

# Argon Beam Coagulation Technology

## Surgeon Technique Guide for ABC® Handpiece Applications



1. The tip of the handpiece must be within 1 cm of the tissue surface for the ABC® handpiece to initiate.

**The tip of the handpiece should not contact the tissue or be used as a probe.** If the tip glows red, the tip is too close to the tissue surface.



2. Hold the handpiece at a **45°-60°** angle to the tissue. This allows the gas stream to blow blood and debris away from the target site.

Avoid using the handpiece perpendicular to the tissue as blood will be blown into the vessel reducing effectiveness.



3. With the handpiece at an angle, **allow gravity** and the argon gas to direct the flow of blood downhill. Push the handpiece forward using a side-to-side sweeping motion.

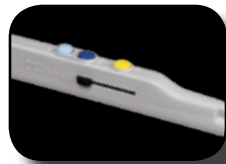
Avoid dragging the handpiece backwards as this will negate the gas flow effect and result in ineffective hemostasis.



4. Use the handpiece in a **slow**, deliberate manner at the maximum recommended power settings. As if spray painting, attempt to coagulate target site with one pass. The beam may be held on larger vessels for a longer period of time.

Avoid moving the handpiece in a rapid jerky manner for quick "spot" hits. This will result in ineffective hemostasis.

Avoid passing the beam over staples or other metal structures at the target site as they will conduct. Also, avoid placing the tip of suction devices to the beam as it will alter the direction of the gas flow.



### For Triple Option Handpiece:

5. Lever on the side extends and retracts the electrode. Never attempt to initiate the beam before retracting the electrode.

Catalog #	Product Description
Hand Control (Disposable)	
130321	Triple Option Hand Control Handpiece with 10' (3.05m) cord.
130344	Single Function Hand Control Handpiece with 10' (3.05m) cord.
134003	3" (7.6cm) Bend-a-Beam® Single Function Malleable ABC® Hand Control Handpiece with 10' (3.05m) cord.
134006	6" (15.2cm) Bend-a-Beam® Single Function Malleable ABC® Hand Control Handpiece with 10' (3.05m) cord.
134009	9" (22.87.6cm) Bend-a-Beam® Single Function Malleable ABC® Hand Control Handpiece with 10' (3.05m) cord.
Foot Control (Disposable)	
130345	Angled (45°) ABC® Foot Control Handpiece with 10' (3.05m) cord. Allows use of Monopolar ABC® coagulation only. Can be used with ABC® Dissecting Electrodes.
Foot Control (Reusable)	
130500	Reusable ABC® Foot Control Handpiece with 10' (3.05m) cord. When used with Single use ABC® Nozzle (130343) provides Monopolar ABC® coagulation.
130343	Single use ABC® Nozzle for use with Reusable ABC® Handpiece (130500). Can be used with ABC® Dissecting Electrodes.
130401	ABC® Handpiece sterilization case.

Catalog #	Product Description
Foot Control Laparoscopic Probes (Disposable)	
130342	Laparoscopic 10mm ABC® Probe with 10' (3.05m) cord. 28 cm working length. Can be used with ABC® Dissecting Electrodes.
160655	Laparoscopic 5mm ABC® Probe with 10' (3.05m) cord. 28 cm working length. Monopolar ABC® coagulation only.
Hand Control Laparoscopic Probes (Disposable)	
160656	Laparoscopic 5mm ABC® Probe with 10' (3.05m) cord. 28 cm working length. Monopolar ABC® coagulation only.
160636	Laparoscopic 10mm ABC® Probe with 10' (3.05m) cord. 28 cm working length. Monopolar ABC® coagulation only.
160644	Laparoscopic 10mm ABC® Probe with 10' (3.05m) cord. 28 cm working length. Monopolar ABC® coagulation only.

