LASERAX

SEMI-AUTOMATED LASER MARKER

ROTARY TABLE WORKSTATION

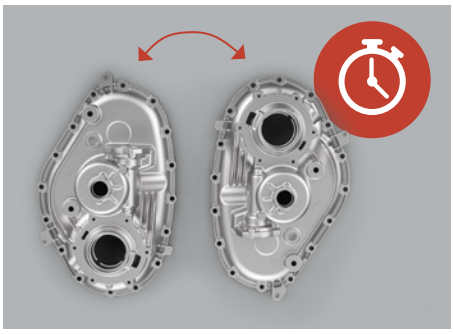
The Rotary Table Workstation is a semi-automatic 2-position laser marking machine using existing layout with operators. Equipped with an ultra-fast laser that deliver high contrast markings, it features a rotary table with manual parts loading onto fixtures for faster throughput.

Operators load and unload parts onto the fixtures while other parts are marked inside the rugged and 100% safe Class 1 enclosure. Once the marking is completed and code quality approved, the operator manually triggers a new marking cycle.

FEATURES AND BENEFITS

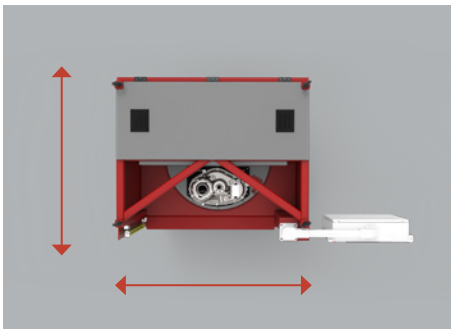
INDUSTRIAL GRADE

With an industrial grade robust machine welded steel frame design, the Rotary Table Workstation is a proven durable and reliable solution. It packs a heavy duty table indexer unit for years of maintenance free operation. The solution includes an industrial integrated electrical cabinet, PLC and laser head that can withstand dust and liquid (IP67).



MINIMAL IDLE TIME

Assisted by operator, the Rotary Table Workstation reduce idle time to minimum with its dual position laser marking rotary table. Continuous work is done as parts are loaded and unloaded during the laser marking process to optimize the operating time.



VERSATILE MOBILE UNIT

The powerful and flexible Rotary Table Workstation is a 100% safe laser machine that can be moved by hand, lift or crane with ease from one production line to another. With multiple fixtures for various part handling, it is built to maximize your manufacturing process efficiency.

GENERAL SPECIFICATIONS

	STANDARD ROTARY TABLE WORKSTATION
Laser Power	20 to 500 W
Laser Source / Wavelength	Fiber laser / 1064 nm
Laser Source MTBF	100 000 Hours
Marking Type	Standard, Engraving, Annealing
Typical Weight	875 kg
Cooling	Air Cooled
Power Requirements	120V, 230V, 240V / 15-40 AMP
Power Consumption	1.5 kW to 5.8 kW
Operating Temperature	10 to 45°C
Communication	Ethernet/IP, Profinet, Profibus
Multi-Parts	With Fixturing
Turn Table Diameter (Larger Diameter Available)	800 mm
Revolving Duration	3 s
Maximum Part Dimensions	Customizable
Part Temperature	Up to 400°C
Part Material	Aluminium, Zinc, Magnesium, Steel, Iron (All Metals)
Marking Surface Roughness (Positioning) Tolerance	Standard +/- 3 mm Engraving +/- 1.5 mm Up to +/- 70 mm with 3D Autofocus
Part Marking Post Process Treatment Resistance	Heat Treatment, Shot Blasting, E-Coating, Powder Coating, Shot Peening
General Dimensions	2100 mm x 1400 mm x 1200 mm

COMPLETE SOLUTION

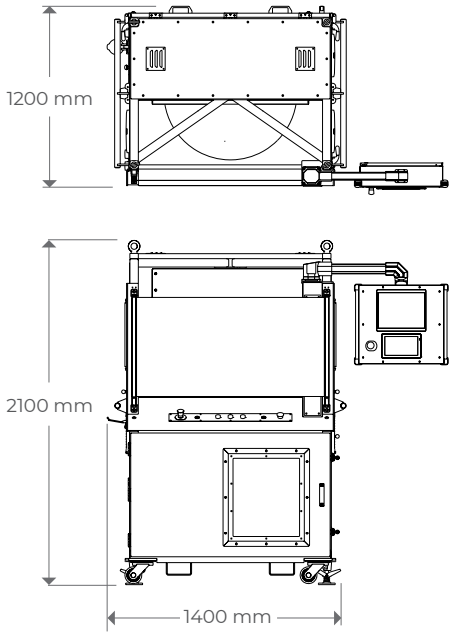
Laser

- 20 to 500 W Laser power
- 2D or 3D Laser for multiple part configurations

Station

- Class 1 Laser safe station
- Harsh environment rated
- Rugged welded steel construction
- Multiple part integrated jig racking available
- Integrated in IP66 control cabinet with cooling (IP54 AC or Vortex)
- Minimal footprint with integrated electrical cabinet and filtration unit
- PLC Controlled
- HMI control on swing arm available
- Safety light curtains for safe manual loading-unloading operations
- Safety PLC
- Air-knife unit for dust and contaminant protection (minimal lens maintenance)
- Code reading camera with quality metrics available
- Code reading interface screen available

TYPICAL DIMENSIONS



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INDUSTRIAL LASER SOLUTIONS FOR THE AUTOMOTIVE INDUSTRY

LASERAX HEADQUARTERS

101-2811 Watt Ave
Quebec, QC G1X 4S8
Canada
+1 418 780-7324

LASERAX USA

500 Grant ST #2900
Pittsburgh PA 15219
United States
+1 412 301-9957

LASERAX GMBH

Ferhrenheitdtraße 1
28359 Bremen
Germany
+49 421 2208-121