



Technical characteristics and modes of units

SERIES: ONYX / E350M / E81M

Characteristic or operating mode	ONYX	ONYX-A	E352M	E354M	E81M
TOUCHSCREEN	✓	✓	×	×	×
CUT	✓	✓	✓	✓	✓
BLEND	✓	✓	✓	✓	✓
BLEND 1	✓	✓	✓	✓	✓
SOFT	✓	✓	✓	✓	✓
FORCE	✓	✓	✓	✓	✓
SPRAY	✓	✓	✓	✓	✓
FULGUR	✓	✓	✓	✓	×
SOFT AUTOSTOP	✓	✓	×	×	×
SPRAY-ARGON	×	✓	×	×	×
FULGUR-ARGON	×	✓	×	×	×
FULGUR-PULSE-ARGON	×	✓	×	×	×
SPRAY-PULSE-ARGON	×	✓	×	×	×
TUR	✓	✓	✓	×	×
VAP	✓	✓	✓	×	×
ENDO-LOOP	✓	✓	×	×	×
ENDO-KNIFE	✓	✓	×	×	×
BI-COAG	✓	✓	✓	✓	✓
BI-COAG AUTOSTOP	✓	✓	✓	×	✓
BI-COAG AUTO-START-STOP	✓	✓	✓	×	×
BI-BLEND	✓	✓	✓	×	×
BI-TUR	✓	✓	×	×	×
BI-ARTHRO	✓	✓	×	×	×
BI-HYSTERO	✓	✓	×	×	×
BI-COAG-DISSECT	✓	✓	×	×	×
THERMOSEAM	✓	✓	×	×	×

«ONYX»

THE NEW INTELLECTUAL ELECTROSURGICAL SYSTEM



THORACIC, GENERAL AND PLASTIC SURGERY

GASTROENTEROLOGY

GYNECOLOGY

UROLOGY

TRAUMATOLOGY AND ORTHOPEDICS

OTORHINOLARYNGOLOGY (ENT)



Security

The unit is of CF type (it has higher protection degree than BG type units), protection against defibriliator discharge



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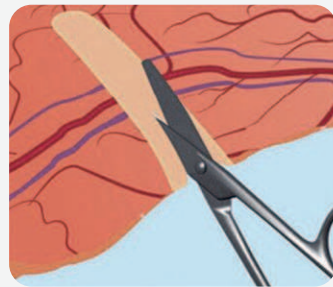
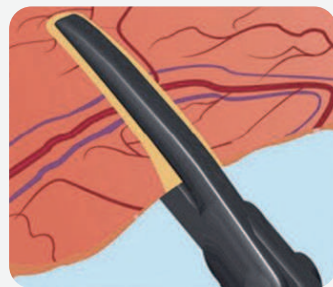
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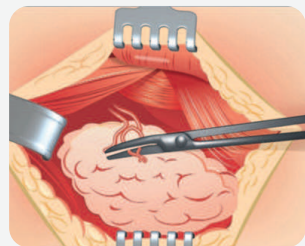
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«Thermoseam» mode – blood vessels sealing

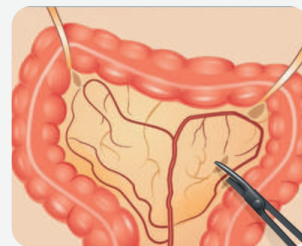


Advantages:

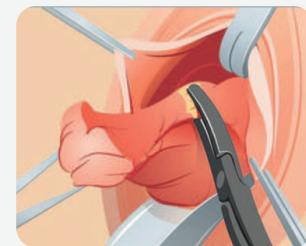
- ✓ Reliability, durability of vessel ligation, comparable to traditional methods
- ✓ Reduce risk of wound inflammation and suppuration due to foreign materials absence
- ✓ Reduce pain in postoperative period
- ✓ Reduce operation time
- ✓ Reduce suture costs



