

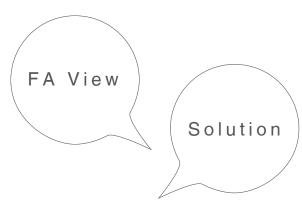


TOYO AUTOMATION CO., LTD

FA & ROBOT

Company profile





TOYO

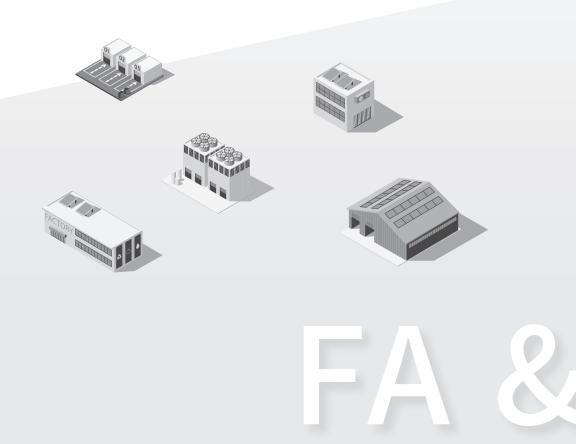
Even since the beginning of automation development in Taiwan, from simple automation processes in the early periods to the current connection with industry 4.0, Toyo has always been present.

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.

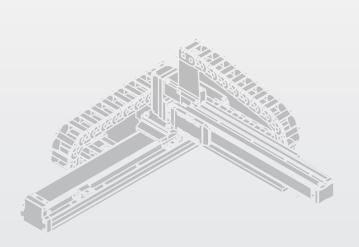
The philosophies of Toyo have always been "Product Evolution", "Stable Quality" and "Seek Excellence". We sincerely hope that Toyo can exceed your expectations and become the partner that will grow with your business.





Continuous Evolution

on Automation







ROBOTS

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.

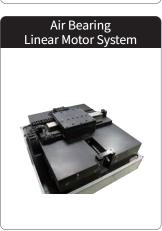
Actuator







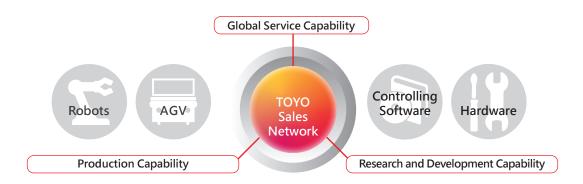




- High price-performce ratio
- Flexible customization
- Short delivery time

- Stable quality
- Versatile product line

Operational strategy



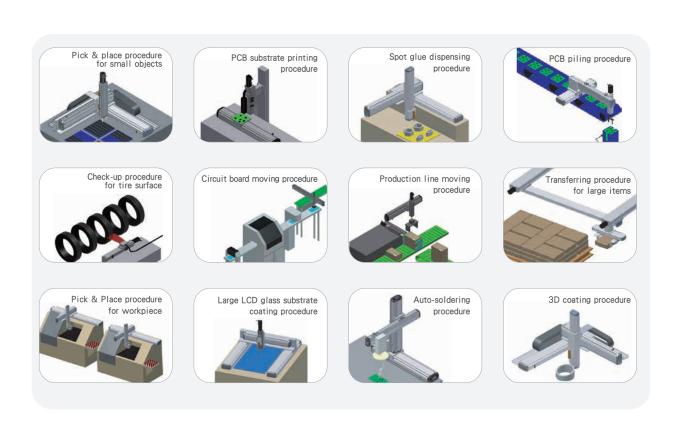
Application

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

TOYO Automation Co., Ltd.

Chairman of board

Mr. Johnny Lin

Employees

400

Established On

2000 NTD\$220,000,000

Registered Capital Address

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

Tainan City 709, Taiwan.

Telephone

+886-6-2021347 +886-6-2025974

Website

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

VEOLOTINGS



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 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.

Awards







Got 19th Taiwan Business Rising Star Award

Patented Technologies



Patent application

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



CGTH/CGTY Series Got 2018 Taiwan Excellence Awards



LGF / CHY Series Got 2021 Taiwan Excellence Awards



LGW Series Got 2021 Taiwan Excellence Awards



CPSG/LM4 Sreies Got 2023 Taiwan Excellence Awards



LBT/LXY/SRT Sreies Got 2024 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

Single-axis Linear Actuator (Without motor)

