The 4-axis robot can move and rotate large and heavy products at high speeds, and with the utmost care. Its compact design makes it ideal for fitting into existing lines.

**Shorter cycle times**
The IRB 760 is the fastest robot of its kind and is capable of significantly shortening cycle times and raising productivity for full-layer palletizing and press tending. This four-axis robot has a reach of 3.2 meters and a 450 kilograms payload capacity, enabling it to lift heavy objects and full pallet layers. With its high torque wrist and long reach it can achieve 880 cycles per hour at full load (400 mm, 2000 mm, 400 mm cycle).

**IRB 760PT press tending robot**
Aimed at press automation applications in the automotive industry, the IRB 760PT is a flexible press tending robot offering 25 per cent faster cycle times compared to other robot-based press automation solutions. Its 3.18 meter reach, coupled with a linear seventh axis or with the twin Xbar system avoids the need to reorient parts between consecutive stamping operations, helping users to optimize available space and save costs.

**High precision movements**
Utilizing ABB’s patented motion control software, QuickMove™ and TrueMove™, the IRB 760 family ensures palletizing and press tending 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.

**Low cost of ownership and increased productivity**
The robot’s robust and rigid design – manufactured to automotive industry standards – ensures high uptime and low maintenance costs. The IRB 760 family also features integrated process cabling which helps extend life and reduces wear.

The IRB 760 family is also covered by Robot Care, a warranty package that includes ABB’s Connected Services, where ABB experts can monitor robots and suggest optimized the robot’s performance thru advance services to further increase productivity and maintain high OEE.

Offline programming is the best way to maximize return on investment for robot systems. ABB’s simulation and offline programming software, RobotStudio, allows robot programming to be done on a PC in the office without shutting down production. RobotStudio provides the tools to increase the profitability of your robot system by letting you perform tasks such as training, programming, and optimization without disturbing production.

**Main applications**
- Full layer palletizing
- Palletizing
- Depalletizing
- Material handling
- Press tending
### Specification

<table>
<thead>
<tr>
<th>Robot version</th>
<th>Reach (m)</th>
<th>Handling capacity (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRB 760</td>
<td>3.18</td>
<td>450</td>
</tr>
<tr>
<td>IRB 760PT</td>
<td>3.18</td>
<td>450</td>
</tr>
<tr>
<td>Number of axes</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Protection</td>
<td>IP67</td>
<td></td>
</tr>
<tr>
<td>Mounting</td>
<td>Floor mounted</td>
<td></td>
</tr>
<tr>
<td>Controller</td>
<td>IRC5 Single cabinet, IRC5 Dual cabinet</td>
<td></td>
</tr>
<tr>
<td>Integrated power signal supply</td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td>Integrated air supply</td>
<td>Optional</td>
<td></td>
</tr>
</tbody>
</table>

### Performance (according to ISO 9283)

<table>
<thead>
<tr>
<th></th>
<th>Position repeatability RP (mm)</th>
<th>Path repeatability RT (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRB 760</td>
<td>0.05</td>
<td>0.80</td>
</tr>
</tbody>
</table>

### Cycles per hour

<table>
<thead>
<tr>
<th></th>
<th>Load (kg)</th>
<th>Cycles per hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRB 760</td>
<td>60</td>
<td>450</td>
</tr>
</tbody>
</table>

### Technical Information

**Electrical Connections**
- Supply voltage: 200-600 V, 50-60 Hz
- Power consumption: ISO cube 2.75 kW

**Physical**
- Dimensions robot base: 1140 x 800 mm
- Robot weight: 2310 kg

**Environment**
- Ambient temperature for mechanical unit:
  - During operation: + 0°C (32°F) to + 50°C (122°F)
  - During transportation and storage: -25°C (-13°F) to +55°C (131°F)
  - For 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

Data and dimensions may be changed without notice.

The IRB 760FX is a combination of an IRB 760PT and a Linear 7th axis.