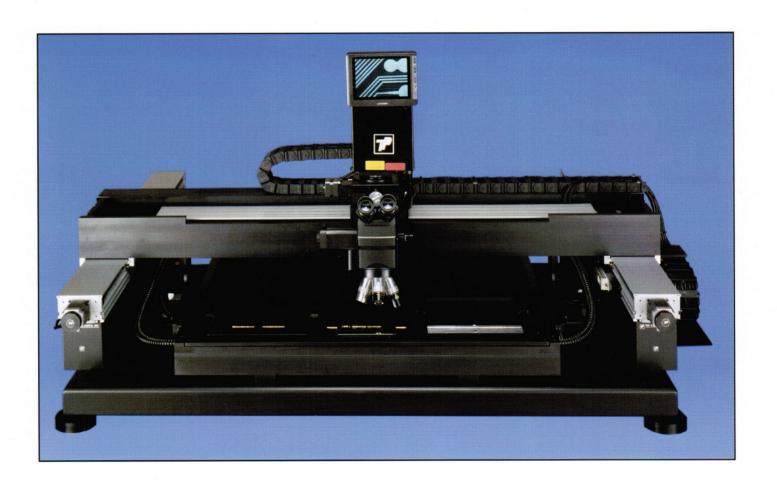
Semi or Fully Automatic Laser Repair System

- Accommodates panel up to 2 x 2 meters
- □ Flat Panel Display, Large Photomask and Color Filter Repair
- □ Triple Wavelength (1064, 532, 355 nm) Laser Cutting Systems
- □ User-Friendly Windows 95/98/NT Software
- □ Motorized Laser Theta Stage (+45°)
- □ Auto Loader/Un-loader (Optional)





Specifications

The TNP Model 6400-L offers an exceptional Laser Cutting System that exceeds the requirements for Flat Panel Display, Large Photomask, and Color Filter Repair. Fully automatic remote controlled, the 6400-L comes with single, dual or triple wavelength to achieve optimum results in the removal of Aluminum, Chromium, ITO, and Polyimide on panel before or after assembly.

Laser System

The TNP Model 6400-L provides a convenient laser system operation for LCD repair. Designed as a one-step operation, and accompanied with customized software, the 6400-L achieves optimum results in the precise removal of aluminum, chromium ITO, and polyimide. Fully controlled and operated away from the microscope, the 6400-L comprises a complete automated repair station.

Wavelength:

1064/532/355 nanometer. Nd:YAG Laser.

Pulse Width:

7 nanosecond

Energy:

.6mI

Cutting size:

50X obi.

50 x 50 Micron Max.

1.2 x 1.2 Micron Min.

100X Obj. 20 x 20 Micron Max. (Optional) 0.6 x 0.6 Micron Min.

Cooling:

Ambient Air

Beam Mode: TEM₀₀

Motorized Laser Theta Stage

Motorized Gantry System

Travel

Up to 2 x 2 meters

Accuracy

±20 µm over travel distance

Repeatability 2µm

1µm

Resolution

Substrate Holder Up to 2 x 2 meters

Computer Control Unit

Software Operates under Windows 95/95/NT.

"Point-and-Shoot" on-screen navigation.

Multimedia Video: Digitizing graphics card

displays live video image on screens.

Supports point-and-shoot; drag-and-drop;

video image measuring, retrieval, and

printing.

Optional Features

- Auto Loader/Un-loader
- AF-405 Auto Focus
- MT-405 Motorized Turret
- Motorized Laser Theta Stage



Motorized Laser Theta Stage

Input Sources: Reads data from KLA Acrotech,

KLA Tencor, PDI, Orbotech, Hitachi

Engineering Research, and Tokyo Cathode Lab. Other manufacturers also

available.

Anti-Vibration Table

Active air provides vibration isolation for small geometry cutting.

Size and Weight

Main Unit For 1 x 1 meter system:

60" x 66" x 57"

Approximately 800 pounds

Approximately 400 pounds Inst. Rack

Approximately 1,200 pounds Tot. Weight

Facility Requirements

Power 117/220 VAC, 50/60 Hz,

Single Phase, 12 Ampere

80 psi Air

18 mHg Vacuum

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