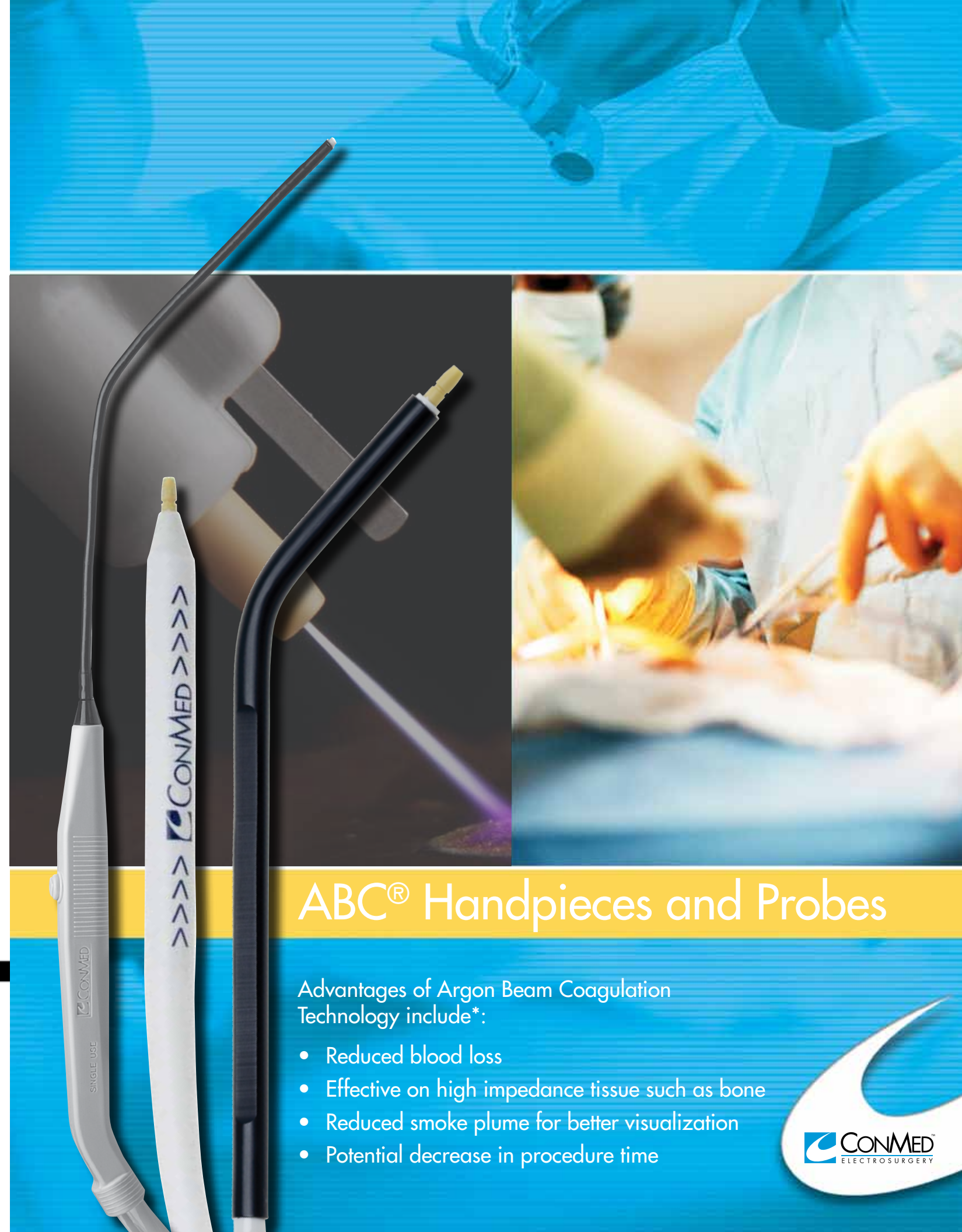
Please contact your local ConMed Territory Manager for information on our full line of Argon Beam Coagulation delivery devices and accredited ABC® Technology Continuing Education Programs.

### CONMED CORPORATION PRODUCT AREAS:

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## ABC® Handpieces and Probes

Advantages of Argon Beam Coagulation Technology include\*:

- Reduced blood loss
- Effective on high impedance tissue such as bone
- Reduced smoke plume for better visualization
- Potential decrease in procedure time



## Triple Option Handpiece

Conventional Electrosurgical Cut and Coagulation Applications and ABC® Technology...All in One Handpiece.



### Versatility

The flexibility of standard electrosurgery and the performance of Argon Beam Coagulation all in one handpiece.

### Safety

An encapsulated switch and blade retraction protects against false activation.

## Single Function Handpiece

The hand-switching Single Function Handpiece is a straight-forward way to deliver ABC® energy during open procedures.



Cut Mode



Coag Mode



ABC® Mode

## 5 mm Laparoscopic ABC® Probe



Available in Hand Control and Foot Control.

Three lengths: 28 cm, 36 cm, and 44 cm.

## 10 mm Laparoscopic ABC® Probe

28 cm in length. Foot Control.



### Safety Steps for Using ABC® Technology in Laparoscopy

- Set the gas flow to no more than 4 liters per minute.
- Continuously monitor the intra-abdominal pressure.
- Actively vent during procedures.

For more information, refer to Instructions for Use in the ABC® Handpiece packaging.

# Open Procedures

## Bend-A-Beam® Malleable Handpiece

Argon Beam Coagulation For Those Difficult-To-Reach Areas.\*



The hand-switching Bend-A-Beam® Malleable ABC® Handpiece is designed to deliver Argon Beam Coagulation to remote surgical sites.

Available in 3" 6" and 9" versions, insulated and malleable.

## Angled (45°) Foot Control Handpiece



The foot-switching Angled ABC® Handpiece is useful in open procedures that require a longer or angled configuration.

Not intended for laparoscopic use.



CONMED SYSTEM 7550™

\* Studies on file.

Refer to the Instructions For Use for specifics.

# Laparoscopic Procedures

## Laparoscopic ABC® Probes

### Reduce Procedure Times

- Hemostasis is achieved more quickly and efficiently as the ABC® Probe blows blood and fluid from the target site, allowing direct access to tissue.
- "Pooling" and other problems associated with coagulation in laparoscopy are minimized.
- Non-contact delivery enables the ABC® systems to quickly paint over large raw or bleeding surfaces.



### Improves Visualization

- Coagulation occurs in a medium of inert argon gas, virtually eliminating production of smoke plume.

### Safe and Effective

- Used in laparoscopic procedures since 1991.
- Consistent, superficial eschar minimizes tissue damage and potential for re-bleeding.