Compatible with motors manufactured by other brands







Push rod screw slide











European type



ECH2 Ballscrew type

ECH2-14 ECH2-14D ECH2-17 ECH2-17D ECH2-22 ECH2-22D







Built-in linear guide-ways clean-room: slider type



GCH4 GCH12 GCH5 GCH5S GCH8S 🥪



Built-in linear guide-ways clean-room: Rod type GCY Ballscrew type

GCY4 GCY5 GCY8 GCY12



Single-axis Linear Actuator (Without motor)

Compatible with motors manufactured by other brands



Flat track built-in electric slide **GLTH/GLTB** Ballscrew type Belt Type GITH3/5/8/12 GLTH5D/8D

GLMH5/8 GLTH5M/8M



Multi-axis Actuator (Without motor)

Compatible with motors manufactured by other brands



Mulit Axis Ball screw Type



XYTH650-A XYTH760-A XYTH870-A XYTH876-A



Arm Type A-Type

Polar Coordinate Type P-Type



A-Type

XYTH760-F





XY Type F-Type

Mulit Axis Belt Type



XYTB650-A XYTB760-A XYTB870-A XYTB876-A



XYTB870-G XYTB876-G



Servo Cylinder

The best option for pneumatic cylinder replacement

Closed-loop stepping motor

Built-in Guideway Cylinder-Slide Type

CGTH

CGTH3/4/5/8

CGLTH3/4/5/8

Rod Type CGTY CGTY4 CGTY8

TAIWAN

Built-in Guideway Cylinder

Built-in Guideway Cylinder-



High rigidity miniature cylinder

CSG CSG20 CSG25

Electric Gripper

CH

CHZ2-S10 CHS2C-S20 CHZ2-S14 CHS2C-S40 CHZ2-S22 CHS2C-S68 CHS2B-S20 CHY2B-S80 CHS2B-S40 CHY2B-S150 CHS2B-S68



Hollow servo motor

TAIWAN EXCELLENCE

Built-in Guideway Cylinder-Built-in Guideway Cylinder-Rod Type **DGTH** DGTY DGTH3

DGTH4

DGTH5

DGTY4 DGTY5

DM DMG25 DMG40 DMH25 DMH40

Mini Cylinder



Economical electric cylinder Built-in controller

Mini electric cylinder

High rigidity micro **CPSG**

CPGLTH CPSG20 CPGLTH5 CPSG25



Mini electric cylinder **CPGLTB**



Push rod screw slide

CPY CPY43 CPY62

Toyo Product Lineup



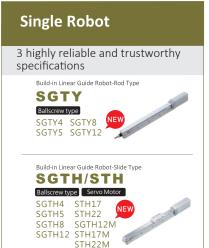
Free member registration

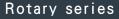




(24) Taiwan: 0800-800-893 (24) China : 400-875-0009







Suitable for visual alignment

Electric spline CSL8 Stepping Motor



Rotary electric cylinder

CRC Stepping Motor CRC-7 CRC-9

CRC-11



Rotary Cylinder





High-precision harmonic hollow rotating platform

SRT Servo Moto SRT85

SRT95





Cartesian Coordinates Robot

Ball-screw-driven Desktop Robot

Gantry, cantilever, polar coordinates, cross shaped and more

Ball-screw-driven Desktop Robot

JTHX JTHS JTHX-200 JTHS-300 JTHX-300 JTHS-400 JTHX-400 JTHS-500 JTHX-500 JTHS-500D JTHX-500D



Ball-screw-driven Desktop Robot **JTHC**

JTHC-200 JTHC-300 JTHC-400 JTHC-500 JTHC-500D Ball-screw-driven Desktop Robot **JTHD**

JTHD-200 JTHD-300 JTHD-400 JTHD-500 JTHD-500D





High performance control system

Servo Motor Controller

TC/XC/LC/SC/SD TC100

XC100 LC100 SC100 SD100





TC100 XC100 LC100 SC100 SD100 XC200

Ball-screw-driven Cartesian Robot

XYCGT321

XYCGT XYCGT320



Ball-screw-driven Cartesian Robot XYSGT430



TSC

TSC400 TSC400S



oina Motor

TSC400



Automatic Guided Vehicle

MES compatible to achieve industry 4.0

Basic Type AGV Unit MP-BS90S Basic Type AGV Unit PL-BS90M Basic Type AGV Unit PD-BS90M

Servo Controller **IPC**

AGV System **MPcart**



AGV System MultiV















Electric Actuator Series

Single-axis Linear Actuator

Without motor





















Multi-axis Linear Actuator







Belt Drive Clean Room



XYTH Series XYCH Series Ball Screw Cartesian Robot $X \cdot Y \cdot Z$ axis Repeatability ± 0.05 mm

