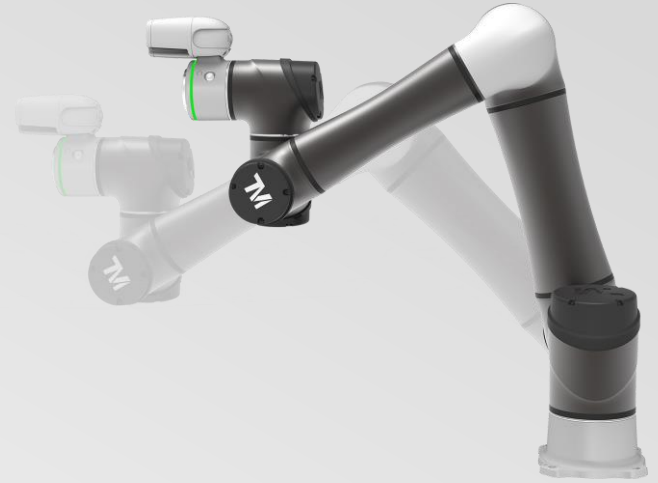


**TM** 達明機器人股份有限公司  
TECHMAN ROBOT INC.

Stock Code 4585



TM AI COBOT



# TECHMAN ROBOT INC

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# Disclaimer

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The information provided in this presentation, including all forward-looking statements, will not be updated to reflect any new information, future events, or changes in circumstances. Techman Robot Inc. (the Company) is under no obligation to update or revise the content of this presentation. The information contained herein, whether explicit or implicit, is not guaranteed to be accurate, complete, or reliable and should not be considered as a comprehensive statement of the Company's business, industry conditions, or significant future developments.

# Outline

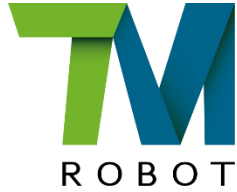
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1. Company Introduction
2. Products and Solutions
3. Achievements
4. Future Outlook

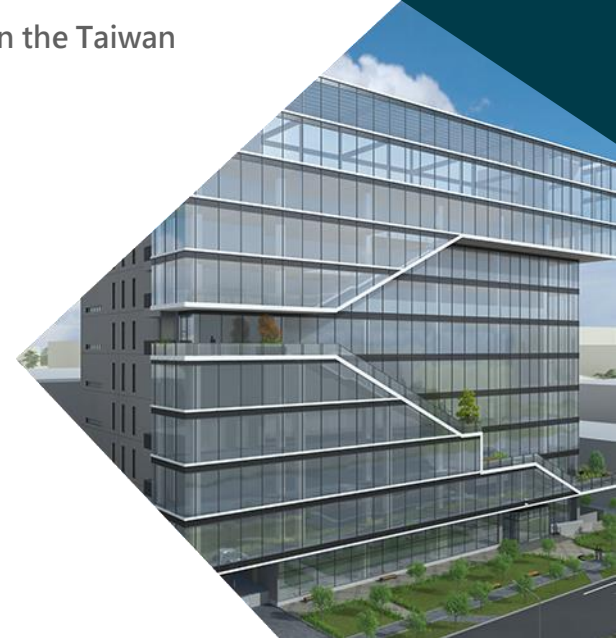
# Company Introduction

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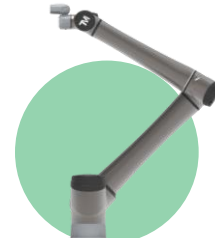
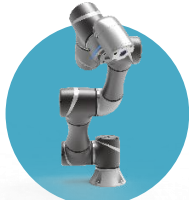
# Techman Robot Introduction



- Techman Robot Inc. (Stock Code: 4585), established in 2015, has been listed on the Taiwan Stock Exchange since September 2025.
- Capital: 1,028 million TWD
- Global Employee: ~450
- Global Sites:
  - HQ: Taoyuan, Taiwan
  - Subsidiary company & branch office:  
Busan, Korea; Shanghai & Shenzhen, China; Nagoya, Japan; Alblaserdam, Netherland
- Main Product:
  - Built-in AI Vision Cobot
  - AI Software Service
  - Smart Factory System Integration Solution



# Company Milestone



## 2012-2013

- QSI established a robot team
- Built SCARA robot & dual SCARA robot

## 2014-2015

- 1st Techman Collaborative Robot TM5 was born
- TM5 is announced at 2015 iRex expo in Tokyo
- Techman Robot Inc. established.

