

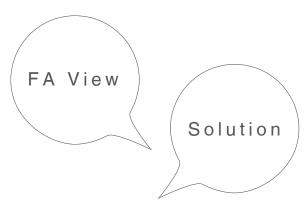


TOYO AUTOMATION CO., LTD

FA & ROBOT

Company profile





TOYO

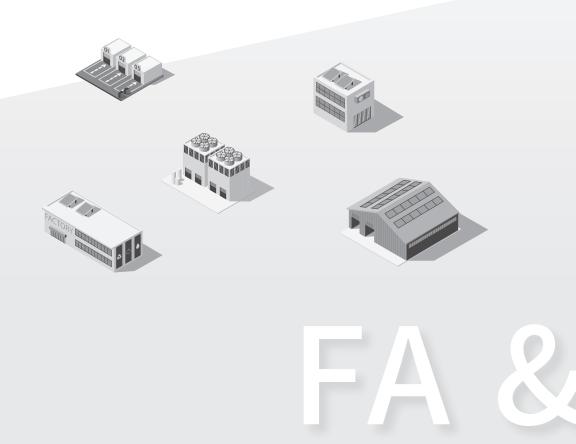
Even since the beginning of automation development in Taiwan, from simple automation processes in the early periods to the current connection with industry 4.0, Toyo has always been present.

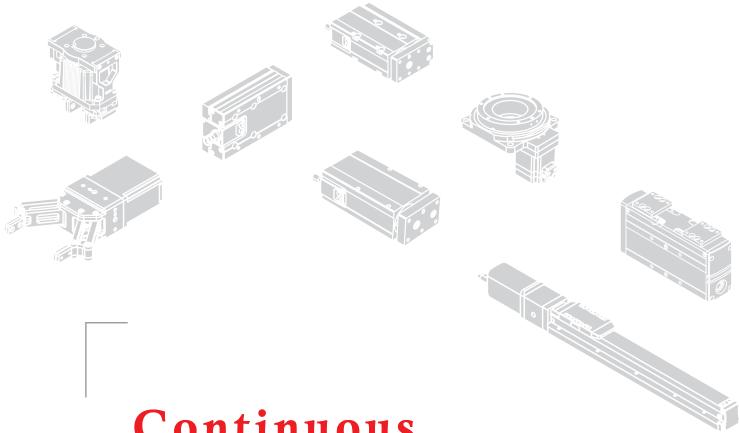
For a long time, we have focused on the development of professional miniature robots, ranging from the simplest control single-axis linear actuator without motor to the complete solution of full motor kits and control systems, all proudly manufactured in Taiwan. We strive to evolve and accommodates to the changes out there on the market today.

The market of small robotic arms requires rapid innovation and the notions to "Discover Demands" and "Change Voluntarily" are the original intentions that we have always kept. Change voluntarily has always been our core belief and the driving force that pushes our company forward.

At Toyo, we handle our customer' s requests with care. For different manufacturing procedure from each industry, TOYO has always focus on how to shorten cycle time and reduce machine down time during product development. Through energy saving, reduction of wiring, servo motor integration and other improvements, more values were added to automation equipment manufactured in Taiwan.

The philosophies of Toyo have always been "Product Evolution", "Stable Quality" and "Seek Excellence". We sincerely hope that Toyo can exceed your expectations and become the partner that will grow with your business.

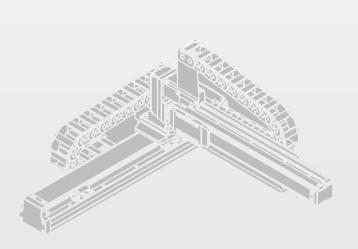




Continuous

Evolution

on Automation







Line up

6 Major Products of Linear Drive

Through continuous research and development effort, Toyo is able to accommodate the automation requirements for all types of manufacturing processes.

An assortment of linear servo cylinder with/without controller system and automatic guided vehicle system included, sums up to a total of thousands of product types. Accuracy positioning and speed control enables linear movement or pick-up/release operations.

Actuator







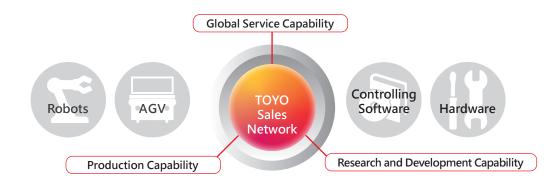




- High price-performce ratio
- Flexible customization
- Short delivery time

- Stable quality
- Versatile product line

Operational strategy



Application

Industry Application

Examples of Toyo automatic robot technology application can be seen in all types of manufacturing processes that relates to people's daily life. Including industries such as medical, food products, computer, mobile phones, automotive and aerospace. We have continuously developed and introduced modern linear drive automatic robots that aims to solve the issues of insufficient labor forces and wage increases that the global manufacturing industry is facing today. Based on your needs, we provide the best products that enriches your life.



