INNOVATIVE Digital Systems

STEP BY STEP OPERATOR'S MANUAL FOR THE PYROTRACK

Click Here For Video

https://youtu.be/a-3jQowbAwQ

view our instructional video

HOW TO:

UNPACK THE CRATE

ITEMS NEEDED:

Band Cutters

T-20 Torx Wrench

T-25 Torx Wrench

The Pyrotrack is crated to ensure a safe and worry-free delivery. With just these few tools, the Pyrotrack will be out of the crate and in your workflow in no time.

HOW TO:

CONNECT THE PROPANE

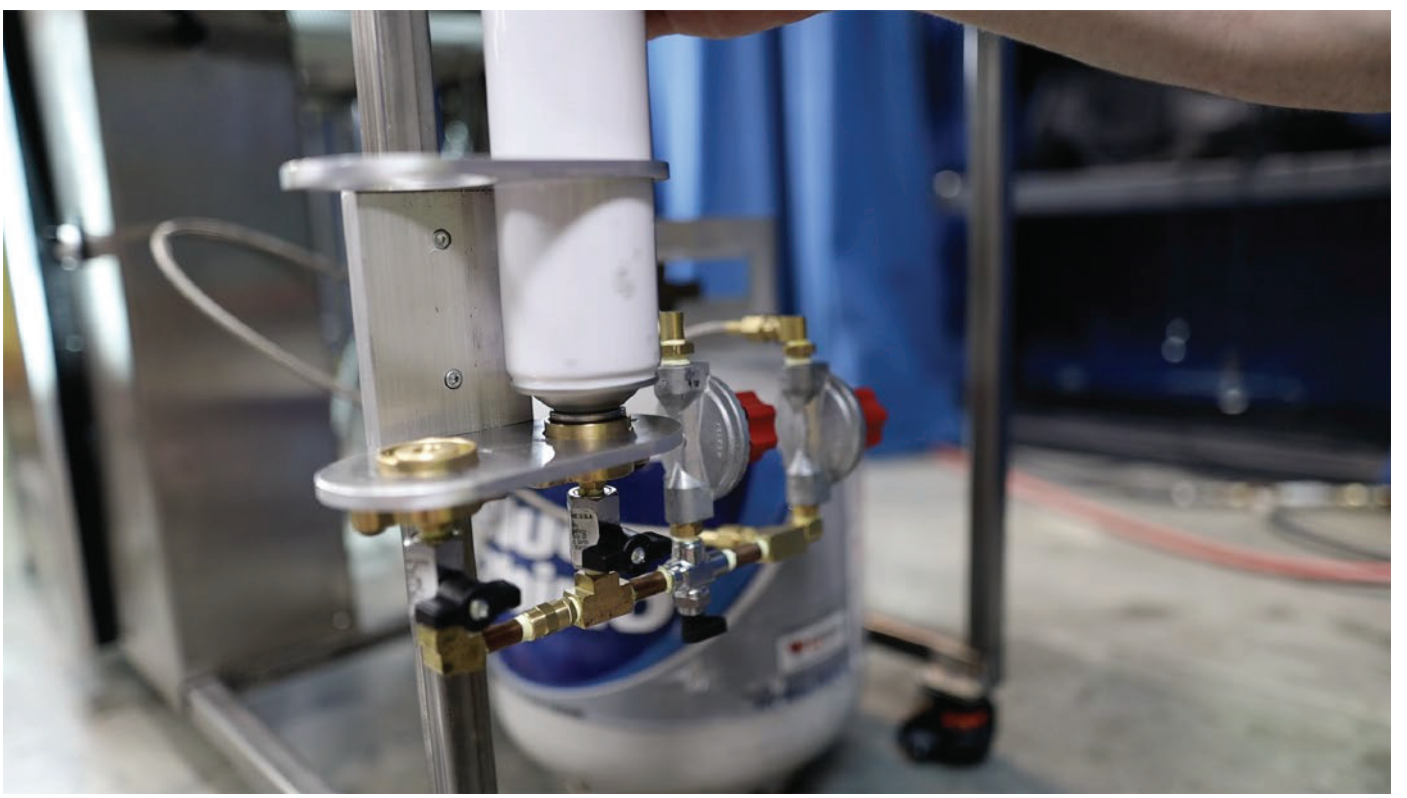
The propane connector is reversed threaded and is installed inside the propane tank valve. Turn counterclockwise in order to tighten connection.

The propane connection should be a tight fit. Using a crescent wrench to complete install is recommended.

HOW TO:

CONNECT THE PYROSIL

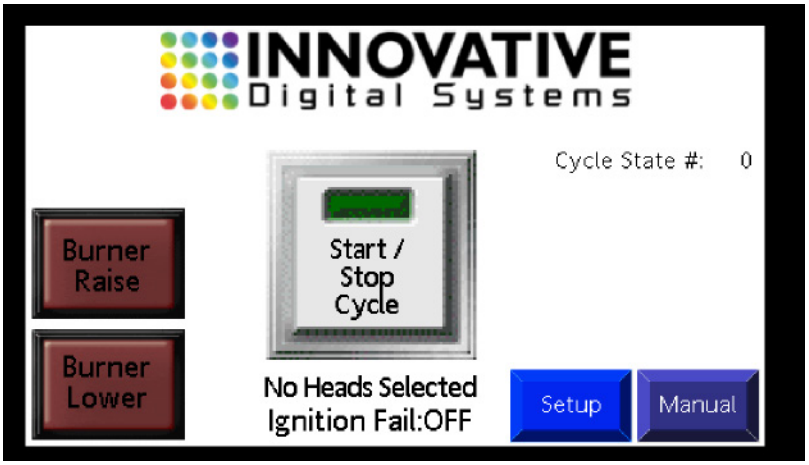
The Pyrosil connector is fixed to the Pyrotrack. Simply remove cap from new canister and gently screw clockwise into place.



