

# LASER PRECISE MICROPROCESSING TECHNOLOGY&EQUIPMENT



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**MULTITECH Ltd.**

**SAPPHIRE-1**  
*Laser scribing by picosecond laser*  
Experimental-Industrial  
Equipment for *Precise Laser*  
*Processing of Materials*

**POLYFER-1**  
*Laser ablation by nanosecond laser*

**PROCESSES**  
Precise Cutting  
Perforation  
Welding  
Marking  
Trepanning

**MATERIALS**  
Metals  
Dielectrics  
Ceramics  
Glass  
Sapphire  
Silicon

## FEATURES

- ▶ Modular design
- ▶ Microscope TV-System
- ▶ Precise Positioning System
- ▶ High Automatization
- ▶ Internal Chiller
- ▶ Pulsed Laser Power Supply
- ▶ Original Software



Power Supply

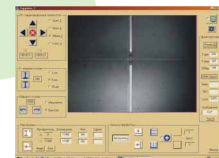
## LASER SOURCE

- ▶ Diode- or Flashlamp Pumped
- ▶ Solid State
- ▶ Ultra-Short Laser Pulse
- ▶ Low Beam Energy
- ▶ High Repetition Rate

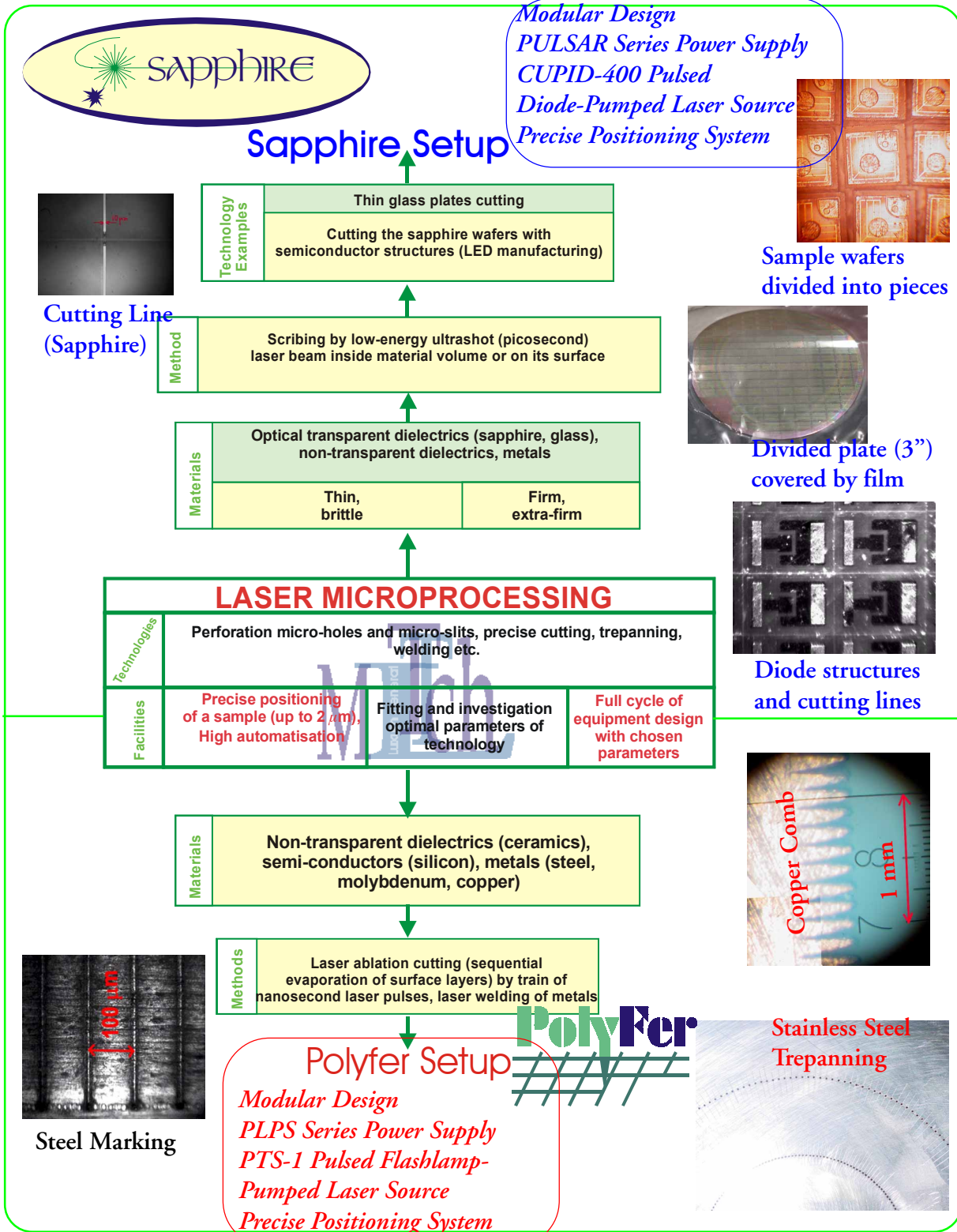


Microscope  
TV-system 350<sup>x</sup>

**2.5 μm positioning precision**



Software Snapshot



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