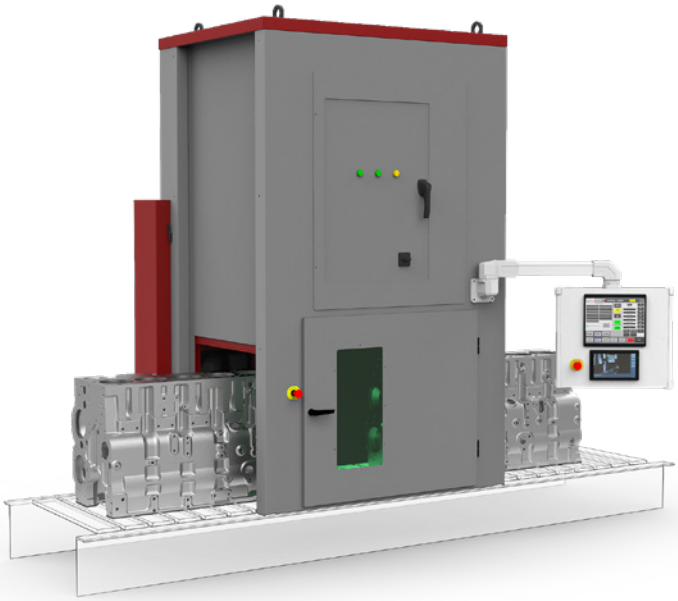
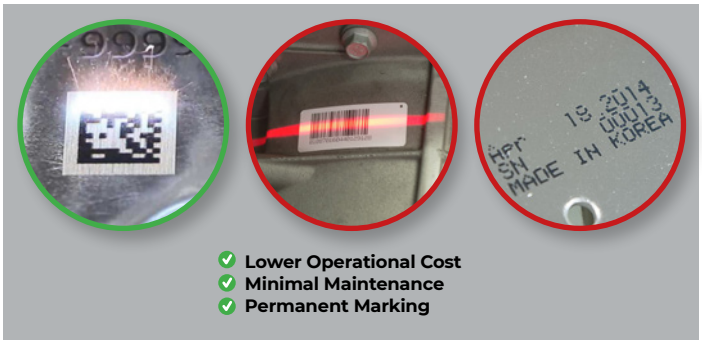
LASERAX

AUTOMATIC CONVEYOR MACHINE



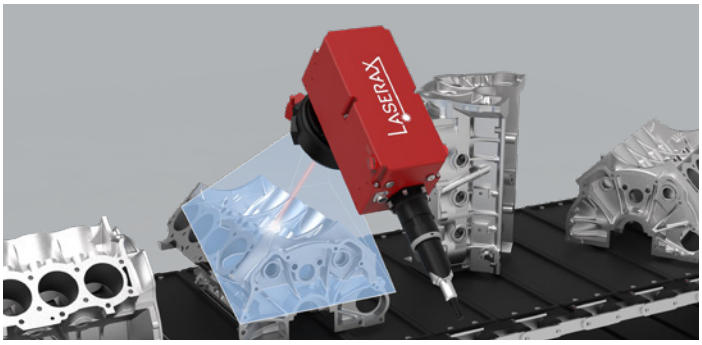
The Automated Conveyor Machine is an inline laser marking machine designed to apply permanent high definition labels on parts and ingots being process on conveyors. Parts can be marked either as they stop or on-the-fly. It is a convenient solutions when highly reliable serialization is needed or when you are looking for an alternative to costly consummables and maintenance.

This machine provides repeatable traceability as its embedded autofocusing system tolerates ± 70 mm part positioning precision. Typically, parts will be marked while another process is being conducted like weighting, quality control or bundling.



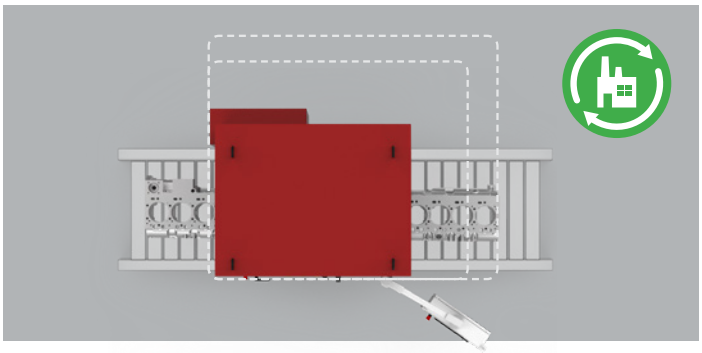
GETTING RID OF CONSUMMABLES

Conveyor systems typically lean on labeling and inkjet systems to apply serialization which are both associated to costly consumables and high maintenance. The use of laser marker is expected to lower operational expenditures as it runs on electricity alone and is well renowned for being highly reliable.



