

# LASERSHARP<sup>®</sup>

# WORKSTATION SERIES

## LASERSHARP<sup>®</sup> WORKSTATION

***Laser cut, perforate, score, etch or ablate in a single station with the LaserSharp<sup>®</sup> WorkStation.***

LaserSharp<sup>®</sup> WorkStation gives you the affordable foundation you need to include laser processing in your manufacturing processes. The LaserSharp<sup>®</sup> WorkStation can be operated as a stand-alone, manually fed workstation or intergrated into roll-fed or sheet-fed systems, perfect for laser processing papers, plastics, and flexible materials. Take advantage of LaserSharp<sup>®</sup>'s versatility and precision in high-performance laser processing for your commercial print, label, industrial, electronic and medical material needs.

### **The Standard LaserSharp<sup>®</sup> WorkStation includes:**

- Standalone unit with a CO2 or fiber Laser Processing Module (LPM)
- Customizable material processing area – select from 30mm x 30mm to 600mm x 600mm
- CDRH Class I work enclosure—No special safety equipment required
- Water chiller to cool the laser during processing
- Connections to customer-supplied fume exhaust, power, compressed air, internet

### **System Options:**

- Adjustable process area change from 30mm x 30mm to 600mm x 600mm
- Multiple laser configurations:
  - Multiple lasers to increase throughput
  - Laser power from 30W through 400W
- Vision registration for high accuracy (x-y-θ)



### **Material Handling Options:**

- Servo-driven nip roll stations
- Sheet feeder with pick-and-place unload
- Servo-driven process conveyor
- Robot load/unload
- Dial table



