Nachi Robotic Systems

MZ Robot & the Direct Teach Function

Perfect for any application
Lightweight, compact
Nachi is redefining what it is to be a small robot manufacture
MZ04 & MZ07
Application Examples

Assembly (force sensor)
Picking (Vision sensor)
Packing
Inspection (Vision sensor)
Debarring
Machine loading
Finishing (Force sensor)
Sealing
Available on MZ Series Robots
- Intuitively move the robot to position by hand
- Program using interpolation and posture methods
- Quick connect to share hardware on several robots (RMU)

<table>
<thead>
<tr>
<th>Item</th>
<th>MZ Series</th>
<th>Universal Robot 05</th>
<th>KUKA LWR</th>
<th>Coordination Robot (Fanuc)</th>
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<td>Coordination Robot (Fanuc)</td>
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<tr>
<td>Direct Teaching</td>
<td>Hand Guide</td>
<td>Direct Arm Drive</td>
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<tr>
<td>Each Axis Operation</td>
<td>○※</td>
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<td>○</td>
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<tr>
<td>Liner Interpolation</td>
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<td>TCP Standard Motion</td>
<td>○</td>
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<td>N/A</td>
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<tr>
<td>Recording Method</td>
<td>TP Combined Use</td>
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Robot Monitoring Unit uses **functional safety** technology that allows for reduction of cell footprint and introduction of close human to robot process application support.

Robot Monitoring Unit is compliant with International Standards, **IEC 61508 SIL3, ISO 13849-1 PLe cat. 4.**

Advantages:
- Saves space
- Reduced equipment
- Improved safety
- Improving tact time
- Collaboration with humans

Available models:
- Discreet (-20)
- EthernetIP Safe (-30)
- ProfiNet Safety (-40)

Rated to ISO10218-1:2011 5.10.4 Safety-rated monitored stop

Safe Robot Technology
DT Grip quick connect bracket mounts to side of the robot flange.

Tap holes on side of the MZ04 flange on MZ04

Easy Removal

Direct Teach is quick connect and can be used for multiple robot arms. DT Grip mount is multidirectional to adjust to robot angle, path and program.
Direct Teach Portability
RMU Specification
Hardware / Software Included in Kit

Robot Arm Hardware

• Mounting Hardware for Robot Face Plate of DT Teach Grip Hardware and Force Sense (Quick Connect and Multi-Directional)

• Robot Handle Grip and 6 Axis Force

• Sensor Cable connection point

CFD Controller Hardware

• Force Control Board (Analog Input)

• Portable DT Function Box, with RMU and cables to CFD from DT Grip.

• DT Software Package, includes FlexGUI Interface Screens

Available on all MZ Series Robots from Nachi