

PREVENTATIVE MAINTENANCE & INSPECTION



Maximize Robot Lifespan with Preventative Maintenance

The primary goal of the Nachi Preventative Maintenance (PM) program is to extend the life of your robot while reducing breakdowns and downtime. Depending on the robot's size, the cost for a PM averages between \$800 and \$2100. We offer discounts for multiple robot PM orders. For more information, please contact our service department.

Controller Inspection and Maintenance

- Dust removal from controller interior
- Discharge resistor cleaning and inspection
- Clean controller cooling fans and check functionality
- Inspect major controller modules (Teach Pendant, CPU type)
- Clean operation panel and teach pendant
- Clean controller exterior
- Inspect main cables for damage, dirt, and loose connection
- Clean out transformer compartment
- Removal of any foreign objects from controller interior
- Replace controller batteries if needed



Manipulator Inspection and Maintenance

- Inspect Motor & Encoder connectors at motor
- Inspect robot wiring through base
- Inspect over travel limit switch trip dogs + screws
- Check all external manipulator bolts
- Check user E.O.A.T. connecting bolts
- Inspect seals for grease leaks
- Check main interconnecting cables for damage (robot to controller)
- Inspect main cables for dirt or loose connections at robot base
- Inspect external robot wiring for cuts or damage
- Inspect counter balance clevis for wear
- Check arm clear switch (If Equipped)
- Inspect A Trac covers and wiring for damage (If Equipped)
- Replace manipulator encoder batteries if needed
- Verify proper belt tension (where applicable)



Performance Checks

- Check for smooth, quiet operation of each axis (Teach Mode)
- Check over travel limit switch and verify proper operation
- Check brake function by using the brake release switch (Motors Off)
- Check for all axis' rigidity by applying load to each (Motors Off)
- Backlash Check

Lubrication

- Lubricate major axis per robot model recommendation
- Lubricate minor axis per robot model recommendation
- Grease sampling and analysis with results entered into Nachi Database for tracking (for applicable axis)

Additional Options

- Manipulator encoder battery replacement (Cost determined by robot model)
- Grease sampling and analysis (\$50 per axis)

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ROBOTIC SYSTEMS INC.

The preliminary list of specific tasks for the inspection are listed above. Upon completion of inspection an itemized list of any replacements and/or problems will be supplied.

www.nachirobotics.com

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