IRB 460
The compact, high speed palletizer
IRB 460
Overview of Main features

- Fastest palletizing robot in its class
- Compact to fit into restricted areas and tight cells
- Integrated process cabling
- ABB grippers and robot are fully supported in ABB palletizing software
- The 4-axis design is optimized for palletizing
  - Shorter cycle time
  - Lower weight of robot arm
  - Higher payload
  - Lower complexity
IRB 460
Focus Applications

- High speed and robust – designed for high speed bag palletizing

- Compact - designed for end of line palletizing
IRB 460 High speed palletizer
Smallest member in the palletizing family

<table>
<thead>
<tr>
<th></th>
<th>IRB 460</th>
<th>IRB 660</th>
<th>IRB 760</th>
</tr>
</thead>
<tbody>
<tr>
<td>Payload  (kg)</td>
<td>110</td>
<td>180/250</td>
<td>450</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>925</td>
<td>1,750</td>
<td>2,310</td>
</tr>
<tr>
<td>Repeatability (mm)</td>
<td>0.2</td>
<td>0.05</td>
<td>0.03</td>
</tr>
<tr>
<td>Power consumption (kW)</td>
<td>3.67</td>
<td>3.17/2.36</td>
<td>2.75</td>
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<tr>
<td>Protection</td>
<td>IP 67</td>
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</tr>
<tr>
<td>Temperature range</td>
<td>0-45°C</td>
<td>0-50°C</td>
<td>0-45°C</td>
</tr>
<tr>
<td>Cycles/hr with 60 kg payload</td>
<td>2,190</td>
<td>1,570/1360</td>
<td>1,500</td>
</tr>
</tbody>
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Key data

- Payload: 110 kg
- Reach: 2,400 mm (to center of axis 4)
- Height: 1,928 mm
- Foot print: 1,007 x 720 mm
- Weight: 925 kg
- Protection: IP67
The world’s FASTEST palletizer

A well defined cycle - the industry benchmark.
From A to B and back to A

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<td>2,190</td>
<td>2,040</td>
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Working Range
IRB 460-110/2.4
Load diagram
### Axis work range and speed

<table>
<thead>
<tr>
<th>Axis</th>
<th>Axis range</th>
<th>Axis speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Axis 1</td>
<td>+165° to -165°</td>
<td>145 °/s</td>
</tr>
<tr>
<td>Axis 2</td>
<td>+85° to -40°</td>
<td>110 °/s</td>
</tr>
<tr>
<td>Axis 3</td>
<td>+120° to -40°</td>
<td>120 °/s</td>
</tr>
<tr>
<td>Axis 6</td>
<td>+300° to -300°</td>
<td>400 °/s</td>
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</tbody>
</table>
IRB 460-110/2.4
Key dimensions
IRB 460
Mechanical mounting interfaces

6xM10 mounting holes on upper arm for mounting of external vacuum hose
Up to 35 kg to be deducted from the max payload of the robot

6xM8 mounting holes on wrist unit
Additional options

- Color
- Media and communications
  - CP/CS + ½” air (16 bar)
  - CP/CS + DeviceNet or PROFIBUS + ½” air (16 bar)
- Connector kits
  - On foot
  - On upper arm
- Work range limit axis 1
- Safety lamp
- Fork lift device
- RoboCare
- Warranty
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