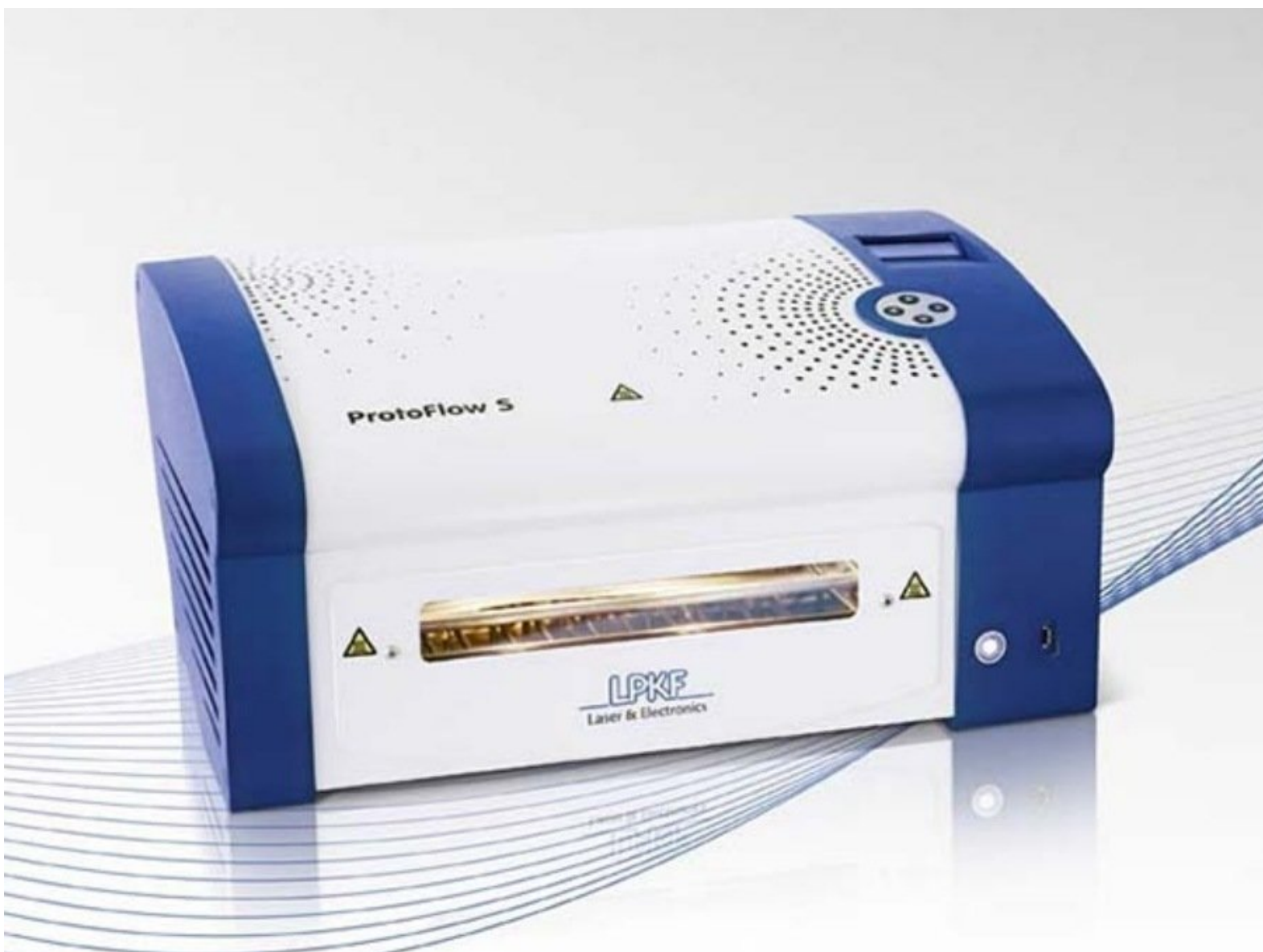




# ProtoFlow S N2

How to use the ProtoFlow which is the reflow oven used in the LPKF system.