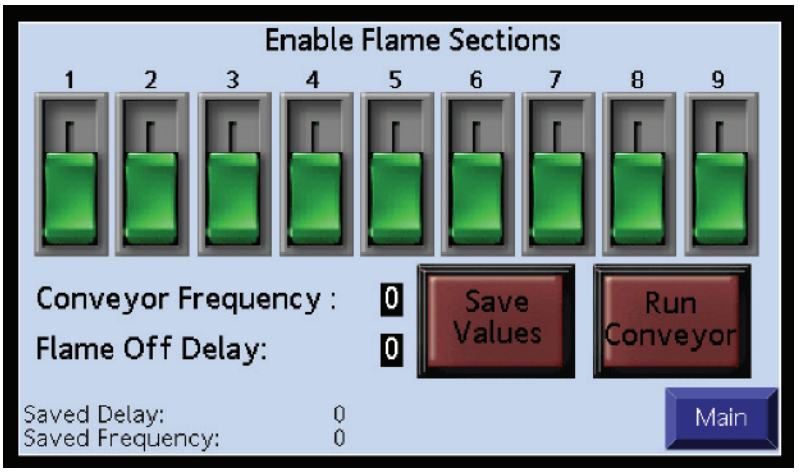
Take care to NOT over-tighten canister.

HOW TO:

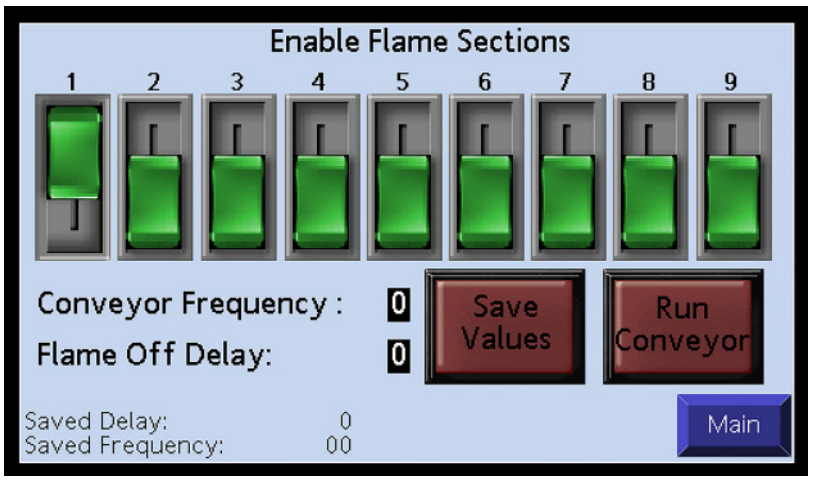
PERFORM INITIAL SETUP



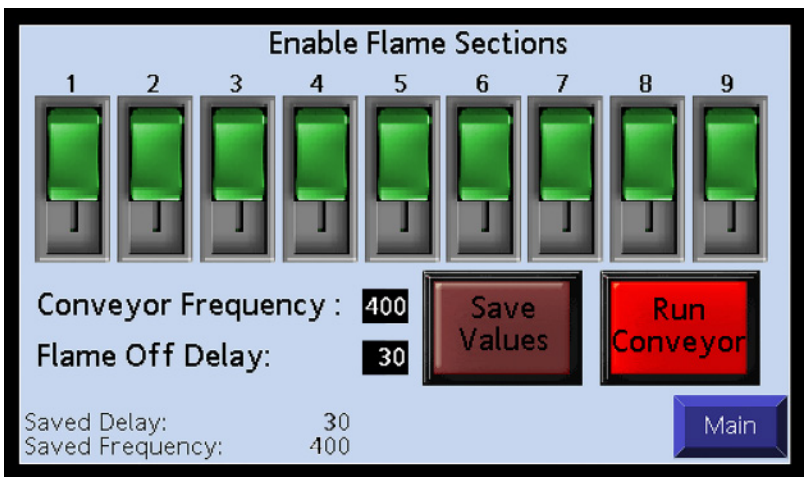
When the Pyrotrack is turned on, this is the home screen. To get started, select "Setup".



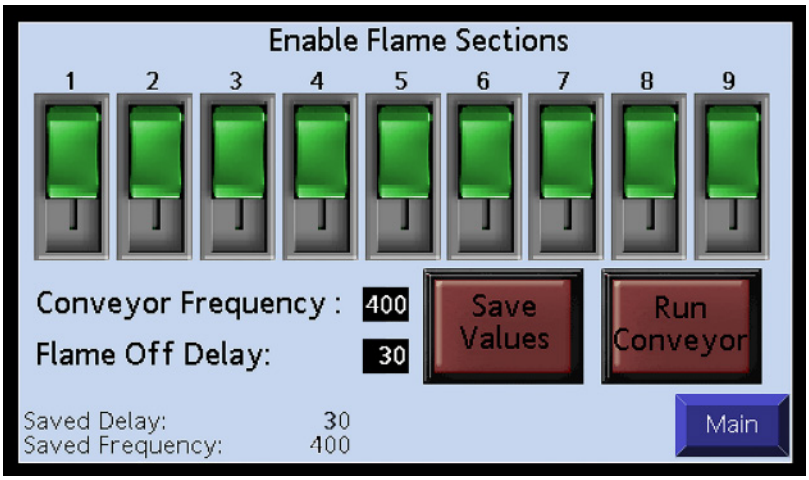
There are several operator options that can be selected. While both propane and Pyrosil are likely needed for any glass product, propane is likely all that's needed for treating stainless and powder coat.



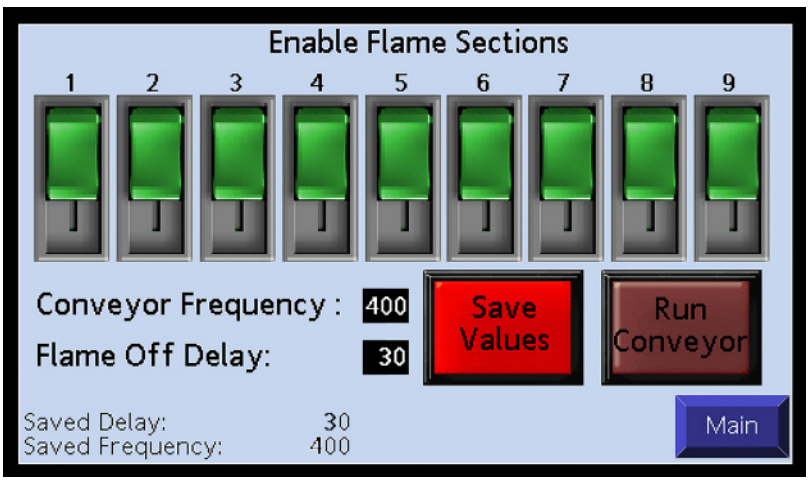
As you can see, each flamehead can be independently selected. This allows operators to only treat the width of the conveyor that will have product on it.



