varnothing$ 2.4 mm

consisting of 15 monopolar electrodes



**No. 21191-181**



= 1

4.3 kVp

max 95 °C



31191-213

max 138 °C

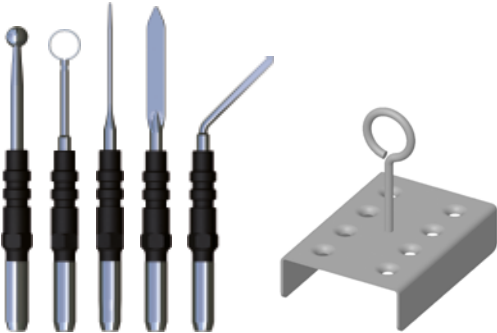
Consisting of	Diameter	Width	Length	No.
Ball electrode, straight	2 mm			21191-123
Ball electrode, straight	4 mm			21191-124
Ball electrode, straight	6 mm			21191-125
Ball electrode, bent	4 mm			21191-127
Ribbon snare electrode, straight	12 mm			21191-138
Ribbon snare electrode, straight	16 mm			21191-139
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

# Monopolar electrodes

Reusable, shaft  $\varnothing$  4 mm

Small surgical set,  $\varnothing$  4 mm

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



**No. 21191-080**



4.3 kVp

max 95 °C

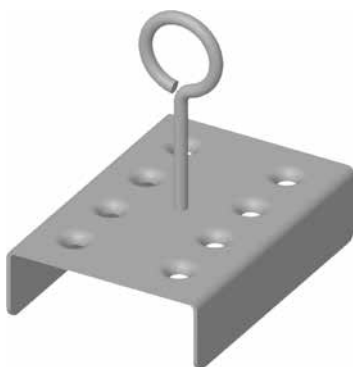


31191-213

max 138 °C

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  $\varnothing$  4 mm

**No. 20191-004**



max 95 °C

max 134 °C

# Monopolar electrodes

Reusable, shaft  $\varnothing$  4 mm

Large surgical set,  $\varnothing$  4 mm

consisting of sterilization insert 20191-002 and 15 monopolar electrodes



**No. 21191-081**



= 1

4.3 kVp

max 95 °C



31191-213

max 138 °C

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

Sterilizing insert for 16 electrodes, 100 x 17 x 67 mm (W x H x D)



for shaft  $\varnothing$  4 mm

**No. 20191-002**



= 1

max 95 °C

max 134 °C



## Monopolar electrodes

Old/new table: reusable, shaft ø 4 mm

ø 4 mm shaft	Old	New	ø 4 mm shaft	Old	New
Tungsten snare electrode	20191-200	21191-041	Ball electrode	20191-225	21191-026
Tungsten snare electrode	20191-201	21191-040	Ball electrode	20191-226	21191-027
Ball electrode	20191-202	21191-029	Needle electrode	20191-240	21191-013
Ball electrode	20191-203	21191-028	Needle electrode	20191-251	-
Knife electrode	20191-204	21191-010	Tungsten snare electrode	20191-252	21191-042
Knife electrode	20191-205	21191-011	Tungsten snare electrode	20191-253	21191-043
Needle electrode	20191-206	21191-020	Tungsten snare electrode	20191-254	21191-044
Needle electrode	20191-207	21191-021	Tungsten snare electrode	20191-255	21191-045
Knife electrode	20191-208	21191-000	Spatula electrode	20191-274	21191-003
Knife electrode	20191-209	21191-001	Tungsten snare electrode	20191-291	21191-047
Spatula electrode	20191-210	21191-002	Tungsten snare electrode	20191-292	21191-048
Needle electrode	20191-211	21191-012	Tungsten snare electrode	20191-293	21191-049
Knife electrode	20191-212	21191-008	Spatula electrode	20191-337	21191-004
Spatula electrode	20191-213	21191-009	Spatula electrode	20191-338	21191-005
Needle electrode	20191-214	21191-015	Spatula electrode	20191-339	21191-006
Wire snare electrode	20191-215	21191-035	Spatula electrode	20191-340	21191-007
Wire snare electrode	20191-216	21191-036	Tungsten needle electrode	20191-362	21191-016
Wire snare electrode	20191-217	21191-037	Tungsten needle electrode	20191-363	21191-017
Ribbon snare electrode	20191-218	21191-038	Tungsten needle electrode	20191-364	21191-018
Ribbon snare electrode	20191-219	21191-039	Tungsten needle electrode	20191-365	21191-019
Ball electrode	20191-221	21191-023	Spatula electrode	20191-373	21191-056
Ball electrode	20191-222	21191-024	Tungsten snare electrode	20191-412	21191-050
Ball electrode	20191-223	21191-025	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 mm and 4 mm electrodes has been optimized. New order numbers apply. The old/new tables are effective immediately.