Manufacturing Process Application



Basic Information

Company Profile

Company Name responsible TOYO Automation Co., Ltd.

Chairman of board Mr. Johnny Lin

person no. of workers

400 employees

2000

Established On **Registered Capital**

NTD\$220,000,000

Address

No. 55, Xinji 3rd Rd., Annan Dist.,

Tainan City 709, Taiwan.

Telephone

+886-6-2021347

Website

+886-6-2025974 www.toyorobot.com



Tainan headquarters



From automotive to machine tool, 3C electronics, food and medical supplies, the use and application of automatic robots are versatile and broad. Since Toyo begun to manufacture and sell robots with control systems in Taiwan, it has improved value of domestic supply chain with market leading product development.



Corresponding to various market Corresponding to various market demand, Toyo manufacturing system has evolved into a flexible model that accommodates to the customer's demand, with 60% of manufacturing line catering to customize productions. While maintaining high quality, low cost and short delivery time in mind, we also adjust our production lines to match the customer's demands.



When new manufacturing procedure and products are being developed, upgrades and adjustments to the equipment are generally required. Toyo is capable of providing the best automation proposal that best fits your need, by listening to the functionalities and qualities that you demand, improvements on previous improvements on previous engineering affords, reduction of work station and energy, plus lowering manufacturing cost.



Conceptualized from the idea to satisfy the customer's demand for products with high rigidity. Toyo is able to develop various techniques that improve the structure of our linear actuators. Changes to the design of current control system are also made to make it easier for the user. There are currently over 20 patents, trademarks and models registration owned by Toyo.

FA & ROBOTS



Service System



Free sample machine for lending

Standard sample tester available for lending to the customer at no cost! Please contact your local sales representative or distributor.



Exhibition

Exhibitions are organized in order for the customer to understand more about our products. Please contact us for more information.



24 hours online services

Year round 24 hours on call service that provides product solutions anytime you call for the region of China and Taiwan.

24 Taiwan: 0800-800-893 24 China: 400-875-0009



Exhibition car

For the customer in Taiwan to experience and understand our products, we have established the Toyo Exhibition car project. Please contact us for more information.



Sharing of technical tips

We host product seminars/technical workshops to share our most advanced technologies with our customers



Inspection, Repairment

We provide the inspection and repairment service. Even the warranty period has expired, we will provide repairement services with resonable cost



Training Center

In the training center, you can see the actual product and the demo machine. Also, we provide training on various technologies imported into the robot, technical consultation, and related courses. Please contact us for further information.



Worldwide Sales Network

Completed distribution network and after-sales service sites are established. For further details, please contact the relevant regional distributors.

Quality System

Quality Assurance Certification



9001

14001 45001

Passed ISO9001, ISO14001 and OHSAS18001 international certification.

Patented Technologies



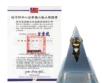
TISO IN

Patent applications certified by the Intellectual Property Office of Ministry of Economic Affairs.

Awards







Got 19th Taiwan Business Rising Star Award



CGTH/CGTY Series Got 2018 Taiwan Excellence Awards



LGF / CHY Series Got 2021 Taiwan Excellence Awards



LGW Series Got 2021 Taiwan Excellence Awards



LM4/CPSG Series Got 2023 Taiwan Excellence Awards

Toyo Product Lineup



10 days delivery time for standard products. Please contact your local sales representative for products with special requirements.