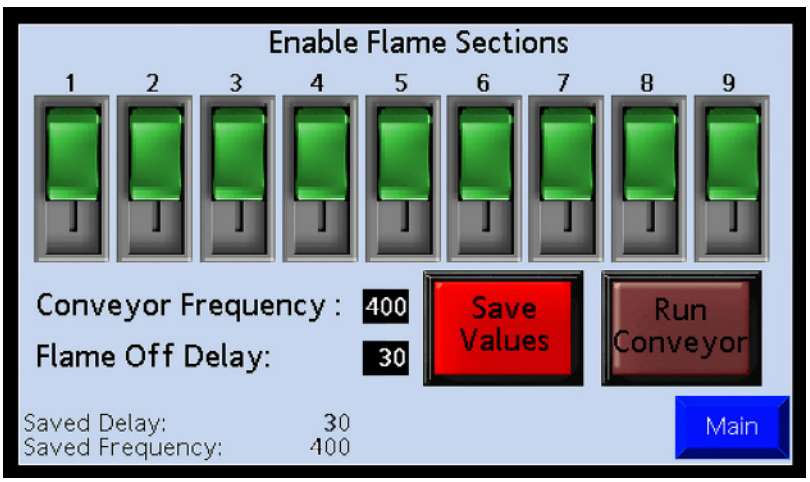
Select Run Conveyor to check the speed of the conveyor. The Flame Off Delay is how many seconds after the last product is detected that the flame heads turn off.



When you select a field, a numeric keypad will appear and allow you to make the necessary changes.



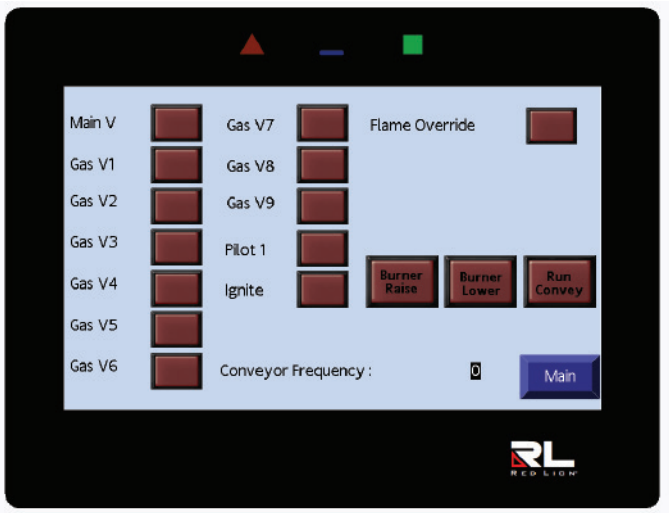
You must press the Save Values button in order to save your changes.



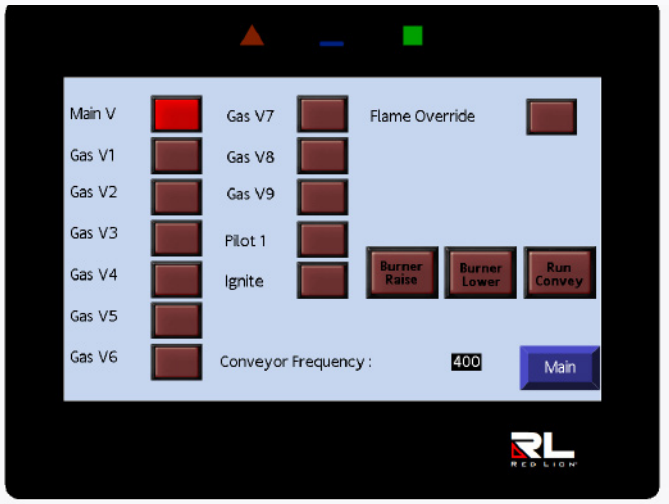
Select Main to get back to the Home Screen.

Troubleshooting

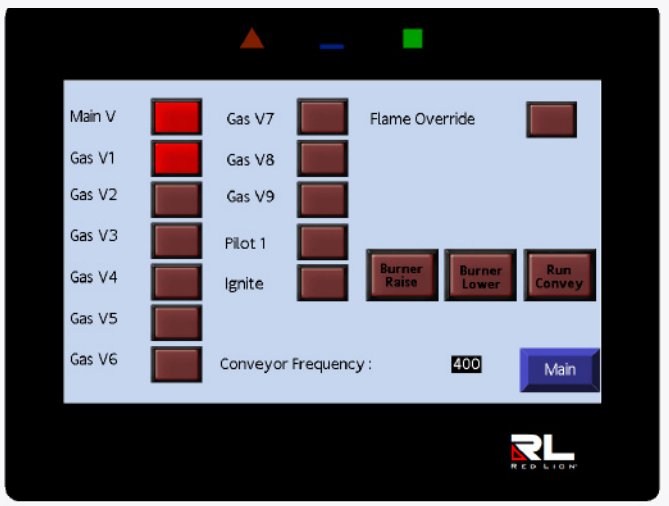
Manual Mode is designed for identifying issues and setting up the pilot.



