

# 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. It is very easy to program and operate thanks to the Laser FrameWork software package.

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

## Advantages

- Available with PowerLine E Air, 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

## Applications

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



## SPECIFICATIONS

### ExactMark 210 TL

#### SIZE AND WEIGHT

Width	
without Monitor Arm	1129 mm (44.45 in.)
with Monitor Arm (max.)	2209 mm (86.97 in.)
Depth	
without Rear Extension	1296 mm (51.02 in.) 1599 mm (62.95 in.)
Height	
including Signal Pillar	2170 mm (85.43 in.)
with Open Front Door	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 <sup>2</sup> )	3.5

#### POSITIONING LINEAR AXIS

Z Axis (mm)	80 mm (3.15 in.)
Tray Loader Feeder	637 mm (25.08 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

#### ENVIRONMENTAL TEMPERATURE

Temperature	
Working	25 °C ±10 °C (77 °F ±50 °F)
Storage	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 <sup>2</sup> (P/N/PE) (230V)

#### NOISE

Noise [dB (A)] (acoustic field on workplace)	<70 (including optional fume extraction system )
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## SPECIFICATIONS

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#### 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 <sup>2</sup> )	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.

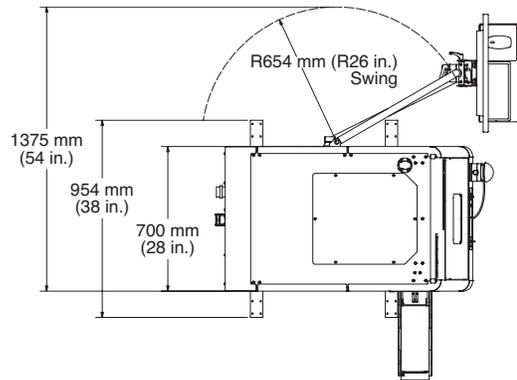
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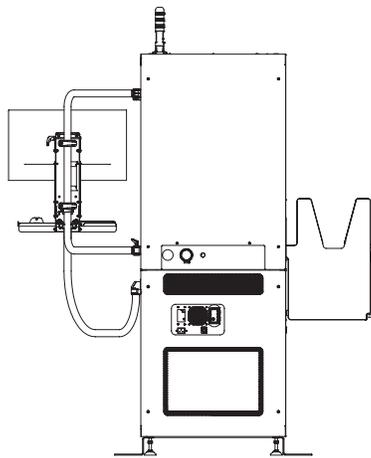
## MECHANICAL SPECIFICATIONS

ExactMark 210 TL

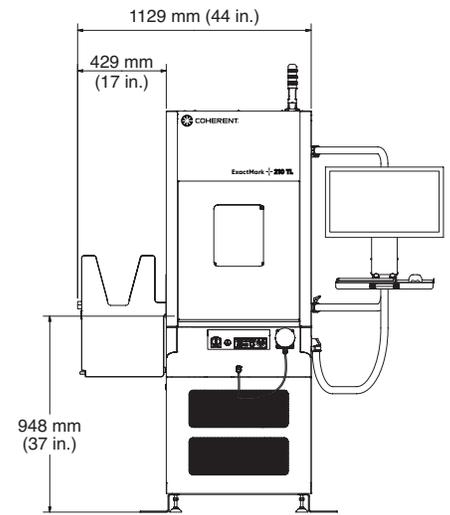
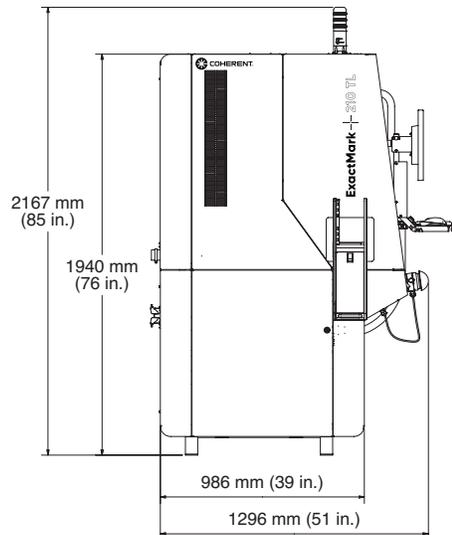
Top View



Side View



Rear View



Front View



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Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice. Coherent's scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976.

Coherent offers a limited warranty for all ExactMark 210 TL Laser Marking Systems. For full details of this warranty coverage, please refer to the Service section at [www.Coherent.com](http://www.Coherent.com) or contact your local Sales or Service Representative.

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