## 2016-2017

- Attended Hannover Messe expo, Taiwan TAIROS expo, and China CIIF expo in Shanghai

## 2018-2021

- Released medium-heavy cobots : TM12 · TM14 · TM16
- Won the Red Dot Design Award, iF Design Award and Taiwan Excellence Award



- Partnership with Omron **OMRON**
- Become Siemens, Continental global supplier **SIEMENS** **Continental**

## 2022

- Launched a new generation of Cobots with built-in AI engines and vision

**AI COBOT**

## 2023-2024

- Introduce New **TM S Series**
- Launched heavy-payload robot **TM25S/TM30S**
- Partners with NVIDIA to Create Digital Twin **NVIDIA**

## 2025~

- Launched **TM Xplore I**
- listed on the Taiwan Stock Exchange (Stock Code: 4585)

# Board of Directors

職稱	姓名	經歷
Chairman	Quanta Storage Inc. Rep. : <b>Shi-Chi Ho</b>	Ph.D. in Mechanical Engineering, Imperial College London Chairman, Quanta Storage Inc
Director	Quanta Storage Inc. Rep. : <b>Scott Huang</b>	Ph.D. in Mechanical Engineering, National Taiwan University COO & VP, Techman Robot Inc
Director	<b>Haw Chen</b>	Master in Electrical and Control Engineering, National Chiao Tung University CEO, Techman Robot Inc.
Director	OMRON TAIWAN ELECTRONICS INC. Rep. : <b>Olivier Welker</b>	École des Mines de Saint-Étienne, Master of Science, Mechanical & Industrial Engineering Senior General Manager, Robotics Business Division, Omron Corporation. President & CEO, ORT.
Independent Director	<b>Chung-Hsien Kuo</b>	Ph.D. in Mechanical Engineering, National Taiwan University Professor in the Department of Mechanical Engineering, National Taiwan University Director, Robotics Society of Taiwan
Independent Director	<b>Kai-Tai Song</b>	Ph.D. in Mechanical Engineering, Katholieke Universiteit Leuven (Belgium) Professor in the Department of Electrical and Computer Engineering and Institute of Electrical Control Engineering, National Chiao Tung University(NCTU) Director, Robotics Society of Taiwan
Independent Director	<b>Shu-Fen Wang</b>	Master's in Accounting, National Taiwan University Partner, Ever-Growth CPAs Firm Independent Director, Shinfox Energy Co., Ltd

# Management Team

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## Shi-Chi Ho Chairman

- Ph.D. in Mechanical Engineering, Imperial College London
- Quanta Storage Inc  
- Chairman
- Quanta Storage Inc  
- CEO

## Haw Chen CEO

- Master in Electrical and Control Engineering, National Chiao Tung University
- Quanta Storage Inc  
- Vice President

## Scott Huang COO

- Ph.D. in Mechanical Engineering, National Taiwan University
- Quanta Storage Inc  
- AVP

## William Wang CFO

- Master in Accounting, National Taiwan University
- Quanta Storage Inc  
- CFO
- Tricorntech Corporation. - Sr. VP/CFO

# Products and Solutions

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# The Future Is Here

We believe the **future** of robot is not just a factory tool  
It should be a **valuable partner** in the working environment

**Robots** are not only built in with **brains, eyes, and hands**,  
but also combined with **smart, simple, and safe**.

So we are committed to the development of  
**AI, vision, robot** three areas of technology

