VERSA

Fiber Laser Tube & Stent Cutting

FEATURES

- 2-axes & 4-axes configurations
- Granite Base & Bridge with Vibration Isolation Essential for Preczaision Cutting
- HMI-2200 Software for Regulatory Compliance
- Tube Size: 0.2 to 25 mm Tube, Self-centering
- Wet Cut Option for Demanding

BENEFITS

- Precision and Stability for High Part Yield
- Tube Size Flexibility & Ease of Setup
- Broad Selection of Laser Types & Beam Delivery for Optimized Processes & Quality
- G/M Code Program Options for CNC Familiarity

Versa 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. Versa is supplied as a turnkey system; processing recipes are developed by IPG 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: ±8 µm (0.3 mils); Repeatability: ±1 µm (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	Configurable 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 Two Laser System Custom Configuration Available; Consult ILT for Details.
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: ±8 µm (0.3 mils) Repeatability: ±1 µm (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
Wet Cut System	Containment Box with Finished Part Drawer, Connections for Exhaust & Make-Up Air
Bar Feeder	Automatic Tube Stock Feeder for Lengths from 450 mm to 3700 mm (18 in to 144 in)
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
Optional Tool Path Software	Barcode Scanner
Software	21CFR Part 11 Software Factory MES Integration Options

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