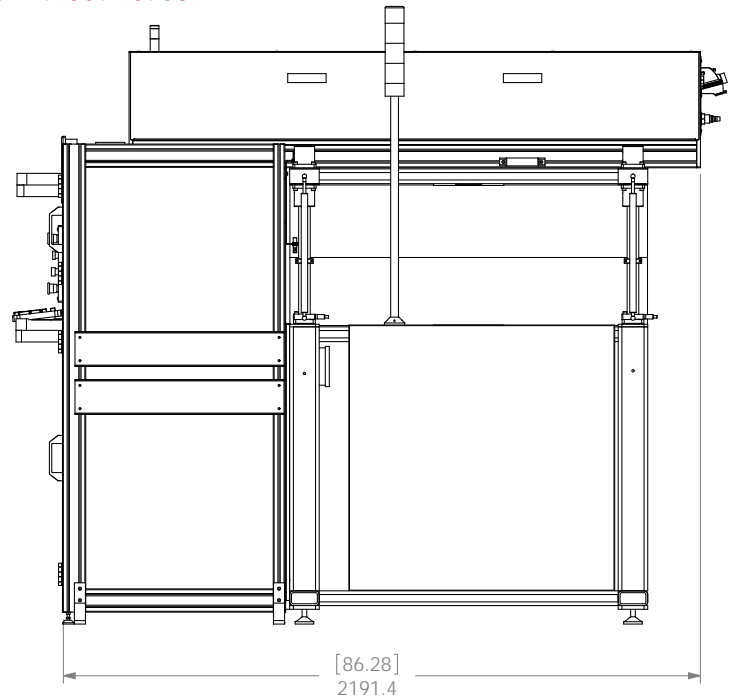
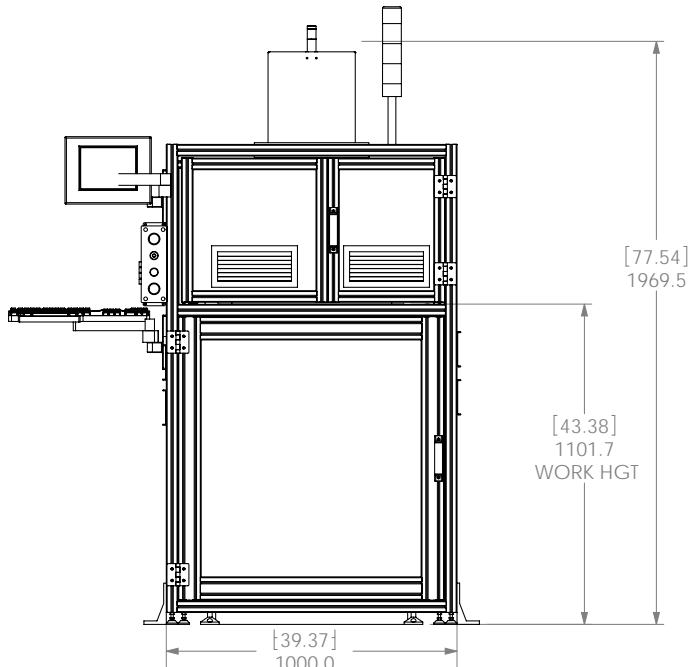
WorkStation	WS100	WS200	WS300	WS400
<b>Laser</b>				
Output Power	100 Watts	200 Watts	300 Watts	400 Watts
Power Range	10 to 100 W	20 to 200 W	30 to 300 W	40 to 400 W
Laser Wavelength (nominal)	9.4 / 10.25 / 10.6 micron	10.6 micron	10.6 micron	10.6 micron
Laser Type	Sealed CO <sub>2</sub> Diffusion Cooled	Sealed CO <sub>2</sub> Diffusion Cooled	Sealed CO <sub>2</sub> Diffusion Cooled	Sealed CO <sub>2</sub> Diffusion Cooled
<b>Physical Requirements</b>				
Module Size (LxWxH)	2191mm x 1000mm x 1969.5mm (86.3" x 39.37" x 77.54")	2191mm x 1000mm x 1969.5mm (86.3" x 39.37" x 77.54")	2191mm x 1000mm x 1969.5mm (86.3" x 39.37" x 77.54")	2191mm x 1000mm x 1969.5mm (86.3" x 39.37" x 77.54")
Module Weight	635 kg (1400 lb.)	635 kg (1400 lb.)	635 kg (1400 lb.)	635 kg (1400 lb.)
Electrical Cabinet Size (LxWxH)	915mm x 760mm x 305mm (36" x 29.9" x 12")	915mm x 760mm x 305mm (36" x 29.9" x 12")	915mm x 760mm x 305mm (36" x 29.9" x 12")	915mm x 760mm x 305mm (36" x 29.9" x 12")
Umbilical Length	7.6M (25ft)	7.6M (25ft)	7.6M (25ft)	7.6M (25ft)
<b>Electrical Requirements (module only, does not include chiller)</b>				
Voltage	200-240 VAC - 1 phase - 50/60 Hz	200-240 VAC - 1 phase - 50/60 Hz	200-240 VAC - 1 phase - 50/60 Hz	208-240 VAC - 3 phase - 50/60 Hz
Current	22 A	24 A	24 A	30 A
<b>Cooling Water Requirements</b>				
Heat Load	2.5 kW	3 kW	5 kW	8.6 kW
Water Type	90% Distilled Water 10% Optishield®	90% Distilled Water 10% Optishield®	90% Distilled Water 10% Optishield®	90% Distilled Water 10% Optishield®
Flow Rate	10 liters/minute (2.1 gpm)	8 liters/minute (2.1 gpm)	8 liters/minute (2.1 gpm)	12 liters/minute (3 gpm)
Water Temperature	Above Dew Point 20 to 25°C (68 to 77°F)	Above Dew Point 20 to 25°C (68 to 77°F)	Above Dew Point 20 to 25°C (68 to 77°F)	Above Dew Point 20 to 25°C (68 to 77°F)
Inlet Pressure	414 kPa (60 psi) max	414 kPa (60 psi) max	414 kPa (60 psi) max	414 kPa (60 psi) max
<b>Compressed Air</b>				
Air Flow	28 liters/min (60 CFH)	42 liters/min (1.5 CFM)	42 liters/min (1.5 CFM)	42 liters/min (1.5 CFM)
Air Pressure	550kPa (80 psi)	550kPa (80 psi)	550kPa (80 psi)	550kPa (80 psi)
Input Filtration	Dry & Oil Free - Non Condensing .01 micron 99.999% Efficiency	Dry & Oil Free - Non Condensing .01 micron 99.999% Efficiency	Dry & Oil Free - Non Condensing .01 micron 99.999% Efficiency	Dry & Oil Free - Non Condensing .01 micron 99.999% Efficiency

### Options

(contact LasX for additional information)

1. Material Handling Options
2. Control Options
3. Water Chiller / Heat Exchanger
4. Exhaust Plenum
5. Machine Vision (registration, Inspection)
6. Safety Certification

LasX follows a policy of continuous product improvement. Specifications are subject to change without notice.



The LASERSHARP® Processing Module can be integrated into new or existing slitter-rewinder or pouching lines.