# Monopolar electrodes

Single-use, shaft  $\varnothing$  2.4 mm

Spatula electrode, straight, 2.3 x 19 mm, length 45 mm



**No. 21191-359**

= 50

4.3 kVp

31191-354



STERILE EO

Spatula electrode, straight, insulated, 2.3 x 19 mm, length 45 mm



**No. 21191-361**

= 20

4.3 kVp

31191-354



STERILE EO

Spatula electrode, straight, 2.3 x 19 mm, length 120 mm



**No. 21191-353**

= 10

4.3 kVp

31191-354



STERILE EO

Needle electrode, straight,  $\varnothing$  0.8 x 22 mm, length 40 mm



**No. 21191-312**

= 50

4.3 kVp

31191-354



STERILE EO

Needle electrode, straight, insulated,  $\varnothing$  0.8 x 22 mm, length 40 mm



**No. 21191-368**

= 20

4.3 kVp

31191-354



STERILE EO

Tungsten needle electrode, straight, insulated,  $\varnothing$  0.5 x 3 mm, length 40 mm

e.g. for precise skin incisions



**No. 21191-316**

= 20

4.3 kVp



STERILE EO

Needle electrode, straight,  $\varnothing$  0.8 x 15 mm, length 120 mm



**No. 21191-320**

= 10

4.3 kVp

31191-354



STERILE EO

# Monopolar electrodes

Single-use, shaft  $\varnothing$  2.4 mm

Ball electrode, straight,  $\varnothing$  3 mm, length 40 mm



**No. 21191-363**

= 50

4.3 kVp

31191-354



STERILE EO

Ball electrode, straight,  $\varnothing$  4 mm, length 40 mm



**No. 21191-324**

= 50

4.3 kVp

31191-354



STERILE EO

Ball electrode, straight,  $\varnothing$  5 mm, length 40 mm



**No. 21191-364**

= 50

4.3 kVp

31191-354



STERILE EO

Ball electrode, straight,  $\varnothing$  3 mm, length 110 mm



**No. 21191-365**

= 10

4.3 kVp

31191-354



STERILE EO

Ball electrode, straight,  $\varnothing$  4 mm, length 110 mm



**No. 21191-328**

= 10

4.3 kVp

31191-354



STERILE EO

Ball electrode, straight,  $\varnothing$  5 mm, length 110 mm



**No. 21191-366**

= 10

4.3 kVp

31191-354



STERILE EO

# Monopolar electrodes

Single-use, shaft  $\varnothing$  2.4 mm

Wire snare electrode, straight,  $\varnothing$  6 mm



**No. 21191-335**

= 20

4.3 kVp

31191-354



STERILE EO

Wire snare electrode, straight,  $\varnothing$  12 mm



**No. 21191-336**

= 20

4.3 kVp

31191-354



STERILE EO

Tungsten snare electrode, straight,  $\varnothing$  10 mm, length 130 mm

e.g. for the conization of the cervical portio



**No. 21191-342**

= 10

1.5 kVp

31191-354



STERILE EO

Tungsten snare electrode, straight,  $\varnothing$  15 mm, length 135 mm

e.g. for the conization of the cervical portio



**No. 21191-343**

= 10

1.5 kVp

31191-354



STERILE EO

Tungsten snare electrode, straight,  $\varnothing$  20 mm, length 140 mm

e.g. for the conization of the cervical portio



**No. 21191-344**

= 10

1.5 kVp

31191-354



STERILE EO

