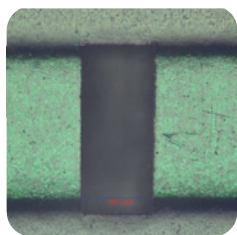
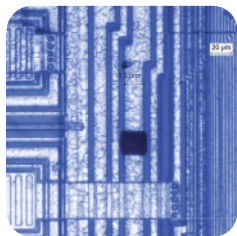


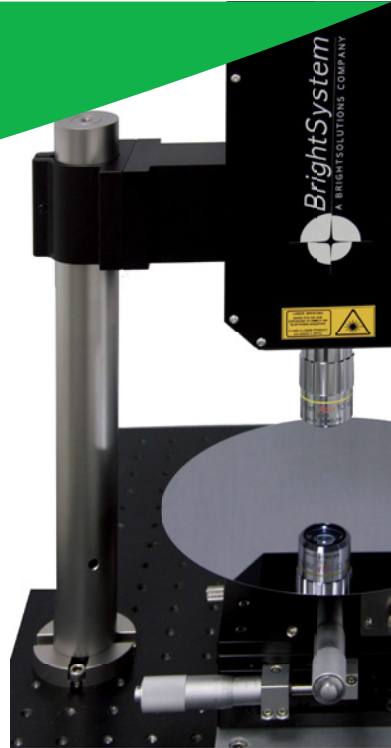
MicroMake

Laser Micromachining System



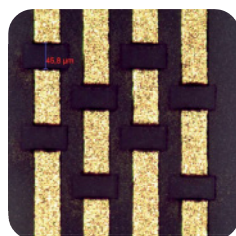
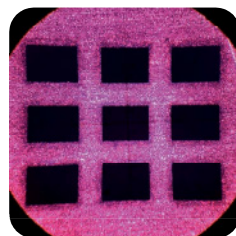
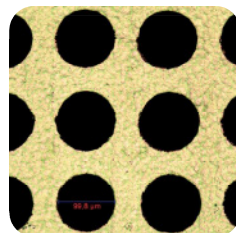
Features

- Ablation and cutting of programmable arbitrary shapes
- Live imaging of the processed samples
- Suitable for a vast range of materials
- 1 mm standard processing area
- Optional XYZ translation stage
- Embedded illumination unit
- 532/266 nm ns and ps lasers
- Down to 2 μm spot size



Applications

- 3D direct microstructuring
- Precision surface texturing
- Track interruption on PCBs
- Micro-coding, Anti-counterfeiting
- Thin film removal on hard substrates
- Selective metal removal on ceramic substrates
- Microcorrection on wafers, masks and displays
- Microdrilling on metal alloys and transparent dielectrics



MicroMake from Bright System is an integrated and compact laser micromachining unit for high precision and resolution applications. The system includes all the needed devices for direct laser micro-processing in a single monolithic element. Live microscope imaging of the sample is offered during all process phases for alignment and immediate quality check. Typical applications of this compact system include controlled ablation, microdrilling, precision cutting, selective removal and direct 3D microfabrication. All these features suit perfectly a large variety of materials utilized in the fields of microelectronic circuits and displays fabrication and correction, biomedical devices machining, optical substrates microprocessing.

Options available

High resolution version (HR)

Circular polarization on the workpiece

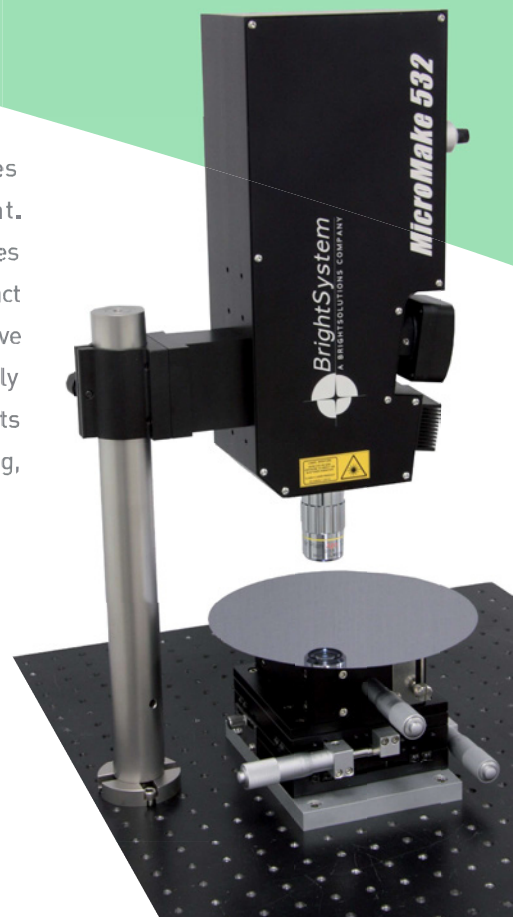
High speed/high resolution USB camera

Z manual or motorized stage - 50 mm Z travel

XY manual or motorized stage - 150 mm XY travel

OEM version: single unit with integrated low-voltage PSU

Table-Top version: external mount and stages with external AC PSU



Model	MicroMake 532	MicroMake Plus 532	MicroMake 266	MicroMake Plus 266
Wavelength	532 nm	532 nm	266 nm	266 nm
Lens Magnification	10X	10X	10X	10X
Working Distance	39 mm	39 mm	20 mm	20 mm
Spatial Resolution	4.5 μ m	5 μ m	2.2 μ m	2.5 μ m
Processing Area	0.8x0.8 mm ²	0.8x0.8 mm ²	0.8x0.8 mm ²	0.8x0.8 mm ²
Frequency	1 kHz	10-100 kHz	0.8 kHz	10-100 kHz
Max Peak Power	10 kW	35 kW	0.8 kW	5 kW
Typical processing linear speed	up to 5 mm/s	up to 100 mm/s	up to 1 mm/s	up to 40 mm/s
Cooling	Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled
Overall mechanical dimensions	35x16x9 cm ³	35x24x11 cm ³	37x16x9 cm ³	37x24x11 cm ³

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