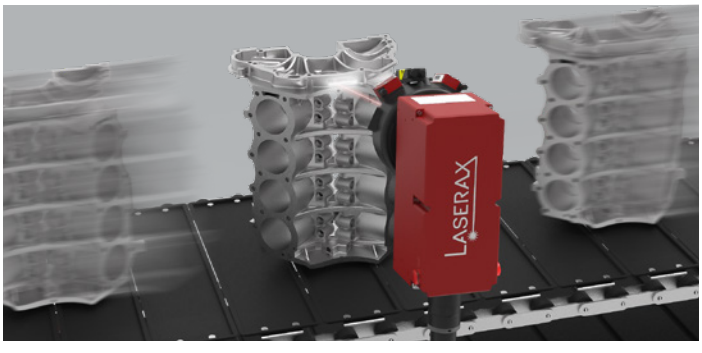
AUTOMATICALLY ADJUST TO PART POSITION

Parts on conveyors typically lack positioning repeatability. Our unique 3D profiling autofocus will automatically adjust the marking parameters in order to apply a perfectly etched laser label every time. For more flexibility, the laser marker head can be positioned at various angles such as 45 degree.



EASY TO RETROFIT

Our Automated Conveyor Machine is custom-sized to be retrofit in no time on any type of conveyor. Its PLC based communication allows for seamless integration within the manufacturing process and its elevated design was conceived to minimize the footprint on the production line.



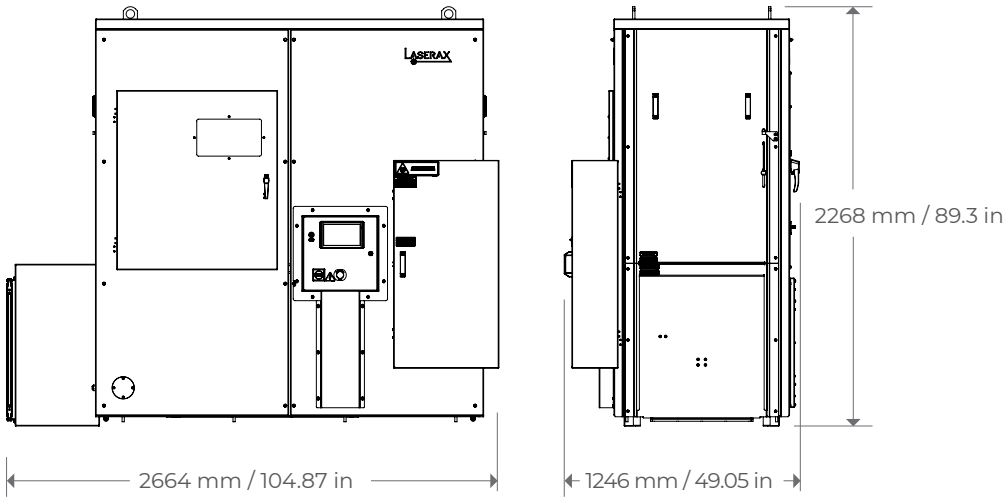
CAPABLE OF MARKING ON MOVING PARTS

Because sometimes you can't afford to stop the part to allow for static laser marking, the Automated Conveyor Machine has embedded mark-on-the-fly technology. Upon interfacing with an encoder signal, the laser mark is etched in motion with active compensation depending on the linear speed.

TECHNICAL SPECIFICATIONS

	AUTOMATIC CONVEYOR MACHINE
Laser Power	20 to 500W
Laser Type	Ytterbium-doped fi ber
Wavelength	1064 nm
Laser Source MTBF	100,000 hours
Marking Process	Etching, engraving, annealing
Typical Weight	660 kg
Cooling	Air cooling
Power Requirements	120V, 230V, 240V / 15-40 AMP
Power Consumption	1.5 kW to 5.8 Kw
Operating Temperature	10°C to 45°C
Communications	Ethernet/IP, PROFINET, Porfibus
Multi-Parts Marking	Yes, on static or moving parts, up to 45 deg anlge
Part Size	Adaptable
Part Temperature	Up to 450 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
General Dimensions (W x D x H)	1000 mm x 1400 mm x 2200 mm

TYPICAL DIMENSIONS



LASERAX

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