## Monopolar electrodes

Single-use, shaft  $\varnothing$  2.4 mm

Tungsten snare electrode, straight, 6 x 15 mm, length 125 mm

e.g. for the conization of the cervical portio



**No. 21191-349**

= 10

1.5 kVp

31191-354

STERILE EO

Tungsten snare electrode, straight, 10 x 12 mm, length 135 mm

e.g. for the conization of the cervical portio



**No. 21191-347**

= 10

1.5 kVp

31191-354

STERILE EO

Old/new table: single-use, shaft  $\varnothing$  2.4 mm

$\varnothing$ 2.4 mm shaft	Old	New	$\varnothing$ 2.4 mm shaft	Old	New
Needle electrode	20191-377	21191-312	Spatula electrode	20191-376	21191-359
Tungsten snare electrode	20191-385	21191-342	Ball electrode	20191-378	21191-363
Tungsten snare electrode	20191-386	21191-343	Ball electrode	20191-382	21191-365
Tungsten snare electrode	20191-387	21191-344	Ball electrode	20191-383	21191-366
Tungsten snare electrode	20191-384	21191-347	Spatula electrode	20191-379	21191-353

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.

# Monopolar electrodes

Single-use, shaft  $\varnothing$  2.4 mm

Coated spatula electrode, straight, 2.3 x 19 mm, length 50 mm



**No. 21191-459**

= 10

4 kVp

D132530



STERILE EO

Coated spatula electrode, straight, isolated, 2.3 x 19 mm, length 50 mm



**No. 21191-461**

= 10

4 kVp

D132530



STERILE EO

Coated spatula electrode, straight, 2.3 x 19 mm, length 83 mm



**No. 21191-453**

= 10

4 kVp

D132530



STERILE EO

Coated spatula electrode, straight, isolated, 2.3 x 19 mm, length 83 mm



**No. 21191-455**

= 10

4 kVp

D132530



STERILE EO

Coated spatula electrode, straight, 2.3 x 19 mm, length 134 mm



**No. 21191-457**

= 10

4 kVp

D132530



STERILE EO

Coated spatula electrode, straight, isolated, 2.3 x 19 mm, length 134 mm



**No. 21191-458**

= 10

4 kVp

D132530



STERILE EO

# Monopolar electrodes

Single-use, shaft  $\varnothing$  2.4 mm

Coated needle electrode, straight,  $\varnothing$  0.9 x 16 mm, length 50 mm



**No. 21191-412**

= 10

4 kVp

D132530



STERILE EO

Coated needle electrode, straight, isolated,  $\varnothing$  0.9 x 16 mm, length 50 mm



**No. 21191-468**

= 10

4 kVp

D132530



STERILE EO

Coated needle electrode, straight,  $\varnothing$  0.9 x 16 mm, length 83 mm



**No. 21191-420**

= 10

4 kVp

D132530



STERILE EO

Coated needle electrode, straight, isolated,  $\varnothing$  0.9 x 16 mm, length 83 mm



**No. 21191-469**

= 10

4 kVp

D132530



STERILE EO

Coated needle electrode, straight,  $\varnothing$  0.9 x 16 mm, length 134 mm



**No. 21191-470**

= 10

4 kVp

D132530



STERILE EO

Coated needle electrode, straight, isolated,  $\varnothing$  0.9 x 16 mm, length 134 mm



