

## Lathe Automation System Installation Sign-off

Item	Completed/Notes
<b>Lathe Automation System Setup &amp; Validation</b>	
<ul style="list-style-type: none"> <li>● LAS System Power-Up and Test</li> </ul>	
<ul style="list-style-type: none"> <li>○ Power-up and connect user interface</li> </ul>	
<ul style="list-style-type: none"> <li>○ Digital Outputs working with proper function of the following devices thru the I/O panel:               <ul style="list-style-type: none"> <li>■ Gripper 1 Open/Close</li> <li>■ Gripper 2 Open/Close</li> <li>■ Chuck 1 actuation</li> <li>■ Chuck 2 actuation *if applicable</li> <li>■ Door Open/Close *if applicable</li> <li>■ VersaBlast *if applicable</li> <li>■ Cycle Start *verify cycle start connection is working</li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>○ Digital Inputs working with proper function of the following devices thru the I/O panel:               <ul style="list-style-type: none"> <li>■ VSC Enable</li> <li>■ Door Sensors *if applicable</li> <li>■ Door Open/Close *if applicable</li> <li>■ Cycle Complete *if applicable</li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>○ VSC Serial Number and Software Version are correct/up-to-date</li> </ul>	
<ul style="list-style-type: none"> <li>○ Network Settings setup with WiFi or Network Connected</li> </ul>	
<ul style="list-style-type: none"> <li>○ Remote support enabled and verified on-line</li> </ul>	
<ul style="list-style-type: none"> <li>● CNC programs are installed on CNC</li> </ul>	
<ul style="list-style-type: none"> <li>● CNC settings are verified</li> </ul>	

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<ul style="list-style-type: none"> <li>● Required process scripts are enabled on VSC</li> </ul>	
<ul style="list-style-type: none"> <li>● Calibration complete:               <ul style="list-style-type: none"> <li>○ VersaCart</li> <li>○ InCNC</li> <li>○ Chuck Centerline</li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>● Shaft Infeed and Fingers installed *if included with system</li> </ul>	
<ul style="list-style-type: none"> <li>● Configure sample part</li> </ul>	
<ul style="list-style-type: none"> <li>● Run Sample Part:               <ul style="list-style-type: none"> <li>○ Test part is configured on VSC</li> <li>○ Test part process runs with CNC program w/out machining, picking from across the table</li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>● Customer Training - Home page               <ul style="list-style-type: none"> <li>○ Recovery screen</li> <li>○ Running parts</li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>● Customer Training - Part Configuration (Puck)</li> </ul>	
<ul style="list-style-type: none"> <li>● Customer Training - Part Configuration (Shaft)</li> </ul>	
<ul style="list-style-type: none"> <li>● Customer Training - I/O Panel               <ul style="list-style-type: none"> <li>○ Demonstration of setting I/O</li> <li>○ How to use for troubleshooting</li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>● Customer Training - Settings and Networks Settings Pages               <ul style="list-style-type: none"> <li>○ Setting page review</li> <li>○ Network page review</li> <li>○ Connect to local network/Wi-Fi</li> </ul> </li> </ul>	

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<ul style="list-style-type: none"> <li>● Customer Training - About Page                             <ul style="list-style-type: none"> <li>○ Restart VSC</li> <li>○ Enable Remote Support</li> <li>○ Software Version</li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>● Customer Training - Calibration Process</li> </ul>	
<ul style="list-style-type: none"> <li>● Customer Training - Recovery                             <ul style="list-style-type: none"> <li>○ Robot Home positions</li> <li>○ Recovery from collision</li> <li>○ Freedrive robot</li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>● Customer Training - System capabilities                             <ul style="list-style-type: none"> <li>○ Scripts - Lathe Puck, Shaft, Puck Unload, Shaft Unload</li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>● Customer Training - Review Troubleshooting Guide *from VersaBuilt website, most common:                             <ul style="list-style-type: none"> <li>○ A change was made to the system</li> <li>○ Something moved (CNC, Cart, Robot Position, Chuck position)</li> <li>○ Settings on robot or CNC have been changed</li> <li>○ Incorrect payload (part weight, jaw weight)</li> <li>○ Chip control issues</li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>● Run customer parts</li> </ul> <p>*if the customer is ready with material, programs, and part has been proven via hand loading etc.                      **alternatively, sign-off will be completed by running sample part without machining</p>	

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Company Name: \_\_\_\_\_

Customer Rep: \_\_\_\_\_

Customer Signature: \_\_\_\_\_ Date: \_\_\_\_\_