Klas Bengtsson, Product Manager, IRB 760

IRB 760
The full layer palletizer
IRB 760
Overview of Main features

- Fastest palletizing robot in its class
- Compact to fit into existing packing lines
- Integrated process cabling
- Strong wrist unit for handling large inertia
- The 4-axis design is optimized for palletizing
  - Shorter cycle time
  - Lower weight of robot arm
  - Higher payload
  - Lower complexity
IRB 760
Focus Applications

- Reach and payload optimized for full layer palletizing of
  - Beverage
  - Chemicals
  - Building material
  - Food
  - And more…
# IRB 760 Full layer palletizer

Largest 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>1750</td>
<td>2310</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>
</tr>
<tr>
<td>Protection</td>
<td>IP 67</td>
<td>IP 67</td>
<td>IP 67</td>
</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>1,570/1,360</td>
<td>1,500</td>
</tr>
</tbody>
</table>
Key data

- Payload: 460 kg
- Reach: 3,180 mm (to center of axis 4)
- Height: 2,504 mm
- Foot print: 1,140 x 800 mm
- Weight: 2,310 kg
- Protection: IP67
IRB 760
The world’s FASTEST full layer palletizer

A well defined cycle - the industry benchmark.

From A to B and back to A

<table>
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<tr>
<th>Payload</th>
<th>60 kg</th>
<th>450 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cycles per hour</td>
<td>1,500</td>
<td>880</td>
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</tbody>
</table>
Working Range
IRB 760-450/3.2
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>+180° to -180°</td>
<td>85 °/s</td>
</tr>
<tr>
<td>Axis 2</td>
<td>+85° to -42°</td>
<td>85 °/s</td>
</tr>
<tr>
<td>Axis 3</td>
<td>+120° to -20°</td>
<td>85 °/s</td>
</tr>
<tr>
<td>Axis 6</td>
<td>+300° to -300°</td>
<td>160 °/s</td>
</tr>
</tbody>
</table>
IRB 760-450/3.2
Work range and dimensions
IRB 760
Mechanical mounting interfaces

Same tool flange as IRB 7600

Same foot as IRB 7600
IRB 760
150 kg extra load permitted on frame
Additional options

- Color
- Media and communications
  - CP/CS + DeviceNet or PROFIBUS
    + 2 x ½” air (16 bar)
- Connector kits
  - On foot
    - On upper arm
- Work range limit axis 1
- Extended work range axis 1
- Safety lamp
- Fork lift device
- RoboCare
- Warranty