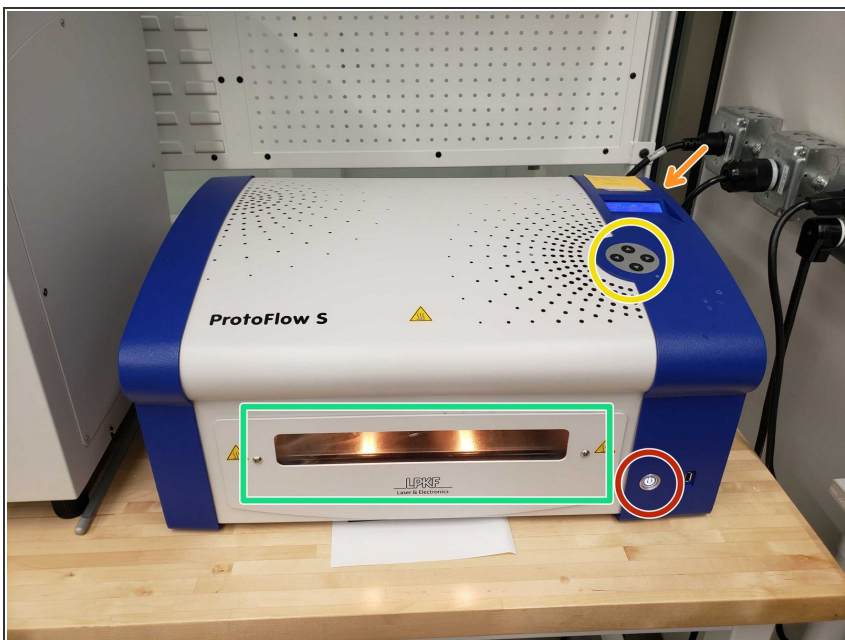
Written By: Jimmy Nolan



## Introduction

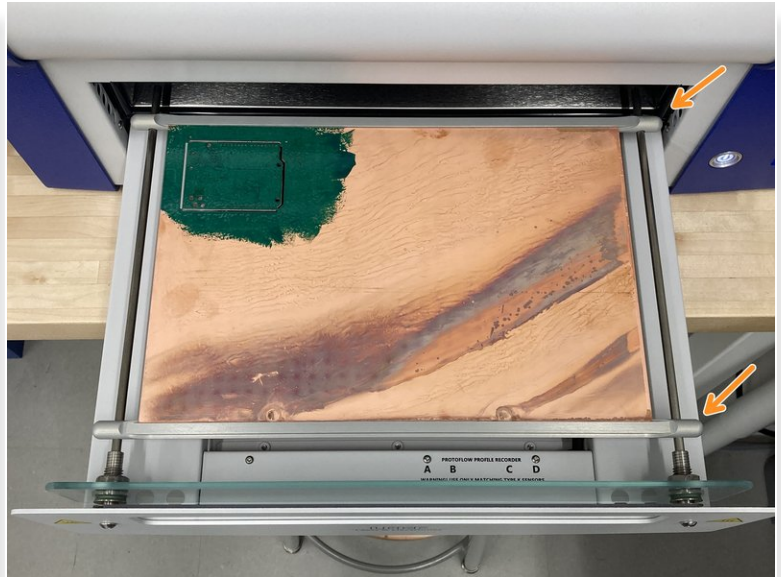
The ProtoFlow S N2, referred to as the reflow oven, is used multiple times during the PCB manufacturing process. This guide will show you the general usage of the machine, so that you may use it for whichever part of the process you need it for.

## Step 1 — Parts of the machine



- Power switch
- LCD display
- Keypad
- Drawer

## Step 2 — Power on and adjusting the rails



- Turn on the oven and open the drawer by selecting *Open/Close* on the LCD display.
- Place your board in the drawer and adjust the rails until your board can rest between them.
- Remove the board and close the drawer. You will place the board back in after the oven is preheated.

### Step 3 — Open nitrogen and start process



- Open the nitrogen canister that is located in the back by the Kern by twisting the top knob counter-clockwise.
- ① Make sure the pressure is set to 60psi.
- Select *Profile* and then choose the process you would like to use:
  - ProMask-PD: Used for curing solder mask or silkscreen after the initial layer has been applied.
  - ProMask-PC: Used for curing solder mask or silkscreen after it has been through the UV lamp and LPKF developer bath.
  - LF-MEDIUM: Melt lead-free solder paste on most small to medium sized boards.
  - LF-LARGE: Melt lead-free solder paste on larger boards.
- Follow the on-screen directions for whichever process you choose.



## Step 4 — Close nitrogen and turn off machine



- Once the process is complete, the machine will beep and open the drawer for you to take the board out.
- While the boarding is cooling down, turn off the nitrogen supply.
- Close the drawer and turn the machine off when you are finished.