FlexTrack IRT 501
ABB BiW product – FlexTrack IRT 501

**Material handling track motion**
- Compact (660mm X 435mm)
- Entirely protected
- Heavy load capability (up to 3 tons)
- High transfer speed & acceleration (4.4sec for 6m)
- Part positioning (+/- 0.1 mm) and robot 7th axis

**High accessibility**
ABB BiW product – FlexTrack IRT 501

- **Compact motion track, entirely covered**
  - Cable chain inside track: entirely protected against pollution
  - Flat carriage
  - Installation possible on FlexiCell platforms
  - Integrated leveling system

- **High modular design**
  - Easy and fast assembly
  - Variable length (step: 1m), no limitation of length
  - One or few independent carriers, no limitation of number of carriages
  - 3 versions possible depending on payload

- **Robust design**
  high stability of the carriers

- **Low maintenance**

- **IRC5 driven**
### ABB BiW product – FlexTrack IRT 501

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Repeatability</td>
<td>+/- 0.1 mm</td>
<td>+/- 0.1 mm</td>
<td>+/- 0.1 mm</td>
<td>+/- 0.1 mm</td>
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<tr>
<td>Acceleration *</td>
<td>2.1 m/s²</td>
<td>1.5 m/s²</td>
<td>1.5 m/s²</td>
<td>1.0 m/s²</td>
</tr>
<tr>
<td>Travel Speed *</td>
<td>2 m/s</td>
<td>1.5 m/s</td>
<td>1.5 m/s</td>
<td>1.2 m/s²</td>
</tr>
<tr>
<td>A</td>
<td>660</td>
<td>660</td>
<td>900</td>
<td>900</td>
</tr>
<tr>
<td>B</td>
<td>484</td>
<td>484</td>
<td>724</td>
<td>724</td>
</tr>
<tr>
<td>C</td>
<td>435</td>
<td>435</td>
<td>495</td>
<td>495</td>
</tr>
<tr>
<td>D</td>
<td>1050</td>
<td>525</td>
<td>1050</td>
<td>525</td>
</tr>
<tr>
<td>L</td>
<td></td>
<td></td>
<td>1770 + S x 1050</td>
<td></td>
</tr>
<tr>
<td>Mass (kg)**</td>
<td>588 + 195 x S</td>
<td>628 + 235 x S</td>
<td>749 + 222 x S</td>
<td>801 + 274 x S</td>
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<tr>
<td>Maximum payload</td>
<td>900 kg</td>
<td>2000 kg</td>
<td>2000 kg</td>
<td>2950 kg</td>
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<tr>
<td>Robots capability: IRB1400</td>
<td>IRB2400</td>
<td>IRB4400</td>
<td>IRB6600</td>
<td>IRB7600</td>
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<tr>
<td>** S: Stroke</td>
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</tbody>
</table>

* With maximum payload
** S: Stroke
ABB BiW product – FlexTrack IRT 501

Base package
- IRT 501 FlexTrack
  minimum length 2.3 m
- One carriage
- Upper and lateral covers
- End off covers

Options
- Automatic lubrication system
- Additional carriages
- Additional axis: lifter & turntable on top
- Electric working range limit switch
- Zone division for track motion
- SMB box

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