DAPRA®

UW–20 TableTop

Rofin's Table-Top Laser Marking Enclosure

Versatile

Compact

Economical

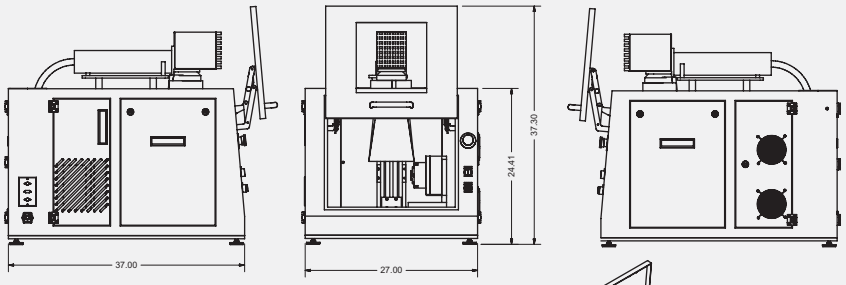
The UW-20 is a complete, portable Class 1 laser marking system with a variety of available laser powers for a wider range of materials and increased application possibilities.

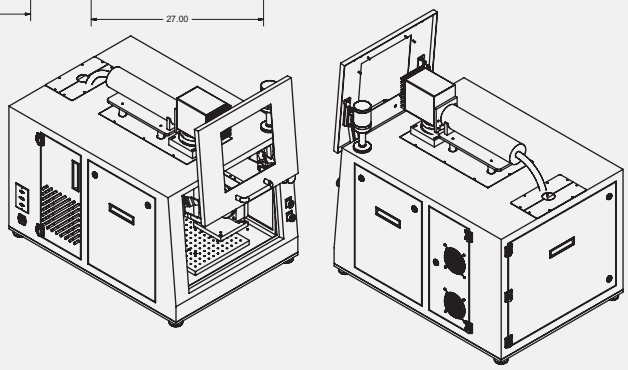
The UW-20 system incorporates either the PowerLine F fiber-pumped diode technology, or the PowerLine E-Air. Both systems deliver superior beam quality and pulse stability and are manufactured to IP54 standards for component protection in harsh environments. The inherent qualities of Rofin's air-cooled lasers allow for a longer operating life thus a lower cost of ownership.

The work envelope is over-sized to mark a greater range of parts with the use of its larger marking field options. The UW-20 offers numerous operational features:

- Increased laser power for reduced cycle times, and a wider range of materials and applications possibilities
- Choice of Fiber laser or end-pumped diode laser
- Expanded work envelope and tooling area
- High-quality marks with low penetration depth, even with small character sizes
- Excellent for processing a variety of metals and polymers
- Integrated air-cooling system allows for 115 VAC operation
- Variety of standard and custom tooling options
- Semi- and fully-automatic parts handling packages
- Options for one-touch front-loading access for smaller parts, Programmable Z-Axis of motion, and Circumferential marking packages offer functional versatility
- Full system programming with a single rack-mount PC
- VisualLaserMarker (VLM) software provides a full graphical user interface for generation and execution of marking jobs with multi-tasking capability on Windows® platform
- Work area lighting, and large laser-safe window allows viewing of the laser process while the door is closed

Drawings





System Components:

Class 1 Marking Enclosure with
PowerLine F or PowerLine E-Air Laser
Marker and Galvo Head.
PC Interface with Standard keyboard,
mouse, and 15" TFT display.

Dimensions:

Height with Laser and Door Lifted: 37.30"
Width: 27.00"
Depth: 37.00"

Technical Data

Laser	PowerLine F, Fiber Laser	PowerLine E Air Laser
Laser Type	Ytterbium Fiber Laser, 1065nm ±5nm.	Solid State Nd:YVO_4 Laser, 1064nm wavelength
Pulse Frequency	Programmable, 20 kHz to 80 kHz.	CW, Programmable, 0–200kHz
	For full Laser Specifications, see:	
	PowerLine F DataSheet	PowerLine E Air DataSheet
Facilities Requirements		
Electrical	115–230VAC, 50/60Hz., 1P/PE.	
Power	PowerLine F: 600W max., PowerLine E: 500W max.	
Cooling	Integrated Air Cooled systems require ambient temperature of 15°C–35°C (59°F–95°F), 10–95% humidity, non-condensing.	
Marking Head		
Beam Motion	Galvanometer deflection system.	
Focusing Optics	Precision flat-field lens.	
Marking field size	180 x 180 mm standard, or 120 x 120 mm option.	
Focal Length	254 mm standard, or 160 mm option.	
Control Systems		
Processor	Pentium class with 128 MB RAM and 10 GB hard disk for program storage	
Features	Serial/parallel. Host communication. Laptop user interface for control of laser, galvo and machine functions.	
Software		
General	VisualLaserMarker (VLM) Windows®-based Software for creating and editing mark layouts. User can choose from 7 languages: English, French, German, Italian, Spanish, Danish and Dutch.	
Options		
	• Mark field from 4.7" to 7.0" square (70–180 mm square). • One-touch front-loading access for smaller parts. • Circumferential marking package.	• Programmable or Manual Z-Axis motion. • Fume extractor. • Custom paint. • Bar code program and other input devices accommodated.

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