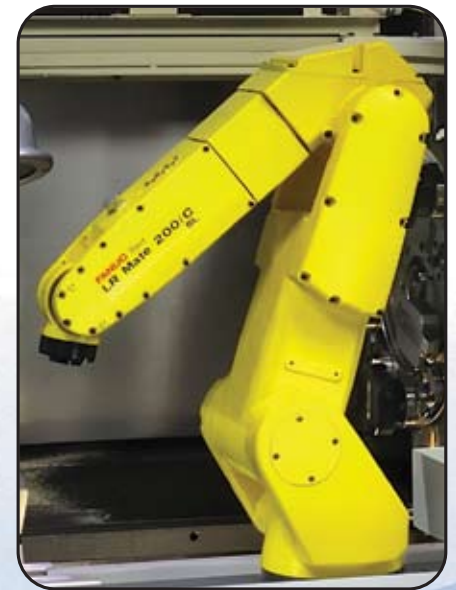


Robotic Part Loading/Unloading System

Featuring FANUC Robotics LR Mate 200iC/5L



- Retrofits to any new or existing CNC lathe or machining center
- Dramatically increases productivity
- Self contained robot cabinet with safety shields mounted on roll away slide system for ease of operator set up
- One unit can load and unload 1 or 2 machines
- Maximum payload of 11 lbs (5kg) including workpiece and gripper
- Available with various sizes of part conveyors which include part sensing (optional)



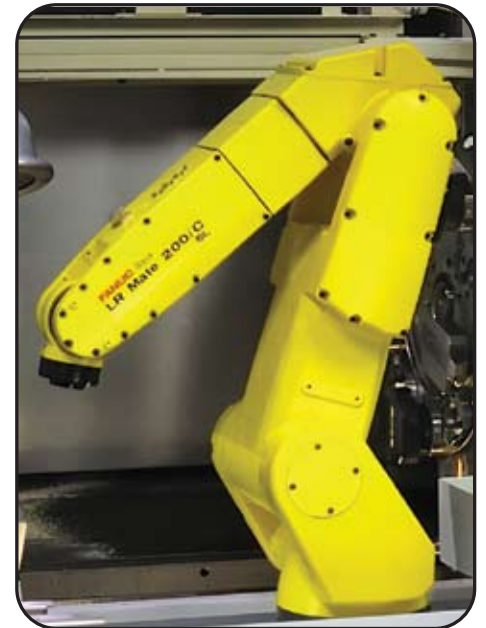
*Engineered and manufactured in the USA...
Supported throughout the world*

FANUC Robotics LR Mate 200iC/5L



Mechanical Arm Features:

- Light, Efficient, Accurate, Nimble (LEAN)
- Articulated arm with 6 degrees of freedom for maximum flexibility
- Designed for harsh environment (IP67 entire robot)
- Highly reliable industry-proven drive train
- World renowned FANUC brushless AC servo motors with absolute encoders (no homing) and fail-safe brakes
- Extremely low maintenance
- Large 11 lb (5 kg) maximum payload standard (work piece and tooling)
- 35.1 in (892 mm) maximum reach to limit of full articulation
- +/- 0.001" (+/- 0.03 mm) repeatability at full speed & payload in entire envelope
- Slim wrist for tight loading conditions
- High capacity wrist for larger tooling
- 2 double-acting solenoids built into arm for dual gripper control (3rd optional)
- 6 inputs (24VDC) standard on arm for gripper/part monitoring



Accurate cabinet position is ensured by push button pneumatic lock pin



FANUC Robotics R-30iA Mate Controller with I-Pendant

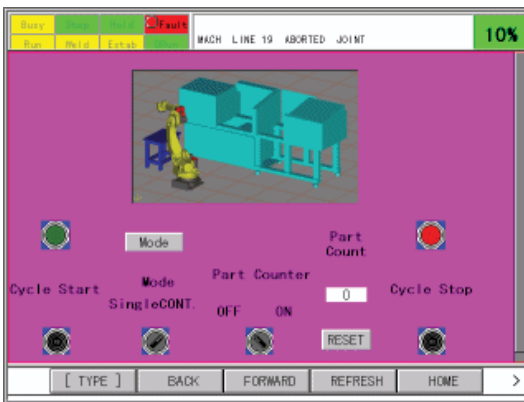
Controller Features:

- Highly reliable industry-proven multi-axis **FANUC** control technology
- Housed in industrial enclosure
- Capable of storing large number of programs for quick changeover
- iR Vision™ ready; integrated plug-and-play vision capability for highest flexibility robot guidance and error-proofing (optional)
- Choose RIA (US) or CEMark (Europe) compliant controller, CSA (Canada) certification available
- 200-220VAC single-phase (110VAC/15amp optional)
- Up to 24 axes of servo control
- Integrated PMC processor (soft ladder logic optional)
- Ethernet Port, 1 PCMCIA slot, RS232C standard, and 2 option slots standard
- 4m robot connection cables standard (7 & 14m optional)
- Web server
- Standard Digital I/O: 28in/24out 24VDC
- Optional Digital I/O: point-to-point (Model A) or remote (Model B) 512in/512out Max
- Optional Network I/O:
 - Ethernet I/O (EIP and EGD)
 - DeviceNet (slave)
 - Profibus (master/slave)
 - FANUC I/O Link
 - CC Link



I-Pendant Features:

- Bright, full-color, multi-window teach pendant (touch screen optional)
- On-board diagnostics with common-cause & remedy troubleshooting
- On-board help with robot operations manual access
- 10m connection cable
- Web-enabled programmable display
- Panel Wizard on-board for custom HMI screens
- HTML 3.2 & Javascript 1.1 for more advanced HMI screens
- Graphical display of production and cycle data
- Remote access for "echo" (standard) or full browsing access (optional)
- Ladder display and hot-edit for de-bugging (optional)



Since 1969, MIDACO has been a leader in providing innovative and quality solutions to improve manufacturing efficiency for companies worldwide.

Software Features:

- Handling Tool operating system software is easy to learn and use (shop-floor friendly, NO PC required)
- Patented Auto-Singularity Avoidance to ease robot jogging and program set-up
- Constant Path and Advanced Constant Path for quick start-up and maximum path control
- High-sensitivity Collision Guard protection
- Automatic Payload Identification
- Automatic Collision Recovery
- FTP program backup
- Multi-Tasking and Condition Monitoring for background I/O
- Soft Float for compliant robot motion to aid in variable part loading (optional)
- PMC soft ladder capability to monitor or control remote devices (optional)
- HMI Device allows touch-panel to be plugged directly into robot via SNPX protocol (optional)
- Many other software solutions available



Global support network 1-800-47-ROBOT (US) OR <http://fanuc.co.jp/en/contact/index.htm> (outside US)

FANUC Robotics is well known across the CNC industry, which means a larger pool of experienced operators. Web, formal classes, and onsite training is available. Offline simulation and programming available for PC (XP).

Since 1969, MIDACO has been a leader in providing innovative and quality solutions to improve manufacturing efficiency for companies worldwide.



MIDACO CORPORATION
2000 EAST TOUHY AVENUE
ELK GROVE VILLAGE, IL 60007 USA
PHONE: 847.593.8420
FAX: 847.593.8451
www.midaco-corp.com

**Visit our website at
www.midaco-corp.com**

