

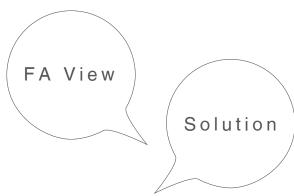


TOYO AUTOMATION CO., LTD

FA & ROBOT

Company profile





TOYO

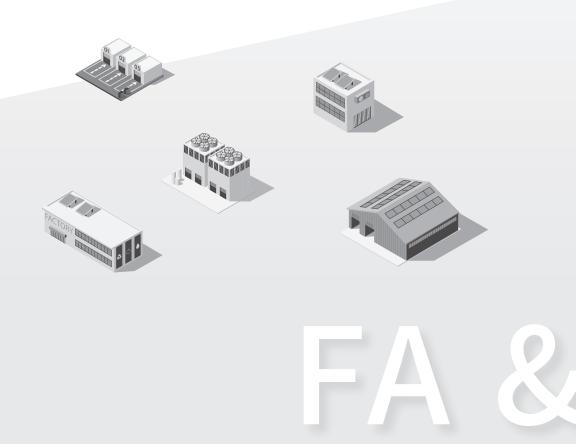
Even since the beginning of automation development in Taiwan, from simple automation processes in the early periods to the current connection with industry 4.0, Toyo has always been present.

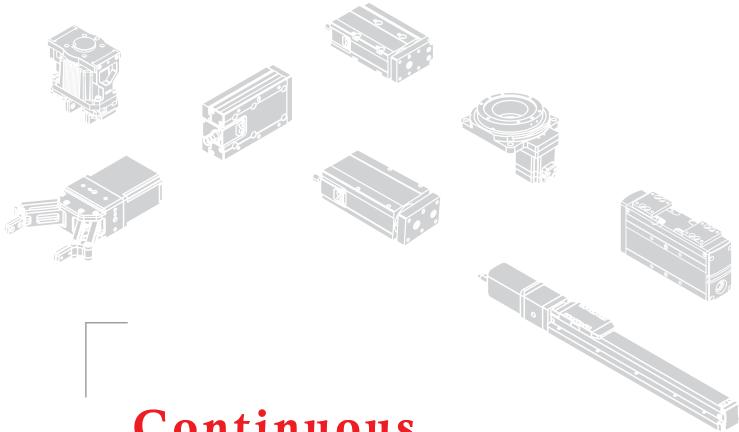
For a long time, we have focused on the development of professional miniature robots, ranging from the simplest control single-axis linear actuator without motor to the complete solution of full motor kits and control systems, all proudly manufactured in Taiwan. We strive to evolve and accommodates to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

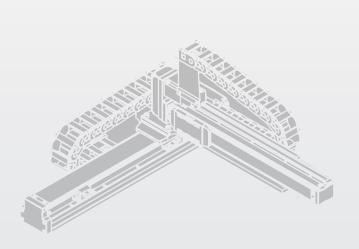


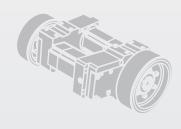


Continuous

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.

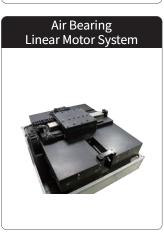
Actuator







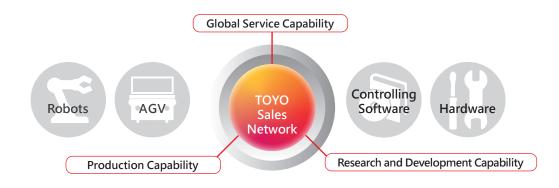




- High price-performce ratio
- Flexible customization
- Short delivery time

- Stable quality
- Versatile product line

Operational strategy



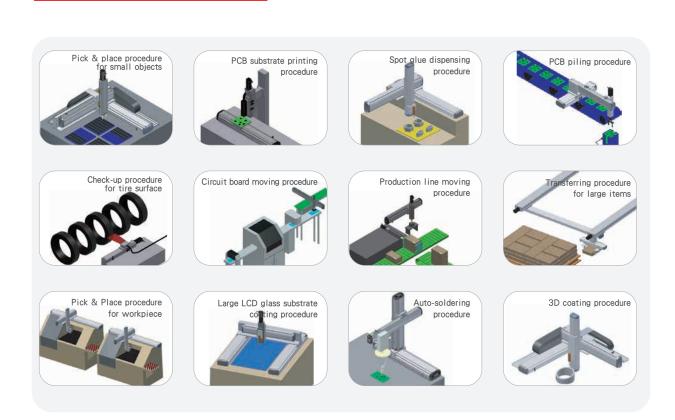
Application

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 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 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, trade marks 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.

