The IRB 910SC (SCARA) is fast, cost-effective and, because it’s from ABB, accurate. In designing its Selective Compliance Articulated Robot Arm (SCARA), or IRB 910SC, ABB has delivered a single arm robot capable of operating in a confined footprint. ABB’s SCARA is ideal for the Small Parts Assembly, Material Handling and parts inspection.

**Variants**
With a maximum payload of 6 kg, the IRB 910SC is available in three configurations (IRB 910SC – 3/0.45, IRB 910SC – 3/0.55m, and IRB 910SC – 3/0.65m). All are modular by design, with different linking arm lengths and have individual reaches of 450 mm, 550 mm and 650 mm, respectively.

All members of the SCARA family are tabletop mountable.

**Applications**
ABB’s SCARA family is designed for a variety of general-purpose applications such as tray kitting, component placement, machine loading/unloading and assembly.

These applications require fast, repeatable and articulate point-to-point movements such as palletizing, depalletizing, machine loading/unloading and assembly.

ABB’s SCARA family is ideal for customers requiring rapid cycle times, high precision and high reliability for their Small Part Assembly applications and for laboratory automation and prescription drug dispensing.

**Features**
- Table top mountable
- Ease of integration
- Custom interfaces
- Modular design

**Customer benefits**
- Short cycle times which achieved by high speed
- High precision which is achieved by superior motion control
- Superb reliability due to reuse and standard proven components.
### Specification

**Electrical Connections**
- **Supply voltage**: 200-600 V, 50/60Hz
- **Transformer rating**: 3.0 kVA
- **Power consumption**: 220 W

**Physical**
- **Robot base**: 160 x 160 mm
- **Robot weight**
  - IRB 910SC-3/0.45: 24.5 kg
  - IRB 910SC-3/0.55: 25 kg
  - IRB 910SC-3/0.65: 25.5 kg

**Environment**
- **Ambient temperature for mechanical unit**
  - During operation: +5°C (41°F) to +45°C (113°F)
  - During transportation and storage: -25°C (-13°F) to +55°C (131°F)
- **Relative humidity**: Max. 95%
- **Noise level**: < 70 dB

*Armload is included in the max payload.

### Movement

**Performance (according to ISO 9283)**

<table>
<thead>
<tr>
<th>Robot version</th>
<th>IRB 910SC-3/0.45</th>
<th>IRB 910SC-3/0.55</th>
<th>IRB 910SC-3/0.65</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 kg picking cycle</td>
<td>0.380 s</td>
<td>0.370 s</td>
<td>0.385 s</td>
</tr>
<tr>
<td>Max TCP Velocity</td>
<td>6.2 m/s</td>
<td>6.9 m/s</td>
<td>7.6 m/s</td>
</tr>
<tr>
<td>Max TCP Acceleration</td>
<td>65 m/s²</td>
<td>60 m/s²</td>
<td>55 m/s²</td>
</tr>
<tr>
<td>Acceleration time 0-1m/s</td>
<td>0.04 s</td>
<td>0.05 s</td>
<td>0.06 s</td>
</tr>
<tr>
<td>Axis 3 (2 stroke) down force</td>
<td>250 N</td>
<td>250 N</td>
<td>250 N</td>
</tr>
</tbody>
</table>

**Position repeatability**
- Axis 1 + Axis 2 (mm) ±0.015 ±0.015 ±0.015
- Axis 3 (mm) ±0.01 ±0.01 ±0.01
- Axis 4 (°) ±0.005 ±0.005 ±0.005

### Technical information

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Data and dimensions may be changed without notice.