(24) Taiwan: 0800-800-893 China: 400-875-0009



GCY4

GCY5

GCY8

GCY12

10



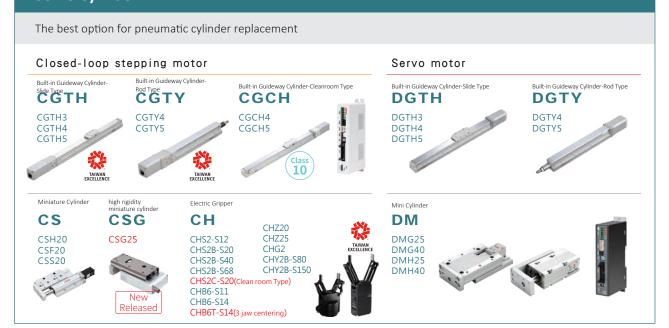
Servo Cylinder

Ballscrew type

GCH4 GCH12

GCH5 GCH5S

GCH8 GCH8S



10

Toyo Product Lineup

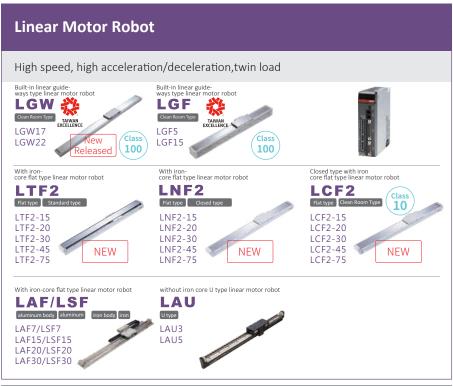




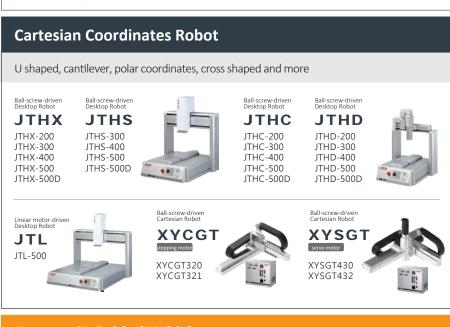




 2^{4} Taiwan: 0800-800-893 2^{4} China : 400-875-0009











01

Electric Actuator Series

Single-axis Linear Actuator

Without motor









Belt Drive Clean Room Built-





















O 2 Servo Cylinder Series

Servo Cylinder

With motor & controller

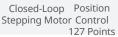














Control Voltage RS485



TC100 Controller





CGTH Series





CGTY Series





CGCH Series

Control

LD/OC



Repeatability ±0.005mm 30 kg

50~1050 mm

CSS Series

Max. Payload Stroke Range



CSF Series

Repeatability ±0.02 mm 6 kg

30/50 mm

Repeatability ±0.02 mm

CSH Series

6 kg 30/50 mm

CHB Series

6 kg

30/50 mm

CHS2B Series

Repeatability ±0.02 mm

Repeatability ±0.01 mm 9 kg

CSG Series



CHZ Series

Repeatability ±0.02mm

98 N

10 / 14 mm

Repeatability ±0.02mm 7 N

11 / 14 mm

BallScrew Type

Repeatability ±0.01mm

509 N 509 N 68 mm 68 mm





50/75/100 mm

Repeatability ±0.01mm

Max. Gripping Force Max. Open-Close

Electric Gripper





Max. Payload
Stroke Range

DHY Series



CHG2



TM Plug & Play Solution

Built-in Controller (CHY2)

- Gripper and controller integrated, one piece design.
- With optional fange, CHY/CHG2 gripper can connect robot end directly.
- Plug and play.
 Saving time and convenience.



Rotary Switch Settings







Closed-Loop Stepping Motor Input Communication Voltage Control DC24V RS485

Controller Built-in Electric Gripper

	Long Stroke	Slider Cran	
Repeatability ±0.05mm	Repeatability ±0.05mm	Repeatability ±0.05mm	
15 N	90/30 N	150/90 N	Max. Gripping Force
30 mm	80/150 mm	80/150 mm	Max. Open- Close Stroke

