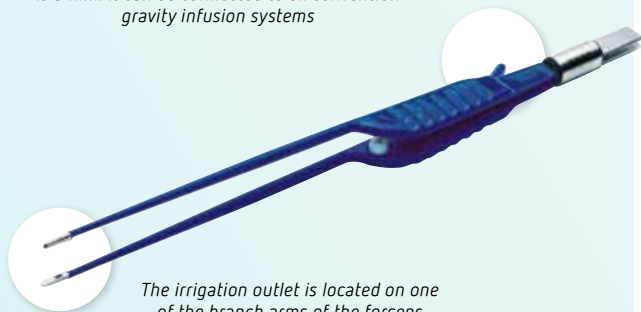
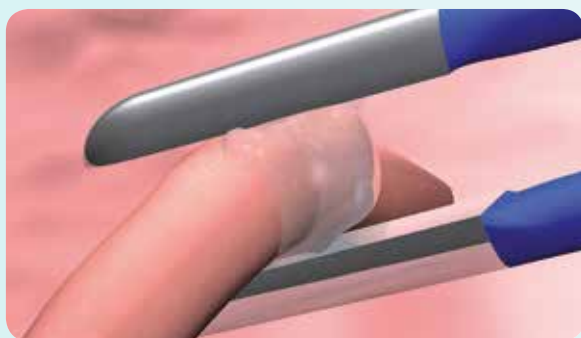


The function of the bipolar irrigation forceps

The external diameter of the irrigation connection is 3 mm. It can be connected to all convention gravity infusion systems



The irrigation outlet is located on one of the branch arms of the forceps



Irrigation during coagulation

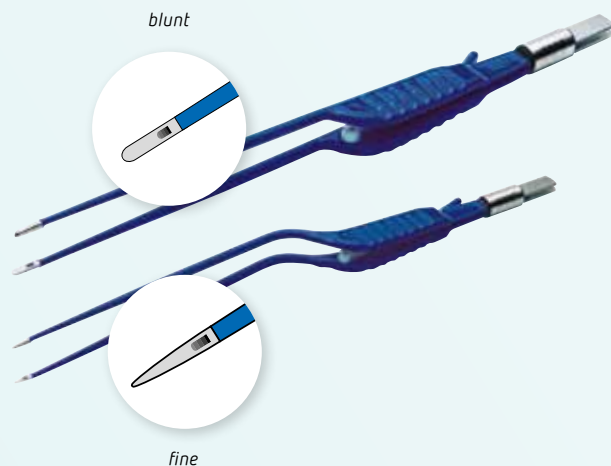
The irrigation channel passes through the lower part of the forceps ending in an outlet in one of the branch arms. Irrigation with an NaCl solution has several positive effects:

- ☑ Effective coagulation
- ☑ No damage or tearing of the coagulated vessels after coagulation
- ☑ Even coagulation with constant power output
- ☑ NaCl solution optimizes the electrical contact

Due to these advantages the surgical procedure can be carried out in a shorter period of time as the instrument rarely requires cleaning intraoperatively. The irrigation solution is connected to a standard infusion apparatus with an adjustable drip rate via the cylindrical clip.

The forceps can be disinfected in the thermodisinfector at a temperature of 95°C or in the autoclave at a temperature of 138°C.

Overview of irrigation forceps and connecting cables



Bipolar irrigation forceps – straight

20195-150	20 cm	blunt 1.5 mm
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Bipolar irrigation forceps – bayonet

20195-151	20 cm	fine 0.5 mm
20195-152	20 cm	blunt 1.0 mm
20195-153	23 cm	fine 0.5 mm
20195-154	23 cm	blunt 1.0 mm

Connecting cable for bipolar forceps

for VIO®, ICC, ACC

Length 4 m	No. 20196-045
Length 5 m	No. 20196-057

for VIO®, ICC, ACC, international

Length 4 m	No. 20196-053
Length 5 m	No. 20196-061

for Valleylab

Length 4 m	No. 20196-055
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We have prepared this document with care. Nonetheless, we cannot completely rule out errors in this document.

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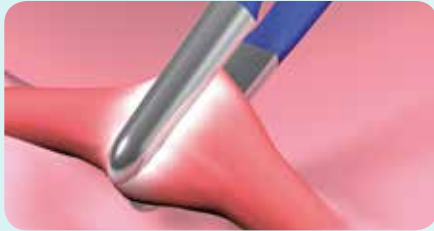
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**Bipolar PREMIUM forceps
Bipolar irrigation forceps**

The Erbe forceps range with its
non-stick effect

Advantages of the non-stick effect



Coagulation of blood vessels



Superficial coagulation

During bipolar electro-surgical coagulation an unwanted sticking effect can occur when the forceps' tips adhere to the tissue. This carries a risk of inadvertent tearing open of coagulated vessels. In addition, tissue sticking to the forceps adversely affects the continued coagulation. Sticking is markedly reduced with the automatic power regulation provided by the Erbe VIO® unit technology and the use of Soft Coagulation with AUTO STOP. The new PREMIUM forceps and irrigation forceps additionally reduce sticking.

The forceps are available in addition to the standard models (see product catalogue).

The Erbe bipolar forceps are available in various lengths and shapes for different surgical and anatomical requirements.



