

Specifications

Item	T3-4015	
Mounting type	Table Top	
Arm length (Joints #1+#2)	400mm	
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
	Max.	± 0.02 deg
Payload (Load)*1	Rated	1 kg
	Max.	3 kg
Standard cycle time*2	0.54 sec	
Joint#4 allowable moment of inertia*3	Rated	0.003 kg·m ²
	Max.	0.01 kg·m ²
Joint #3 down force	83 N	
Installed wire for customer use	Hand I/O: IN6/OUT4 (D-sub 15pin), 24V	
	User I/O: IN18/OUT12	
Installed pneumatic tube for customer use	ø6 mm x 2, ø4mm x 1 : 0.59 MPa (6 kgf/cm ² : 86 psi)	
Power / cable length	AC100-240V / 5m	
Applicable Controller	Inside of manipulator	
Model	Standard	
Safety standard	CE mark	

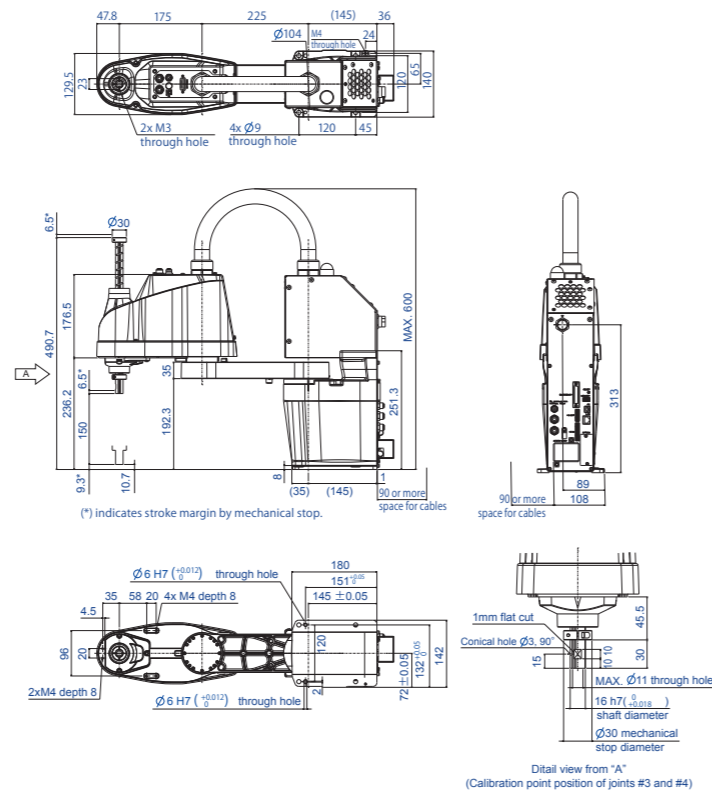
*1: Do not apply the load exceeding the maximum payload.
 *2: Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 1 kg payload (path coordinates optimized for maximum speed).
 *3: If the center of gravity is at the center of each arm. If the center of gravity is not at the center of each arm, set the eccentric quantity using INERTIA command.

Item	Item	
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)*4	●	—
Fieldbus I/O (master)	●	—
I/O cable kit	—	—
Vision option (PV1, CV1, CV2)	●	—
Force sensor option (S250)	—	—
Drive unit (DU)	—	—

*4: CC-LINK is available.

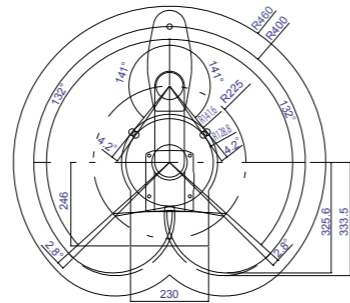
Dimensions

[Unit: mm]



Motion Range

[Unit: mm]



Epson Robot

T3
Scara Robots



Better Products for a Better Future™

At Epson, we know that planning for the future requires a strong commitment to the environment. That is why we strive to create innovative products that are reliable, recyclable, and energy efficient. Better products that use fewer resources help ensure a better future for us all.

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Safety Precautions

Please read associated manuals carefully before installing or using our robot products. Always use products properly per guidelines in the manuals.



An easy-to-use SCARA robot you can put to work right away!

Built-in controller.
Batteryless motor unit for greater convenience.
Operates on 100V-240V AC power.

