

# WIDECURE<sup>®</sup> Conveyor Quick Start Instructions

## Unpacking Instructions

**CAUTION!** Personal protective equipment is recommended when handling the heavy wooden crate panels.

Your WIDECURE Conveyor will arrive in a wooden shipping crate. The shipping crate is assembled using a combination of Phillips-head screws and nails. A powered screwdriver, a hammer, and a crowbar will be needed to unpack the crate.

1. Carefully remove the top lid of the crate and move it to a safe area.
2. Once the top lid is removed, remove the 4 side walls and move each panel to a safe area.
3. Remove the plastic banding that is wrapped around the conveyor system.
4. Temporarily remove the 4 blue corner trim pieces. They are magnetically attached and could come loose during movement.
5. Remove the lower front and rear bottom panels to gain access to the forklift pockets.



Figure 1. Front and Rear Panels - Remove for Forklift Access

6. Remove the 4 lag bolts that are holding the machine onto the crate.
7. A trained forklift operator should lift the machine with a forklift and move the conveyor to its permanent location.

**CAUTION!** The machine weighs approximately 1,200 lbs. Exercise all safety precautions and ensure the forks are seated sufficiently so the machine will not tip when lifted.
8. With the conveyor in place, adjust the leveling feet so the conveyor bed is level and the conveyor does not rock on the floor. If the conveyor will be bolted to the floor, this is the time to secure it into place using the lag bolt holes attached to each corner of the frame near the leveling feet.
9. Reattach the front and rear panels as well as the four blue magnetic corner trim pieces.
10. Connect your exhaust. Consult “Exhaust Connection Requirements” on page 2 for instructions on properly connecting the system to a facility ventilation system.
11. Make the electrical connections. Consult “Electrical Connection Requirements” on page 3 for instructions on how to properly connect the system to the facility power supply.
12. The last step of unpacking this conveyor system occurs when the conveyor is powered up. “Home” the lamp stage and remove the foam block inside the curing chamber, which the irradiator rests on during transport.

## Exhaust Connection Requirements

**CAUTION!** Personal protective equipment is recommended when handling the potentially sharp ventilation piping.

Dymax recommends that the *WIDECURE* conveyor be vented away from the operator. The exhaust will contain trace amounts of ozone produced by the medium-pressure arc lamp, warmth from the curing chamber area, and VOCs generated by the cured material. Consult with your EH&S department for further recommendations.

To connect the exhaust:

1. Find the system blower exhaust located at the top of the conveyor (Figure 2).
2. Press-fit a 6"-diameter exhaust tube between the *WIDECURE* exhaust port and the facility ventilation system.

*NOTE: The WIDECURE blower is 1,000 cfm. The facility ventilation should be able to accommodate moving this volume of air.*

*Insufficient ventilation could cause a blower fault error on the HMI display and cause overheating.*



Figure 2. Blower Exhaust Vent Connection

## Electrical Connection Requirements

**CAUTION:** This conveyor system should only be wired by a licensed electrician. Use proper Lock Out/Tag Out methods when wiring the conveyor into the facility power. Wear proper protective equipment when installing voltage equipment. There is a risk of electric shock if the control cabinet is opened during installation and operation.

1. A certified electrician should provide a 460 VAC (440-480 VAC), 3Ø, 30A electrical supply to the conveyor.
2. The junction box is located on the right side of the conveyor, just below the belt bed. It contains four #8AWG MTW wires which should be used to make the electrical connection.

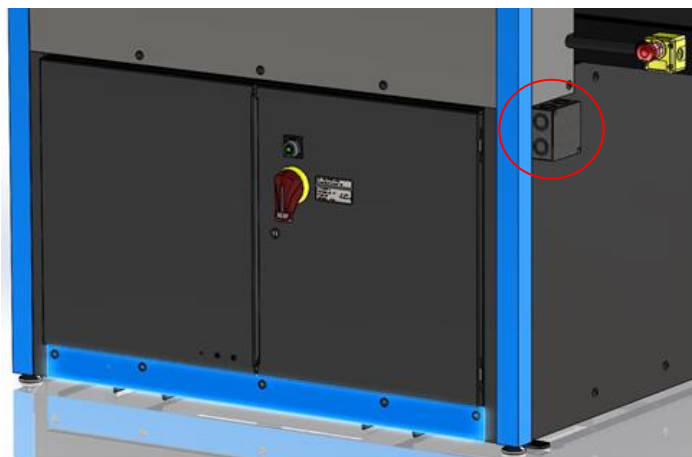


Figure 3. Junction Box Location

3. Wires available for connection are labeled as L1 (black), L2 (black), L3 (black), and Ground (green/yellow).
4. The conveyor system is shipped with a blank cover plate installed onto the electrical connection box. The end user should decide whether the conveyor system is hard-wired with a flexible cord, or the wires will be delivered via a routed metallic conduit (Figure 4). Suggested conduit entrances are from the top, bottom, or rear of the conveyor.



**Figure 4.** Two Wiring Options

5. Confirm all connections are properly capped and secured before inserting wires and connectors into the connection junction box.
6. Confirm that the main power wire or conduit is properly attached and secured to the cover plate before mounting the cover plate back onto the junction box.



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