

CNC MILL AUTOMATION SYSTEM

The VersaBuilt CNC Mill Automation System for Universal Robots makes high mix automation easy and flexible. Combined with a UR-10e robot from Universal Robots the VersaBuilt CNC Mill Automation System has everything needed to successfully automate a CNC mill. All components of the system are pre-assembled and designed to work together. Starting with basic hand tools, the VersaBuilt CNC Mill Automation System can be installed and processing parts in a day.



NO PROGRAMMING REQUIRED

Easy to use automation software designed from the ground-up for CNC milling automation. All robot motion is pre-programmed yet fully customizable. Simply enter part dimensions and CNC milling program numbers and enjoy the benefits of CNC automation. The VersaBuilt CNC Mill Automation System is the easiest and most capable CNC machine tending system available.



One-Day
Assembly



Cut
Soft Jaws



Enter Part
Info



Start Making
Parts

MULTI-OPERATION AUTOMATION

CNC parts typically require more than one milling operation. Automation equipment should be able to deliver more than one operation. Unlike other robot grippers, VersaBuilt's patented MultiGrip technology has multi-operation automation built-in.

<i>VersaCart 1300</i>	Portable cart optimized for UR-10e Robot.
<i>Visual Infeed System</i>	Part alignment grid improves operator efficiency and maximizes infeed capacity over wide range of part sizes.
<i>2x MultiGrip FJ Vises</i>	Easily automate part processing through multiple milling operations.
<i>MultiGrip FJ Robot Gripper</i>	200lb clamping force supports 10KG part payload, machine tending specific gripper.
<i>VersaBlast In-CNC Cleaning</i>	Removes chips and coolant from parts and MultiGrip Jaws after machining.
<i>VersaBuilt System Controller (VSC)</i>	CNC automation control system provides rich graphical user interface and coordinates all CNC, robot and IO functions eliminating the need for tedious robot programming.
<i>MultiGrip Jaws Starter Kit</i>	2ea. MultiGrip Top Jaws 2ea. MultiGrip Base Jaws OD Universal top Jaws
<i>Optional VersaDoor</i>	Simple and reliable automatic door opener for CNC available for single or double doors.

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Included with CNC Mill Automation System:

- VersaCart 1300
 - VersaBuilt System Controller (VSC)
 - 2x MultiGrip FJ Vises
 - MultiGrip FJ Gripper
 - VersaBlast part and jaw cleaner
 - MultiGrip Jaws Starter Kit
- *remote connectivity for remote support available



MultiGrip FJ Vise



VersaCart 1300

Not Shown items but included are:

- 2 sets of OD jaws bases
- 2 sets of Top Jaws
- 1 set of Universal Op1 Jaw Tops
- Pneumatic Tubing, valving and controls for all pneumatic devices
- Vise sensors and cabling to the VSC
- CNC Cycle Start Cable



TECHNICAL SPECIFICATIONS

Electrical Power:

- Robot and controller = 110 VAC
- VersaBuilt System Controller = 110 VAC
- Ethernet Switch = 110 VAC

Pneumatic:

- 90-120 psi compressed air conditioned to meet ISO 8573-1:2010 [7:4:4]
- Max air consumption 15-20 SCFM during VersaBlast operation

VersaCart 1300:

- 56" L x 32" W x 30" H
- Movable VersaCart via casters
- Lock in-position by lowering footpads
- Parts located on visual infeed
- Part Capacity Chart:
 - o 0.5" W x 6.0" L part = 80 parts per setup
 - o 2.0" W x 6.0" L part = 40 parts per setup
 - o 2.0" W x 4.0" L part = 56 parts per setup
 - o 4.0" W x 4.0" L part = 35 parts per setup
 - o 8.0" W x 8.0" L part = 12 parts per setup

VersaBuilt System Controller (VSC):

- Tablet, phone or laptop (not included) enables users to configure, test and run jobs
- VSC manages communication with CNC control and robot controller
- Digital I/O and pneumatic outputs

MultiGrip FJ Vise:

- Pneumatic operation
- Operating range 10 to 230 psi
- Clamping force at 120 psi = 4550 lbs
- Size: 6" W x 8" L x 5" H

MultiGrip FJ Gripper:

- Pneumatic operation, 120 psi Max
- Clamping force at 120 psi = 200 lbs
- Quick change MultiGrip Jaws pick blanks from infeed and transfer part and jaws to MultiGrip FJ Vise

Specifications subject to change without notice.
 Not responsible for typographical errors.
 Machines shown with optional equipment.