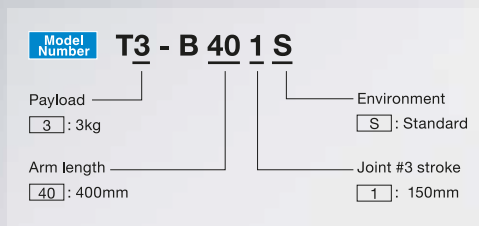


# T3-B

## The ultimate alternative to slide-based systems designed for small workpiece handling

- All-in-one solution ideal for virtually any application
- Energy efficient (cuts energy consumption by over 50%)\*
- Simple I/O and short cable conduit for easy cabling, and offers payload of up to 3kg
- Batteryless motor unit to reduce running costs and factory downtime

\*Compared to Epson LS series robots as of January 2018. Data based on in-house testing; actual energy consumption varies according to workload and operating environment.



## Specifications

Model Name		T3-B
Model Number		T3-B401S
Arm length	Joints #1+#2 (mm)	400
Payload*1	Rated (kg)	1
	Maximum (kg)	3
Repeatability	Joints #1+#2 (mm)	± 0.02
	Joint #3 (mm)	± 0.02
	Joint #4 (deg)	± 0.02
Standard cycle time*2	(sec)	0.52 *2
Max. motion range	Joint #1 (deg)	± 132
	Joint #2 (deg)	± 141
	Joint #3 (mm)	150
	Joint #3 (deg)	± 360
Max. operating speed	Joints #1-#2 (mm/s)	3700
	Joint #3 (mm/s)	1000
	Joint #4 (deg/s)	2600
Joint #4 allowable moment of inertia *4	Rated (kg·m <sup>2</sup> )	0.003
	Max. (kg·m <sup>2</sup> )	0.01
Joint #3 down force	(N)	83
Installation environment		Standard (IP20)
Mounting type		Table Top
Weight (cables not included)	(kg) or less	14 kg : 31 lb
Applicable Controller		Built-in controller
Installed wire for customer use		Hand I/O: IN6/OUT4 (D-sub 15pin), User I/O: IN18/OUT12
Installed pneumatic tube for customer use		ø6 mm x 2, ø4mm x 1 : 0.59 MPa (6kgf/cm <sup>2</sup> : 86 psi)
Power / cable length		AC100-240V / 5m
Power Consumption *5	(kVA)	660VA
Safety standard		CE, KC

\*1 : Do not apply the load exceeding the maximum payload

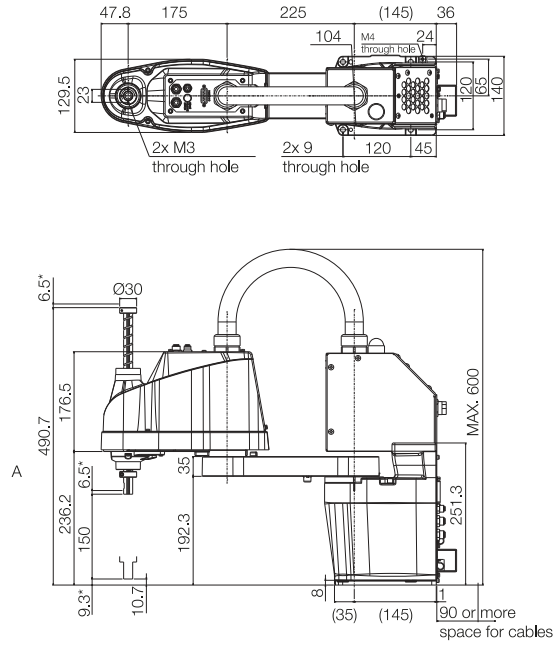
\*2 : Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 1 kg payload (path coordinates optimized for maximum speed).

\*3 : Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2 kg payload (path coordinates optimized for maximum speed).

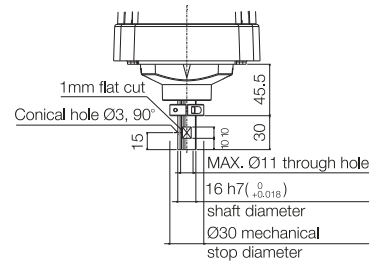
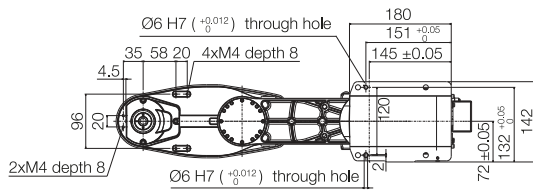
\*4 : Set the parameters by the Inertia command according to the load and effector status (refer to the instruction manual for the parameter calculation method).

\*5 : It depends on operating environment and operation program.

■ Outer Dimensions (Table Top Mounting) [Unit: mm]



(\* ) indicates stroke margin by mechanical stop.



Detail view from "A"  
(Calibration point position of joints #3 and #4)

■ Motion Range (Table Top Mounting) [Unit: mm]