CHY2B Series







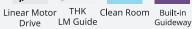








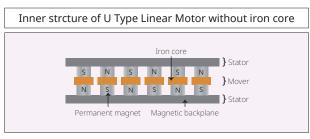


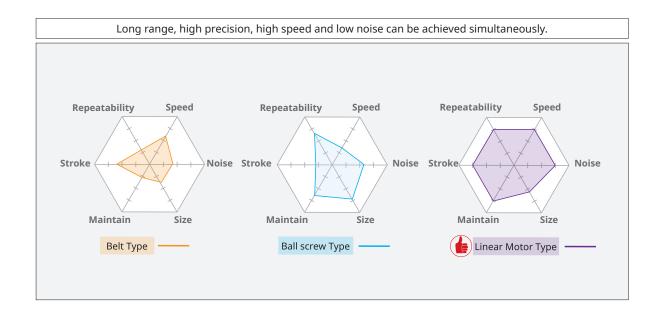






Max. Payload Stroke Range





Desktop Robot Series

Desktop Robots





ballscrew linear motor

















payload

controller TSC400

±0.01 of programs



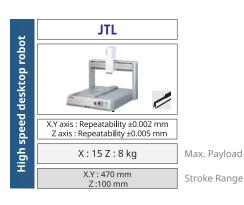
X:12Z:6kg

X.Y: 200/300/400/500 mm

X:10 Z:5 kg X.Y:150/250/350/450 mm Max. Payload

Stroke Range









Desktop Robots



ballscrew drive



Max. stroke Max. speed 500-500mm 1000mm/s



Z axis payload



TSC400









10000 points



XYCGT XYSGT

XYSGT

XYSGT

XYSGT

XYSGT

XYSGT

XYSGT

XYSGT

XYSGT

1100×300×100 mm

1250×450×100 mm

Max. Payload Stroke Range

Applications

CCD Machine Vision Inspection



Pick-and-place for Small-sized Workpieces



Dispensing for Small-sized Workpieces



05

Automatic Guided Vehicles

AGV Drive Kit

With motor & controller











Automated Guided Vehicle

With motor & controller





Pickup-B62















DC24V/26AH

DC24V/50AH

DC24V/65AH

DC24V/65AH

Battery Voltage

500 kg

5~30 m/min 5~50 m/min

150 kg 5~50 m/min

5 kg 5~50 m/min Max. Payload Max. Speed

Pickup Cart

Pickup-I62

Pickup-F53J

100 kg







DC24V/26AH

DC24V/50AH

DC24V/100AH

Pickup-E64

Battery Voltage

250 kg

500 kg

500 kg

Max. Payload

5~30 m/min

5~30 m/min

5~48 m/min

Max. Speed

Carry-E64





DC24V/50AH

Carry-F58



DC24V/80AH

1000 kg

500 kg 10~30 m/min 10~60 m/min



DC24V/50AH 300 kg

10~30 m/min

Battery Voltage

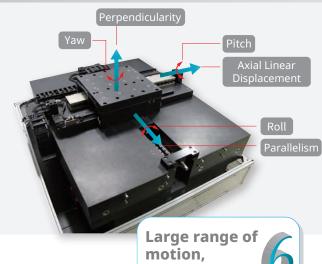
Max. Payload

Max. Speed

06

Air Bearing Linear Stage

Air Bearing Linear Stage



high precision



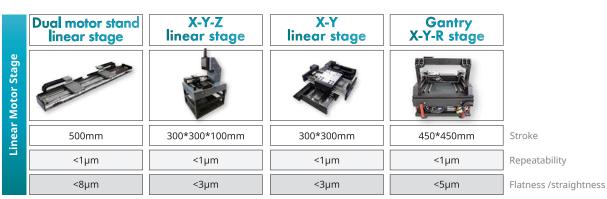
			1
	XYZ Multi-axis Direct-drive	XYZR Multi-axis Direct-drive	
cal ilig stage			
í	200*200*100mm	500*500*100mm	Stroke
	<1µm	<1µm	Repeata
	<2µm	<5µm	Flatness

Brand	Air Bearing Type	Design	Module Components	Assembly & Maintanence	Load Capacity	Stiffness
Other Brand	(Air Pad)	Complex	More and complex	Hard and time- consuming	low	Average
TOYO	Built-in Air bearing (TOYO)	Simple	Fewer and simple	Quick and easy	High	High



Slide with linear motors stage





	Gantry stage	Gantry X-Y stage	Gantry X-Y-Z stage	Gantry X-Y-Z stage	
Motor Stage					
Linear	1600*1200mm	600*600*100mm	1000*700*40mm	500*500*100mm	Stroke
	± 1µm	<1µm	± 1µm	<1µm	Repeatability
	± 10µm	<8µm	<10µm	<5µm	Flatness /straightness



