

## Tykma ElectroX Laser Marking System



### Brief Description:

The Tykma ElectroX Laser Marking System employs a 20 watt Scorpion Rapid infrared laser to mark a variety of materials including aluminum, stainless steel, plastics, and chrome-plated glass mask plates, with a resolution of approximately 20  $\mu\text{m}$ . The user desired patterns are generated by importing vector graphic software created designs into ElectroX *Scriba* software. The desired result for specific material depends on five programable parameters; Laser power, pulse frequency, scanning speed, number of passes, and fill. Through the modification of these parameters, users can achieve general marking, annealing, ablation, or deep engraving of materials.

The system has various applications in the fields of material science, semiconductors, microfluidics, bioengineering, and chemical engineering.

### Technical Specifications:

- 20 watt Yb:Fiber laser (1060-1080 nm, maximum marking speed 10,000  $\text{mm}\cdot\text{s}^{-1}$ )
- Programable Z-axis for automatic laser focus height control (290 mm travel)
- Maximum 100 mm diameter writing area
- BOFA AD Oracle IQ Fume Extraction System
- Rotary axis for marking cylindrical substrate