Realizing automated skillful operations by using direct teaching by hand*

Faithfully replicating quick and precise human motion by 6 axis posture control
Contributing to productivity improvement and cost reduction by simple direct teaching

Parallel Link Robot
Flexible posture control by 6 independent axis
Quick and precise motion using light arms

Simple direct teaching
Hand-guided intuitive direct teaching
Utilizing digitized skillful worker’s know how

Various skillful operations are available.
- Insertion
- Labeling
- Soldering
- Assembling
- Parallel Link Robot Application
- Wiring
- Adhesive application

*Direct teaching by hand: Hand-guided intuitive operation by directly moving an end effector with human hand to store the motion and technique
**System structure**

- Robot main body
- Control box (Controller, amplifier, power supply)
- Foot switch
- LAN
- Computer
- I/O
- RS232C
- Emergency stop
- Main power switch
- Programmable controller
- Machine vision system

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**External dimensions and movable area**

![Diagram of system structure]

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**Basic specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model number</td>
<td>AP-3310A0010</td>
</tr>
<tr>
<td>Control axis numbers / drive system</td>
<td>6-axis/AC servomotor</td>
</tr>
<tr>
<td>Teaching method</td>
<td>Point teaching, direct teaching</td>
</tr>
<tr>
<td>External dimensions Body</td>
<td>634 W x 641 D x 595 H mm (On installation)</td>
</tr>
<tr>
<td></td>
<td>400 W x 420 D x 250 H mm</td>
</tr>
<tr>
<td>Mass Body</td>
<td>53kg</td>
</tr>
<tr>
<td></td>
<td>20kg</td>
</tr>
<tr>
<td>Recommended movable area</td>
<td>Diameter φ400mm, height 150mm (during horizontal movement)</td>
</tr>
<tr>
<td>Swing/revolving angle</td>
<td>±30°*(dependent on position)</td>
</tr>
<tr>
<td>Repeatability</td>
<td>±0.02mm</td>
</tr>
<tr>
<td>Maximum movable mass</td>
<td>1.5kg</td>
</tr>
<tr>
<td>Power supply</td>
<td>Single phase 200 - 230V AC ±10% 50/60Hz 6A</td>
</tr>
</tbody>
</table>

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**Safety Cautions**

- Please read the User’s Manual carefully to familiarize yourself with safe and effective usage procedures.

**Inquiries...**


Panasonic Group products are built with the environment in mind.  
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*Changes in specifications and appearance may be made without notice for product improvement.  *Recycled paper is used for this Catalog.