ADVANTAGES

- ✔ Minimal adhesion of tissue
- ✔ Minimal tearing of coagulated tissue
- ✔ Precise and safe operative procedure
- ✔ Maximum saving of time due to minimal time required for cleaning
- ✔ Safe coagulation due to consistent energy output

AREAS OF APPLICATION

- ✔ All surgical disciplines

SPECIAL BENEFITS IN

- ✔ Microsurgery
- ✔ ENT
- ✔ Oral and maxillofacial surgery
- ✔ Plastic surgery

The forceps with the cool-down effect. Minimizes tissue adhesion to the branches.

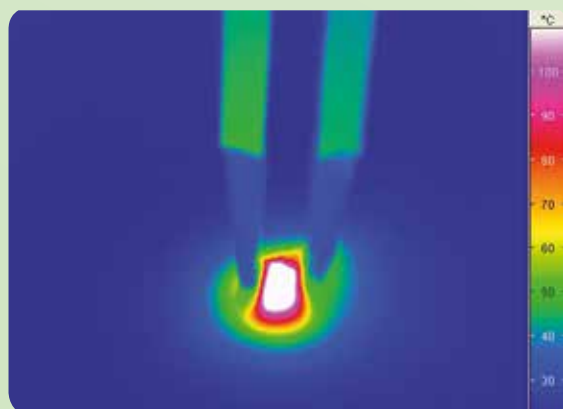
The reusable PREMIUM forceps make it easy to coagulate tissue. Sticking effects on the tips of the forceps are reduced to a minimum.

Pinpoint grasping with innovative tip geometry



The trick lies in a special alloy with high temperature conductivity to draw the heat away from the forcep tip and to prevent overheating. Heat accumulation and the resulting adhesion of coagulate is significantly reduced. The abraded and matt-finished surface of the forceps' tips allows tissue and vessels to be grasped safely. At the same time potential light reflections are reduced, improving the visibility at the operating site when working under a microscope.

The new forceps are available in all popular shapes and sizes and can be used in any surgical discipline.



Thermography illustrates the low temperature level of the forceps' tips during coagulation

THE BENEFITS AT A GLANCE

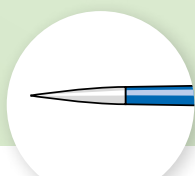
- ✔ Limited tissue adhesion due to high temperature conductivity
- ✔ Long instrument life due to high-quality alloy
- ✔ Targeted precise coagulation due to precise design of the tips
- ✔ Firm grasping of tissue due to abraded gripping surface
- ✔ Less time required intraoperatively for cleaning
- ✔ Good visibility at the operating site due to reduced light reflections (e.g. during preparation under a microscope)

Overview of the PREMIUM forceps

Bipolar forceps PREMIUM – straight		
20195-501	12 cm	pointed 0.2 mm
20195-502	12 cm	very fine 0.4 mm
20195-503	12 cm	fine 0.7 mm
20195-504	12 cm	fine 0.7 mm; angled
20195-505	18.5 cm	pointed 0.2 mm
20195-506	18.5 cm	very fine 0.4 mm
20195-507	18.5 cm	fine 0.7 mm
20195-508	18.5 cm	blunt 1.0 mm
20195-509	18.5 cm	blunt 1.0 mm; angled
20195-510	20 cm	pointed 0.2 mm
20195-511	20 cm	very fine 0.4 mm
20195-512	20 cm	blunt 1.0 mm
20195-513	20 cm	blunt 1.0 mm; angled
20195-514	20 cm	blunt 2.0 mm; angled
20195-515	23 cm	blunt 2.0 mm
20195-516	26 cm	blunt 1.0 mm; angled

Bipolar forceps PREMIUM – bayonet		
20195-531	15.5 cm	pointed 0.2 mm
20195-532	15.5 cm	very fine 0.4 mm
20195-533	15.5 cm	fine 0.7 mm
20195-534	17 cm	pointed 0.2 mm
20195-535	17 cm	blunt 1.0 mm
20195-536	20 cm	very fine 0.4 mm
20195-537	20 cm	fine 0.7 mm
20195-538	20 cm	blunt 1.0 mm
20195-539	20 cm	blunt 1.2 mm
20195-540	20 cm	blunt 2.0 mm
20195-541	20 cm	blunt 1.2 mm; angled downwards
20195-542	20 cm	blunt 1.2 mm; angled upwards
20195-543	23 cm	pointed 0.2 mm
20195-544	23 cm	very fine 0.4 mm
20195-545	23 cm	fine 0.7 mm
20195-546	23 cm	blunt 1.0 mm
20195-547	23 cm	blunt 1.2 mm
20195-548	23 cm	fine 0.7 mm; angled upwards
20195-549	23 cm	fine 1.2 mm; angled upwards
20195-550	23 cm	fine 0.7 mm; angled downwards
20195-551	25 cm	pointed 0.2 mm
20195-552	25 cm	very fine 0.4 mm
20195-553	25 cm	fine 0.7 mm
20195-554	25 cm	blunt 1.0 mm
20195-555	25 cm	blunt 1.2 mm
20195-556	25 cm	fine 0.7 mm; angled upwards

pointed



very fine



fine



blunt

