

ILT VersaSTC

Laser Tube & Stent Cutting



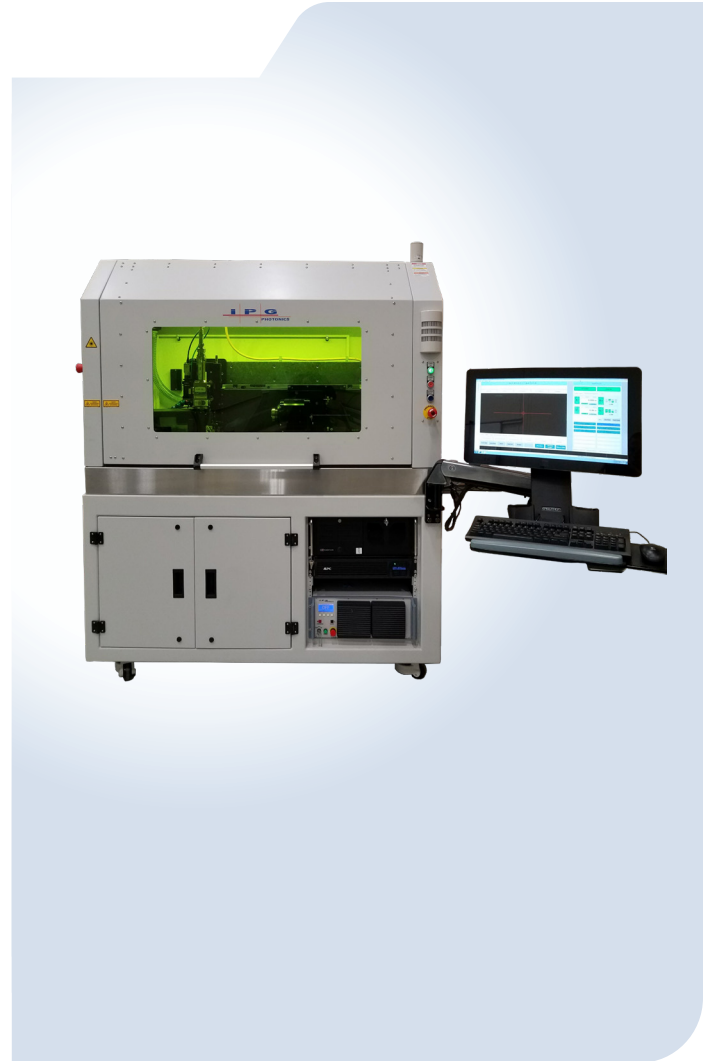
Benefits

- ▶ Designed-in Precision for High Part Yield
- ▶ Tube Size Flexibility & Ease of Setup
- ▶ Broad Selection of Laser Types & Beam Delivery for Optimized Processes & Quality
- ▶ HMI-2200 Software for Regulatory Compliance
- ▶ G/M Code Program Options for CNC Familiarity
- ▶ Robust Industrial Design Ensures High Availability
- ▶ Turnkey Proven Process – Fast Time to Production



Features

- ▶ 2-axes & 4-axes configurations
- ▶ Granite Base & Bridge with Vibration Isolation Essential for Precision Cutting
- ▶ Choice of CW, QCW, Pulsed & Ultrafast Lasers
- ▶ Tube Size: 0.2 to 25 mm Tube, Self-centering
- ▶ Wet Cut Option for Demanding Applications



The ILT VersaSTC is a laser processing workstation designed for cutting medical stents and precision tubing. The Class 1 workstation encloses a granite base and bridge structure that provides stability for the 2-axes or 4-axes motion system. Configuration options include a wide range of laser and beam delivery types, allowing optimization for specific applications. Industry leading HMI-2200 user-interface comes standard with a robust library of proven and validated processing routines that integrates with MES as well as providing real-time and historical data logging for FDA regulatory compliance.

Hardware options include an on board wet-cut module with part containment box and fluid management system. Vision systems and programmable lighting for automated part alignment and inspection and comprehensive programmable I/O to reduce operator dependency and increase quality and yield. The VersaSTC is supplied as a turnkey system; processing recipes are developed by IPG's laser processing specialists prior to tool delivery, further accelerating tool move-in, qualification and time to production.



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System Specifications

| | |
|----------------------------|---|
| Motion System- X | X: 300 mm, 12 in. Accuracy: $\pm 8 \mu\text{m}$ (0.3 mils); Repeatability: $\pm 1 \mu\text{m}$ (0.04 mils); Velocity: 300 mm/sec (720 in/min) X Stage Provides Coordinated Motion for Cutting and Automated Feed of Tube Stock |
| Motion System- Rotary | Rotary: 360° Continuous, 600 RPM Max. Accuracy ± 30 arc-sec, Repeatability ± 6 arc-sec |
| Beam Delivery | Can Be Configured for Fiber Delivery & Free Space Laser & Optics Path on an Upper Deck |
| Laser Availability/ Choice | CW, QCW and Pulsed up to 300 W Average Power Picosecond, Femtosecond, Green and UV Options |
| Cutting Assist Gas | Two Gas Inputs with Manual Pressure Setting, Programmable On/Off Control |
| Wet Cut System Option | Containment Box with Finished Part Drawer, Connections for Exhaust & Make-Up Air Stand-alone Pump Skid with Interface to System |
| Cutting Assist Gas | Two Gas Inputs with Manual Pressure Setting, Programmable On/Off Control |

Optional Features

| | |
|--------------------------|---|
| Motion System | Additional Y and C (Tilt) Coordinated Axes for Off-center Cutting and Engraving Y Travel: 300 mm (12 in), Accuracy $\pm 8 \mu\text{m}$ (0.3 mils) Repeatability $\pm 1 \mu\text{m}$ (0.04 mils), Velocity 300 mm/s (720 in/min) C- Rotary (Tilt): 360° Continuous, 600 RPM Max Accuracy ± 30 arc-sec, Repeatability ± 6 arc-sec |
| Cutting Assist Gas | Option for Programmable Pressure Control Gas Pressure 300 psi Max |
| Camera System | Live Video Camera System Viewing through the Focus Lens & Nozzle Programmable Lighting Control |
| Tool Path Software | Cagila MasterCam |
| Power/ Energy Management | On-board Power Meter/ Profilometer Integrated with HMI-2200 for Process Verification |
| Part Identification | Barcode Scanner |
| Software | 21CFR Part 11 Software Factory MES Integration Options |

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