Epson T3 compact SCARA robots feature a built-in controller that eliminates the need to deal with complicated cabling during setup and maintenance, and a batteryless motor unit that improves cost efficiency to help keep total operating costs low. Affordable and cost-efficient, T3 robots are an ideal way to automate simple manual tasks or replace multi-unit, single-axis robot setups that are complicated to set up and reconfigure.



No bulky external controller required



Connect directly to power outlet

Accepts 100V~240V AC power
Power-saving 0.66kVA - 30% down*

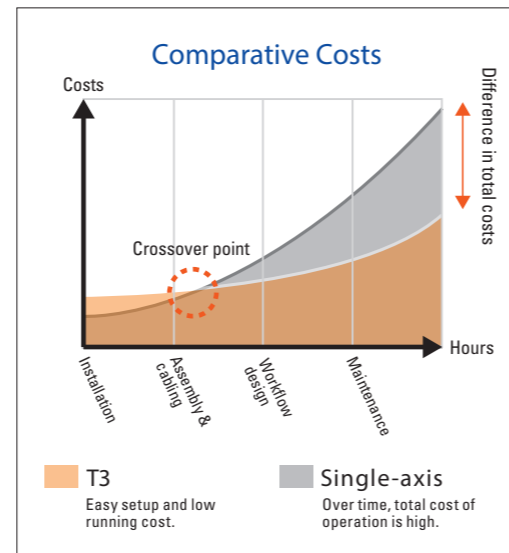
* VS. Epson conventional robot : LS3-401S

Easy, efficient automation of manual pick-and-place tasks

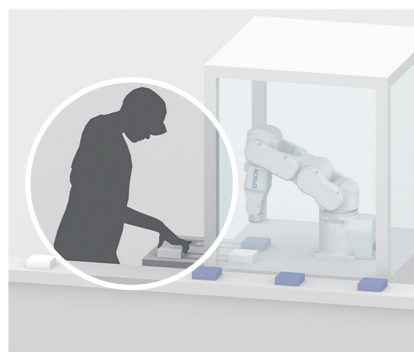
Epson T3 robots make the cost of automating simple manual tasks truly affordable. There is no need to expand or alter existing workspaces, and maintenance is easy. With outstanding operating efficiency, T3 robots cut costs every day — the more you use them, the more you save.

Lower TCO than single-axis robot units

Although the up-front cost of installing single-axis robots may be low, the complexity and long-term costs of setting up and maintaining multiple single-axis units and associated cabling can quickly add up. In addition, single-axis units require more installation space, resulting in larger workcells that reduce overall factory floor space. T3 robots, on the other hand, are easy to set up and can be adapted to a wide range of tasks. They also take up little floor space, and deliver higher productivity that reduces overall costs.



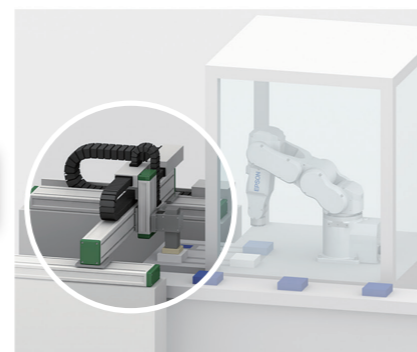
Manual pick & place inefficiency



Easy-to-use T3 automation!



Single-axis multi-unit complexity



3 KEY ADVANTAGES!

COMPACT SIZE & EASY SETUP!

Built-in SCARA controller

A built-in controller unit reduces installation space requirements and greatly simplifies initial setup and reconfiguration.



Easy cable connection and removal

SIMPLE CABLING!

Simple I/O and short cable conduit

I/O ports are located close to the hand for easy cabling. In addition, a short, sturdy conduit simplifies external cabling.

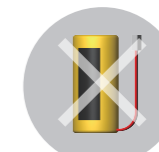


Short conduit

BATTERYLESS CONVENIENCE!

Batteryless motor unit

Batteryless motor unit retains starting point position data in memory without a battery, reducing running costs and factory downtime.



Batteryless motor unit



Controller built into robot

Top panel



HAND I/O
IN : 6
OUT : 4
INCOM / OUTCOM
24V / GND (-500mA)

Back panel



User I/O
IN : 18
OUT : 12

Can get 24V power from Robot-arm directly.

