

DESKTOP ROBOT

TOYO 2019 JTB Series



3-Axis Series Automated Dispensing Robot!!



Desktop Robot





Stepping

Motor





Y500mm

Z100mm



850mm/s



Z:7ka



30000





Controller Input Voltage TSC400 AC110V/220V



- Max. Speed is up to 850 mm/s.
- Repeatability \pm 0.01mm.
- New Type 500D for double X axes to increase production efficiency.

Increased Structural Rigidity

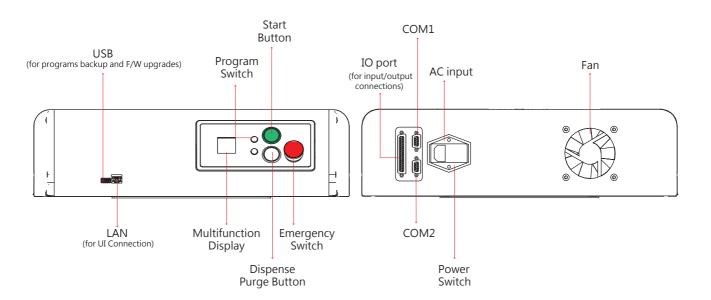
Multi Software Functions

- Ball Screw is applied in Z axis.
- Faster, more precise, with greater structural rigidity for long-term, dependable use; increased stability for high speed tracking function.
- · Import image file into the software convert to a program is capable.
- Import DXF file into the software convert to a program is capable.
- · CCD camera adjustment function. (option)
- Editing path and pallet by using software wizard.

Communication Port

- Input/Output: 16/16
- USB port for programs backup and F/W upgrades
- Multifunction display
- COM1/COM2
- EMG · Start · Dispense Purge buttons

Operation Panel Diagram



Software Functions

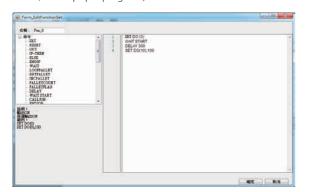
Quick teaching



Robot with dispensing unit attached.

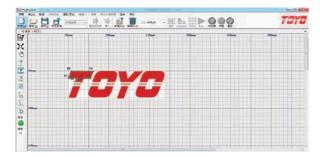
Transfer DXF to teaching points

- PC user interface brings DXF files and image files, into the editing domain and make user to draw points, lines, circles and circular arc.
- The simple scripter is built-in allowing the unit to easily coordinate with external devices on its own. (Maximum capacity 100 programs with 1,000 steps per program.)



Point setting using background image data referencing.

You can complete path setting off line and then upload online.



Various Dispense Commands

 Click the icon of dispensing command to enter the associated command at a numbered address in a program.



Convenient fill-in dispensing functions which allow you to dispense like drawing a picture using only 2 points for a rectangle and 3 points for a circle.

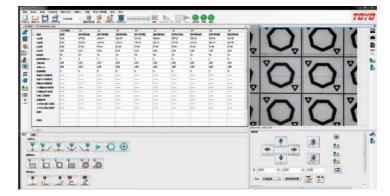


• Easy Program Teaching: You can conduct teaching just by inputting the items you need, such as positions and parameters.

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工程標	0.00	50.27	59.53	19.53	64:29	64.56	59.00	59.00	50.27	20.01
YEE	0.00	53.18	49.74	60.59	57.41	66.41	60.53	76.99	60.43	53.10
2位標	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RE標	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00
ISIR®	10	10	to	10	10	10	10	10	10	10
BARNARD (mr)	1	1	0	1	1	1	10	1	1	1
2296288	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
芸術も元本	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Marks	0	0	0	e	0	0	0	0	0	0
SHEARITH PROBERS	-		Ç			mm.				
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CCD & Laser Sensor Automatic Calibration

 Automatic calibration function: Enhanced CCD and laser sensor functions to match the needs of assembly equipments aiming for finer precision.





Specifications

Model			JTB200	JTB300	JTB400	JTB500	JTB500 D				
Operating	X/Y axis	(mm)	200/200	300/300	400/400	500/500	500/500 (Double X Axes)				
Range	Z axis	(mm)	100	100	100	100	100				
Maximum	X axis	(kg)	8	15	15	15	X1:10 ; X2:10				
Portable Load	Z axis	(kg)	4	7	7	7	7				
Maximum Speed*1 PTP Movement setting range %	X and Y axes	(mm/s)	700(7~700)	900(9~900)	900(9~900)	900(9~900)	900(9~900)				
	Z axis	(mm/s)	250(2.5~250)	400(4~400)	400(4~400)	400(4~400)	400(4~400)				
Maximum Speed*1 CP Movement setting range %	X, Y and Z Synthesized speed ^(mm/s)		600(0.1~600)	850(0.1~850)	850(0.1~850)	850(0.1~850)	850(0.1~850)				
Repeatability*2	X/Y axis	(mm)	±0.01	±0.01	±0.01	±0.01	±0.01				
	Z axis	(mm)	±0.01	±0.01	±0.01	±0.01	±0.01				
Dimensions/Weight	W×D×H	(mm)	497×454×672	597×554×672	697×654×672	797×754×672	797×754×672				
	Weight	(kg)	33	41	51	61	61				
Common Specifi	cations										
Drive Method			5 phase pulse motor drive								
Control Method			PTP (Point to Point) control, CP (Continuous Path) control								
Interpolating Functi	on		3-dimensional linear and arc interpolation								
Point Input Method			Remote teaching (JOG)/ Manual Data Input (MDI)								
Teaching Method			UI Software (PC): brings DXF files into the editing domain and allows you import image files to draw points								
reaching Method				APP(PAD) : Ponit t	it teaching and simple programing editing						
Screen Display	Languages		English · Chinese · Japanese.								
Screen Display	Units		mm								
Program Capacity			100 programs (1~100)								
Data Capacity			10,000 Points								
	IO		16 IN / 16 OUT (NPN/PNP sharing)								

External Input/Output

Power Source

*1 · Maximum speed cannot be achieved when the robot is bearing its maximum portable load.

(V)

(°C)

(%)

*2 - Repeatability will be infulunced by environment temperature and humidity. Position repeatability is not a guarantee of absolute precision.

Exterior





TOYO Automation Co., Ltd.

Add: No.50, Yongkehuan Road, Yongkang District, Tainan City, Taiwan.

LAN

COM

USB

Operating Ambient Temperature

Operating Relative Humidity

T:+886-6-2021347 F:+886-6-2025974

TOYO Robot (Shuzhou) Co., Ltd.

Add: No 586, Zhenxin East Road, Zhangpu Town, Kunshan City, Jiangsu Province, China. T:+86-512-86890880 F:+86-512-86890881

TOYO Automation (Shenzhen) Co., Ltd.

Add: 1208 Mingjun Business Center Huarong Road, Baoan District, Shenzhen City, China. T:+86-755-81713415 F:+86-755-81713435



Ethernet for UI (also can connect external device via HUB)

RS-232C (for external device control)

F/W upgrade I programs backup

AC 100~240, 5A

0 ~ 40 ℃

20 ~ 90 (Non-condensing)







