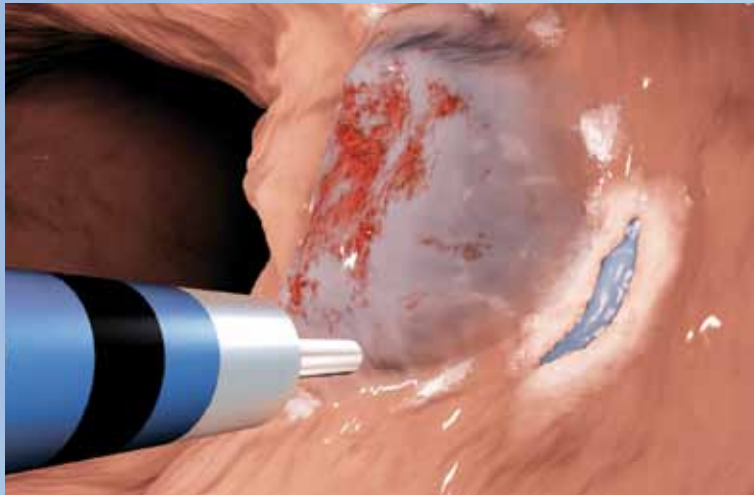


**HYBRIDKNIFE**  
**4 WORKING STEPS – 1 INSTRUMENT.**



**ERBE**

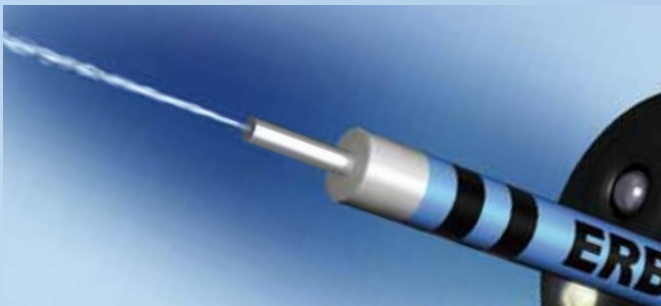
*Perfection for Life*

# ELEVATION AND DISSECTION WITH JUST ONE INSTRUMENT.



## The HybridKnife: 4 in 1

The multi-function probe combines electrosurgical and waterjet surgery technologies in one instrument. To perform the 4 working steps – marking, elevation, incision/dissection and coagulation – no change of instruments is necessary. Switching over can be done at any time between steps. The HybridKnife can be used in any standard endoscopy.



Elevation with the waterjet function.



Marking, incision/dissection and coagulation with the electrosurgical tip, which varies in length and is suitable for use in the esophagus, stomach and colon.

## The advantages at a glance



- ✦ No change of instrument necessary, thus shorter operating times
- ✦ Separation medium can be replenished quickly at any time
- ✦ Mechanical and thermal protective function of water cushion is preserved throughout the entire process of resection
- ✦ Good view of the operating site: risk of bleeding is minimized (blood vessels are compressed by the water cushion)
- ✦ Waterjet pressure can be adjusted depending on lesion, tissue layer and area of application.



# THE BASIC GI WORKSTATION FOR ESD.



The basic equipment for ESD using the HybridKnife consists of a VIO 200 S with ERBEJET 2. The workstation can be upgraded to include APC 2 (Argon-Plasma Coagulation) and/or the EIP irrigation pump.

## The advantages of VIO 200 S



- ✦ Connections for monopolar and bipolar instrument
- ✦ Upgrade with ENDO CUT I / Q possible
- ✦ VIO 200 S supports the ERBEJET 2, APC 2 and EIP 2 modules

## The advantages of ERBEJET 2



- ✦ High-pressure waterjet for mucosal elevation
- ✦ Layer-specific procedure; separation medium automatically accumulates in the submucosa.
- ✦ Elevation and irrigation
- ✦ Elevation requires no injection needle; no danger of injury by vessel perforation

## Optimal hemostasis effects for ESD with these modes:



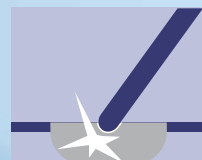
### ENDO CUT I/Q

Fractionated cut in cutting and coagulation intervals; for snare and needle/wire applications.



### DRY CUT (only with VIO 200 D)

Electrosurgical cut with outstanding hemostasis features; minimum smoke plume; for interventions which require good initial hemostasis.



### FORCED COAG

Fast, effective coagulation, for example for marking lesions and hemostasis of blood leakage in resection bed.

## GI Workstation 1 – the basic model

VIO 200 S

ERBEJET 2

APC 2 (optional)

EIP 2 (optional)

# THE COMPLETE PACKAGE FOR ALL GIT INTERVENTIONS.

Apart from ESD and EMR, the fully equipped GI workstation provides further areas of application in the gastrointestinal tract. We recommend the VIO 200 D with additional modes for coagulation of bleeding. The optional APC 2 module (Argon Plasma Coagulation) allows for non-contact coagulation of selective and surface bleeding. And the EIP 2 endoscopic irrigation pump ensures a clear view of the target area.

## The advantages of VIO 200 D

- ✦ DRY CUT, the cutting mode with maximum hemostasis
- ✦ ReMode function: display settings are adjusted using the footswitch
- ✦ Two monopolar sockets (on standard model)
- ✦ FORCED APC, PRECISE APC and PULSED APC (APC-2 module ensures optimal non-contact coagulation)
- ✦ High-resolution color display
- ✦ Upgrade with ENDO CUT I / Q possible

## APC 2 for ESD

- ✦ Marking of lesion
- ✦ Effective non-contact hemostasis

## Additional application advantages of APC in GIT

- ✦ Effective and even surface coagulation; homogenous hemostasis and devitalization
- ✦ Low risk of perforation
- ✦ Minimum carbonization and smoke plume, minimum unpleasant odors
- ✦ Safe procedure with few complications

## The advantages of EIP 2 irrigation pump

- ✦ Clear view of operating field
- ✦ Connection to endoscopic irrigation channel, thus no change of instrument necessary for irrigation



## GI Workstation 2 – fully equipped

VIO 200 D

APC 2

ERBEJET 2

EIP 2

# THE MODELS.



The following types of probes are available:

**I-type:** Versatile application, large degree of freedom

**T-type:** The model with the best properties for dissection and working under tension; excellent coagulation properties

**O-type:** The safety model; spherical shape provides protection through insulation at the tip of the probe



HybridKnife, I-type  
No. 20150-061



HybridKnife T-type  
No. 20150-060



HybridKnife O-type  
No. 20150-062



### Step 1: Marking

Before elevating the tissue, the lateral safety margin is marked with coagulation points.



### Step 2: Elevation

The separation medium accumulates in the collagenous fibers of the submucosa, forming a safety margin from the muscularis. This minimizes the risk of perforation during resection.



### Step 3: Incision/dissection

Optimal cutting features with ENDO CUT Q and DRY CUT; suitable for making initial and circular incisions and resecting lesions.



### Step 4: Coagulation

Vessels and blood leakage are coagulated during and after resection with FORCED COAG. Hemostasis is enhanced by the compressive water cushion.

### The HybridKnife models

HybridKnife, I-type, full-stream Ø 2.3 mm; length: 1.9 m	Nr. 20150-061
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HybridKnife, T-type, full-stream Ø 2.3 mm; length: 1.9 m	Nr. 20150-060
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HybridKnife, O-type, full-stream Ø 2.3 mm; length: 1.9 m	Nr. 20150-062
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**ELECTROSURGERY**  
**VESSEL SEALING**  
**ARGON-PLASMA COAGULATION**  
**CRYOSURGERY**  
**WATERJET SURGERY**

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