**No. 21191-473**

= 10

4 kVp

D132530



STERILE EO

# Monopolar electrodes

Single-use, shaft  $\varnothing$  2 mm, for arthroscopy

Needle electrode, needle angled 90°, needle length 2.5 mm, length 110 mm



**No. 20191-331**

= 5	4 kVp
	max 95 °C
30191-838	max 134 °C

Needle electrode, needle angled 90°, needle length 2.5 mm, length 170 mm



**No. 20191-332**

= 5	4 kVp
	max 95 °C
30191-838	max 134 °C

Knife electrode, knife cranked 45°, length 110 mm



**No. 20191-333**

= 5	4 kVp
	max 95 °C
30191-838	max 134 °C

Knife electrode, knife cranked 45°, length 170 mm



**No. 20191-334**

= 5	4 kVp
	max 95 °C
30191-838	max 134 °C

Coagulation electrode, tip angled 90°, length 110 mm



**No. 20191-335**

= 5	4 kVp
	max 95 °C
30191-838	max 134 °C

Coagulation electrode, tip angled 90°, length 170 mm



**No. 20191-336**

= 5	4 kVp
	max 95 °C
30191-838	max 134 °C



# Monopolar electrodes

## Extensions, chucks, cleaning pad

Shaft extension,  $\varnothing$  4 mm, shaft insulated, length 40 mm



**No. 20191-358**



4 kVp

max 95 °C



30191-682

max 134 °C

Shaft extension,  $\varnothing$  4 mm, shaft insulated, length 100 mm



**No. 20191-237**



4 kVp

max 95 °C



30191-682

max 134 °C

Shaft extension,  $\varnothing$  4 mm, shaft insulated, length 150 mm



**No. 20191-238**



4 kVp

max 95 °C



30191-682

max 134 °C

Shaft extension,  $\varnothing$  4 mm, shaft insulated, length 180 mm



**No. 20191-239**



4 kVp

max 95 °C



30191-682

max 134 °C

Shaft extension,  $\varnothing$  2.4 mm, shaft insulated, length 40 mm



**No. 20191-359**



4 kVp

max 95 °C



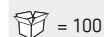
30191-682

max 134 °C

Cleaning pad for electrodes, with adhesive film, 50 x 50 mm



**No. 20191-415**



30191-646

STERILE EO

## Monopolar instruments

### Instruments for MIS

Hook electrode, flat, ø 5 mm, shaft insulated, length 350 mm

incl. electro-surgical pencil with 2 buttons



**No. 20191-179**



= 1

3.6 kVp

max 95 °C

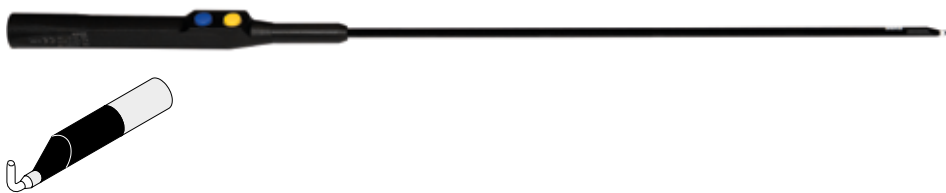


30191-741

max 138 °C

Hook electrode, round, ø 5 mm, shaft insulated, length 320 mm

incl. electro-surgical pencil with 2 buttons



**No. 20191-184**



= 1

4.3 kVp

max 95 °C



30191-314

max 138 °C

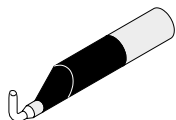
Monopolar connecting cables	Connection	Length	Piece	No.
Monopolar connecting cable, VIO, ICC, ACC, Standard, for electro-surgical pencils 20190-045, 20190-082	Standard (MO 9/5 mm)	4 m	1	<b>20192-127</b> <b>20192-094</b>
	Standard (MO 9/5 mm)	5 m	1	
Monopolar connecting cable, Martin Standard, 4 m, for electro-surgical pencils 20190-045, 20190-082	Martin Standard	4 m	1	<b>20192-099</b>
Monopolar connecting cable, VIO, ICC, ACC, International, 4 m, for electro-surgical pencils 20190-045, 20190-082	International	4 m	1	<b>20192-110</b>

# Monopolar instruments

## Instruments for MIS

Hook electrode, round,  $\varnothing$  5 mm, shaft insulated, length 320 mm

with non-adhesive coating



**No. 20191-157**



= 1

4,3 kVp

max 95 °C

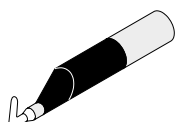


30191-314

max 134 °C

Hook electrode, flat, J-shaped,  $\varnothing$  5 mm, shaft insulated, length 320 mm

with non-adhesive coating



**No. 20191-174**



= 1

4,3 kVp

max 95 °C

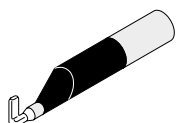


30191-314

max 134 °C

Hook electrode, flat, L-shaped,  $\varnothing$  5 mm, shaft insulated, length 320 mm

with non-adhesive coating



**No. 20191-161**



= 1

4,3 kVp

max 95 °C



30191-314

max 134 °C

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

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Erbe Elektromedizin GmbH  
Waldhoernlestrasse 17  
72072 Tuebingen  
Germany

Phone +49 7071 755-0  
info@erbe-med.com  
erbe-med.com  
medical-videos.com