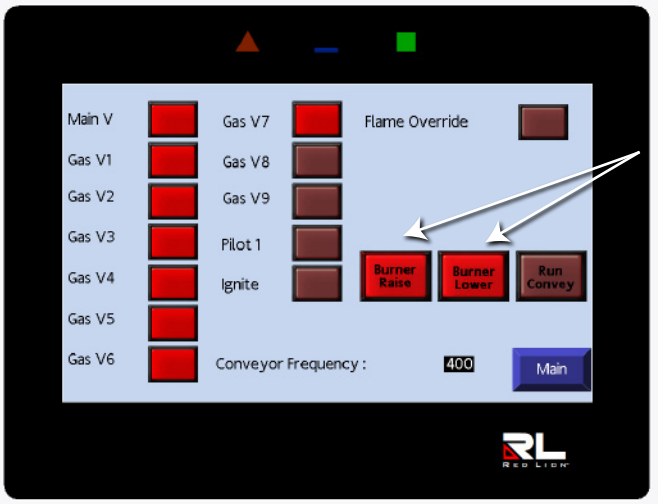
Manual Mode starts out with nothing selected.



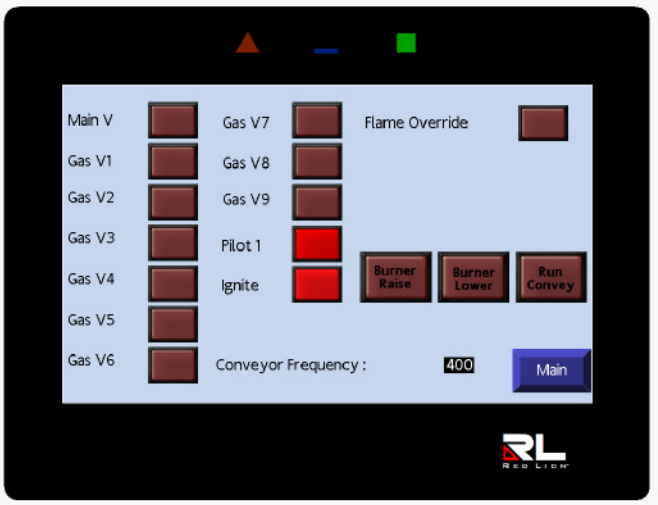
Each flamehead can be activated and deactivated from this screen. Here we see the Main V turned on. The fuel source is determined by which valve is turned on under the bed. This is addressed in the Burner System section.



To activate all heads, simply select all the corresponding Gas V 1-9. Activating individual heads will allow you to determine which one is causing an issue.

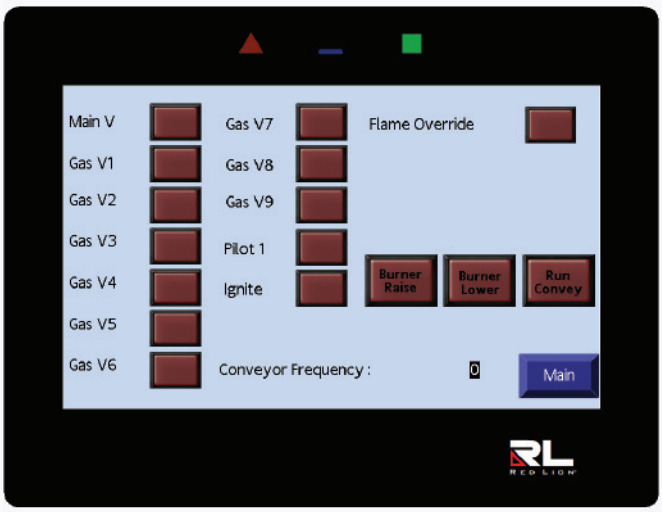


The height of the Flame Unit can be raised and lowered here as well.



Setting up the Pilot; establish the amount of fuel via the regulator to attain a consistent Pilot flame. Select Pilot and Ignite to test light the Pilot. Once accomplished you should be all set.

Pilot Regulator

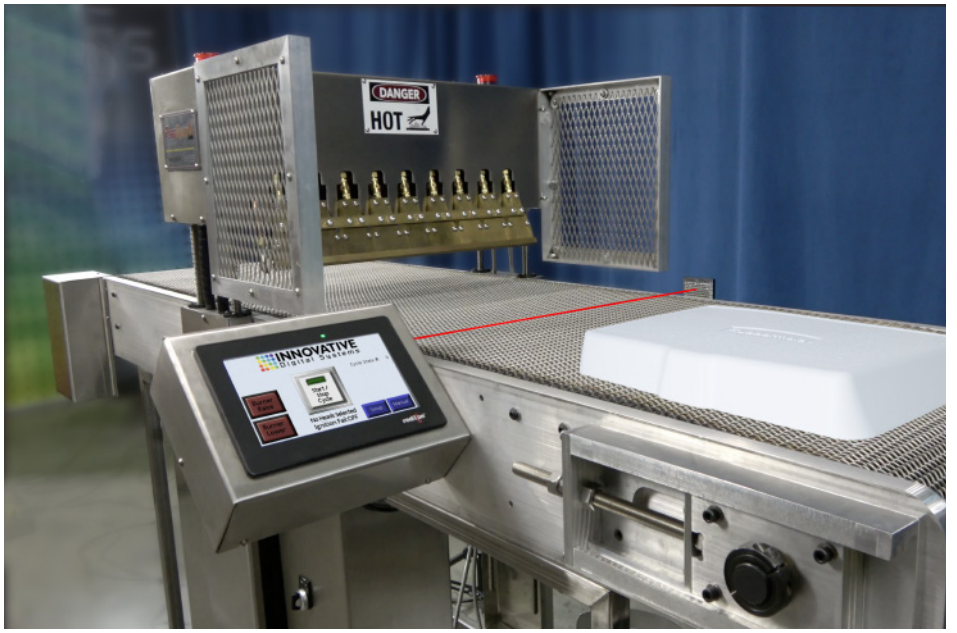


Be sure to turn all selections off before exiting Manual Mode. All operating settings are performed in Setup Mode. Once all selections are off, go back to Main Screen.

You are all set!, Load the Pyrotrack bed and Start Cycle.

