LE16 Eclipse Laser Enclosure: Features

Compact design for manually loaded and unloaded marking applications

Laser Marking Head – customer to mount in this position. CMT does not ship together due to chance of damage in shipping

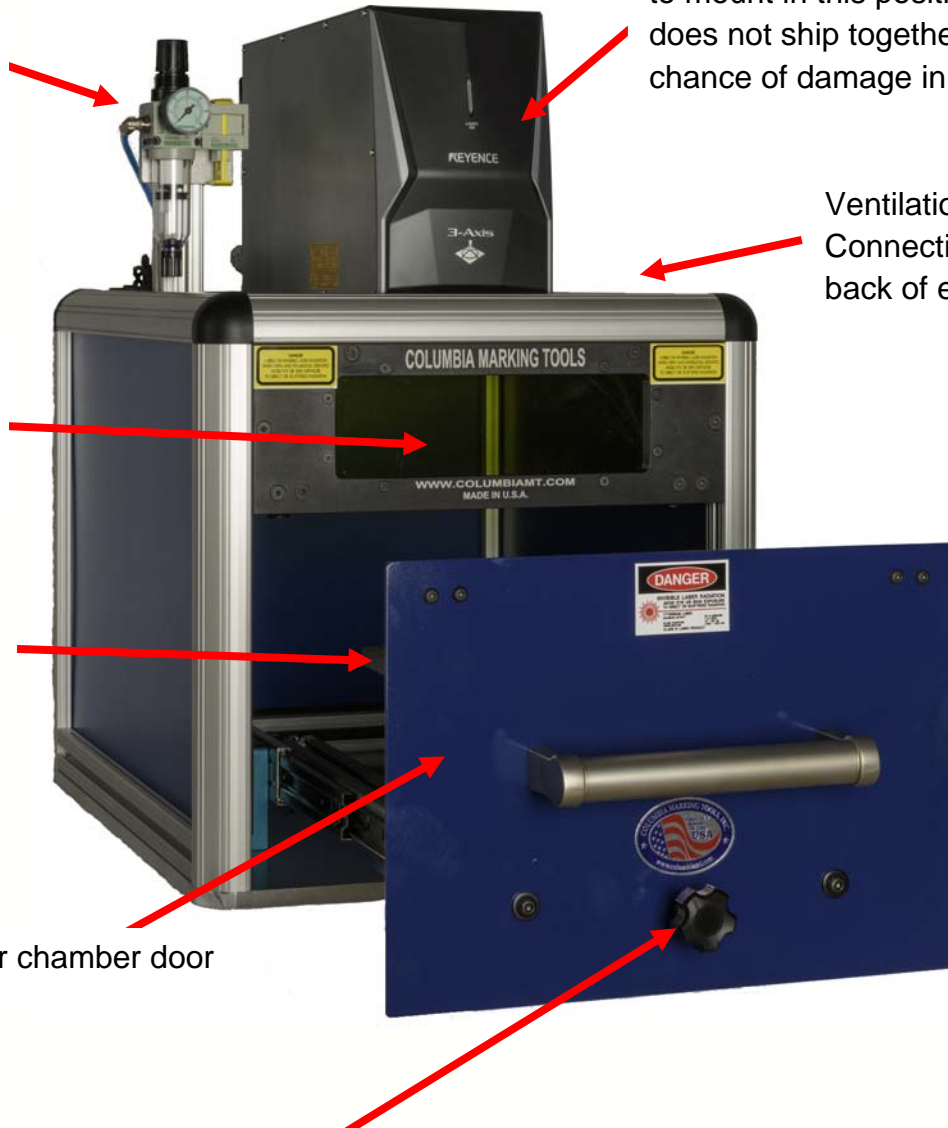***FRL Unit for Automated Door** – Air Connection

