Leading ABB’s palletizing offering is the compact IRB 460 - the fastest palletizing robot in the world. The IRB 460 is perfect for end-of-line palletizing and bag palletizing applications. The 4-axis robot is the fastest of its kind and its small footprint makes it ideal for fitting into existing packing lines.

**Shorter cycle times**
The IRB 460 is the world’s fastest palletizing robot, capable of significantly shortening cycle times and raising productivity for end-of-line and bag palletizing. With a reach of 2.4 m and 110 kg payload capacity, this compact, four-axis robot can achieve up to 2,190 cycles/hour with a 60 kg load. That’s 15% faster than its nearest rival.

**High precision movements**
Utilizing ABB’s patented motion control software, QuickMove™ and TrueMove™, the IRB 460 ensures palletizing is carried out with smooth movements and high path accuracy. This means even the most sensitive products will be handled with great care without losing cycle time.

**Higher output from a smaller footprint**
The compact design of the IRB 460 allows pallets to be placed 20% closer to the robot as compared with competitors’ robots with similar speeds and payloads. This can increase productivity by up to 3%.

**Low cost of ownership and increased productivity**
The robust and rigid design of the robot ensures high uptime and low maintenance costs and the integrated process cabling helps extend life and reduces wear. The three-year warranty package RoboCare ensures worry-free operation of robots at a fixed cost is offered. This includes ABB wireless Remote Services where ABB experts monitor robots and suggest optimized maintenance to further increase productivity.

**Faster, easier programming**
The user-friendly software, RobotStudio with Palletizing PowerPac, which runs on a regular PC, lets users who have no robot programming experience create programs and simulations and design palletizing installations. The software is used to “configure” palletizing systems rather than program them and reduces programming time by up to 80%.

**Unrivalled experience and global support**
With more than 25 years of experience in the palletizing sector, ABB is a multinational corporation that has a sales and service organization in 53 countries and over 100 locations.

**Complete palletizing solutions**
By combining the IRB 460 high speed palletizer with the ABB FlexGripper Claw and RobotStudio with Palletizing PowerPac you get the fastest robotic bag palletizing system in the world. With all elements working together path accuracy is optimized to ensure that your products will not only be handled very fast, but also with the utmost care. With an ABB robot solution palletizing will never be a bottleneck; either now or in the future.

**Main applications**
- Palletizing
- Depalletizing
- Material handling
**Specification**

<table>
<thead>
<tr>
<th>Robot version</th>
<th>Reach (m)</th>
<th>Handling capacity (kg)</th>
<th>Armload (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRB 460-110/2.4</td>
<td>2.4</td>
<td>110</td>
<td></td>
</tr>
</tbody>
</table>

**Electrical Connections**

- **Supply voltage**: 200-600 V, 50-60 Hz
- **Power consumption**: ISO cube 3.67 kW

**Physical**

- **Robot base**: 1007 x 720 mm
- **Robot weight**: 925 kg

**Environment**

- **Ambient temperature for mechanical unit**
  - **During operation**: 0°C (32°F) to + 45°C (113°F)
  - **During transportation and storage**: -25°C (-13°F) to + 55°C (131°F)
  - **During short periods (max. 24 h)**: up to +70° C (158° F)

- **Relative humidity**: Max. 95%
- **Noise level**: < 70 dB(A)

**Safety**

- **Double circuits with supervisions, emergency stops and safety functions. 3-position enable device**

**Emission**

- **EMC/EMI shielded**

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**Performance (according to ISO 9283)**

<table>
<thead>
<tr>
<th>Axis movement</th>
<th>Working range</th>
<th>Axis max speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Axis 1 rotation</td>
<td>+165° to -165°</td>
<td>145°/s</td>
</tr>
<tr>
<td>Axis 2 arm</td>
<td>+85° to -40°</td>
<td>110°/s</td>
</tr>
<tr>
<td>Axis 3 arm</td>
<td>+120° to -20°</td>
<td>120°/s</td>
</tr>
<tr>
<td>Axis 6 turn</td>
<td>+300° to -300°</td>
<td>400°/s</td>
</tr>
</tbody>
</table>

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**Movement**

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**Technical information**

**Movement**

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**Working range**

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*Data and dimensions may be changed without notice.*