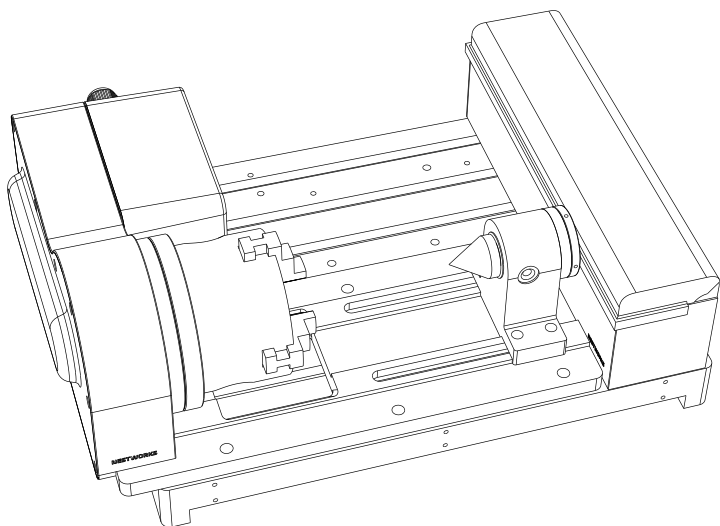


NestWorks

4th-Axis User Guide



■ 4th-Axis

Waterproof Cable

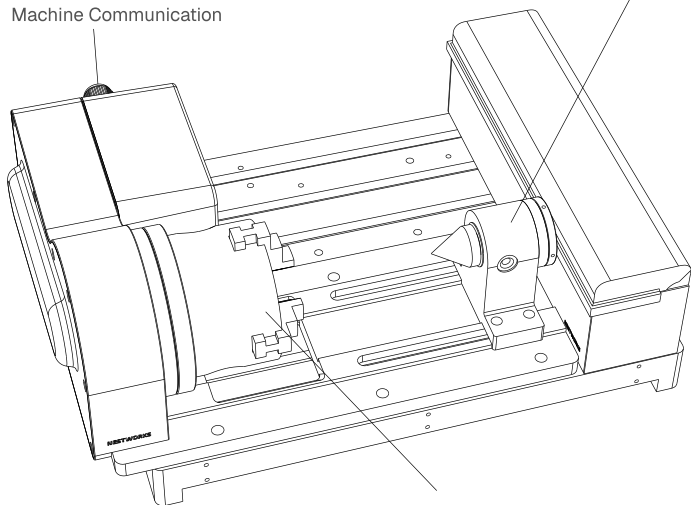
Machine Communication

Tailstock Center

Workpiece Support

Self-Centering Four-Jaw Chuck

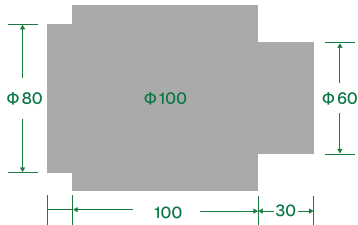
Workpiece Clamping



■ 4th-Axis



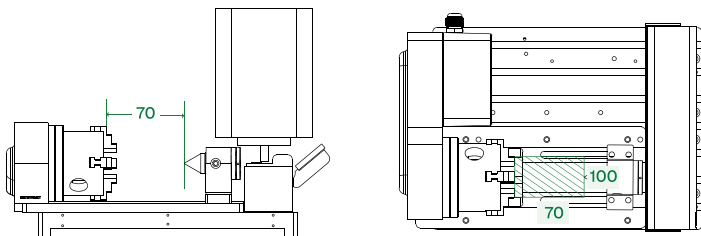
(A)



(B)

- A) Maximum Machinable Dimensions (Tool Magazine Placed Transversely)
- B) Maximum Machinable Dimensions (Tool Magazine Placed Longitudinally)

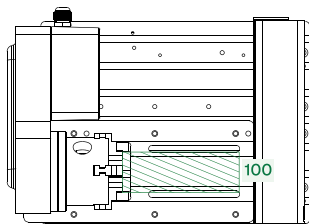
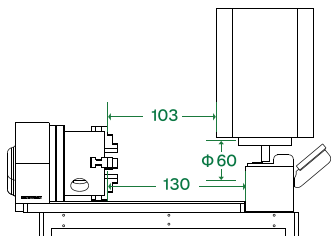
■ Positioning



(A)

A) The most common installation method.

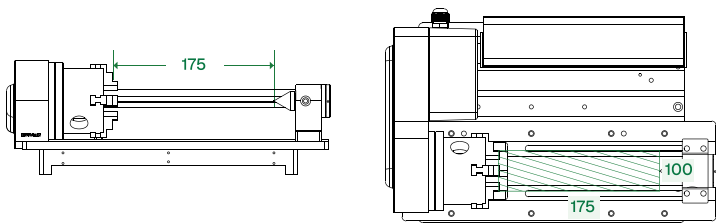
■ Positioning



(B)

B) Remove the tailstock center for a slightly longer machining range. Be aware that this increases the risk of workpiece deformation.

