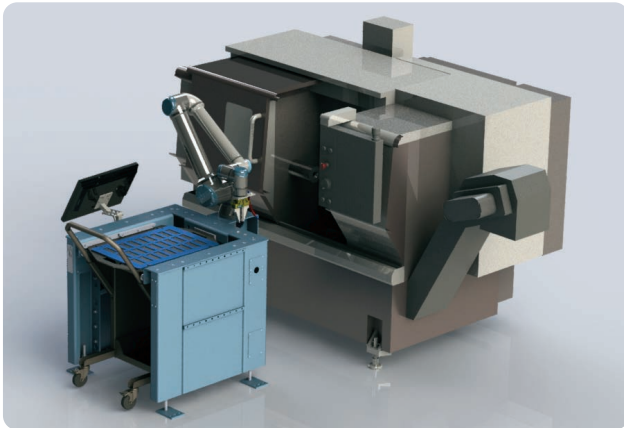


Cross Automated Machine Tending



Turn-key, mobile platform with collaborative robot makes deploying and repurposing quick and efficient

Designed to increase efficiency and reduce labor costs associated with manual machine tending

Available on a small, mobile or large, fixed platforms depending on application needs

Can handle parts up to 26 lbs

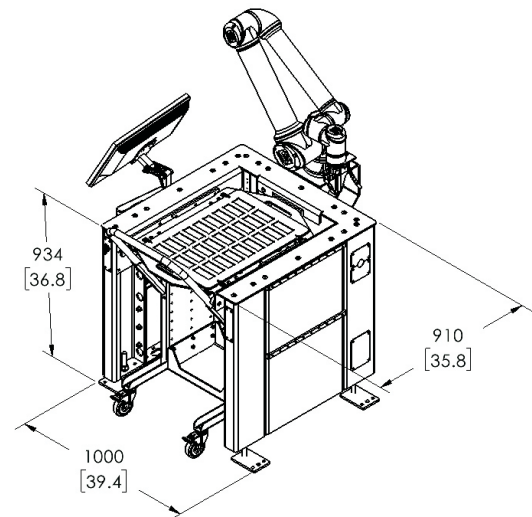
Available Models

Compact and Mobile

- Used with a UR3e or UR5e
- Can be moved and re-deployed by a single person
- Limited parts management
- Best suited for high mix, lower volume parts

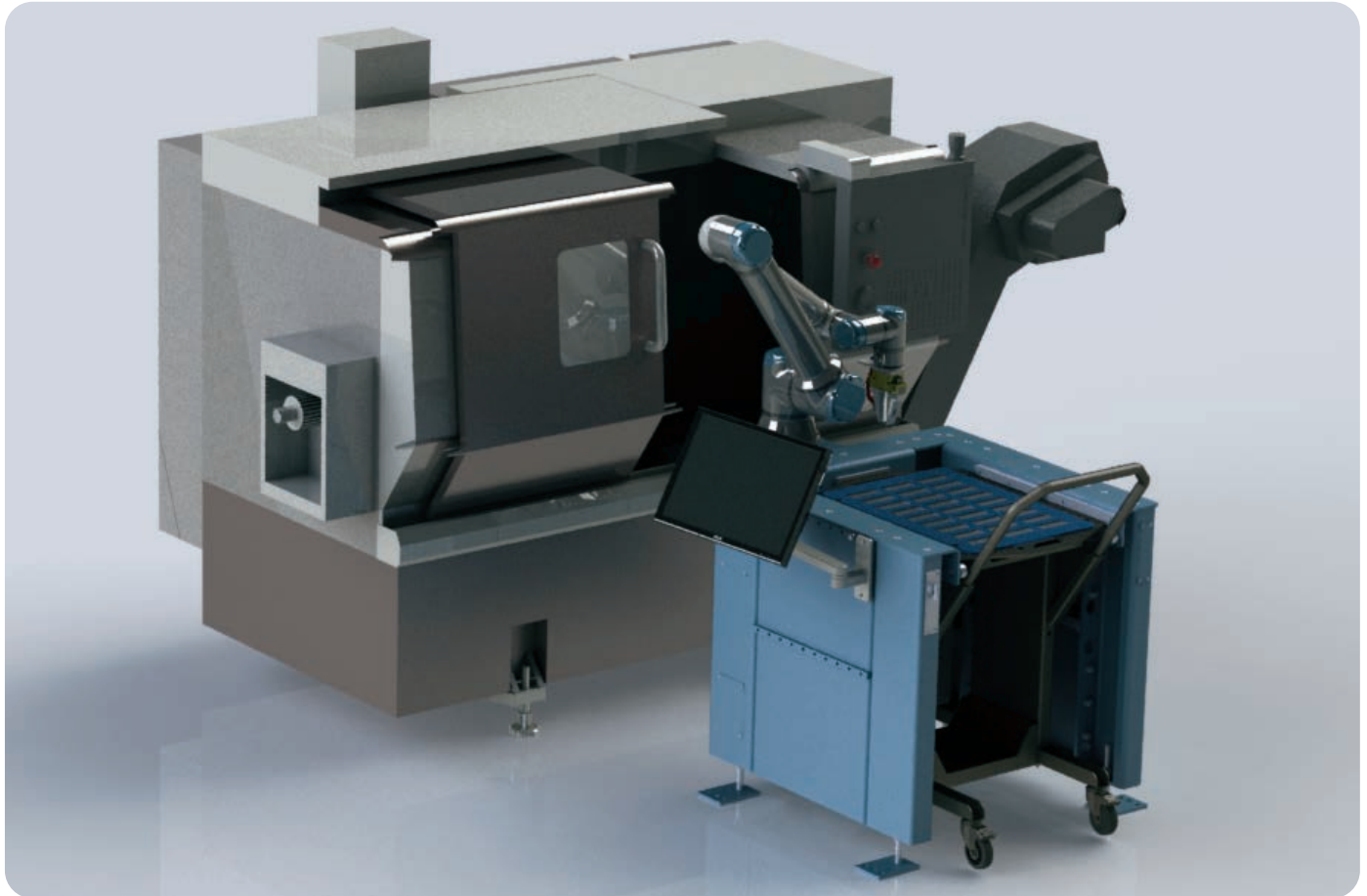
Small with Extended No Operator Interaction Runtime

- can be used with UR5e, UR10e, or UR16e
- Uses cart system to move parts in and out
- Carts can have multiple layers to maximize runtime without an operator
- Optional casters to help with redeployment



Multi Machine

- Uses 7th axis to have 1 robot tend multiple machines
- Very application dependent and largely customized based on machines, parts geometry, throughput requirements, and required travel distance
- Fixed to floor and not re-deployable



System Specifications

- Solution fully implemented to CNC machine with two way hand-shaking
- Part fixturing design service available and is typically only custom feature (except for multi-machine option)
- Footprint <4 ft² - <10ft² depending on model
- Handle parts up to 26 lbs
- 6-axis arm can be mounted in different orientations to help with reach or cell layout
- Cycle time is dependent on the machining process. System can load/unload in 32 seconds (add 16 if doors aren't automated)
- Power:110 VAC
- Air: 80 PSI for part gripping and blow off
- UR programming required and available as an add on service
- Rapid deployment – typically <4 weeks from receipt of PO

End of Arm Tooling

- Specified based on part geometries
- Mechanical, pneumatic, or vacuum
- Standard off the shelf in most situations

Support and Training Services

- Annual Maintenance Agreements
- Preferred Support Agreements
- Emergency Service Agreements
- Standard and Customized Training
- Repair and Service Center – In-house and Onsite