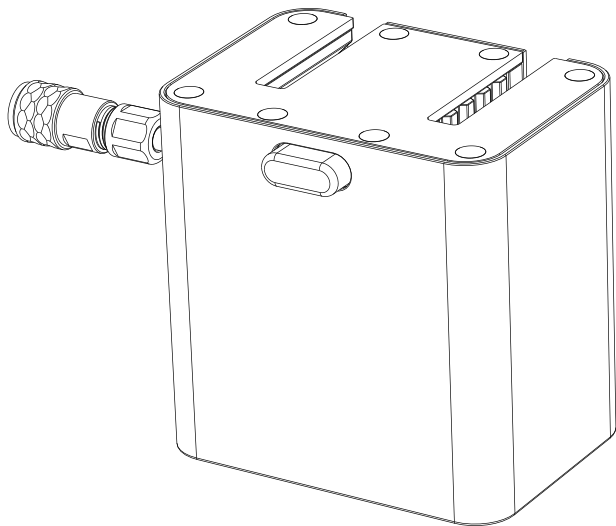


NestWorks

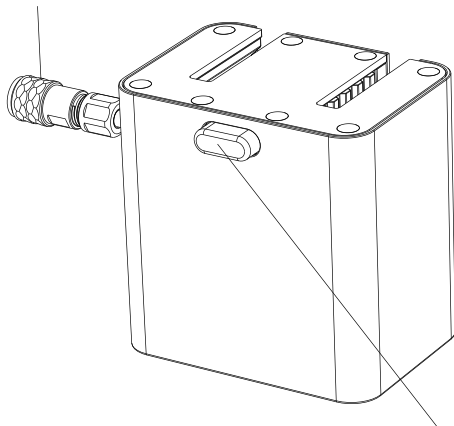
Laser Module User Guide



Laser Module

Waterproof Cable

Machine Communication

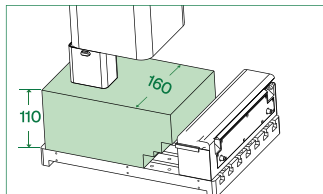


Quick-Release Button

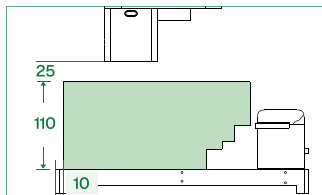
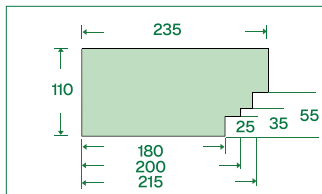
Laser Module Installation/Removal

This 5 W laser module is used for laser engraving. It is suitable for processing materials such as solid wood, bamboo, leather, cardboard, and coated metal.

■ Machining Range



(A)



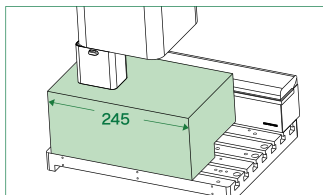
(B)

Maintain a 25 mm distance between the laser module and the workpiece during machining.

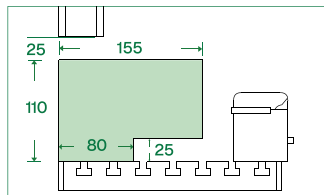
A) Tool Magazine Longitudinally Mounted

B) Front View

■ Machining Range



(C)

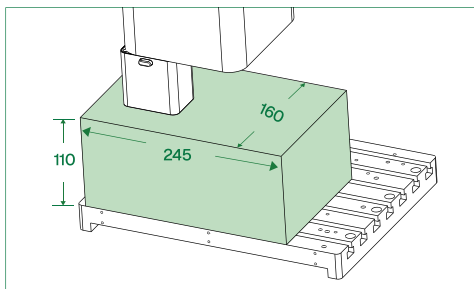


(D)

C) Tool Magazine Transversely Mounted

D) Right View

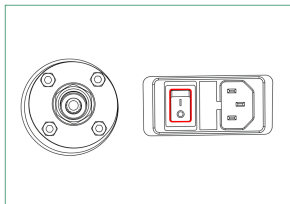
■ Machining Range



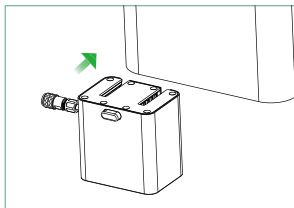
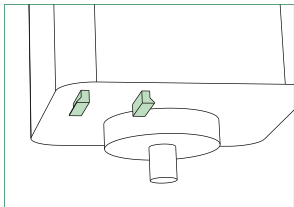
(E)

E) Without Tool Magazine

■ Installation



(1)

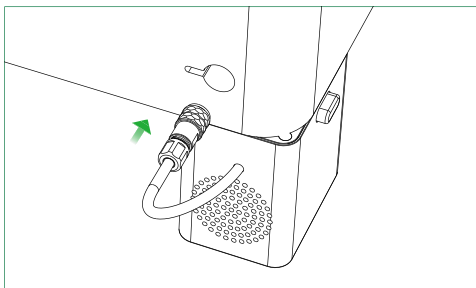


(2)

Power off the machine before installation or removal. Hot plugging may damage the machine's internal circuits..

- 1) Power off the machine.
- 2) Press and hold the button, then slide the laser module into the corresponding slot on the side of the spindle.

■ Installation



(3)

3) Insert the laser module connection cable into the port on the left side of the spindle.

Various fixtures or double-sided tape can be used to position the workpiece for laser machining.

■ Laser Processing Setup

Power on the machine and enter the system interface. Set parameters such as laser power, focal length, and engraving speed, according to the material and processing requirements.

Manually adjust the laser module position to align the laser focus with the workpiece surface. After adjustment, perform a small-area test engraving to check engraving clarity and depth before starting formal machining.

⚠ Danger

- The laser module generates high temperatures and high-intensity laser radiation during operation. Do not look directly into the laser emission port. Always wear dedicated laser safety goggles during operation.
- When processing flammable or explosive materials, take fire and explosion prevention measures in advance and prepare fire extinguishing machine on site.

■ Check the Equipment Appearance

Caution

- Before use, ensure the laser module is mounted securely without looseness or deviation to prevent machine vibration from affecting engraving precision.
- Clean the surface of the focusing lens regularly using a dedicated cleaning cloth. Do not scrape the lens with hard objects to avoid damage.
- If the laser module fails to start, shows abnormal laser output, or has poor electrical contact, stop the machine and disconnect the power immediately. Contact professional personnel for maintenance.

Note

- Turn off the machine power when the laser module is not in use for an extended period. Avoid impact or dropping during transportation.



<https://docs.worksbase.com/en/home>

Visit the official NestWorks Wiki for more detailed
machine usage tutorials.