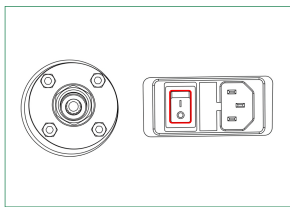
■ Positioning



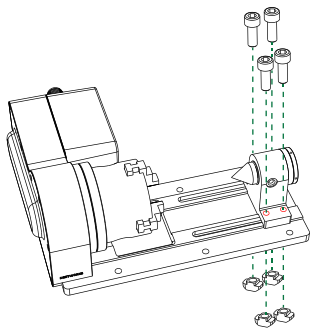
(C)

C) If a longer machining range is required, position the tool magazine transversely as shown and use the extension plate.

■ Installation



(1)

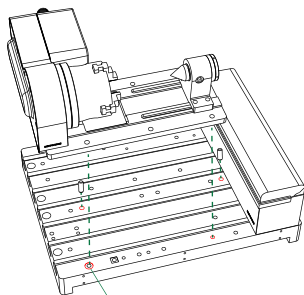


(2)

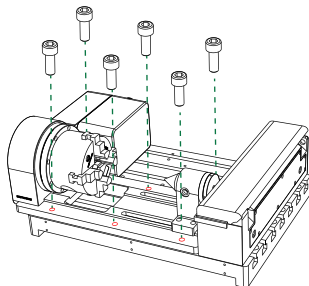
Power off the machine before installation or removal. Hot plugging may damage the machine's internal circuits.

- 1) Power off the machine.
- 2) Pre-install the tailstock center assembly on the 4th-Axis base plate.

■ Installation



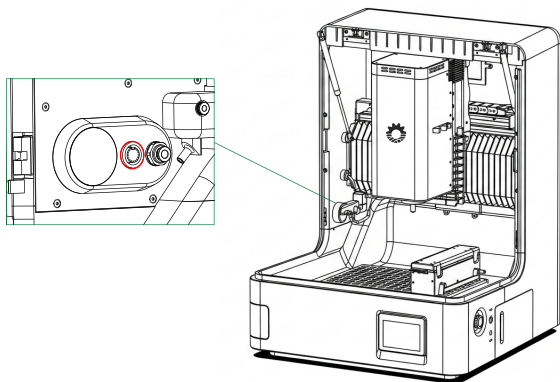
(3)



(4)

- 3) Insert two $\Phi 6 \times 20$ locating pins into the locating holes. Align the 4th-Axis assembly's lower-left hole with the hole marked 4th-Axis.
- 4) Secure the base plate with six M6 $\times$ 18 hex socket screws.

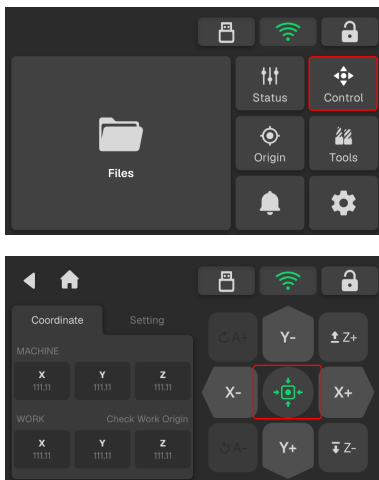
■ Installation



(5)

5) Connect the plug to the signal connector. **Do not plug or unplug it while the machine is powered on.**

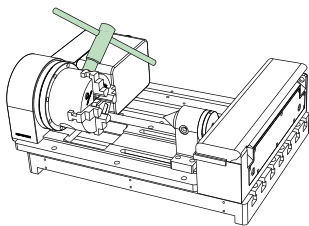
■ Installation



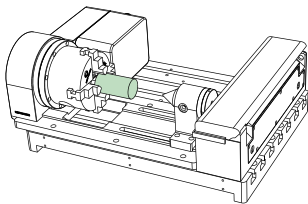
(6)

6) Power on the equipment or release the **E-Stop**. Close the protective cover and click **Home Reset**.

■ Loading



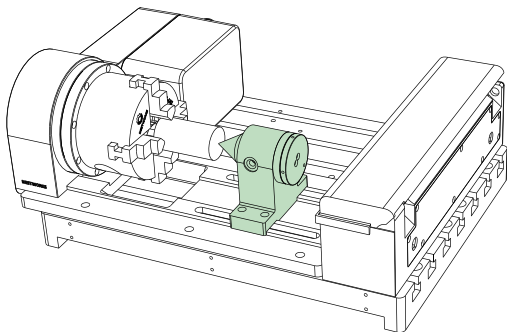
(1)



(2)

- 1) Use the wrench to loosen the chuck.
- 2) Place the workpiece blank into the three-jaw chuck. Tighten the chuck with the wrench to secure the workpiece blank.

■ Loading



(3)

3) After securing the workpiece blank, move the tailstock center to the opposite end of the workpiece for support. Tighten the tailstock center screw to complete workpiece clamping.



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

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

