

QUICK REFERENCE GUIDE



NTA-X1

Important Note



Red switch at the top of the control is an ON/OFF switch - NOT an emergency stop button.

Step 1: Powering On the Control

1. Plug in the control using the USB port.
2. Depress the red ON/OFF switch by turning it to release (located at the top of the control).
3. The control will activate in whatever function it is set at.
4. Make sure you are in DRO mode Figure A-6 at bottom of page and not Program mode.

Step 2: Understanding the Control Features

1. Joystick Functionality

- The joystick is only active when no axis (X, Y, or Z) is selected on the left rotary axis selector knob.
- The movement speed using the joystick - or the two metal buttons on the side - is determined by the current machine feed rate.
- pressing the joystick in gets you in and out of jog mode with the control.

2. Z-Axis Side Buttons

- Located on the right side of the control:
- Top Button (closest to the red ON/OFF switch) = Z Up (Z positive)
- Bottom Button = Z Down (Z negative)

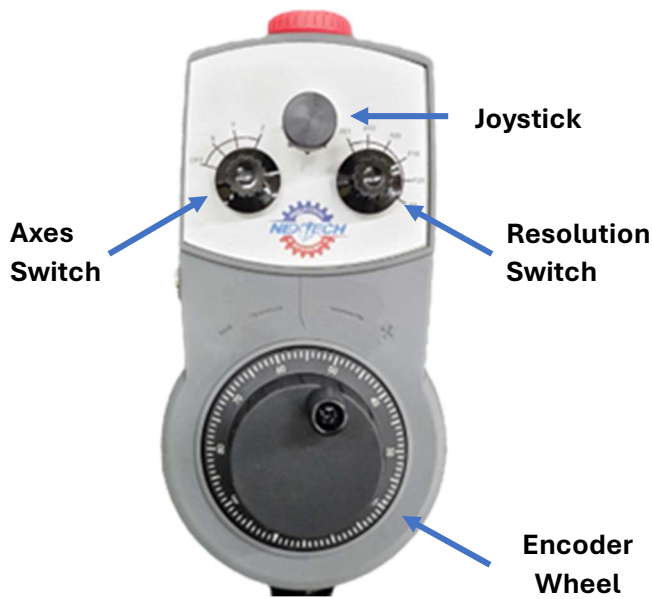


Figure A-1



Figure A-2

3. Axis Selection and Resolution Control

- Select an axis (X, Y, or Z) using the axis switch knob on the left. (**Figure A-1**)
- With an axis selected, use the resolution switch to move the machine in precise increments:

<i>Resolution Mode</i>	<i>Increments per Click</i>
.001	0.001 inches
.010	0.010 inches
.100	0.100 inches

4. Continuous Jog Mode

- When one of the feed rate options is selected (F10, F25, or F50), the machine will jog continuously at that rate and update in the Feed Rate display window (**Figure A-6**):

<i>Feed Rate Option</i>	<i>Speed</i>
F10	10 inches per minute
F25	25 inches per minute
F50	50 inches per minute

With one of these feed rates active, you can:

1. Use the resolution encoder wheel to jog continuously along the selected axis.
2. Turn off axis selection (switch knob to off), use the joystick or Z-axis side buttons to move the machine at the same selected feed rate.

Figure A-3 displays all available options for incremental or continuous jog movements:

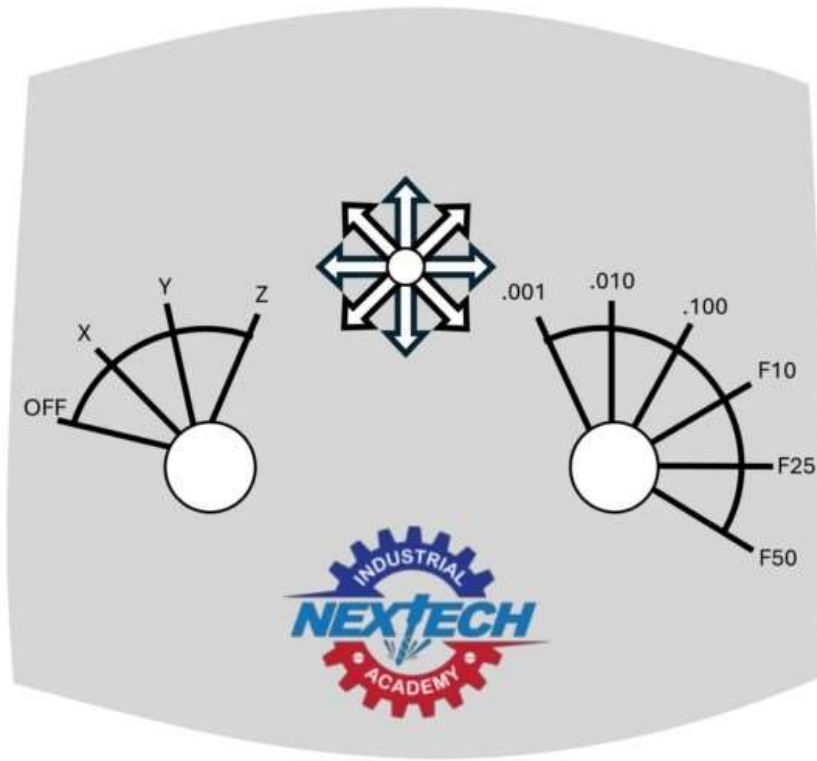


Figure A-3

5. Datum Zero Function

- The convex chrome button located on the side of the pendant is the "Datum Zero" button.
- When you are not in axis select mode and have navigated to the Datum screen, you can use this button to zero any axis (X, Y, or Z).
- To zero an axis:
 1. Enter the Datum screen (**Figure A-4**) using the pendant controls.
 2. Use the joystick to scroll and highlight the desired axis.
 3. Press the Datum Zero button - that axis will immediately be set to zero.



Figure A-4

**Datum
Zero
Button**



Figure A-5



Figure A-6