UNDERSTANDING:

LASER SENSORS

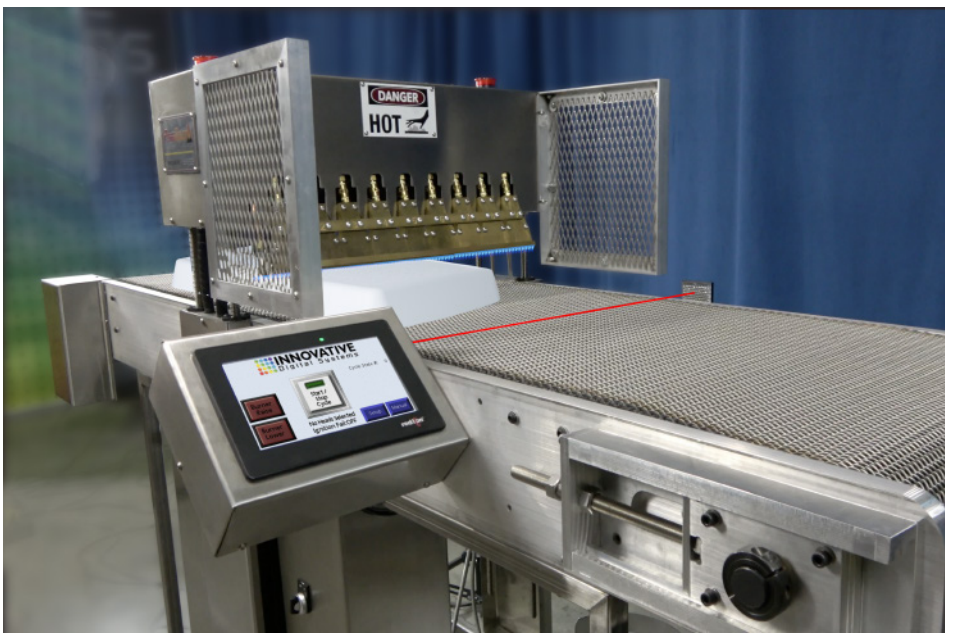


The laser sensor is designed to ensure the flamehead will only fire when product is detected, thus saving valuable resources.

Once your item has broken the line of sight, the Pyrotrack will light the selected flameheads.

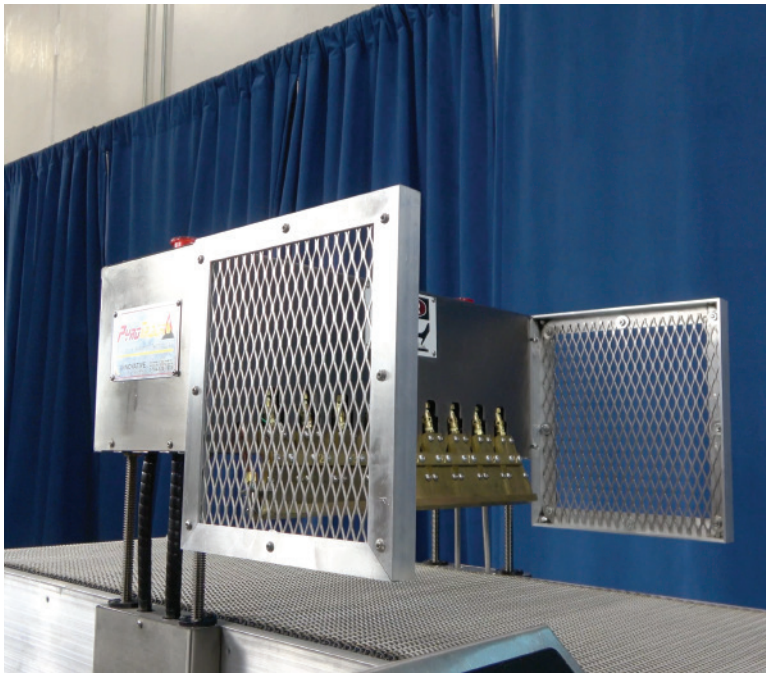
As long as the laser sensors line of sight is broken, the Flamehead will remain ignited.

Conveyor runs, and the flame stays on.



Once laser sensors receives it's reflection, the flameheads will turn off at the preselected Flame Off Delay time.

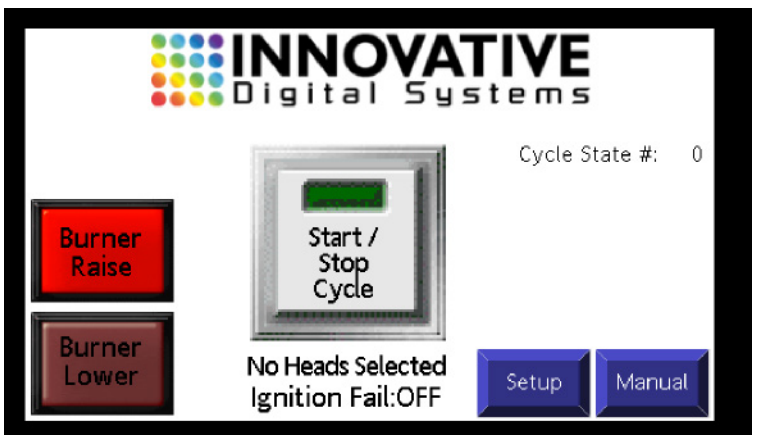
Flameheads are turned off.



The Pyrotrack has a maximum height of 20.25” The max product height for treatment is 19.7”. The product needs to remain a small distance from the flame.

From the home screen, simply select Burner Raise and Burner Lower to achieve the desired distance.

