

Synthis™ T6 All-in-One SCARA Robot



All-in-One Robot

Factory Automation

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
Payload
 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

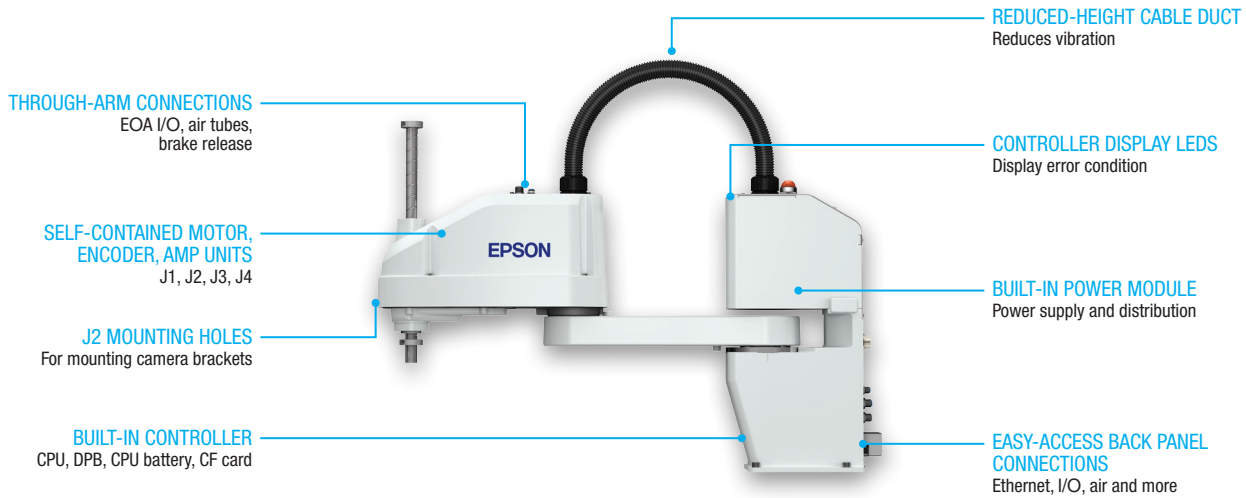
Synthis T6 robot
 Robot power cable
 Epson RC+ software
 USB cable
 E-Stop unit with cable
 T6 Robot System Safety & Installation Manual
 Connector set (I/O, hand I/O and safety circuit connectors)

Support

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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	RT6-602SS
Options	
Integrated Vision Guidance	
OCR (for use with Vision Guide)	R12NZ920H3
Epson RC+ 7.0 API	R12NZ900AE
GUI Builder 7.0	R12NZ900AH
External Control Point (ECP) Option	R12NZ900AF
TP3 – Teach Pendant	R12NZ900N3
TP2 – Teach Pendant	R12NZ900L9
Ethernet/IP Fieldbus I/O (Slave)	R12NZ900TH
Ethernet/IP Fieldbus I/O (Master)	R12NZ900NZ
DeviceNet Fieldbus I/O (Slave)	R12NZ900TE
DeviceNet Fieldbus I/O (Master)	R12NZ900NX
PROFINET Fieldbus I/O (Slave)	R12NZ900TG
PROFIBUS Fieldbus I/O (Slave)	R12NZ900TF
PROFIBUS Fieldbus I/O (Master)	R12NZ900NY
EtherCAT Fieldbus I/O (Slave)	R12NZ900TX
CC-Link Fieldbus I/O (Slave)	R12NZ900TD



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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