



Medsys

Gembloux - Belgium
www.medsys.be



MEDSYS

- Belgian Company based in Gembloux
- Manufacturer and distributor of surgical instruments
- R&D in stainless steel and titanium instruments
- R&D in surgical robotics

For sectioning the uterus during laparoscopic hysterectomy

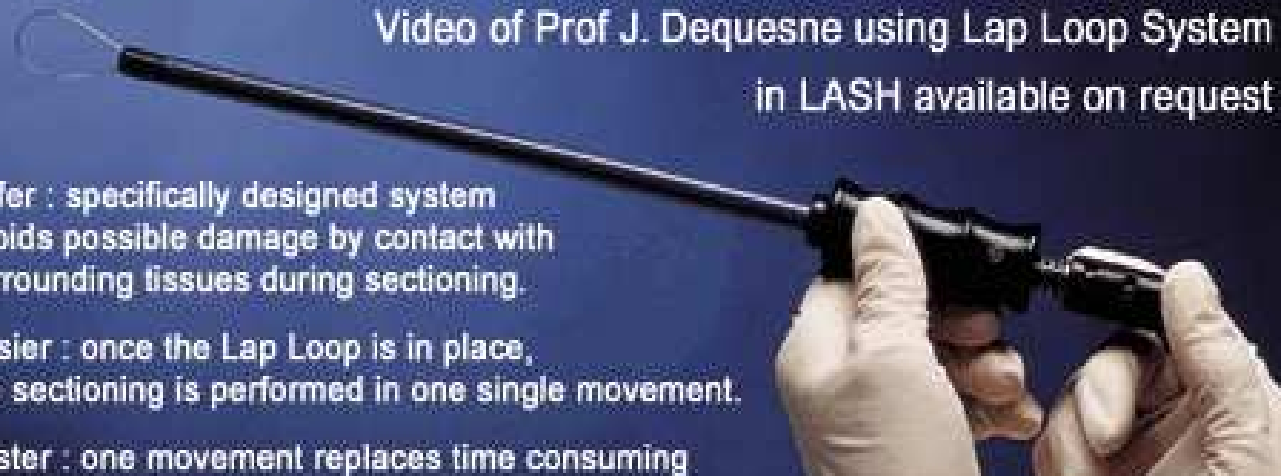
Video of Prof J. Dequesne using Lap Loop System

in LASH available on request

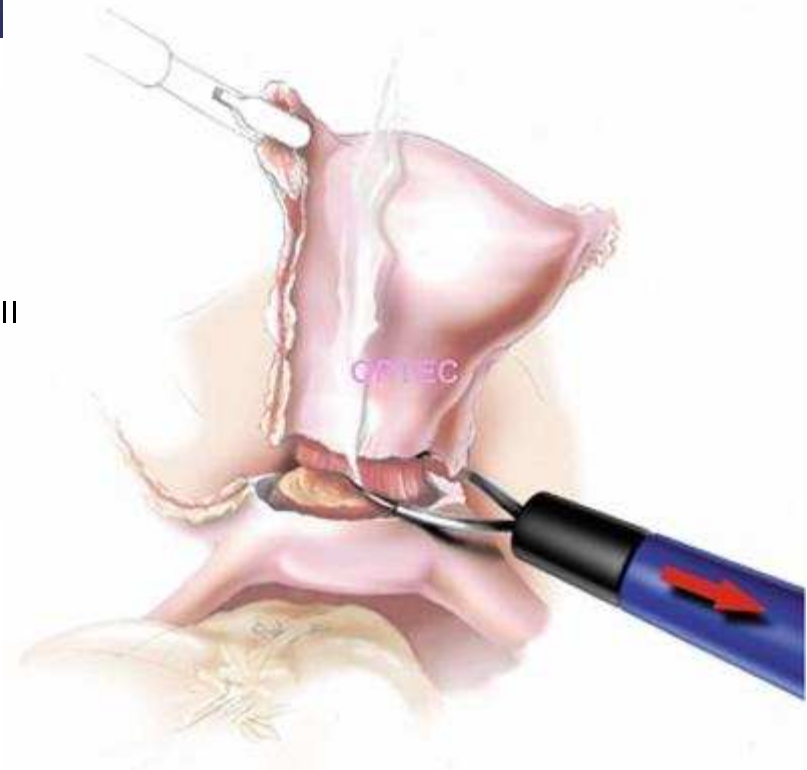
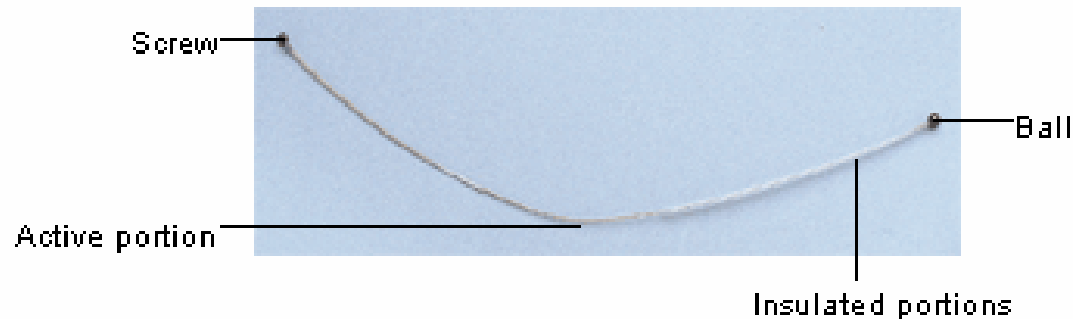
Safer : specifically designed system avoids possible damage by contact with surrounding tissues during sectioning.