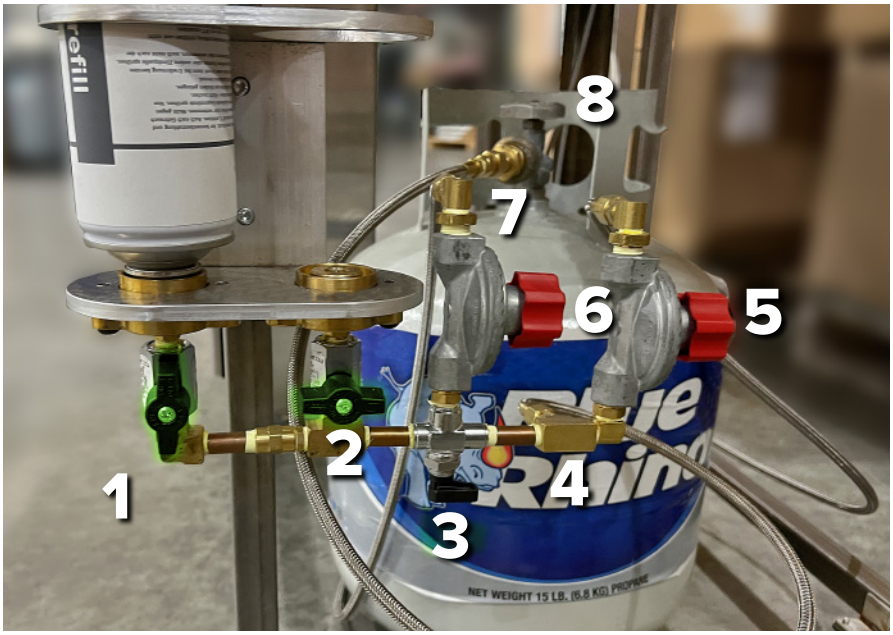
**See the Adhesion Process section for setting your optimum height.*



A CLOSER LOOK AT:

BURNER SYSTEM

There are 9 separate flameheads for either fuel source. This ensures the following: depending on the size of the product, only the heads needed will flame.

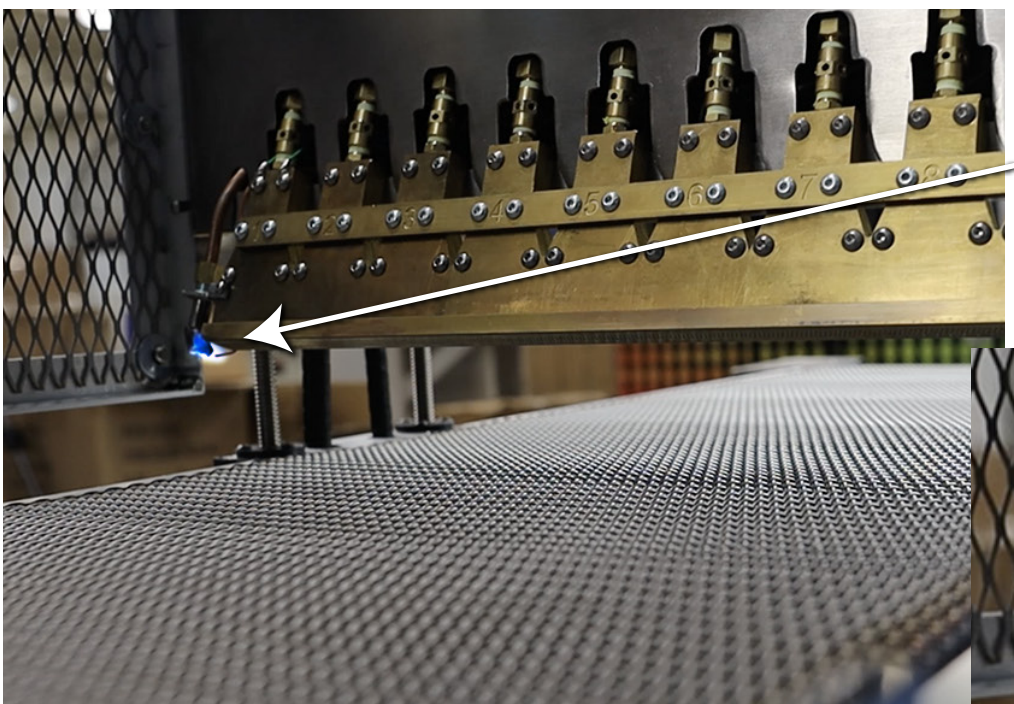


Once the fuel sources are installed, you need to open the valves for the pilot, propane, and Pyrosil. The propane has no gauge, but only needs be open enough to light the pilot.

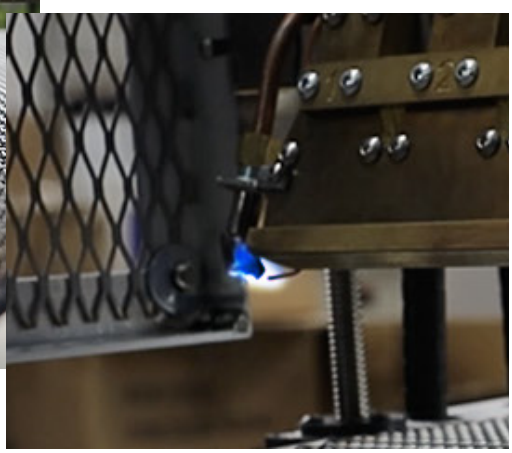
Below the pilot valve, you'll find the propane on the left and the Pyrosil on the right.

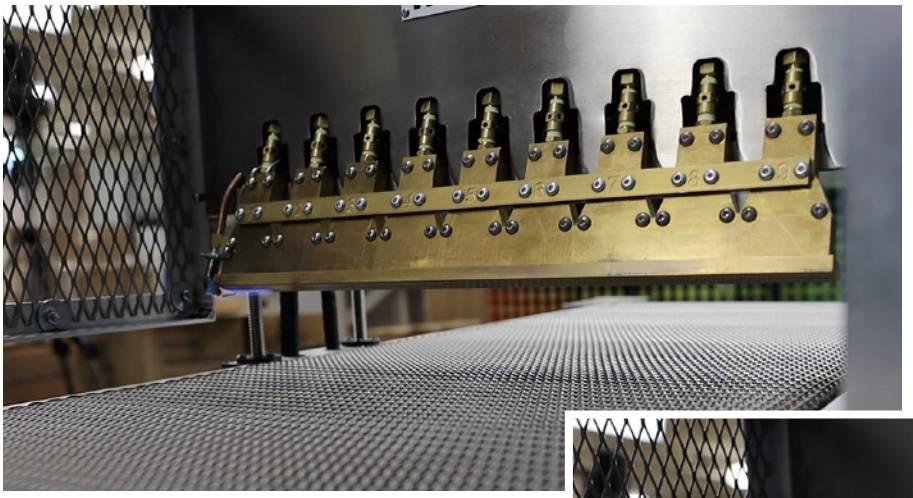
Fuel Source Legend

1. Pyrosil Valve ON Position
2 Pyrosil Valve OFF Position.
3. Three Way Ball Valve.
Right: Propane to Main
Left: Pyrosil to Main
4. Propane IN
5. Regulated Propane to Pilot
6. Main Burner Regulator
7. Regulated Gas to Main Burner
Right: Propane to Main
Left: Pyrosil to Main
8. Propane Valve