22 kg 1500×1050×550 mm

22 kg 1500×1050×550 mm Max. Payload Stroke Range

XYTB Series XYCB Series Belt Type Cartesian Robot X · Y axis Repeatability ±0.04 mm

22 kg 22 kg

3500×750×550 mm 3500×750×550 mm Max. Payload Stroke Range

Combination



Servo Cylinder Series

Servo Cylinder

With motor & controller























30 kg

50~1250 mm

CHS2B Series

CGTH Series





CGTY Series



CGCH Series

Repeatability ±0.01mm Repeatability ±0.005mm 30 kg 30 kg 50~800 mm 50~1250 mm

Max. Payload Stroke Range







Repeatability ±0.01mm

509 N

68 mm



Repeatability ±0.01mm

509 N

68 mm

CHS2C Series







90/30 N 80/150 mm

Max. Gripping Force Max. Open-Close



Built-in Cylinder



12 kg

30/50/75/100/125

22 mm



50~650 mm



50~1500 mm



1		
-11		

CPY Series

Repeatability ±0.005mm	Repeatability ±0.06mm
20 kg	21/0

'	Repeatability ±0.0111111
	50 kg
	50~700 mm

Max. Payload Stroke Range









Linear Motor Robot

With motor & controller



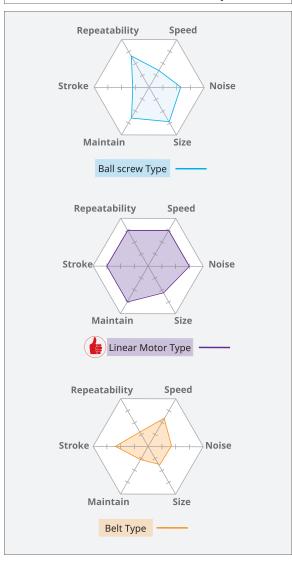






XC200 Controller

Long range, high precision, high speed and low noise can be achieved simultaneously.



Desktop Robot Series

Desktop Robots









controller 8Kg

Built-in repeatability

TSC400

mm









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

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

Max. Payload Stroke Range



Max. Payload Stroke Range









Desktop Robots









Z axis payload 12Kg



Built-in controller TSC400





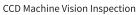






Max. Payload Stroke Range







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





DC24V/40AH DC24V/40AH 300 kg 100 kg 1~60 m/min 3~45 m/min



3~30 m/min

Pcart Series



DC24V/40AH 5 kg 3~45 m/min

Battery Voltage Max. Payload Max. Speed



MPcart Series

DC24V/40AH 700 kg 3~45 m/min

Pcart Series

MPcart Series

Pcart Series

DC24V/40AH 100 kg 3~45 m/min

MPcart Series

DC24V/60AH 900 kg 3~45 m/min

Battery Voltage Max. Payload Max. Speed

AGV

DC24V/40AH 300 kg 3~45 m/min

Pcart Series

DC24V/40AH 200 kg 3~45 m/min



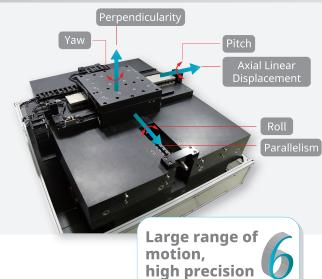
DC24V/40AH 200 kg 3~45 m/min

Battery Voltage Max. Payload Max. Speed

06

Air Bearing Linear Stage

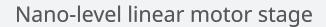
Air Bearing Linear Stage



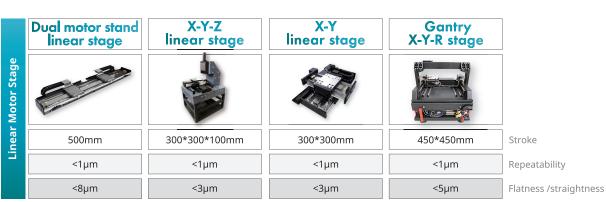


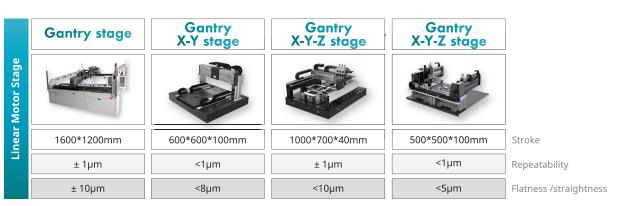


Brand	Air Bearing Type	Design	Module Components	Assembly & Maintanence	Load Capacity	Stiffness
Other Brand	(Air Pad)	Complex	More and complex	Hard and time- consuming	low	Average
TOYO	Built-in Air bearing (TOYO)	Simple	Fewer and simple	Quick and easy	High	High