Awards







Got 19th Taiwan Business Rising Star Award

Patented Technologies





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







ECH2

Ballscrew type





European type









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











Single-axis Linear Actuator (Without motor)

Compatible with motors manufactured by other brands



FTK15 FNK15 ETK22 ENK22 ETK30 ENK30





Multi-axis Actuator (Without motor)

Compatible with motors manufactured by other brands



XYGT321-A XYGT430-A XYGT432-A



Arm Type A-Type





XYTH650-P XYTH760-P XYTH880-P XYTH886-P



XYTH870-G XYTH876-G Polar Coordinate Type P-Type



XYTH760-G



G-Type

XY Type F-Type

Mulit Axis Belt Type **XYTB**



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





TAIWAN

Built-in Guideway Cylinder Built-in Guideway Cylinder-



High rigidity miniature cylinder



Electric Gripper

CHS2B-S68

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





Hollow servo motor

TAIWAN EXCELLENCE

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



DGTY4 DGTY5

DM DMG25 DMG40 DMH25 DMH40 🐝

Mini Cylinder

Economical electric cylinder



Mini electric cylinder **CPGLTH** CPGITH5 CPGLTH8



Push rod screw slide CPY



Toyo Product Lineup





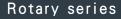




(24) Taiwan: 0800-800-893 (24) China : 400-875-0009







Machine vision alignment OK

Electric spline CSL8 Stepping Motor



Rotary electric cylinder

CRC Stepping Motor CRC-7 CRC-9



Rotary Cylinder





High-precision harmonic hollow rotating platform

STH22M

SRT Servo Moto SRT85

SRT95





Cartesian Coordinates Robot

U shaped, cantilever, polar coordinates, cross shaped and more

Ball-screw-driven Desktop Robot **JTHX**

JTHX-200 JTHX-300 JTHX-400 JTHX-500

Ball-screw-driven Desktop Robot **JTHS** JTHS-300 JTHS-400 JTHS-500 JTHS-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





Ball-screw-driven Cartesian Robot

JTHX-500D

XYCGT





Ball-screw-driven Cartesian Robot **XYSGT**

XYSGT430 XYSGT432



Robot specific controllers (1 ~ 4 axis)

High performance control system

Servo Motor Controller TC/XC/LC/SC/SD

TC100 XC100 LC100 SC100 SD100







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



AGV System













Electric Actuator Series

Single-axis Linear Actuator

Without motor

































Servo Cylinder Series

Servo Cylinder

With motor & controller











Stepping Motor Control 127 Points

Control Control Voltage LD/OC RS485 DC24V

TC100 Controller







30 kg

50~1250 mm

CGTH Series



CGTY Series



50~1250 mm

CGCH Series

Repeatability ±0.01mm Repeatability ±0.005mm 30 kg 30 kg

Max. Payload Stroke Range

Long Stroke

TC100 Controller





Repeatability ±0.02mm

278 N

22 mm

Worm

12.8 kg



Repeatability ±0.01mm

509 N

68 mm

CHS2B Series





Repeatability ±0.01mm

509 N

68 mm

50~800 mm

CHS2C Series





Repeatability ±0.05mm

90/30 N 80/150 mm Max. Gripping Force Max. Open-Close

STATE S **Built-in controller**



12 kg

30/50/75/100/125



Repeatability ±0.005mm

30 kg

50~650 mm

CPGLTH Series



2 kg

50~1500 mm

CPGLTB Series



? kg

| A |
|---|
| |

| | - 1 | |
|----------------------|-----|----------------------|
| epeatability ±0.06mm | | Repeatability ±0.0?m |
| | | |

行程範圍 ?~? mm 提供數值 / 等照片

最大荷重









Linear Motor Robot

With motor & controller

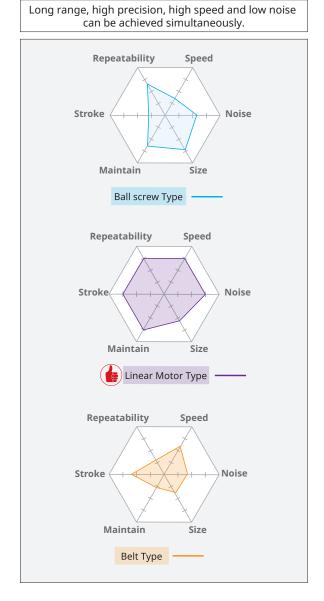












Desktop Robot Series

Desktop Robots



drive







JTHC











Optional double X axis



Max. stroke Max. speed Z axis 500-500mm 1000mm/s payload

8Kg

controller TSC400

±0.005

JTHD



X.Y.Z axis: Repeatability ±0.01 mm

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



Repeatability ±0.01 mm

X.Y: 150/250/350/450 mm Z:100 mm

X.Y.Z axis : Repeatability ±0.005 mm X:15 Z:8 kg

X.Y: 300/400/500 mm

Z:100 mm

JTHS

Max. Payload Stroke Range

Applications

R-axis style optional (JTHS series only)