Ventilation Connection port on back of enclosure

Operator viewing window – with laser safe material

Fixture Breadboard mounting table

Interlocked laser chamber door

Fixture Height Adjustment

*Upgrade option
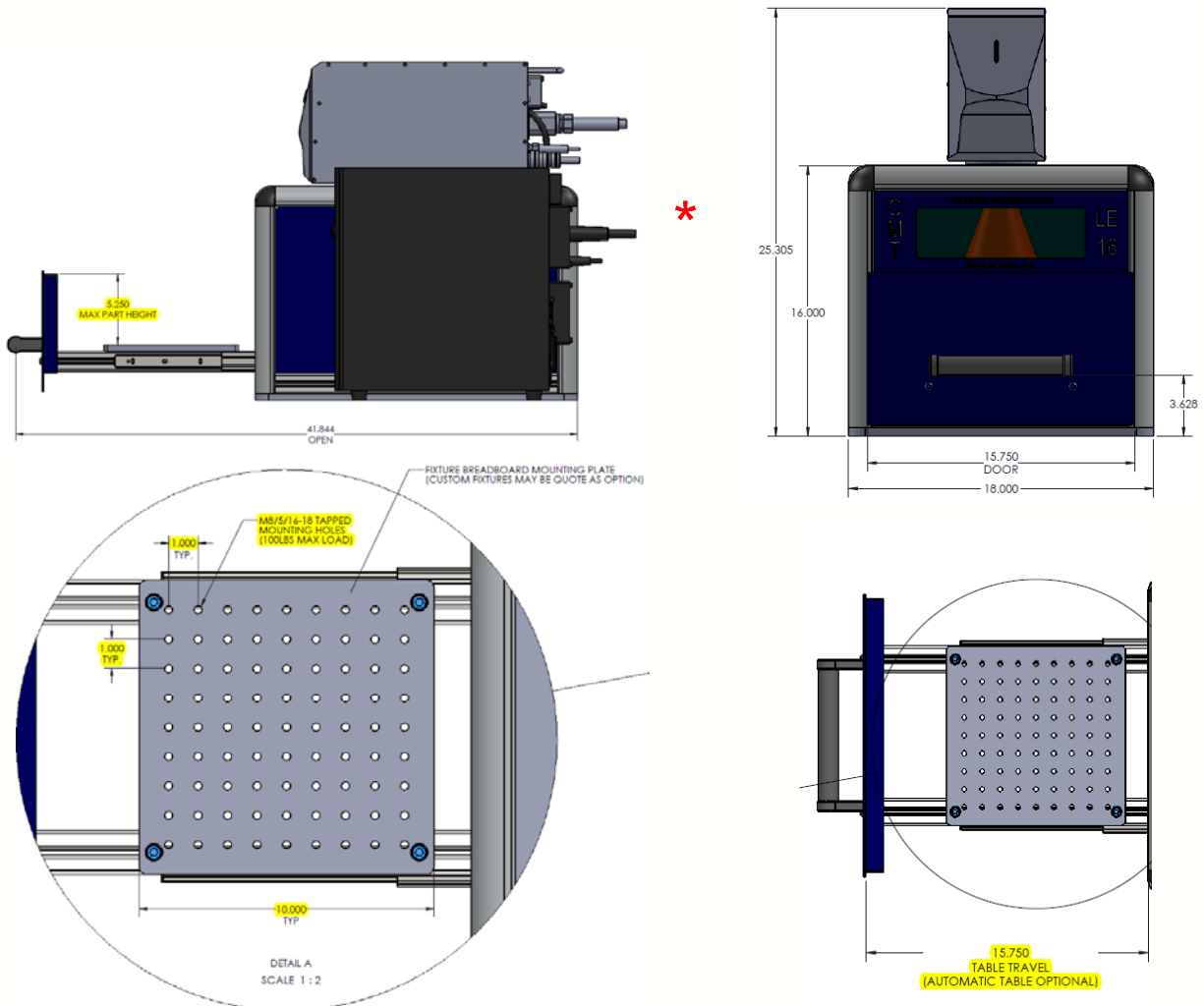
LE16 Eclipse Laser Enclosure: Dimensions

