



### autoMate Universal XL



(Optional Equipment Shown on autoMate Universal)

The *autoMate Universal* is Matrix Design's latest generation turnkey machine tending system. It is designed to accommodate a broad range of machine tools and machine tending applications.

The *autoMate Universal* combines all the reliability of a Fanuc robot with the machine tending expertise that Matrix has become known for. It is the perfect solution for most machine tending applications.

#### Suitable Applications

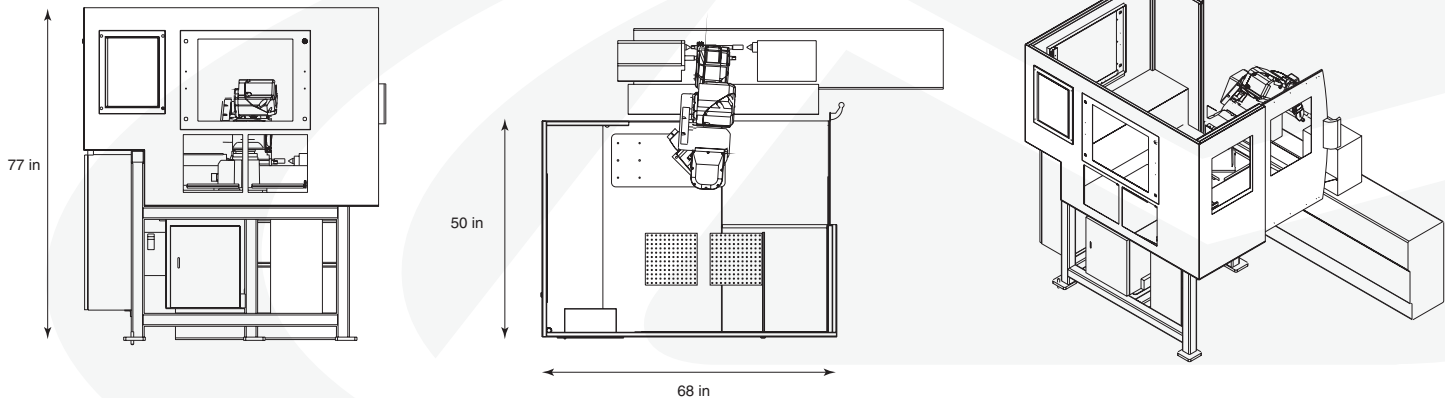
- Machine tending
- Palletizing
- Gaging and sorting
- Error proofing of components
- Deburring and other secondary operations
- Part cleaning and coolant recovery

#### Features & Benefits

- Small footprint - Sheet metal enclosure minimizes floor space
- Generous working payloads
- Large work envelope
- Main access door with integrated drip pan slides out of the way for operator access to machine
- Additional access panels for operator access to auxiliary equipment
- On board PLC for real time signal processing
- Operator panel with pushbuttons streamlines and simplifies operator interface
- Integral solenoid valves in robot J3 arm for actuation of end of arm tooling (EOAT)
- Robot size permits operation in tight work spaces
- Absolute encoder positioning eliminates homing at power up
- Hollow robot joint construction encloses all cables and hoses to eliminate snagging
- Auxiliary cables and connections routed to avoid interfering with robot work envelope

#### Available Options

- Custom designed end of arm tooling (EOAT) in single or dual gripper configuration
- Custom part tray design
- Filter/regulator with digital pressure switch
- Safety mats and other safety devices
- SPC and reject part transfer
- Alternate part infeed options (feeder bowls, conveyors, tray up and down stacking systems)
- Stations for deburring and other secondary operations
- Cleaning and coolant recovery solutions
- Gage interfacing
- Stack light
- Color, graphical, network-ready iPendant teach pendant
- Alternate input voltage options
- CSA mark robot
- CE mark robot
- Custom Factory Specifications
- Custom installation and training programs available
- Extended warranties available



(autoMate Universal Model with LR Mate 200iB shown)

## SPECIFICATIONS

	<i>autoMate Universal</i>	<i>autoMate Universal XL</i>
<b>Axes</b>	6	6
<b>Payload (kg)</b>	5	6 (10 optional)
<b>Reach (mm)</b>	700	951
<b>Repeatability (mm)</b>	+/- 0.04	+/- 0.08
<b>Motion Speed (deg/sec)</b>		
J1	180	200 (200)
J2	180	200 (200)
J3	225	260 (200)
J4	400	400 (400)
J5	330	400 (400)
J6	480	720 (520)
<b>IP Ratings</b>		
Body	IP65	IP54
Forearm	IP67	IP67
Wrist	IP67	IP67
<b>Pallet Dimensions (mm)</b>	300L x 300W x 300H	450L x 450W x 450H
<b>PLC</b>	Allen-Bradley MicroLogix	Fanuc Integrated PMC
<b>iPendant Teach Pendant</b>	Optional	Standard
<b>Robot Controller</b>	System R-J3iMate	System R-J3iC
<b>Available Vision</b>	Fanuc V-500 Vision	Fanuc iRVision
<b>Input Voltage</b>	220VAC / Single Phase	460VAC / 3 Phase

**FANUC**  
Robotics

Authorized  
System  
Integrator



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