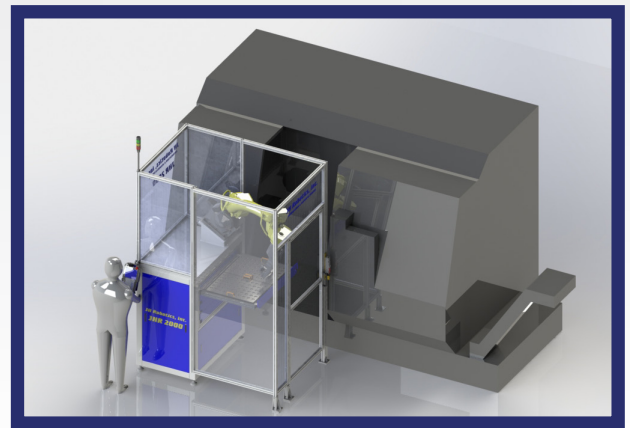
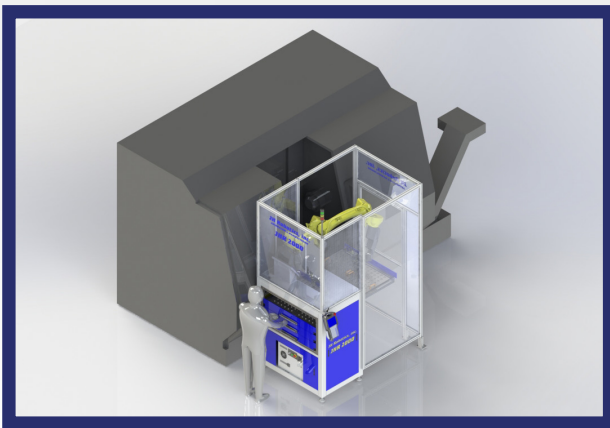


JHR-2000 SERIES **MACHINE TENDING ROBOTS**

TAKE YOUR WORKFORCE TO THE NEXT LEVEL

READY-TO-INTEGRATE



SYSTEM FEATURES:

- Pre-engineered, proven and easy to use robot machine tending cell.
- Adapts to any new or existing CNC Lathe, Mill, Grinder or EDM.
- Featuring the FANUC M-10iD/12 six axis robot with R-30iB Mate Plus Controller and Touch Screen Teach Pendant – robot mounted at an angle to optimize reach.
- Easy to use system controls – custom JHR operator panel on the touch screen teach pendant is used for system interface and messaging.
- Custom robot end of arm tooling sub-assembly included with (2) high-quality, Schunk-brand pneumatic actuators to allow for simultaneous load/unload cycles.
- Pneumatic valve & sensor block added to J3 robot joint for end of arm tooling control.
- Robot dress-out of air lines and sensor cables in the FANUC Solution Arm reduces system cost and improves reliability.
- Extrusion guarding system with safety interlocked access door.
- 4-Drawer part infeed/outfeed system included:
 - » Each drawer hold two part trays – each tray has a working space of approx. 14" x 23".
 - » Three drawer positions (operator, neutral and robot) allow drawers to be emptied and reloaded while robot works on different drawer.
 - » The number of drawers can be tailored per system, and will be based on the longest part length – parts longer than 4" will result in less drawers, etc.
- Pre-written robot software structure included for picking and placing from trays and for picking and placing from machine tool. Software and HMI operator panel designed to allow end user to setup parts easily on their own.

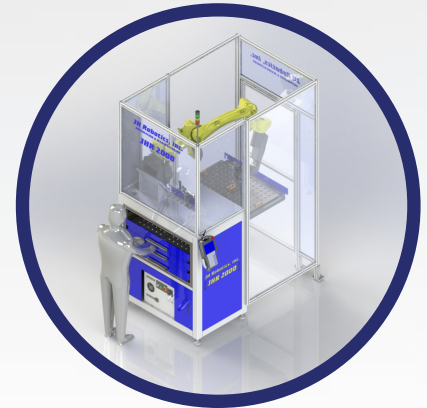
SYSTEM BENEFITS:

- Drastic productivity increases created by:
 - » Fast and repeatable load/unload times
 - » Reduced machine down-time – no breaks, lunches, sick days or vacation days
 - » Lights out operation – run robot on off-shifts & weekends
- Product quality improvements created by:
 - » Smooth and repeatable load and unload conditions
 - » Finished parts are kept separated on trays eliminating part to part contact
 - » Elimination of human error

JHR-2000 SERIES MACHINE TENDING ROBOTS

SPECIFICATIONS:

- FANUC M-10iD/12 robot – 12kg total payload, 1441mm reach
- FANUC software options: Collision Guard, DCS Position & Speed Check & Panel Wizard
- FANUC Terminal I/O Converter Board – includes 24Inputs/28Outputs
- For a two-actuator gripper assembly, the robot can handle up to 7.5lb parts
- For a single-actuator gripper assembly, the robot can handle up to 15lb parts
- Part capacity example: each drawer holds (120) 1.5" OD x 4" long parts (480 parts total)
- Drawer weight capacity: 200 lbs/each
- Typical Machine Dimensions: 72" long x 48" wide x 102" tall
- Utilities required for install: 208V-three phase-60Hz power, 80psi air
- FANUC Terminal I/O Converter Board – includes 24Inputs/28Outputs



SYSTEM OPTIONS:

- Turn-key Part Tray & Gripper Finger Tooling
- Turn-key Software setup and testing
- Robot-mounted Blow-off
- Part Audit Chute
- Long Arm Robot (FANUC M-10iD/10L model – 1636mm reach, 10kg payload)
- Collaborative Robot (FANUC CR-15iA model – 1441mm reach, 15kg payload)
- iRVision Capability (for picking randomly oriented parts or basic inspection)
- Safety Scanner (eliminates extrusion hard guarding & access door)
- Part Deburr
- Part Wash/Dry
- Part Gauging
- Part Marking/Labeling
- Machine Base Docking System (quick connect mechanical and electrical hardware)
- Various Communication Protocols (FANUC I/O Link, ProfiNet, Ethernet IP, etc.)

EMAIL OR CALL TODAY FOR SYSTEM PRICING:

EMAIL: sales@jhrobotics.com

PHONE: (607) 729-3758