Desktop Robots

















Z axis payload 12Kg

Built-in controller TSC400 repeatability 100 sets ±0.005 of programs

points



XYCGT XYSGT X.Y.Z axis Repeatability ±0.005 mm Z:5.5 kg Z:12 kg 1100×300×100 mm 1250×450×100 mm

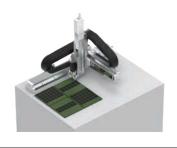
Max. Payload Stroke Range

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









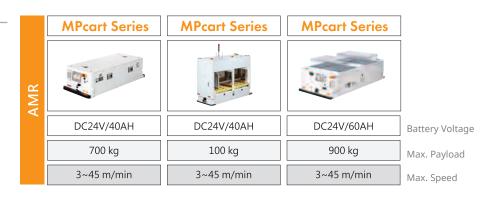


Automated Guided Vehicle

With motor & controller





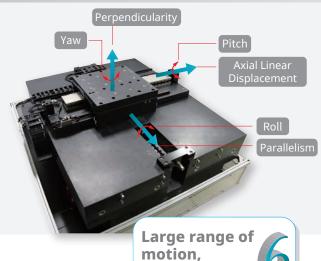


| | Pcart Series | Pcart Series | Pcart Series | |
|-----|--------------|--------------|--------------|-----------------|
| AGV | | | | |
| | DC24V/40AH | DC24V/40AH | DC24V/40AH | Battery Voltage |
| | 300 kg | 200 kg | 200 kg | Max. Payload |
| | 3~45 m/min | 3~45 m/min | 3~45 m/min | Max. Speed |

06

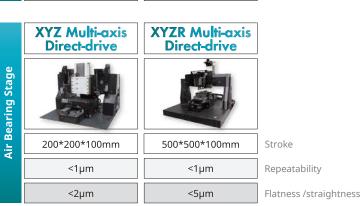
Air Bearing Linear Stage

Air Bearing Linear Stage



high precision

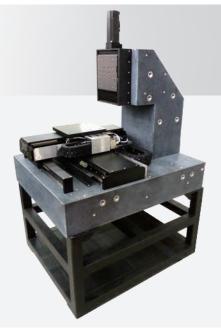


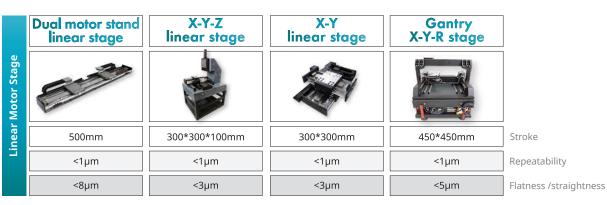


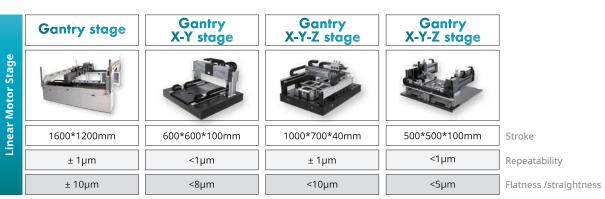
| Brand | Air Bearing Type | ng Type Design Module Component | | Assembly & Maintanence | Load Capacity | Stiffness |
|----------------|--------------------------------|---------------------------------|------------------|-----------------------------|------------------|-----------|
| Other Brand | (Air 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 |

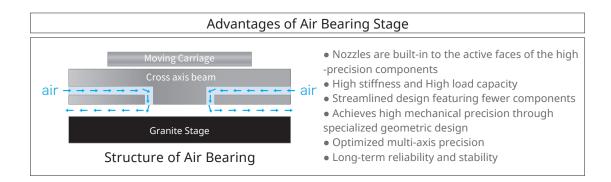


Slide with linear motors stage









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 built-in slide table 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 OLM production to CRD Sapan 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 | | ●Shuzhou ●Shenzhen | | Thailand | ∙Korea | | • | • |
| Technology Center | • | | • | | • | | | |
| Agency | • | • | • | • | • | • | • | |

TOYO Global Network









WeChat 🔼





TOYO GROUP GLOBAL SERVICE

• 東佑達自動化科技股份有限公司

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• 東佑達機器人(蘇州)有限公司

TOYO ROBOT (SHUZHOU) CO., LTD. 江蘇省昆山市張浦鎮振新東路586號(浩盛工業園C12-2) No 586, Zhenxin East Road, Zhangpu Town, Kunshan City, Jiangsu Province, China. Tel:+86-512-86890880 Fax:+86-512-86890881

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• TOYO ROBOTICS AMERICAS

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

• TOYO JAPAN 株式会社

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• TOYOROBOTICS KOREA CO.LTD.

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118/27 Moo 18 Klong Nueng Klong Luang Pathumthani 12120 Thailand.

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