The CMT LE 16 Laser enclosure dimensions are 18x24x18 (W X D X H) Work table 10" x 10" with 5" adjustment height range and weight 96 pounds

Class 1 Certified CDRH Standards

Key Features

• **Light Tight Enclosure**	• Auxiliary Fume Extractor Port
• **Large Viewable Safety Glass**	• Fixture Breadboard Mounting
• **Drawer Door with Integrated Safety Lock**	• Adjustable Fixture height
• **Laser Mounting plate**	• Indicator Status Light

*Varies based on laser Mfg. and Model

5.250 MAX PART HEIGHT

41.844 OPEN

*

25.305

16.000

3.628

15.750 DOOR

18.000

FIXTURE BREADBOARD MOUNTING PLATE
(CUSTOM FIXTURES MAY BE QUOTE AS OPTION)

M8/5/16-18 TAPPED MOUNTING HOLES
(100LBS MAX LOAD)

1.000 TYP.

1.000 TYP.

10.000 TYP

DETAIL A
SCALE 1 : 2

15.750
TABLE TRAVEL
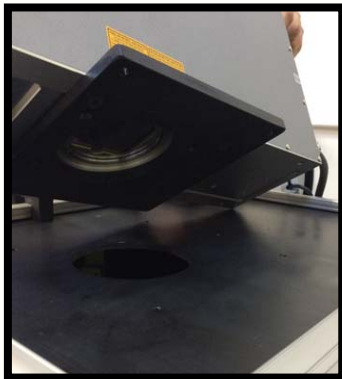(AUTOMATIC TABLE OPTIONAL)

www.columbiamt.com

LE16 Eclipse Laser Enclosure: Installation

To the left LE16 shown without the laser mounted.

Even if the laser is not provided, CMT includes the mounting plate and hardware.

NOTE ABOUT THE MOUNTING PLATE

The Mounting plate hole pattern is dependent on the model of the laser. Please provide the Make and Model of the laser being used upon placement of order of LE16.

1. **To position the mounting plate. Line up the (4) holes on the plate with the holes on the top of the enclosure**
2. **Use the provided M6 screws to fasten the laser to LE16 enclosure.**

**If the laser is not sent in to CMT you will have to attach the mounting plate to the laser prior to mounting to the enclosure.
CMT will provide the mounting hardware from adaptor to laser enclosure.
Customer is responsible for mounting adapter to laser.

1. Connect the communication cable from the junction box to the back of the laser controller. Each cable will be labeled with a number that will match the numbers on your purchased laser wiring diagram

Safety circuit connection wires that control +24v, Ground, warning output, ready output, marking complete, com out, trigger input, encoder input error reset, remote interlock input and shutter control input.

Plug the power cord into your 110v power source.

*Additional power requirements may be required depending on the purchased laser.

LE16 Eclipse Laser Enclosure: Options

- **Auto Open/Close** Machine to automatically close and open drawer after completion of successful marking cycle. Includes:

- Upgrade to cycle start with estop, FRL valve Recommended air PSI 15-20, Hose size 3/8 Min ID.

- **Machine Base** Machine Base with access door and storage. Choice of leveling feet or industrial casters

- **Fume Extractor**

- **Turn Key Industrial PC** IMPC Windows 7 Pro, Monitor 17" Keyboard with integrated mouse Keyboard shelf All components to mount system to Machine base

- **Custom Fixturing** Master Fixture plate with adjustable design and positive part stop

FRL-compressed air in.

Cycle start with E-Stop

MOUNTING FOR LASER CONTROL

SHOWN WITH LE16 SERIES CABINET

OPTIONAL CYCLE START WITH E-STOP

ACCESS DOOR

HEAVY DUTY ADJUSTABLE LEVELING FEET

OPTIONAL FUME EXTRACTION SYSTEM