Company History

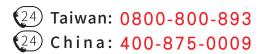
screws, and multi-axis controllers TSC400. Construction of Factory 2 at the Xingji Factory Complex has begun. Gripper CHY series won Taiwan excellence Product Award Linear motor robot module LGF series won Taiwan excellence Product Award Thailand warehouse established In response to the epidemic first to hold global Online exhibition The first to launch YouTube Online seminar Xinji factory completed Establish TOYO Robot (Thailand) Established Toyo (Thailand) Established Suzhou Fair (Thine established Suzhou Fair (Operation Progress		Product Progress
won the Talwan excellence award. Construction of Factory 2 at the Xingii Factory Complex has begun. Gripper CHY series won Taiwan excellence Product Award Linear motor robot module LGF series won Taiwan excellence Product Award Linear motor robot module LGF series won Taiwan excellence Product Award Linear motor robot module LGF series won Taiwan excellence Product Award Linear motor robot module LGF series won Taiwan excellence Product Award In response to the epidemic first to hold global Online exhibition The first to launch YouTube Online seminar 2020 Developed and mass-production of the CSL8 series spline modules Leading in the industry to launch a desktop robot full ballscrew drive Single-axis controller with built-in EtherCAT modul Leading in the industry to launch a dust-free serie electric grippers Xinji factory completed Establish TOVO Robot (Thalland) Establish ToVO			
Linear motor robot module LGF series won Taiwan excellence Product Award Thailand warehouse established In response to the epidemic first to hold global Online exhibition The first to launch YouTube Online seminar Xinji factory completed Establish TOYO Robot (Thailand) Established Suzhu Farke (Thailand) Established Suzhu Farke (Thailand) Established Suzhu Farke (Thailand) Established Suzhu Farke (Thailand) Established Suzhu Fair (Thailand) Established Su	won the Taiwan excellence award. Construction of Factory 2 at	2022	The product has successfully entered the national epidemic prevention equipment-nucleic acid testing
In response to the epidemic first to hold global Online exhibition The first to launch YouTube Online seminar Sinji factory completed Establish TOYO Robot (Thailand) Establish E	Product Award Linear motor robot module LGF series	2021	
Stabilish TOYO Robot (Japan)	In response to the epidemic first to hold global Online exhibition	2020	CSL8 series spline modules Leading in the industry to launch a desktop robot full ballscrew drive Single-axis controller with built-in EtherCAT module Leading in the industry to launch a dust-free series of electric grippers Developed and mass-production of the CHY series of
Received the 19th "Raising Start Award" award for outstanding export vendor Acquired 5000 ping of land inside Hsin Chi Industry Park Acquired patent for new M534739 AGV Passed ISO14001 certification Fukuoka Fab in Japan established Suzhou Fab in China established Overseas sales network increased to 10 distributors Started OEM production for CKD Japan Acquired patent for new model M429543 Acquired patent for new actuator model M440838 Entered Apple's supply chain officially Acquired OHSAS 18001: 2007 certification New fab in Yongkang Technology Park completed and activated Became official cooperating technical partners with Matsumoto Shouten Co., Ltd of Japan. Raw Material Barcode Management System implemented Passed ISO9001 certification Second branch in China established - Wuxi Toyo Automation Co., Ltd. 2011 Accumulated production output for Cartesian robot exceeded 1,000 units Accumulated production output for positioning platform exceeded 150 units Accumulated production output for positioning platform exceeded 150 units	Establish TOYO Robot (Thailand) Establish TOYO Robot (Japan)	2019	The globally unique built-in type linear motor module
Received the 19th "Raising Start Award" award for outstanding export vendor Acquired 5000 ping of land inside Hsin Chi Industry Park Acquired patent for new M534739 AGV Passed ISO14001 certification Fukuoka Fab in Japan established Suzhou Fab in China established Overseas sales network increased to 10 distributors Started OEM production for CKD Japan Acquired patent for new model M429543 Acquired patent for new actuator model M440838 Entered Apple's supply chain officially Acquired OHSAS 18001: 2007 certification New fab in Yongkang Technology Park completed and activated Became official cooperating technical partners with Matsumoto Shouten Co., Ltd of Japan. Raw Material Barcode Management System implemented Passed ISO9001 certification Second branch in China established - Wuxi Toyo Automation Co., Ltd. 2011 Accumulated production output for Cartesian robot exceeded 1,000 units Accumulated production output for positioning platform exceeded 150 units Accumulated production output for positioning platform exceeded 150 units			,
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Fukuoka Fab in Japan established Suzhou Fab in China established Overseas sales network increased to 10 distributors Started OEM production for CKD Japan Acquired patent for new model M429543 Acquired patent for new actuator model M440838 Entered Apple's supply chain officially Acquired OHSAS 18001: 2007 certification New fab in Yongkang Technology Park completed and activated Became official cooperating technical partners with Matsumoto Shouten Co., Ltd of Japan. Raw Material Barcode Management System implemented Passed ISO9001 certification Second branch in China established – Wuxi Toyo Automation Co., Ltd. 2011 The only G series track embedded actuator developed and mass produced in Taiwan Servo cylinder officially released Development of Servo stepping motor controller TC100 control	for outstanding export vendor	2017	
