

Optec MicroMaster vs Optec ProMaster

Two Systems for Excimer Laser Micromachining?

Optec offers two standard UV micromachining systems. Both systems are excimer-based mask projection micromachiners, for high quality micromachining of a wide range of materials, thin films etc.

Optec MicroMaster is a high specification, multi-function, reconfigurable, small footprint workstation, and includes excimer laser, sophisticated beam delivery optics, precision part motion, & flexible control software.

Optec ProMaster is a complete budget micromachining system with special BDU built on the the laser front end.

Common Features

- BOTH systems are capable of high quality UV micromachining with μ -scale resolution
- SAME laser source
- SAME confocal 3e projection lens, with TTL vision.
- SIMILAR ProcessPower s/w,- more features in ProcessPower for Mmmmainly connected with variable demag. & focus control

Principal Differences

- MicroMaster has fully variable UV demag.:- ProMaster is fixed X10 demag.
- MicroMaster depth/focus control is motorized;- ProMaster is manual
- MicroMaster takes several different and interchangeable mask options;- ProMaster has just 32-motif motorized selector(MVA in development)
- MicroMaster has additional off-axis vision system;- none on ProMaster.
- MicroMaster has motif highlighting;- none on ProMaster
- MicroMaster has s/w energy control;- ProMaster is manual
- MicroMaster has 200x200mm X,Y travel;- ProMaster is 100x100mm.
- MicroMaster offers motorized theta option, and associated s/w routine for auto-align to part fiducials;- ProMaster has standard manual theta.
- MicroMaster has twin screens for CCTV & PC control;- ProMaster has single flat screen with incrusted image.
- MicroMaster offer different gas control options;- ProMaster has just coaxial debris control nozzle.
- MicroMaster has more space for large parts.

Another Difference

ProMaster is less than 2/3 the price of MicroMaster