

ExactMark 210 TL

High-Performance Marking System with Automated Tray Loader

ExactMark 210 TL is a compact automated tray marking system designed to be used by many different industries to increase productivity on large batch sizes while cutting labor costs. The ExactMark 210 TL is based on the proven ExactMark platform with a modularized tray loader to accommodate both magazine or stack-type (e.g., JEDEC) trays, and optionally a micro 6-axis robot for part handling. It is intuitive to program and operate thanks to the Laser FrameWork software package.

ExactMark 210 TL is available with a wide choice of lasers (1064/532/355 nm) and accessories, such as PartVision (pre/post inspection vision system) and a barcode reader that simplifies high volume applications.



FEATURES

- Available with Power Line E, PowerLine E Air, and PowerLine F lasers
- Optimized marking field sizes for standard trays, e.g., JEDEC
- Simple user interface for creation of recipes and job execution
- Available with stack type or magazine-type tray loading
- PartVision (TTL vision system) simplifies automated part alignment and post inspection
- Various fume extraction systems available as an option for process conditions
- Micro 6-axis robot for part handling (flipping parts / picking-up parts) with vacuum cup or gripper

APPLICATIONS

- Medical Devices and Instruments
- Machine Tools
- Consumer Goods
- Electrical Components

Specifications		ExactMark 210 TL
Size and Weight		
Width without Monitor Arm with Monitor Arm (max.)		1130 mm (44.49 in.) 2109 mm (83.03 in.)
Depth without Rear Extension		1296 mm (51.02 in.) 1599 mm (62.95 in.)
Height including Signal Pillar with Open Front Door		2167 mm (85.31 in.) 2250 mm (88.58 in.)
Weight (max.)		525 kg (1157.42 lbs.)
Area Necessary		
Width		2200 mm (86.61 in.)
Depth		1600 mm (62.99 in.)
Height		~2500 mm (98.43 in.)
Area (m ²)		3.5
Positioning Linear Axis		
Z Axis		300 mm (11.81 in.)
Tray Loader Feeder		637 mm (25.08 in.)
6-Axis Robot Reach at Wrist Center		260 mm (10.24 in.)
Maximum Weight of Work Piece		
Max. Weight of Work Piece per Tray		800 g (1.76 lbs.)
Max. Weight of Work Piece in Stack/Magazine		9 kg (19.84 lbs.) on stack of trays
Payload of Robot		500 g (1.10 lbs.) including end effector
Environmental Temperature		
Temperature Working Storage		25 °C ±10 °C (77 °F ±50 °F) 5 °C to +40 °C (41 °F to 104 °F)
Environmental Conditions		Not condensing, not corrosive, not freezing
Electricity		
Input Fuse (A)		16
Nominal Voltage (V)		110/230 (±10%), (1P/N/PE)
Nominal Frequency (Hz)		50/60, neutral conductor loaded
Max. Power Input (kVA)		1.4 (at 50 Hz) without laser
Supply Line		IEC-320-C19 to NEMA 5-15P (110V) 2 pin CEE 7/4 plug/type F;3X1.5mm ² (P/N/PE) (230V)
Noise		
Noise [dB (A)] (acoustic field on workplace)		<70 (including optional fume extraction system)

Specifications		ExactMark 210 TL
Pneumatic Provision		
Media		Filtered compressed air, not oily
Working Pressure (max.)		6 bar
Temperature Range		-10°C to +60°C (14 °F to 140 °F)
Connection Diameter (mm)		6
Laser Safety Class		
		Laser Safety Class 1 according to EN(IEC) 60825-1:2014
Working and Storage Conditions		
Load of floor (kg/m ²)		1312
Free Space to Backside (m)		0.3 (for ventilation)
Transport Height (m) (min.)		2.5
Room Height (m) (min.)		2.5
Machine Location		No direct solar radiation Not to be placed next to heating sources No variation of temperatures in a sider area No area of extreme dust No area of vapors of oil-, solvent- or cleaning stuff Machine is not permitted to be operated in explosive area

STACK-TYPE OR MAGAZINE-TYPE TRAY LOADING



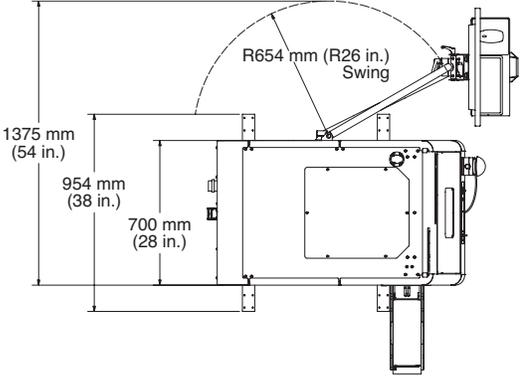
Photo and trays courtesy of RH Murphy company.

Available with standard thin/thick JEDEC trays or customized JEDEC trays.

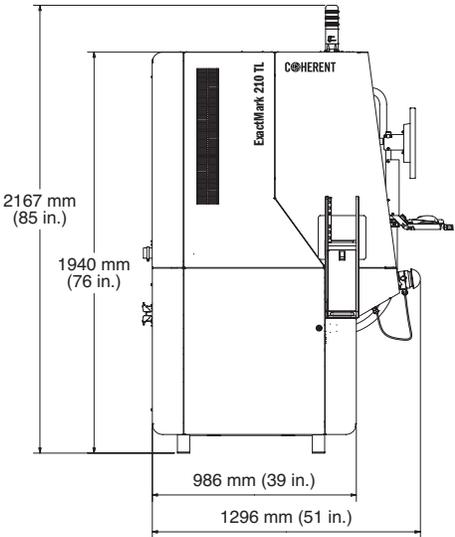
Mechanical Specifications

ExactMark 210 TL

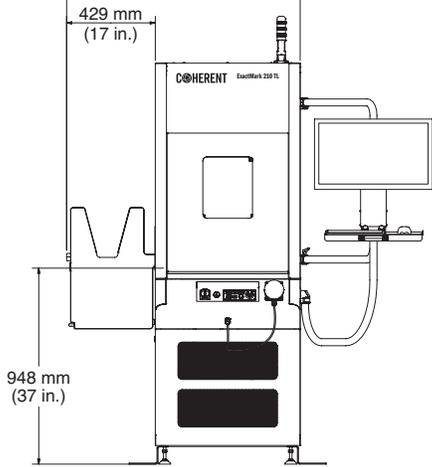
Top View



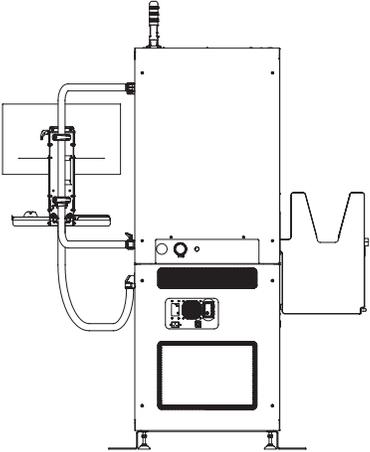
Side View



1129 mm (44 in.)



Rear View



Front View