



## Motoman Certified Pre-Owned Robots

A Motoman® certified pre-owned robot is, first and foremost, a Motoman product. The robot may not be new, but our reputation for quality and dependability never wears out. You can find Motoman robots in production, hard at work, for many years beyond their originally anticipated life span.

A certified pre-owned Motoman robot can offer many years of highly productive, reliable performance at a fraction of the cost of a new robot (60%). That's why Motoman Robotics customers continue to choose to return and invest their capital in Motoman equipment, both new and pre-owned.

### ***Rigorous Testing, Inspection***

We work hard to earn that kind of loyalty. That's why each certified pre-owned robot must also pass a rigorous 60+ point testing and inspection process (see details on reverse) performed by factory-trained technicians.

This detailed and intensive process includes backlash evaluation on each robot axis; a weighted 24-hour run; torque monitor testing; and repeatability software analysis. *Every robot is calibrated using our MotoCal™ process before it leaves Motoman Robotics to ensure the utmost accuracy for your process.* A copy of all data gathered during this exhaustive process



is attached to the robot when shipped.

### ***Software Upgrades***

Certified pre-owned robots include the latest software upgrade or we can match the existing software version at your facility for continuity, if you prefer. Standard manuals on CD for your robot arm and controller are included.

### ***One-Year Parts Only Warranty***

Every certified pre-owned Motoman robot is backed by a one-year parts warranty. Motoman Robotics will provide a replacement part for any part that fails in the first 12 months. This warranty period begins the day the robot ships to your facility.

### ***Availability***

Motoman Robotics' inventory of certified pre-owned robots (and certified pre-owned part positioners) is constantly changing.

For current robot availability, please contact Motoman Robotics Customer Service at **937.847.3200**, your local Regional Technical Manager or Regional Sales Manager.

There are plenty of used robots, positioners and equipment out there, but they don't have to live up to Motoman Robotics' factory reputation for quality and reliability. When you buy a certified pre-owned robot directly from Motoman Robotics, you know what you are getting and are assured that we will stand behind it.

## Over 60+ Item Multi-Point Inspection and Rebuild

Controller Function Test and Inspection	Teach Pendant Function Test and Inspection	Manipulator Function Test and Inspection
<ul style="list-style-type: none"> <li>■ Play button and light</li> <li>■ Servo enable button and light</li> <li>■ Hold button and light</li> <li>■ Start button and light</li> <li>■ Remote button and light</li> <li>■ Emergency Stop (E-stop) button operation</li> <li>■ Alarm light</li> <li>■ Edit lock key switch</li> <li>■ Brake-release buttons</li> <li>■ Brake-release lights</li> <li>■ Main ON/OFF disconnect</li> <li>■ Update software</li> <li>■ Door alignment</li> <li>■ Latch alignment</li> <li>■ Door seal integrity</li> <li>■ Internal board retaining screws present and tight</li> <li>■ Terminal strip screws present and tight</li> <li>■ Wireway and cable dressing covers present and attached</li> <li>■ All internal connectors attached and fully seated</li> <li>■ New batteries in the controller</li> <li>■ Internal cooling fans</li> <li>■ External cooling fans</li> <li>■ Servo-pack cooling fins free of debris</li> <li>■ Verify controller battery voltage</li> <li>■ All fuses (and note presence bag containing spare fuses)</li> <li>■ Controller cover plates attached</li> <li>■ External cabinet condition</li> </ul>	<ul style="list-style-type: none"> <li>■ Key pad buttons</li> <li>■ Key pad LEDs</li> <li>■ Emergency Stop (E-stop) button</li> <li>■ Servo enable switch</li> <li>■ Pendant case condition</li> <li>■ Pendant screen condition</li> <li>■ Hand strap</li> <li>■ Teach pendant cable condition</li> </ul>	<ul style="list-style-type: none"> <li>■ Abnormal vibration</li> <li>■ Backlash evaluation on each axis</li> <li>■ Verify manipulator battery voltage</li> <li>■ Remove all inspection covers and note any abnormal wear</li> <li>■ All internal wiring harness connectors attached and fully seated</li> <li>■ Servo-on light</li> <li>■ Torque monitoring</li> <li>■ Repeatability</li> <li>■ Grease condition in reducers</li> <li>■ Castings cleaned</li> <li>■ Castings painted</li> <li>■ New wiring harness</li> <li>■ New batteries in the robot</li> <li>■ Bearing grease replenishment</li> <li>■ Check seals for leaks</li> <li>■ New drives, as required</li> <li>■ New grease in reducers</li> <li>■ Robot is properly assembled, per factory and ISO specifications</li> <li>■ All hardware is properly torqued using calibrated equipment</li> <li>■ Weighted 24-hour run</li> <li>■ Torque monitor analysis</li> <li>■ Repeatability software analysis</li> <li>■ MotoCal calibration</li> <li>■ Final coat of paint</li> <li>■ Attached copy of all robot test data</li> <li>■ Apply appropriate robot and safety decals</li> <li>■ Final inspection by second trained technician</li> </ul>