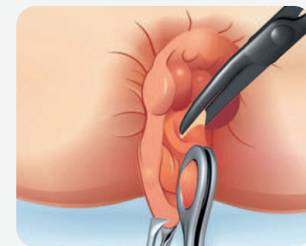
Thyroid resection



Bowel resection



Transvaginal hysterectomy



Hemorrhoidectomy

Argon plasma coagulation and cutting (APC)

GENERAL SURGERY

PURULENT SURGERY

THORACIC SURGERY

OBSTETRICS AND GYNECOLOGY

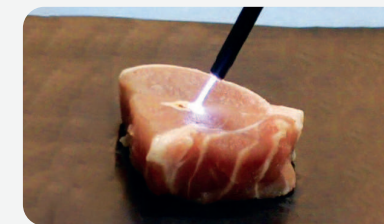
FLEXIBLE AND RIGID ENDOSCOPY

ENT SURGERY

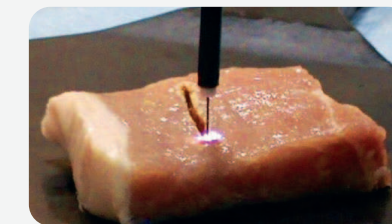
PLASTIC SURGERY

Advantages:

- ✓ Contactless coagulation, no tissue adhesion to electrode
- ✓ Controlled tissue coagulation depth (no more than 3 mm)
- ✓ Lack of smoke and odor, good visualization of affected area
- ✓ Effective hemostasis, blood loss reduction
- ✓ Argon plasma sterilization effect
- ✓ Minimal carbonization

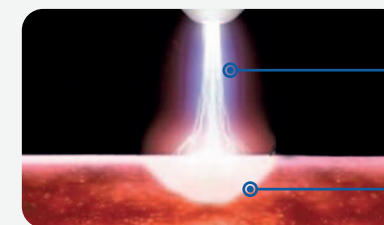


Argon plasma coagulation
«SPRAY» mode, nozzle electrode



Argon plasma cutting
«FULGUR» mode, knife electrode

Process of argon plasma ablation:



argon plasma beam

coagulation depth up to 3 mm

Resectoscopy

The unit enables to cut, coagulate and vaporize tissue during endoscopic operations in cavity with solution using mono- and bipolar modes.

Advantages:

- ✓ Thin and smooth cut surface
- ✓ No tissue sticking to electrode
- ✓ Effective stop bleeding

UROLOGY transurethral resection

TRANSURETHRAL RESECTION OF THE PROSTATE (TURP)

TRANSURETHRAL RESECTION OF BLADDER TUMOR (TURBT)

URETHRAL STRICTURE DISSECTION

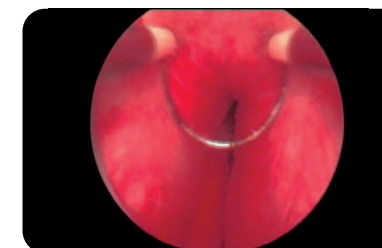
GYNECOLOGY hysteroscopy

MYOMECTOMY

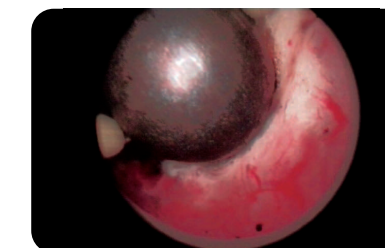
POLYPECTOMY

INTRAUTERINE SYNECHIA DISSECTION

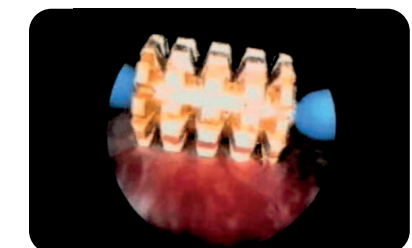
UTERINE SEPTUM RESECTION (ABLATION) OF THE ENDOMETRIUM



Tissue resection
by loop electrode



Tissue coagulation
by ball electrode



Tissue vaporization
by spike electrode

Electrodes for resectoscopes

