Synthis™ T6 All-in-One SCARA Robot

Powerful, low-cost automation solution. The ultimate slide alternative.

**Easy to install; fast integration** — installs in minutes, unlike expensive, complex linear-slide systems; requires less time and money for system integration

**All-in-One solution** — includes built-in controller with power for end-of-arm tooling, in one space-saving design

**Full featured; ultra low cost** — includes the same powerful features found in Epson’s high-end robots, at an incredibly affordable price

**Built-in controller** — saves critical workspace with the controller conveniently housed in the robot’s base

**Easy to use** — intuitive and feature-packed Epson RC+® development software makes it easy to create powerful solutions

**Powerful arm design** — 600 mm reach, up to 6 kg payload and multi-tool capable

**Comes standard with 110 V and 220 V power** — low wattage and power consumption (no special panel or plug required)

**Built-in power for end-of-arm tooling** — eliminates the need for an external power source

**Integrated options** — vision, designed specifically for robot guidance; plus, fieldbus interface solutions; RC+ 7.0 API software for open-platform functionality; teach pendants; and customizable GUIs

**No battery required for encoder** — minimizes downtime and reduces overall cost of ownership

www.epsonrobots.com
### Specifications

<table>
<thead>
<tr>
<th>Mounting Type</th>
<th>Tabletop</th>
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</thead>
<tbody>
<tr>
<td>Arm Length (Joints #1 and #2)</td>
<td>600 mm</td>
</tr>
<tr>
<td>Payload</td>
<td>2 kg</td>
</tr>
<tr>
<td>Repeatability</td>
<td>±0.04 mm</td>
</tr>
<tr>
<td>Standard Cycle Time</td>
<td>0.49 sec</td>
</tr>
<tr>
<td>Max. Motion Range</td>
<td>±152 deg</td>
</tr>
<tr>
<td>Weight (cables not included)</td>
<td>22 kg: 49.5 lb</td>
</tr>
<tr>
<td>Joint #4 Allowable Moment of Inertia</td>
<td>0.01 kg•m²</td>
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</tbody>
</table>

### What's in the Box

- Synthis T6 robot
- Robot power cable
- Epson RC+ software
- USB cable
- E-Stop unit with cable
- T6 Robot System Safety & Installation Manual
- Connector set (I/O, hand I/O and safety circuit connectors)

### Support

- Customer Service: (562) 290-5920
- Applications Support: (562) 290-5930
- Sales Inquiries: (562) 290-5997
- info@robots.epson.com

### Ordering Information

- Synthis T6 All-in-One SCARA Robot
- RT6-602SS
- Options:
  - Integrated Vision Guidance
  - OCR (for use with Vision Guide)
  - External Control Point (ECP) Option
  - TP3 – Teach Pendant
  - TP2 – Teach Pendant
  - Ethernet/IP Fieldbus I/O (Slave)
  - Ethernet/IP Fieldbus I/O (Master)
  - DeviceNet Fieldbus I/O (Slave)
  - DeviceNet Fieldbus I/O (Master)
  - PROFINET Fieldbus I/O (Slave)
  - PROFINET Fieldbus I/O (Master)
  - EtherCAT Fieldbus I/O (Slave)
  - CC-Link Fieldbus I/O (Slave)

### Other

- Power AC 100 – 240 V
- Power Consumption: 1.2 kVA
- Power Cable Length: 5 m
- Controller: Inside of manipulator
- Safety Standard: CE Mark, EMC directive, machinery directive, RoHS directive

### Remarks

1 Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) with 2 kg payload (path coordinates optimized for maximum speed).

See the latest innovations from Epson® Business Solutions at [www.epson.com/forbusiness](http://www.epson.com/forbusiness).

**Contact:**

[www.epsonrobots.com](http://www.epsonrobots.com)