

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





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Specifications

Mounting Type Tabletop

Arm Length (Joints #1 and #2) 600 mm

Rated: 2 kg Max.: 6 kg

Repeatability

Joints #1 and 2: ± 0.04 mm Joint #3: ± 0.02 mm Joint #4: ± 0.02 deg

Standard Cycle Time¹ 0.49 sec

Max. Motion Range Joint #1: ±132 deg Joint #2: ±150 deg Joint #3: 200 mm Joint #4: ±360 deg

Weight (cables not included) 22 kg: 48.5 lb Joint #4 Allowable Moment of Inertia

Rated: 0.01 kg•m² Max.: 0.08 kg•m²

Joint #3 Downward Force 83 N

User Electric Lines

Hand I/O: IN6/OUT4 (D-sub 15-pin) User I/O: IN18/OUT12

User Pneumatic Lines ø6 mm x 2, ø4 mm x 1 **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 ANSI/RIA R15.06-2012

NFPA 79 (2007 Edition)

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 service@robots.epson.com Applications Support (562) 290-5930 applications@robots.epson.com Sales Inquiries (562) 290-5997 info@robots.epson.com **Ordering Information**

Synthis T6 All-in-One SCARA Robot **Options**

Integrated Vision Guidance
OCR (for use with Vision Guide)
Epson RC+ 7.0 API

GUI Builder 7.0 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) PROFIBUS Fieldbus I/O (Slave) PROFIBUS Fieldbus I/O (Master) EtherCAT Fieldbus I/O (Slave)

CC-Link Fieldbus I/O (Slave)

R12NZ920H3
R12NZ900AE
R12NZ900AF
R12NZ900N3
R12NZ900N9
R12NZ900TH
R12NZ900TE
R12NZ900TE
R12NZ900TG
R12NZ900TF
R12NZ900TF
R12NZ900TF
R12NZ900TY

R12NZ900TD

RT6-602SS

REDUCED-HEIGHT CABLE DUCT Reduces vibration THROUGH-ARM CONNECTIONS EOA I/O, air tubes, **CONTROLLER DISPLAY LEDS** brake release Display error condition SELF-CONTAINED MOTOR, **ENCODER, AMP UNITS EPSON** J1, J2, J3, J4 **BUILT-IN POWER MODULE** Power supply and distribution J2 MOUNTING HOLES For mounting camera brackets **BUILT-IN CONTROLLER EASY-ACCESS BACK PANEL** CPU, DPB, CPU battery, CF card **CONNECTIONS** Ethernet, I/O, air and more

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).

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