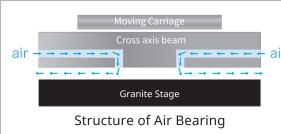








Advantages of Air Bearing Stage



- Nozzles are built-in to the active faces of the high -precision components
- High stiffness and High load capacity
- Streamlined design featuring fewer components
- Achieves high mechanical precision through specialized geometric design
- Optimized multi-axis precision
- Long-term reliability and stability

Company History

Operation Progress		Product Progress
SRT/LBT/LXY series products won the 2024 Taiwan Excellence Award Established multiple overseas sales companies: North American Company (California, USA)/ Indian Company (Pune)/Japanese Company (Tokyo) Established Korean factory (Gyeonggi-do) Cooperated with CKD to establish electric cylinder production line in Thailand factory	2024	The first in Taiwan: the new Low protile built-in guideway actuator GLTH / GLTB
CPSG/LM4 series products won the 2023 Taiwan Quality Award Dongyouda's Korean subsidiary was established	2023	The only original product in Taiwan: Nano air bearing Throttle components are directly embedded in high-precision components
This Linear motor module LGW series won the Taiwan excellence award. Construction of Factory 2 at the Xingji Factory Complex has begun.	2022	Development and mass production of hollow motors, screws, and multi-axis controllers TSC400. The product has successfully entered the national epidemic prevention equipment-nucleic acid testing machine.
Gripper CHY series won Taiwan excellence Product Award Linear motor robot module LGF series won Taiwan excellence Product Award	2021	
Thailand warehouse established 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 module Leading in the industry to launch a dust-free series of electric grippers Developed and mass-production of the CHY series of large-stroke built-in controller electric grippers
Xinji factory completed Establish TOYO Robot (Thailand) Establish TOYO Robot (Japan) Become strategic partner with YAMAHA	2019	The globally unique built-in type linear motor module officially mass-produced
Obtain Taiwan Excellence Award	2018	DM series officially mass-produced XC100-controller of DC Servo Motor officially mass-produced
Received the 19th "Raising Start Award" award for outstanding export vendor Acquired 5000 ping of land inside Hsin Chi Industry Park	2017	Cart Series of AGVS officially released. Drive Unit Series of AGVS officially released.
Acquired patent for new M534739 AGV Passed ISO14001 certification	2016	Development of TC100- controller of servo motor completed The only G series track embedded actuator developed and mass produced in Taiwan
Fukuoka Fab in Japan established Suzhou Fab in China established	2015	Servo cylinder officially released Development of Servo stepping motor controller TC 100 completed
Overseas sales network increased to 10 distributors Started OEM production for CKD Japan	2014	Accumulated production output for AGV exceeded 200 units Develop of 4 axis horizontal multi-joint robot completed
Acquired patent for new model M429543 Acquired patent for new actuator model M440838 Entered Apple's supply chain officially Acquired OHSAS 18001: 2007 certification	2013	Accumulated production output for single axis robot exceeded 60,000 units Accumulated production output for Cartesian robot exceeded 5,000 units High speed linear motor actuator officially on sale
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	2012	Development of first AGV system completed Accumulated production output for positioning platform XYY exceeded 150 units
Second branch in China established – Wuxi Toyo Automation Co., Ltd. Quality Assurance Center established. Acquired 3D inspection equipment Acquired Republic of China Patent number M398055 IE ERP Enterprise Resource Planning system implemented	2011	Accumulated production output for Cartesian robot exceeded 1,000 units Accumulated production output for single axis robot exceeded 20,000 units Development of high speed linear motor actuator completed
Approved by the Ministry of Economic Affairs for "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. Processing Department established	2010	Accumulated production output for single axis robot exceeded 5,000 units Development of single axis robot exceeds 30 specifications Production of positioning platform XYY series officially started
First participation of Taipei exhibition Marketing Department established for improvement of product promotion	2009	Development of Cartesian multi-axis robot completed Production of single axis robot officially started Development of single axis industrial use robot completed
TOYO company established	2008	Distribute logistics and gripper-related automation
ECON company established	2000	components Distribute relative robots

Global Services



	Taiwan	China	Japan	South East Asia	Korea	Europe	America	India
Production Fab	•	•	•	•	•			
Overseas Branches	•Global headquarters	●Shuzhou ●Shenzhen	∙Tokyo	 Thailand 	∙Korea		•	•
Technology Center	•		•		•			
Distributor	•	•	•	•	•	•	•	•

TOYO Global Network

TOYO GROUP GLOBAL SERVICE



















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Silicon Valley, CA, US Email: ta1@toyorobot.com

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