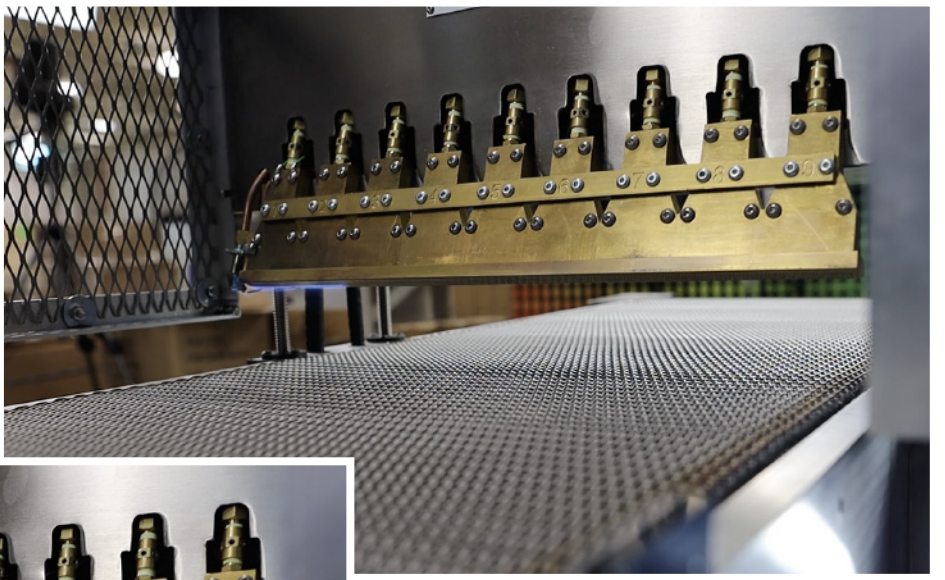


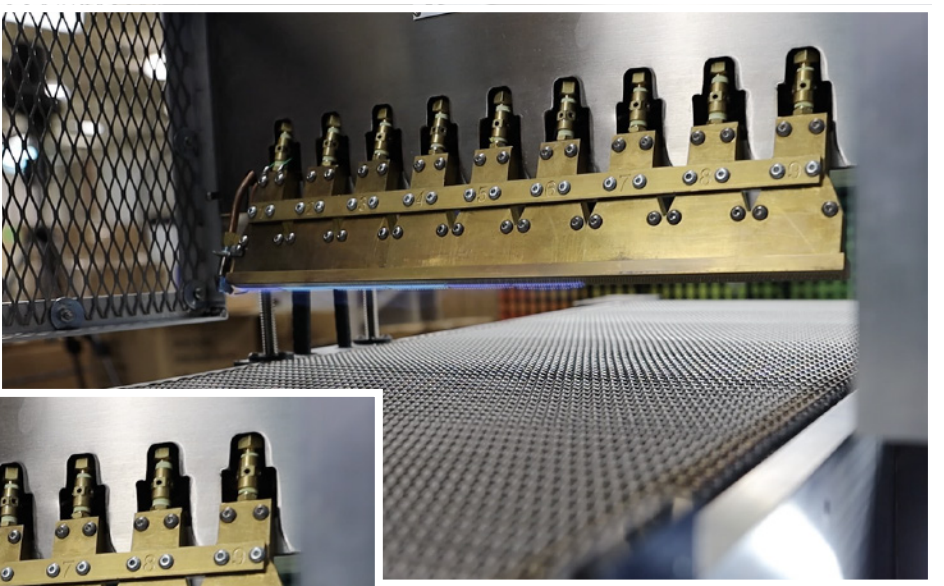
Here is the pilot light ignited and ready for use.

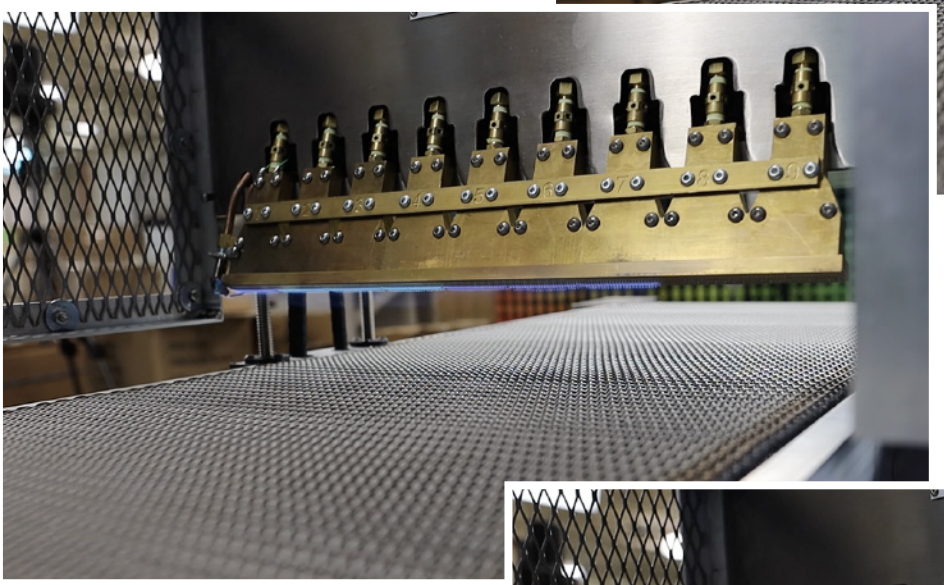




In the following images, take note that each flamehead is turned on independently.