Easier : once the Lap Loop is in place, the sectioning is performed in one single movement.

Faster : one movement replaces time consuming multiple incisions.



Electrode



MEDSYS Core Business



Electrosurgical Reusable Electrodes For Dermatology

Ball Electrodes

- 125-001 Ø 3 mm
- 125-002 Ø 5 mm

Needle Electrodes

- 125-011 Fine
- 125-016 Ø 1 mm
- 125-017 Ø 1.7 mm
- 125-018 Ø 3 mm

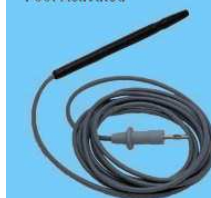
Ring Electrodes

- 125-020 Ø 6.5 mm
- 125-021 Ø 8 mm

ElectroSurgical Bipolar Forceps



Reusable Handle Foot Activated



Reusable Handle Hand Activated



Universal ElectroSurgical Electrodes and Accessories

*Sterile disposable Item #	Reusable Item #	
120-001	120-001 R	0,3 cm dia x 13 cm Shaft
120-002	120-002 R	0,5 cm dia x 13 cm Shaft
120-010	120-010 R	0,8 mm dia x 16 mm x 13 cm Shaft
120-020	120-020 R	Needle 1,0 cm x 0,5 cm x 13 cm Shaft
120-021	120-021 R	1,0 cm x 1,0 cm x 13 cm Shaft
120-022	120-022 R	1,5 cm x 0,8 cm x 13 cm Shaft
120-026	120-026 R	1,5 cm x 1,5 cm x 13 cm Shaft
120-023	120-023 R	2,0 cm x 0,8 cm x 13 cm Shaft
120-033	120-033 R	2,0 cm x 1,0 cm x 13 cm Shaft

Challenges of Laparoscopic Surgery

- **Utmost importance of vision**
 - ☐ loss of depth perception (2D)
 - ☐ stability of image
 - ☐ high definition
 - **Separate control of instruments and image**
 - ☐ slows surgery
 - ☐ reduces focus
 - ☐ increases tiredness (unstable image)
- **Manual scope holding may increase the intra-operative risks**

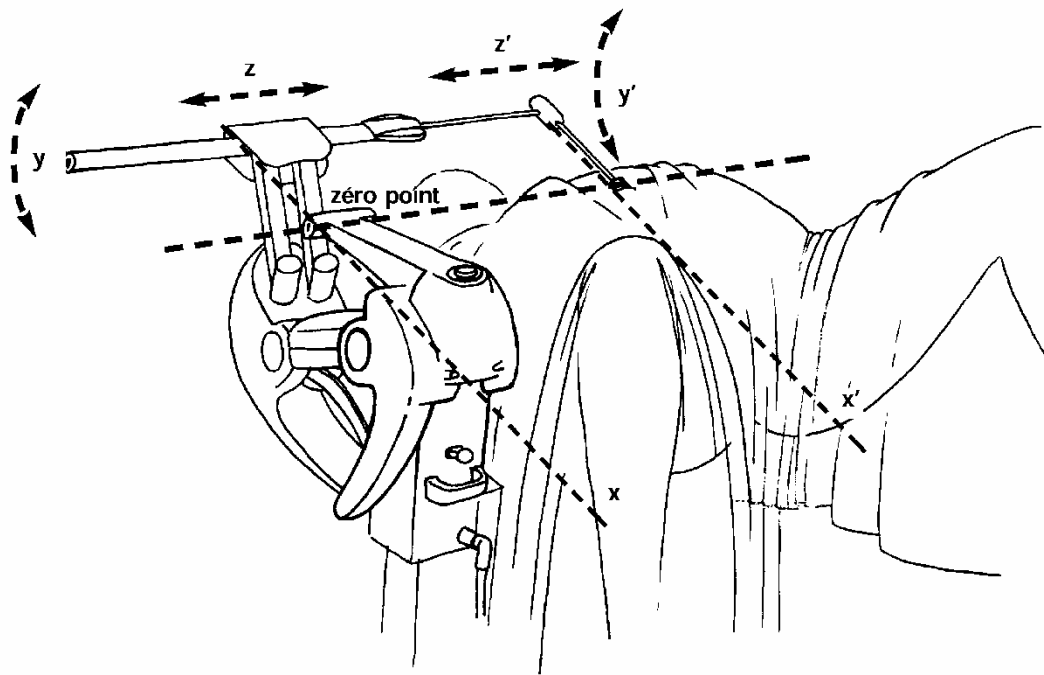


LapMan® : Dynamic Manipulator

- Vision control by **the Surgeon**
 - ☐ **or** the Assistant
 - ☐ **or** the circulating nurse
- LapMan frees a hand
 - ☐ enables focusing on essential tasks
- **LapMan provides a stable image**

Concept : great amplitude

designed for a vast majority of
abdominal and pelvic procedures



User interface : LapStick®





Advantages of LapMan - Surgeon

- **Less fatigue**
- **Operating time is not increased**
 - in most procedures
- **Solo surgery possible**
 - problem of lack of assistants
 - emergency surgery without assistant

Solo Surgery with LapMan



Single Incision Laparoscopic Surgery
Dr. Hauters -
Notre-Dame Tournai,
Belgium



Advantages LapMan - Hospital

- **Potential improvement of use of resources**
 - Optimization of human resources
- **Affordable robotic technology**
 - OR team
 - Cost effective
- **Stable Equipment**
 - Maintenance

Developments

- **LapTeach**
 - Teleoperation
- **LapTrainer**
 - Simulation
- **LapMan next generation**
 - Competitors (Viky-FR; FreeHand-UK; AktorMed-DE)