

Robotic 3.0 Update

1. Better working motor box. No more belt tension adjustments, system runs smoothly and consistently.
2. New additions to the remote to ensure a smooth running system.
 - a. Update screen:
 - i. New button called “System Update”. From now on when you receive your update, you will copy the “tar.gz” file directly to the USB drive. Touch “update system”, this will automatically find the new update file and update for you.
 - b. Parameters screen:
 - i. Max speed: Your machine speed will now be controlled 100% by your touch screen display. You can set the max speed in the parameters and know exactly what the speed is going to be when you go to run. This speed will also be displayed on the “running pattern” screen and can be adjusted from there.
 - ii. Min speed: This is the slowest you want your system to run. We recommend keeping it in the 1-2 range.
 - c. Constants:
 - i. X & Y Power: These should default to 30. If you hear a slight vibration you can adjust these down a bit, but you really shouldn't need to touch these at all.
 - ii. Acceleration: This is how quickly your machine goes from 0 to the max speed you set in the parameters.
 - iii. Curvature: When going around a curve this is how quickly the system will go around the curve. The higher the number the faster it will go, the lower the number the slower it will go around the curve.
 - iv. Lead line: This will be the speed your machine will move to the start point. This is separate from the max speed, the lead line has its own speed.
 - v. Increment: Now available in the “move” feature, you can move the pattern in set increments using the arrow keys at the bottom of the screen (when using the move feature). This increment will apply to how far the pattern moves every time you touch one of the arrows.
 - d. Advanced:
 - i. Ki's & Kd's: These values should not need to be adjusted
 - ii. Reset: This is an easy way to reset the remote quickly
 - iii. Factory Defaults: This will return your system back to the factory defaults.
 1. Parameters:
 - a. Length: Deactivated
 - b. Max Speed: 40
 - c. Min Speed: 2
 - d. Lock: 4
 - e. Needle: 5
 2. Constants:
 - a. X & Y Power: 30 & 30
 - b. Time Out: 100
 - c. E. Stop: 100
 - d. Margin: 0

- e. Jump Stitch: 0
 - f. Accel: 40
 - g. Curvature: 40
 - h. Lead Line: 60
 - i. Increment: .1
3. Advanced:
- a. X & Y Ki: 8 & 8
 - b. X & Y Kd: 40 & 40

- e. Move Feature: Now allows you to “fine tune” your movements to a specific place.
- f. Special Note: On the “autofill” option, it works best on a square pattern box. Pattern boxes on an angle will not always “fill” appropriately.
- g. New “edit” button. When in the “edit pattern” screen, there is a new button next to the “V” in the upper right corner. This will open the edit screen. You may still hold down on the screen if you’d like, but this gives you 2 options to access the menu.
- h. Easier to navigate “File Manager” window.
- i. Able to open folders without needing to “double tap”. Even in the “Add Pattern” screen, you no longer need to select the arrow to open the category; just touch anywhere on the category and it will open.