

Superior performance powered by the industries most complete Fully End-User Programmable Controls package, the *HRX-i-Series* from Harmo of Japan brings to every molder the tools necessary to bring value to every job, large or small. Smart Programming, fully editable screens and limitless I/O capacity are just a few of the hallmarks that make this the Robot of choice for those serious about automating molding machines to the greatest extent possible.

With pinpoint accuracy and repeatability, rugged durability, and high speed performance, i-Series Full Servo Extraction Robots are redefining the automation industry. These powerful yet very cost effective robots are sized for automating horizontal molding machines from 40 to 650 tons in both three and five axis configurations.



Like all of our Robotics and Automation Systems, i-Series robots are backed by the industry's largest customer service support group and a full compliment of factory trained automation technicians.

HRXi-Series Full Servo Robot – Fully End-User Programmable

Mechanical Advantages Include:

- All Axis AC Digital Servo Actuation - Absolute Encoder
- Three-Dimensional Axis Movement
 - Enhanced speed and process efficiency
- Thick-Walled Aluminum Extrusion Traverse Beam w/Steel Sub-Weldment
 - Superior vibration suppression
 - Maximum resistance to deflection during critical operations
 - THK Linear Guide Rail w/Large Block Bearings - All Axis
 - Requires only minimal lubrication
- C-Axis 90° Wrist Flip Unit
 - Programmable Part Extraction from Stationary or Moving Platen
 - No mechanical adjustments required
- One (1) Part Vacuum Circuit w/Detection
- One (1) Mechanical Circuit w/Detection
- One (1) Sprue Grip Circuit w/Detection
- SPI Ready w/32 Pin DIN Plug



Control Features Include:

- Large Format Touch-Screen Graphic User Interface
 - High-resolution color LCD display
 - Ergonomic design for superior grip & feel - light weight
 - Two (2) three position safety switches for enhanced safety
 - Soft-touch key pad for quick access to frequently used functions
 - Jog dial for easy axis position teaching
 - User-friendly voice guidance system
 - Screen saver mode
- Fully End-User Programmable – No additional Software / Hardware required
- Global Standard Open Network - DeviceNet Equipped
 - Industry standard I/O capacity
 - Store user created I/O for later use
- On-Board Mold Memory - 100 Setups



- Dual USB port equipped for unlimited mold memory
 - Easy program import / transfer between HRX robots
- Network Ready – Remote Monitoring & Programming from any Windows XP Professional Computer using Remote Desk Top – No other software necessary
- Teach On-the-Fly - Axis Speeds, Positions and Timers
- Standard Palletizing Feature - 99 Point per Axis
- Kick-Free – Enhanced Parts Take-Out - Standard
- First-Up Reject and Quality Sampling Modes
- Multi Layered Password Protection
- Programmer - Operators - Maintainer - Quality Specialist
- Traverse Beam Mounted Control Cabinet

Specifications:

- Air requirement is: 80 PSI
- Power Requirements: AC200 ± 20% (50 / 60 Hz) - Three Phase
- Order either Operator or Non-Operator Side Unload
- Two (2) Year Parts Warranty
- One (1) Year On-Site Labor (excluding travel expenses)

Available Options

- Two-Stage Telescopic Vertical Arm Construction for Low Overhead Environment (All HRX-300 and larger Robots are Two-Stage Telescopic Standard)
- A-Axis Pneumatic Two-Position 0/90 or 0/180 Degree Wrist Rotation
- Additional Pressure and / or Vacuum Circuit(s)
- Machine Platen Spacer with CUSTOM Mounting Bolt Hole Pattern
- EOAT Quick Change System - Robot & EOAT Side
- Extended Stroke Lengths (varies by model)
- End of Beam Support
- EuroMap 12 or 67 IMM Interface (SPI Interface / Plug is Standard)
- SPI Interface Plug Kit (10 amp / 32 pin) for Molding Machine Side
- Transformer for Voltages other than 200-220 VAC / Three Phase