Here, we have all 9 flameheads ignited. This will offer maximum coverage.

MAXIMIZING THE:

ADHESION PROCESS

The speed of the conveyor and the distance from the flame are the 2 variables that will determine maximum adhesion. The conveyor speed is factory set for 400.

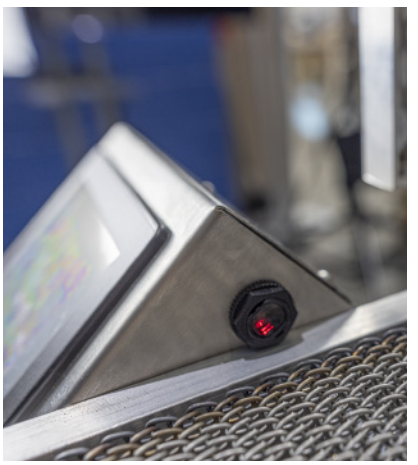
The ideal flame distance is 1/2” from the light blue of the flame to the surface of your product.

UNDERSTANDING:

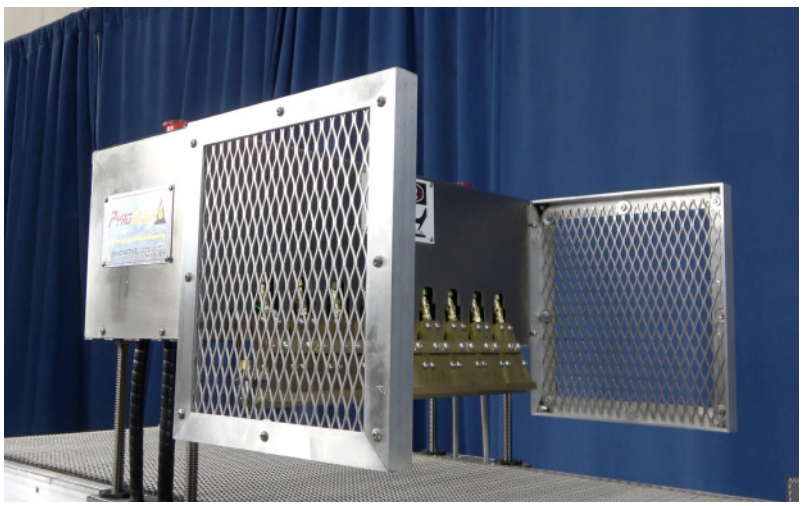
SAFETY MEASURES

The emergency E-Stop is located on the top of the machine. There is one on either side of the flameheads for optimum access in case there is a need to stop during a cycle.

Given the nature of the flame treatment temperature, PPE is absolutely required. All operators should wear heat resistant gloves, and protective eyewear.



The laser sensors not only save valuable resources, since they only fire the flamehead when product is detected, they act as a safety precaution as well.

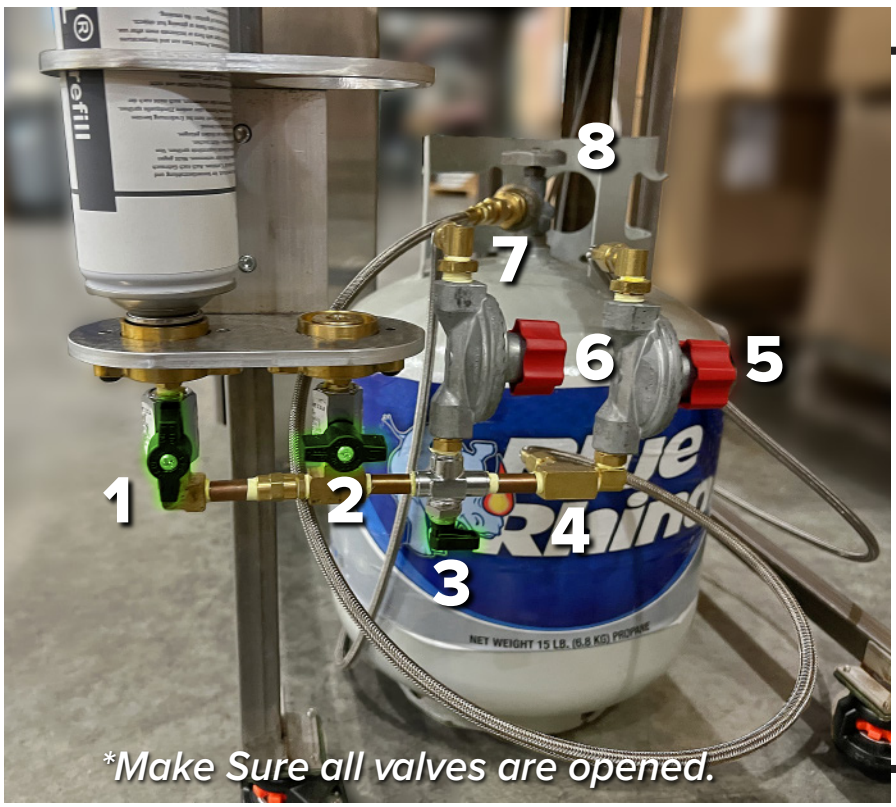


The steel cage barrier protects the operator from high temperature zones and pinch points.

ADDRESSING:

TROUBLESHOOTING MEASURES

If the Pyrotrack does not operate as expected, check to make sure there is fuel in the propane and or Pyrosil canisters.



Fuel Source Legend

1. Pyrosil Valve ON Position
2 Pyrosil Valve OFF Position.
3. Three Way Ball Valve.
Right: Propane to Main
Left: Pyrosil to Main
4. Propane IN
5. Regulated Propane to Pilot
6. Main Burner Regulator
7. Regulated Gas to Main Burner
Right: Propane to Main
Left: Pyrosil to Main
8. Propane Valve

If the Pilot does not light, You may need a lighter to manually ignite the pilot.

For any other issues, contact our Tech Department right away. 704-628-7679 or email at techsupport@ids-digital.com

Pioneers of Digital Decorating.

INNOVATIVE
Digital Systems

www.ids-digital.com
2000 Innovation Drive
Indian Trail, NC 28079 • USA