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Terrific
The smallest robot controller in its class.

Industrial robot controller
MOTOMAN-NXC100
MOTOMAN-NXC100 - The smallest robot controller worldwide

Features
- Compact and sturdy design
- Lightweight
- Easy to install
- Multitasking
- Internal SPS
- High performance by industrial PC
- Based on the NX100 controller - Equal programming pendant and equal programming language Inform III is used with the NXC100 controller.

Ideal for robotic applications such as small part handling, assembly and packaging small items.

The NXC100 controller is especially designed to control the following MOTOMAN robot types:
- HP3
- HP3XF
- HP5
- HP3L

Programming pendant (PHG) ergonomical, light and easy

- 6.5” colour LCD touch screen display
- Touch screen
- Windows operating
- Operation keys start/stop emergency off
- Cursor key
- Flash card slot
- Display can be individually set for each application
- 3 position dead man switch (Rear side not visible)

- Easy and fast programming
- Several user levels – from operation to maintenance
- Help function

High performance controller for small places - MOTOMAN-NXC100
### Control cabinet

<table>
<thead>
<tr>
<th>Dimension</th>
<th>183 (W) x 485 (H) x 300 (D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>Approx. 16 kg</td>
</tr>
<tr>
<td>Cooling system</td>
<td>Indirect cooling</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>0°C to +40°C (operation)</td>
</tr>
<tr>
<td></td>
<td>–10°C to +60°C (transport and storage)</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>Max. 90% non-condensating</td>
</tr>
<tr>
<td>Power supply</td>
<td>1-phase 200/220 VAC at 50/60 Hz</td>
</tr>
<tr>
<td>Digital I/O</td>
<td>12 inputs/14 outputs (standard) (Expandable to 40 inputs/40 outputs)</td>
</tr>
<tr>
<td>Analogue I/O</td>
<td>3 channels (optional)</td>
</tr>
<tr>
<td>Positioning system</td>
<td>Absolute encoder / serial interface</td>
</tr>
<tr>
<td>Program memory</td>
<td>60,000 steps, 10,000 instructions and 10,000 PLC steps</td>
</tr>
<tr>
<td>Interface</td>
<td>RS-232C</td>
</tr>
</tbody>
</table>

### Maintenance

| Functions                                      | System monitor, internal maintenance clocks (e.g. Servo power-on time) |
|                                               | Classifies errors and major/minor alarms and displays the data |
| Self-diagnosis                                 | Alarm messages for peripheral devices |
| User alarm display                             | Alarm messages and alarm history |
| Alarm display                                  | Simulated enable/disable outputs |
| I/O diagnosis                                  | Automatic calibration of TCP (Tool Center Point) |

### Programming pendant

<table>
<thead>
<tr>
<th>Dimension</th>
<th>200 (W) x 340 (H) x 60 (D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Touchscreen display</td>
<td>6.5&quot; colour LCD (640x480 pixels)</td>
</tr>
<tr>
<td>Weight</td>
<td>1.3 kg</td>
</tr>
<tr>
<td>Coordinate system</td>
<td>Joint, Rectangular/cylindrical, Tool, User-coordinates</td>
</tr>
<tr>
<td>Speed adjustment</td>
<td>Fine adjustment possible during operation or teach mode</td>
</tr>
<tr>
<td>Shortcuts</td>
<td>Direct access keys and user selectable screen keys possible</td>
</tr>
<tr>
<td>Language</td>
<td>English</td>
</tr>
<tr>
<td>Interface</td>
<td>Compact Flash card slot</td>
</tr>
<tr>
<td>Operating system</td>
<td>Windows CE</td>
</tr>
</tbody>
</table>

### Safety features

| Specifications                                      | Dual-channel safety system (Emergency stop, safety interlock), 3-position Dead-man’s switch, European safety standard (ISO10218) |
| Collision avoidance                               | Collision avoidance zones and radial interference zones |
| Collision detection                               | Monitors robot axes’ torque levels |
| Machine lock                                      | Test-run peripheral device without robot motion possible |

### Programming

<table>
<thead>
<tr>
<th>Programming language</th>
<th>INFORM III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robot motion control</td>
<td>Joint motion, linear, circular, spline interpolation</td>
</tr>
<tr>
<td>Speed adjustment</td>
<td>Joint motion (% of maximum)</td>
</tr>
<tr>
<td></td>
<td>Interpolation (mm/sec; cm/min; inch/min)</td>
</tr>
<tr>
<td></td>
<td>Angular velocity (°/sec)</td>
</tr>
</tbody>
</table>

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Technical data may be subject to change without previous notice, NXC100, A-09-2005
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