

LASER REPAIR SYSTEM

LCD 4400



- **Large size LCD or Photomask Repair**
- **Compact, Small foot print**
- **Motorize Joystick control X-Y-Z**
- **Triple Wavelength Laser Cutting**
- **Rigid, Heavy Duty Gantry Systems**



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Specifications:

The LCD4400 offers is an economical, precision instruments designed to repair short, remove excess material (ITO, Cr, Al...) on panel before or after assembly. Featuring lightweight, state of the art technology, the LCD4400 focuses a Nd:YAG laser directly through microscope objective. Heavy aluminum casting X-Y gantry provides no vibration, micron movement with 3 speeds joystick control.

All function is remote control to eliminate particle drop over panel.

GANTRIES X-Y-Z, Laser wavelength, Laser energy, X-Y aperture, fire laser all remote control far away from system.

Motorize Gantry System:

Travel X-Y-Z 500 x 540 x 50 mm

Resolution 1 micron

Joystick control: Selectable 3 speed Low Medium High

Speed: Max 100 mm/sec Min 3 mm/sec

Substrate holder 500 x 540 mm

Back light (optional)

Laser Systems:

Laser: Nd:YAG

Wavelength: 1064/532/355 nm

Pulse width: 6 nano second

Energy .6 mJ

Cutting size:

- 50X Objective: 50 x 50 micron Max
1.4 x 1.4 micron Min
- 100X Objective: 20 x 20 micron Max
0.8 x 0.8 micron Min

Cooling: Ambient Air

Beam mode: TEM₀₀

Motorize aperture

Anti-Vibration Table:

Passive air damper provides vibration isolation for small geometry cutting.

System Dimension: 1,200 x 1,100 x 1,500 mm

Weight: approx 350 lbs

Facility Requirement:

Power: 117/220 VAC 50/60Hz

Single Phase, 15 Amp.

Vacuum 18 mHg



Optionals:

- Larger size system X-Y-Z 850 x 800 x 50 mm
- Back light.
- Read out X-Y in micron
- MT-405 Motorize turret
- 2 Mega Pixel digital CCD camera
- Mitutoyo microscope and lens

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