

Click & Customize

Machine Tending Robots Ready to Work

Configure and receive a machine tending system in 2 weeks. From start to finish, let Vention do it all.



Guaranteed Productivity

Set your business up for long-term success by automating repetitive tasks.

Customization Delivered in 2 Weeks

Partner with a trusted expert and scalable ecosystem that adapts to your needs.

No Hassle

Let Vention build and deploy your custom solution, while you stay focused on your business.

Configure Your Machine Tending Solution

Jumpstart your design with our preassembled base and customize it for your needs.



1

Choose your base configuration

- Drawer system
- Angled part presenter

2

Choose your robot arm

- UR10e, UR20 or UR30 (Universal Robots)
- CRX-10iA/L or CRX-20iA/L (FANUC)
- GoFa10 or GoFa12 (ABB)

3

Choose your gripper

- More than 40 plug-and-play options from trusted brands like Schunk, OnRobot, and more.

4

Optionally add on other features

- Tower lights
- Area scanners
- Tool changers
- CNC door actuators
- Force torque sensors

5

Programming & deployment

- Native robot programming
- Vention's end-to-end service



Contact Vention to scope your system.

Tell us about your operation and goals. Our automation experts will find the right solution and build your digital system in a few days, no investment needed.

Technical Specifications

Base configuration

- Dimensions (without robot) of 1180mm(W) x 716mm(D) x 1038mm(H)
- Mobile with floor anchoring provisions for when in operation
- Access to internal components for ease of maintenance
- Additional mounting points inside the base for external components (air supply, auxiliary controls, etc.)
- Pre-wiring of inductive sensors and safety area scanners
- Includes ethernet cable passthroughs for CNC communication and 16 field wireables leads to use as needed for integration

Robot arm

- **Universal Robots**
UR10e - 12.5kg payload / 1300mm reach
UR20 - 20kg payload / 1750mm reach
UR30 - 30kg payload / 1300mm reach
- **FANUC**
CRX-10iA/L - 10kg payload / 1249mm reach
CRX-20iA/L - 20kg payload / 1418mm reach
- **ABB**
GoFa10 - 10kg payload / 1620mm reach
GoFa12 - 12kg payload / 1370mm reach

Part locating

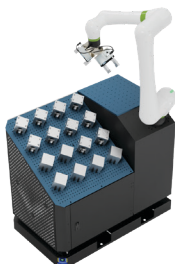
- **Drawer version**
Four double-sided drawers with lift to open release mechanism
2 inductive sensors per drawer to detect 4 drawer states
Available part area per drawer 544mm x 710mm (21.38" x 27.95")
Max part height 180mm (7.09")
200kg (440lbs) capacity per drawer
- **Part Presenter**
Trays come in 3 standard sizes or can be customized to the part requirements
Available part presenting area 818mm x 738mm (32.20" x 29.10")

Grippers

- Electric two and three finger grippers
- Pneumatic two finger grippers
- Single or dual gripper configurations
- Vacuum grippers

Safety (optional)

- **Datalogic Laser Area Scanner**
5.5m radius safety zone
Multiple zone monitoring
270 degrees of detection per area scanner
- Full 360 degrees of detection around the base



The Vention Difference



Work with the only company with the One-Factory Hardware Ecosystem where you can seamlessly connect everything from machine tending and welding robots to workstations, carts, jigs, and fixtures. Enjoy the power of customization with Vention's velocity of deployment.

Complete Customization

Configure and adapt equipment to your operations, not the other way around

Fast Deployment, Fast ROI

Get to production value in a few weeks and achieve ROI without surprises

End-to-end Service

Stay focused on your business while our robot experts design and deploy your system

Customer Story

Spector & Co, a leading supplier of promotional products focused on delivering merchandise and creative solutions for impactful brand experiences, automates repetitive machine tending tasks with company's first robot.



Problem

Inefficiencies in using hard-to-find labor in repetitive, non-fulfilling machine tending jobs.

Solution

Robotic machine tending solution with UR10e collaborative robot

Key Results

Increased capacity 100 bottles per hour
Created a more predictable production schedule
Reallocated operators to more ergonomic tasks

Why Choose Vention

25+

Industries served

4,000+

Factories using Vention

20,000+

Completed designs

vention.com