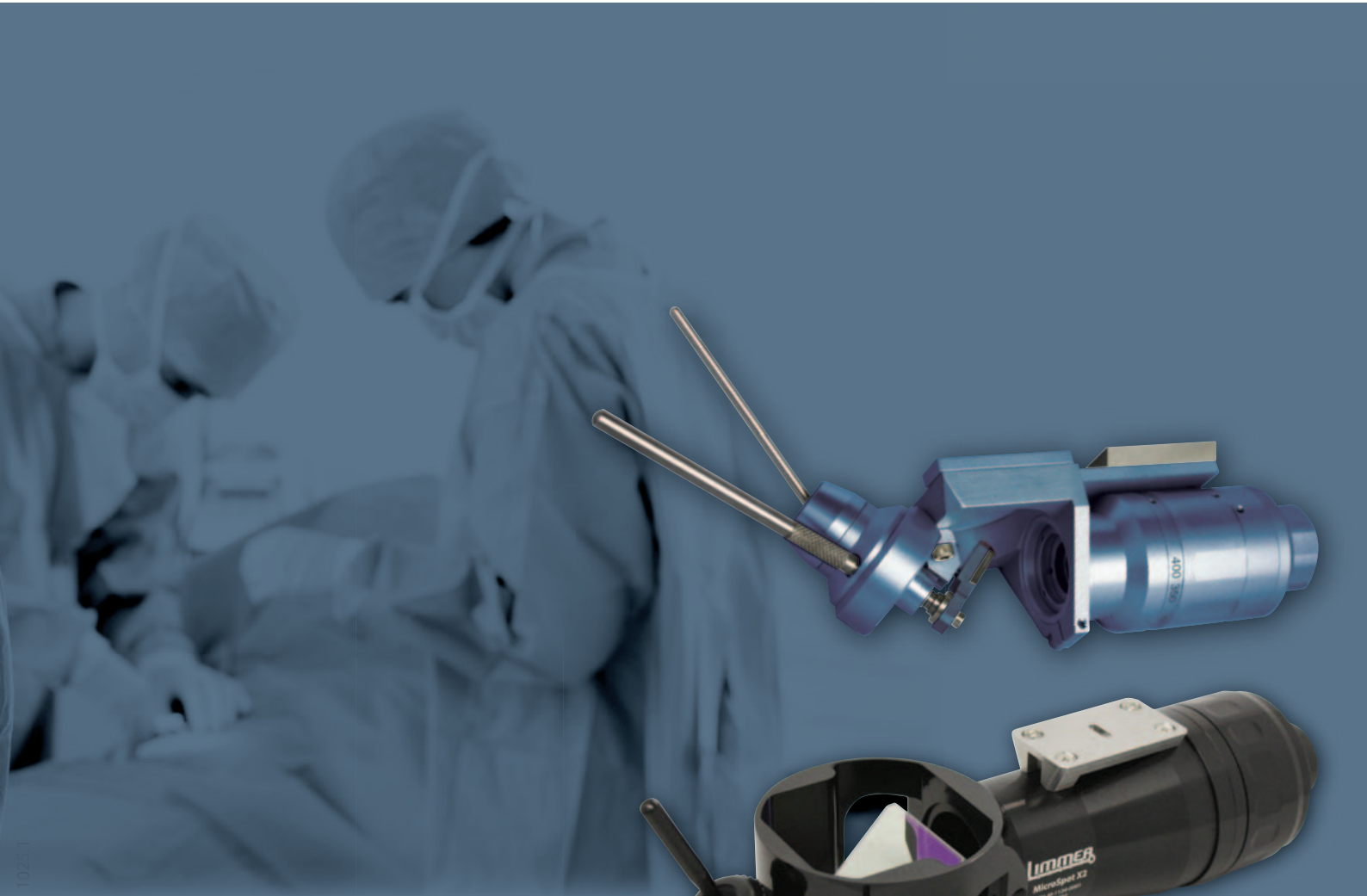


Micromanipulators

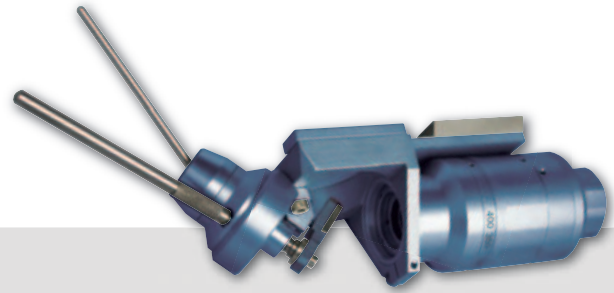
MiniSpot & MicroSpot X2



Maximum Laser precision with
microscopes and colposcopes

Limmer
L A S E R 

Working distance	Focussed spot size	Max. defocussed spot size
f = 200 mm	0,320 mm	3,84 mm
f = 250 mm	0,450 mm	5,40 mm
f = 300 mm	0,530 mm	6,36 mm
f = 350 mm	0,610 mm	7,32 mm
f = 400 mm	0,740 mm	8,88 mm



Micromanipulator MiniSpot

For a basic range of microscopic and colposcopic treatments.

Main Advantages

- Seamless adjustment of focal length between 200 - 400 mm
- Hand support freely adjustable between 0 - 360 °
- Prepared for use with Scanner SurgiScan for a rapid, superficial and seamless tissue ablation (e.g. for dysplasia treatments)

Typical Applications

- **Gynaecology** (e.g. condylomata, dysplasia)
- **General Surgery**
- **Proctology** (e.g. haemorrhoids)

Micromanipulator MicroSpot X2

Designed for maximum beam precision and performance.

Main Advantages

- Seamless adjustment of focal length between 200 - 600 mm with instant coagulation control by a defocussing lever
- Ultra-small minimum spot size of down to 100 µm for strongly reduced risk of collateral damages at tissue
- Perfect alignment of pilot and working beam at all times, with better sight at tissue by a large redirecting mirror
- Can be used with all surgical microscopes, optimized for both right and left handed surgeons
- Compatible with Scanner SurgiScan X2 for extremely thin, athermic tissue cutting and ablation by defined patterns

Typical Applications

- **ENT** (e.g. stapes treatments, vocal folds surgery, laryngeal surgery, etc.)
- **Neurosurgery** (spinal tumors, etc.)
- **Eye surgery**

Explicitly recommended for all treatments which require maximum surgical precision at **smallest spot sizes** and **minimal collateral damages** to surrounding tissue.



Scanner patterns of micromanipulator MicroSpot X2 in combination with optional Scanner SurgiScan X2, e.g. for stapes & larynx surgery.

Working distance	Focussed spot size	Lever-defocussed spot size
f = 200 mm	0,100 mm	2,5 mm
f = 300 mm	0,125 mm	3,5 mm
f = 400 mm	0,150 mm	4,6 mm
f = 500 mm	0,159 mm	5,1 mm
f = 600 mm	0,170 mm	5,6 mm