Auto Door/Start

Technical Brochure

Automated Cycles for Dot Peen, Scribe, and Laser Marking

When seconds count and minutes matter.

Automated start features are simply a must for production manufacturing. The standard method to start the marking process for either the I-Mark or CMT Eclipse marking software is to use a Windows mouse and select the marking icon, followed by an additional mouse click to start the process. This process is only seconds, but for repetitive production marking it adds up to minutes.

Compatible Systems

- I-Mark M and MS Series - auto start
- I-Mark C series - auto start
- CMT Eclipse LE16 Compact - auto door/start
- CMT Eclipse LE16HD Robot Station - auto door/start included
- CMT Eclipse LE24 Round - auto door/start
- CMT Eclipse LE48 Large Bed - auto door/start
- CMT Eclipse LER Rotary Turn Table - auto door/start included
- CMT Eclipse Tunnel Automated Conveyor - auto door/start included

Figure 1 - Automated start feature for CMT Eclipse includes reset, and emergency stop.

Simple Autostart – M and MS Series

The I-Mark benchtop moderate production marking machine the M and MS Series have a simple start button optional upgrade. This economic investment of under $300 achieves its net return very quickly based on the daily production rates (see table below).

Part Number: IM-MSTART- cycle start button. Eliminates the need for a mouse selection for the start of the marking cycle. The addition of the cycle start part saves steps and makes production marking simple.

ROI Calculation

This calculation is based on a savings of 3 seconds per part, and $80 per hour labor.

Investment in start button for M or MS Series

Parts per Day	Minutes per day Saved	Days for ROI
100	5	45
500	25	9
1000	50	4.5

The CMT Eclipse laser marking machines have a door that is opened to load and unload parts. CMT offers a time savings option that combines the automated door and automated start feature. This investment of under $3000 (for LE16 or LE24) achieves its net return very quickly based on the daily production rates (see table below).

Part Number:

- LE16AD for LE16 compact

- LE24AD for LE24 round

- LE48AD for LE48 large bed

The combination automated door, and cycle start also includes the reset and emergency stop. This eliminates both the need to close and open the door and use a mouse selection for the start of the marking cycle. The addition of the cycle start part saves steps and makes production marking simple.

ROI Calculation

This calculation is based on a savings of 6 seconds per part, and $80 per hour labor.

Investment in auto/start button for CMT Eclipse LE16 orLE24

Parts per Day	Minutes per day Saved	Days for ROI
100	10	206.2
500	50	41.24
1000	100	20.62

Investment in auto/start button for CMT Eclipse LE48

Parts per Day	Minutes per day Saved	Days for ROI
100	15	237
500	75	47
1000	150	24

For LE48 - 9 seconds - because of 2 doors
Cost $4,750

C Series Automated Options

The I-Mark C Series are all custom designed marking machines. These custom marking systems may have extra-long axis, up to 8 axes, conveyors, turntables, custom HMI and application required components. The C Series most likely will include the automated start, reset, and emergency stop. The style will be dependent on the design.

Example A – Low volume multi-axis machine designed with automated start feature to require operator to be outside of light curtain and away from pinch point for machine marking cycle.

Example B – Marking system in robotic cell has station automation override on the marking HMI.

Example C – High volume conveyor system requires operator to load a batch and then cycle the conveyor when outside of the light curtain and the conveyor.