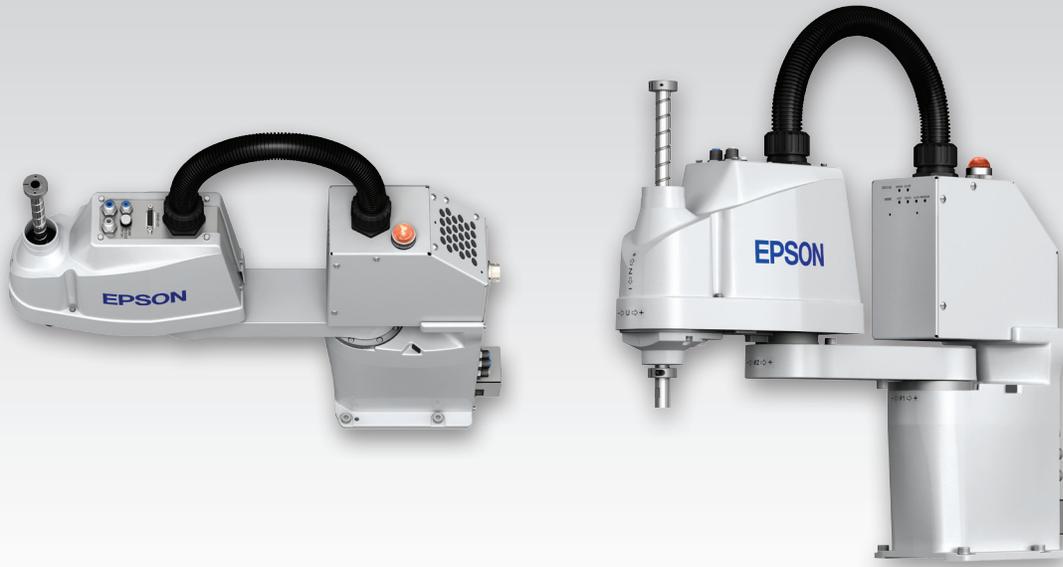


T3 All-in-One SCARA Robot

Robots

SCARA



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

Efficient operation — fits seamlessly into your automation workflow; requires less time and money for system integration than most other solutions

Easy to install — installs in minutes, unlike complex linear-slide-based systems

Intuitive Epson RC+® programming software included — high-performance development software makes it easy to create powerful solutions

Integrated vision guidance option — designed specifically for robot guidance; makes it easy to automate simple applications when vision is required

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

Other integrated options — field bus interface boards, RC+ 7.0 API software for open platform functionality, teach pendants and customizable GUI

Small and lightweight — all-in-one solution; takes up less space than linear-slide solutions, while providing a large work envelope

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

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

Easily accessible inputs and outputs — located on the end of the arm, these connections reduce the amount of wires and cabling required



Specifications

Mounting Type Tabletop
Arm Length (Joints #1 and #2) 400 mm
Payload
 Rated: 1 kg
 Max.: 3 kg
Repeatability
 Joints #1 and 2: ±0.02 mm
 Joint #3: ±0.02 mm
 Joint #4: ±0.02 deg
Standard Cycle Time¹ 0.54 sec
Max. Motion Range
 Joint #1: ±132 deg
 Joint #2: ±141 deg
 Joint #3: 150 mm
 Joint #4: ±360 deg
Weight (cables not included) 16 kg: 35 lb
Joint #4 Allowable Moment of Inertia
 Rated: 0.003 kg•m²
 Max.: 0.01 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 660 Va
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

T3 robot
 Robot power cable
 Epson RC+ software
 USB cable
 E-Stop unit with cable
 T3 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

T3 All-in-One SCARA Robot	RT3-401SS
Options	
Integrated Vision Guidance	R12NZ920H3
OCR (for use with Vision Guide)	R12NZ900AE
Epson RC+ 7.0 API	R12NZ900AH
GUI Builder 7.0	R12NZ900AF
External Control Point (ECP) Option	R12NZ900N3
TP3 – Teach Pendant	R12NZ900L9
TP2 – Teach Pendant	R12NZ900TH
Ethernet/IP Fieldbus I/O (Slave)	R12NZ900NZ
Ethernet/IP Fieldbus I/O (Master)	R12NZ900TE
DeviceNet Fieldbus I/O (Slave)	R12NZ900NX
DeviceNet Fieldbus I/O (Master)	R12NZ900TG
PROFINET Fieldbus I/O (Slave)	R12NZ900TF
PROFINET 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).

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