IRB 5510
Medium size painting robot based on IRB5500 platform
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Introduction

IRB5510 replaces IRB580, consolidate the medium size painting robot at IRB5500 platform
More compact foot print
Target customer and markets

**Target Market**

Tier 1, 2  
General industry  
Some dedicated use cases for Automotive OEMs

**Application**

Painting for small work piece  
Flaming  
Opener
Product features

Specification

Share ~70% parts with IRB5500
Foot print is 15.8% less than IRB580
5% less weight than IRB580
Reuse the design of IRB5500, eliminate the parallel rod to control the horizontal arm up/down
Pump cabinet solution is available
One variant is available with 2.6m reach instead of IRB580
2.2&2.6m reach

Options on manipulator
– Single Hose guide
– ACU on vertical arm (axis 2)
– Function valves (8-48) on vertical arm (axis 2)
– FOSI sensor interface including bell rotation sensor
– Prepared for assembly of PA components on horizontal arm, no process arm plate (slim arm)
Vertical arm – 1100 mm

Specification

ACU
8-48 Function valves
FOSI Sensor interface
Puno – IRB 5510, Hose routing on vertical arm

Specification

1. Attachment prepared for dual hose guide (DTO)
2. Single hose guide will be standard option
3. PA components shifted to the right for optimized hose routing
4. Only "robot configuration A"
Horizontal arm 1500 mm
IRB 5510 vs IRB 580

1. Re-use of cover from IRB 5500 slim arm. Cover is used as mounting plate for PA.
2. Clamp for hose guide
3. Clamp for hoses
4. Din rail for assembly of PA components
5. Paint inlet
Height compared to IRB 580

IRB 5510 vs IRB 580
IRB 5510

Working area

Working area

Working area axis 1 (±105°)
## Technical information

### Specification

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>Payload (kg)</strong></td>
<td>13</td>
</tr>
<tr>
<td><strong>Protection</strong></td>
<td>IP67 (wrist IP54)</td>
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<tr>
<td><strong>Ex approval</strong></td>
<td>Explosion protected Ex i/Ex p/ Ex c for installation in hazardous area Zone 1 &amp; Zone 21 (Europe) and Division I, Class I &amp; II.</td>
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<td><strong>Mounting</strong></td>
<td>Floor, elevated, inverted</td>
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<tr>
<td><strong>Main voltage</strong></td>
<td>200 - 600VAC, 3-phase, 50/60 Hz</td>
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<tr>
<td><strong>Robot footprint (mm)</strong></td>
<td>581 x 717,5</td>
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<td><strong>Robot controller (mm)</strong></td>
<td>1450 x 725 x 710</td>
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<tr>
<td><strong>Robot unit weight (kg)</strong></td>
<td>587</td>
</tr>
<tr>
<td><strong>Robot controller (kg)</strong></td>
<td>180</td>
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<tr>
<td><strong>Static repeatability (mm)</strong></td>
<td>0.15</td>
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