Outline

Overview
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Advantages and benefits
Targeted industry
Dimensions
Specifications
Others
OmniCore™ Controller
Targeted applications
Summary
Overview

Differentiated Value Proposition

Fast, cost-effective and, because it’s from ABB, accurate.

Release working cell active area to achieve even better productivity
# Features

IRB 910INV Preview

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reach (mm)</td>
<td>350/550</td>
</tr>
<tr>
<td>Payload (kg)</td>
<td>3/6 (Max)</td>
</tr>
<tr>
<td>Position repeatability (mm)</td>
<td>TBC</td>
</tr>
<tr>
<td>Protection</td>
<td>IP30</td>
</tr>
<tr>
<td>Cleanroom</td>
<td>CR4 (Optional)</td>
</tr>
<tr>
<td>Footprint (mm)</td>
<td>200x 200</td>
</tr>
<tr>
<td>Mounting</td>
<td>Inverted</td>
</tr>
</tbody>
</table>
# Advantages and benefits

Smaller and yet perform better

<table>
<thead>
<tr>
<th>Advantages</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal cable design</td>
<td>Productivity achieved in narrow space</td>
</tr>
<tr>
<td>The best repeatability in the class&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Running the most accurate manufacturing process given limited space</td>
</tr>
<tr>
<td>Fast cycle time</td>
<td>Up to 16 I/Os for more sophisticated applications</td>
</tr>
<tr>
<td>Compact and lightweight</td>
<td>To be able to have a more sophisticated tool with larger air flow control</td>
</tr>
<tr>
<td>Cleanroom support &amp; IP54 support&lt;sup&gt;2&lt;/sup&gt;</td>
<td></td>
</tr>
<tr>
<td>The only model in the class&lt;sup&gt;3&lt;/sup&gt; offers 3 Ф6 air channels</td>
<td></td>
</tr>
</tbody>
</table>

<sup>1</sup>Compared with IRB120

<sup>2</sup>IP54 as option in the 2<sup>nd</sup> wave

<sup>3</sup>In the class of 350/550 rach with max 3/6 kg payload
Targeted industry
Automotive, electronics and other general industries

Automotive
Electronics (3C)
Others (General Industries)
Dimensions
Outline Manipulator

IRB 910INV – 3/0.35

IRB 910INV – 6/0.55
Dimensions
Outline Manipulator

Front view

Side view

Top view
Dimensions
Working Range

IRB 910INV
Others

Calibration

Axis 1

Axis 2
Others

Customer Interfaces

A
8 x customer signals 60V, 2A
B
4 x air · 5bar
(3 x $\phi 6$, 1 x $\phi 4$
C
Ethernet
D
Break Release
Others

Mounting Interfaces

IRB 910INV – 3/0.35

IRB 910INV – 6/0.55
## Specifications

<table>
<thead>
<tr>
<th>Robot version</th>
<th>Reach (mm)</th>
<th>Payload (kg)</th>
<th>Armload (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRB 910INV-3/0.35</td>
<td>350</td>
<td>3 (max.)</td>
<td>-</td>
</tr>
<tr>
<td>IRB 910INV-6/0.55</td>
<td>550</td>
<td>6 (max.)</td>
<td>-</td>
</tr>
</tbody>
</table>

### Performance (according to ISO 9283)

<table>
<thead>
<tr>
<th></th>
<th>1 kg picking cycle</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRB 910INV-3/0.35</td>
<td>0.35 s</td>
</tr>
<tr>
<td>IRB 910INV-6/0.55</td>
<td>0.40 s</td>
</tr>
</tbody>
</table>

### Technical information, physical

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions robot base</td>
<td>200 x 200 mm</td>
</tr>
<tr>
<td>Weight IRB 910INV-3/0.35</td>
<td>19 kg</td>
</tr>
<tr>
<td>Weight IRB 910INV-6/0.55</td>
<td>22 kg</td>
</tr>
</tbody>
</table>
OmniCore™ Controller
IRB 910INV is Equipped with The State-of-the-art Controller

The first offering from ABB’s new era of flexible, intelligent and tailored solutions
A impressive range of controllers to deliver the ideal solution for every need
Designed for the rigorous performance and reliability needed to support 24/7 production of high-mix, low-volume products in shorter product cycles
Significant size reduction for installation space savings.
With the same superior precision, cycle times and speed that ABB is renowned for the new controllers can tackle the toughest challenges
Fast time to market
Smaller
High throughput
The ABB Ability™ for the connected “Factory of the Future”
Targeted Applications
Loading & Unloading/Assembly & Testing
Targeted applications

Application Examples

1. Assembly
2. Screw Driving
3. Rubber Insertion
4. Labeling
5. Soldering
6. Tampon Printing
7. Dimension Measuring
8. Function Testing
9. Filming
10. LCD Panel Stacking
11. Picking & Placing
12. Sealing
13. Packaging
14. Loading & Unloading
15. Sorting
16. Testing
17. More...

Flexibility

Higher Payload

Better Performance

Slimmer Body
Smaller Footprint
Summary
Outstanding Performance Without Space Headaches

Productivity Without Worrying About Space

- Flexibility & productivity within very limited space
- Running the most accurate manufacturing process given very limited space
- Handling heavier operations with more complex tool or end effector
- Up to 16 I/Os for more sophisticated applications