Overseas sales network increased to 10 distributors Started OEM production for CKD Japan Acquired patent for new model M429543 Acquired patent for new actuator model M440838 Entered Apple's supply chain officially Acquired OHSAS 18001: 2007 certification New fab in Yongkang Technology Park completed and activated Became official cooperating technical partners with Matsumoto Shouten Co., Ltd of Japan. Raw Material Barcode Management System implemented Passed ISO9001 certification Second branch in China established – Wuxi Toyo Automation Co., Ltd. Development of Servo stepping motor controller TC100 con Accumulated production output for AGV exceeded 200 to Develop of 4 axis horizontal multi-joint robot completed Accumulated production output for Single axis robot exceeded 5,000 units High speed linear motor actuator officially on sale 2012 Development of Servo stepping motor controller TC100 con Develop of 4 axis horizontal multi-joint robot completed exceeded 60,000 units Accumulated production output for Cartesian robot exceeded 150 units 2012 Accumulated production output for positioning platform exceeded 150 units Accumulated production output for Cartesian robot exceeded 150 units		2016	
Acquired patent for new model M429543 Acquired patent for new actuator model M440838 Entered Apple's supply chain officially Acquired OHSAS 18001: 2007 certification New fab in Yongkang Technology Park completed and activated Became official cooperating technical partners with Matsumoto Shouten Co., Ltd of Japan. Raw Material Barcode Management System implemented Passed ISO9001 certification Second branch in China established – Wuxi Toyo Automation Co., Ltd. Accumulated production output for Cartesian robot exceeded 5,000 units High speed linear motor actuator officially on sale 2012 Development of first AGV system completed Accumulated production output for positioning platform exceeded 150 units Accumulated production output for Cartesian robot exceeded 150 units		2015	Servo cylinder officially released Development of Servo stepping motor controller TC100 completed
Acquired patent for new actuator model M440838 Entered Apple's supply chain officially Acquired OHSAS 18001:2007 certification New fab in Yongkang Technology Park completed and activated Became official cooperating technical partners with Matsumoto Shouten Co., Ltd of Japan. Raw Material Barcode Management System implemented Passed ISO9001 certification Second branch in China established – Wuxi Toyo Automation Co., Ltd. Wexceeded 40,000 units Accumulated production output for Cartesian robot exceeded 5,000 units Accumulated production output for positioning platform exceeded 150 units Accumulated production output for Cartesian robot exceeded 1,000 units		2014	Accumulated production output for AGV exceeded 200 units Develop of 4 axis horizontal multi-joint robot completed
Became official cooperating technical partners with Matsumoto Shouten Co., Ltd of Japan. Raw Material Barcode Management System implemented Passed ISO9001 certification Second branch in China established – Wuxi Toyo Automation Co., Ltd. Accumulated production output for positioning platform exceeded 150 units Accumulated production output for Cartesian robot exceeded 1,000 units	Acquired patent for new actuator model M440838 Entered Apple's supply chain officially	2013	exceeded 60,000 units Accumulated production output for Cartesian robot exceeded 5,000 units
Wuxi Toyo Automation Co., Ltd. exceeded 1,000 units	Became official cooperating technical partners with Matsumoto Shouten Co., Ltd of Japan. Raw Material Barcode Management System implemented	2012	Accumulated production output for positioning platform XYY
Acquired 3D inspection equipment exceeded 20,000 units	Wuxi Toyo Automation Co., Ltd. Quality Assurance Center established. Acquired 3D inspection equipment Acquired Republic of China Patent number M398055	2011	exceeded 1,000 units Accumulated production output for single axis robot
	"Tax Exemption Reward for Crucial Technology Firms" Honored with the 9th Business Startup Award "Silver Medal" from the Ministry of Economic Affairs First branch in China established – Shenzhen Toyo Automation Co., Ltd.	2010	
First participation of Taipei exhibition Marketing Department established for improvement of product promotion Marketing Department established for Development of single axis robot officially started Development of single axis industrial use robot complete	Marketing Department established for	2009	
TOYO company established 2008 Distribute logistics and gripper-related automation components Distribute relative robots		>	

Global Services



	Taiwan	China	Japan	South East Asia	Korea	Europe	America
Production Fab	•	•	•		•		
Overseas Branches		●Shuzhou ●Shenzhen		●Thailand			
Technology Center	•		•		•		
Agency	•	•	•	•	•	•	•

TOYO Global Network





The website has undergone significant changes.
For more information, please scan this QR code.

www.toyorobot.com



www.facebook.com/TOYOROBOT/



www.youtube.com/c/TOYOROBOT



www.toyorobot.cn/about.html

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