

## Product Specifications

|                                                    |            |                                                                         |
|----------------------------------------------------|------------|-------------------------------------------------------------------------|
| Product model number                               |            | T3-401S                                                                 |
| Mounting type                                      |            | Table Top                                                               |
| Arm length (Joints #1 + #2)                        |            | 400 mm                                                                  |
| Weight (cables not included)                       |            | 16 kg                                                                   |
| Max. motion range                                  | Joint #1   | ± 132 deg                                                               |
|                                                    | Joint #2   | ± 141 deg                                                               |
|                                                    | Joint #3   | 150 mm                                                                  |
|                                                    | Joint #4   | ± 360 deg                                                               |
| Repeatability                                      | Joint #1-2 | ± 0.02 mm                                                               |
|                                                    | Joint #3   | ± 0.02 mm                                                               |
|                                                    | Joint #4   | ± 0.02 deg                                                              |
| Payload (Load) <sup>*1</sup>                       | Rated      | 1 kg                                                                    |
|                                                    | Max.       | 3 kg                                                                    |
| Standard cycle time <sup>*2</sup>                  |            | 0.54 sec                                                                |
| Joint #4 allowable moment of inertia <sup>*3</sup> | Rated      | 0.003 kg·m <sup>2</sup>                                                 |
|                                                    | Max.       | 0.01 kg·m <sup>2</sup>                                                  |
| Joint #3 downward force                            |            | 83 N                                                                    |
| Installed wire for customer use                    |            | End-effector I/O: IN6/OUT4 (15-pin D-sub) 24V/GND, User I/O: IN18/OUT12 |
| Installed pneumatic hose for customer use          |            | ø6 mm x 2, ø4 mm x 1 : 0.59 MPa (6 kgf/cm <sup>2</sup> : 86 psi)        |
| Power / cable length                               |            | AC100-240V / 5m                                                         |
| Compatible controller                              |            | Integrated in manipulator                                               |
| Model                                              |            | Standard                                                                |
| Safety standard                                    |            | CE mark                                                                 |

\*1: Do not apply loads that exceed the maximum payload.

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

\*3 : When the center of gravity is at the center of each arm. If the center of gravity is not at the center of each arm, set the eccentric quantity using the INERTIA command.

### Controller, Manipulator Option

|                               |   |
|-------------------------------|---|
| Teaching pendant TP1          | - |
| Teaching pendant TP2, TP3     | ● |
| Conveyor tracking             | - |
| PG motion system              | - |
| Emergency stop switch         | ● |
| RS-232C cards                 | - |
| I/O expansion cards           | - |
| Fieldbus I/O (slave)          | ● |
| Fieldbus I/O (master)         | ● |
| I/O cable kit                 | - |
| Vision option (PV1, CV1, CV2) | ● |
| Force sensor option (S250)    | - |
| Drive unit (DU)               | - |

### Software Option

|                  |   |
|------------------|---|
| Vision Guide 7.0 | ● |
| Force Guide 7.0  | - |
| RC+ API 7.0      | ● |
| ECP              | ● |
| GUI Builder 7.0  | ● |
| Force sensing    | - |
| OCR              | ● |