

VERSABUILT ROBOTICS



Lathe Automation System
Read Me First

Safety Warnings

DANGER: VersaBuilt makes industrial machine tool automation components designed to be operated by trained personnel only. Machine tool automation components may move suddenly and without warning. Serious or fatal crushing injuries can occur from contact with the robot, gripper or chucks.

Before deploying VersaBuilt industrial machine tool automation components, a safety risk assessment must be completed in accordance with local, state and/or federal requirements.

VersaBuilt industrial machine tool automation components should only be used by trained operators.

Read and understand the VersaBuilt Lathe Automation Kit Safety Manual before proceeding

Thank You for Your Purchase



Thank you for purchasing the VersaBuilt Lathe Automation System. The Lathe Automation System is a tool for loading and unloading parts to your CNC lathe machine. Like many tools used in manufacturing, it requires training to use safely and effectively.

When used by people with the proper training, the Lathe Automation System is a tool that will provide many years of service and greatly increase the productivity of the people and CNC equipment the it serves.

Two-Step Installation Process

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Successful automation typically does not happen on the first try. CNC automation requires two separate processes to function properly for success: the automation process and the CNC process. What many new automation users fail to realize is the steps and discovery required to make a CNC process that supports the automation process.

VersaBuilt recommends a two-step Lathe Automation System installation process.

- 1) Hand load parts to and verify the CNC process produces good parts
- 2) Prove out the automation process is successfully loading and unloading parts to/from the infeed, then machine parts, comparing results from hand loading.

Navigating the Lathe Automation System Manuals



The manuals included in the Lathe Automation System are targeted at three distinct users of the Lathe Automation System: the installer, the machinist and the operator. In some applications, one person may fill all three roles and in other applications, there may be one or two people performing the installation, two or three machinists adding parts to the system and a dozen or more operators that use the Lathe Automation System.

All Users Must Read the Safety Manual

All users must read and understand the Safety Manual before installing or using the Lathe Automation System.

Navigating the Lathe Automation System Manuals



Installer

The installer(s) of the Lathe Automation System should start by reading the Safety Manual, then the Operator Manual to become familiar with accessing and using the VersaBuilt System Controller.

When ready to begin the installation, read these manuals:

- Safety Manual
- Lathe Automation System Installation
- Robot & Gripper Installation
- VSC Installation and Programming



Navigating the Lathe Automation System Manuals



Machinist

Machinists responsible for creating the CNC process and configuring the parts for automation.

Machinists should become familiar with the following manuals:

- VersaBuilt System Controller CNC Installation and Programming
- Installation Manual (Calibration section)
- Machinist Manual
- Operator's Manual



Navigating the Lathe Automation System Manuals



Operator

Operators responsible for running and maintaining the Lathe Automation System in production. Refer to the Operator's Manual.

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