

# T6-B All-in-One SCARA Robot

Robots

SCARA



## Value without compromise. The ultimate slide alternative.

**Easy to install, plus fast integration** — installs in minutes, unlike 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, all in one space-saving structure

**Value without compromise** — offers the same intuitive software, powerful features and reliability found in Epson's most advanced robots, providing incredible value at an affordable cost

**Space-saving design with built-in controller** — controller conveniently housed in the robot's base helps save critical floorspace

**Easy to use** — intuitive and feature-packed Epson RC+® development software makes it easy to create powerful solutions; also comes with Epson RC+ Express, enabling new users to develop robotic solutions with little to no programming experience necessary

**Runs on 110 V or 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 vision guidance option** — designed specifically for robot guidance; makes it easy to automate simple applications when vision is required

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

**Other integrated options** — teach pendant, IntelliFlex™ parts feeding, fieldbus master and slave interface boards available, including EtherNet/IP and Add on Instructions for easy integration with Allen-Bradley PLCs



| Model Name                             |   | T6-B SCARA Robot  |
|--|---|---|
| Model Number                           |   | T6-B602SS   |
| Mounting Type                          |   | Tabletop  |
| Arm Length                             | Joint #1 plus Joint #2                            | 600 mm  |
| Repeatability                          | Joints #1 - 2                                     | ± 0.040 mm  |
|  | Joint #3  | ± 0.020 mm  |
|  | Joint #4  | ± 0.02 deg  |
| Payload                                | Rated   | 2 kg  |
|  | Max.  | 6 kg  |
| Standard Cycle Time <sup>1</sup>       |   | 0.46 sec  |
| Max. Motion Range                      | Joint #1  | ± 132 deg   |
|  | Joint #2  | ± 150 deg   |
|  | Joint #3  | 200 mm  |
|  | Joint #4  | ± 360 deg   |
| Allowable Moment of Inertia (Joint #4) | Rated   | 0.01 kg-m <sup>2</sup>  |
|  | Max.  | 0.080 kg-m <sup>2</sup>   |
| Joint #3 Down Force                    | Max.  | 83 N  |
| User Electric Lines                    |   | Hand I/O: IN6/OUT4 D-Sub 15pin<br>User I/O: IN18/OUT12  |
| User Pneumatic Lines                   |   | ø6 mm x2, ø4 mm x1  |
| Brakes                                 |   | Z-Axis only   |
| Power                                  |   | AC 100 - 240 V Single Phase   |
| Power Consumption                      |   | 1.2 kVa   |
| Power Cable Length                     |   | 5 m   |
| Weight (cables not included)           |   | 22 kg; 48.5 lb  |
| Applicable Controller                  |   | Built in  |
| Safety Standards                       |   | CE Marking  |
| What's in the Box                      |   | T6-B robot, Robot power cable, Epson RC+ software and Epson RC+ Express software, E-Stop unit with cable, T6-B Robot System Safety & Installation Manual, Connector set (I/O, hand I/O and safety circuit connectors) |
| <b>Options</b>                         |   |   |
|  | Integrated Vision Guidance                        | Available   |
|  | OCR (for use with Vision Guide)                   | R12NZ920H3  |
|  | IntelliFlex Parts Feeding                         | Available   |
|  | Epson RC+ 7.0 API                                 | R12NZ920AE  |
|  | TP3 – Teach Pendant                               | R12NZ900N3  |
|  | TP2 – Teach Pendant                               | R12NZ9005P  |
|  | GUI Builder 7.0                                   | R12NZ900AH  |
|  | External Control Point (ECP) Option               | R12NZ920AF  |
|  | 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  |
|  | EtherCAT Fieldbus I/O (Slave)                     | R12NZ900TX  |
|  | Profibus Fieldbus I/O (Slave)                     | R12NZ900TF  |
|  | Profibus Fieldbus I/O (Master)                    | R12NZ900NY  |
|  | PROFINET Fieldbus I/O (Slave)                     | R12NZ900TG  |
|  | CC Link Fieldbus I/O (Slave)                      | R12NZ900TD  |
|  | Epson Add on Instructions for Allen-Bradley       | R19NZ911A5  |
|  | Z-Axis Coupler                                    | RE001064-1  |
|  | Tool Mounting Plate (for use with Z-Axis Coupler) | R12NZ90036  |
|  | Camera Mounting Bracket                           | R12NZ90039  |

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<sup>1</sup> 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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