And integrate it into

## AI COBOT

Native AI Engine + Robot Arm + Vision System  
**Perfectly In One**

# Emerging Trends in Industrial Robotics: Collaborative Robots



Photo taken at Techman' s factory

# TM AI Cobot

- Regular Payload Series (TM5 series) **Applicable for electronics, semiconductors, food processing industries etc.**
- Medium-Heavy Payload Series (TM12, TM14) **Applicable for panel, metal manufacturing and processing industries etc.**
- Heavy Payload Series (TM20, TM25, TM30) **Applicable for semiconductor, palletizing etc.**

The series offer different payload & reach to support different need and tasks during a production task, and won the Red Dot Design Award, iF Design Award and Taiwan Excellence Award.



■ 全新Robot Stick & TM Screen



## Regular Payload Series

## Medium Payload Series

## Heavy Payload Series

### TM5S

- Payload: 5kg
- Reach: 946mm

### TM6S

- Payload: 6kg
- Reach: 1800mm

### TM7S

- Payload: 7kg
- Reach: 758mm

### TM12S

- Payload: 12kg
- Reach: 1300mm

### TM14S

- Payload: 14kg
- Reach: 1100mm

### TM20S

- Payload: 20kg
- Reach: 1300mm

### TM25S

- Payload: 25kg
- Reach: 1902mm

### TM30S

- Payload: 30kg/35kg\*\*
- Reach: 1702mm

# Core Technology — In-house Product Development

## Empowered by a world-class development team with end-to-end design capabilities

- **Cobots Arms:** Complete in-house design – mechanics, circuits, firmware, software & AI, mastering core technologies and key modules
- **System Integration:** Tailor-made solutions crafted to meet diverse customer needs.
- **Application Solutions:** Ready-to-go solutions - faster deployment



**Auto-focus Color Camera**  
Module & Vision Software

### Joint Modules & Cobot Body

- Robotic Mechanical Design
- Robotic Circuit Design
- Servo Motor Drive & Control

### Robotic Arm Control Software

- AI Inference & Vision Algorithms
- Graphical User Interface (GUI)
- Arm Kinematics Algorithms
- Real-Time Motion Control
- Functional Safety Hardware & Software Design

### Smart Manufacturing Software


- Smart Manufacturing Software
- AI Model Training Platform
- TM AI AOI Edge
- Inspection Image Management Platform
- Digital Twin Platform
- Smart Manufacturing IoT Management Software

# Patents & Certifications



- Filed **124** patent applications in Taiwan, the U.S., and Mainland China
- **95** patents granted to date

# Comparison of TM AI Cobot and Other Robots / Cobots

	TM AI Cobot 	Other Robot/Cobot Brands
<b>Hardware Platform</b>	Based on CPU/GPU hardware, fully integrates motion control and visual recognition platforms.	Internal operating systems mainly suitable for motion control; without new hardware architecture, visual or AI functions are limited.
<b>Operation System and Software Integration</b>	TMflow integrates motion control and visual programming into a single platform, simplifying operation without external integration, enabling fast deployment.	Difficult to synchronize motion and vision; requires high technical expertise and reliance on third-party integration.
<b>Vision Functionality</b>	TMflow offers extensive vision capabilities, such as hand-eye coordination, recognition, measurement, and AI anomaly detection, without third-party solutions, significantly reducing costs.	Limited to motion control.
<b>Vision and Hand-Eye Calibration</b>	Hand-eye and vision coordinate system calibration is factory-ready, allowing quick user implementation and production line replication.	Relies on third-party resources; requires complex calibration before deployment, leading to higher costs and lower precision.
<b>Artificial Intelligence</b>	Complete AI solutions are developed, supporting product line recognition, positioning, and external inspections.	Relies on third-party software and hardware, with time-consuming and costly integration processes.

# Industrial Application



Electronics Industry



Automotive Industry



Warehousing



CNC /Machining Industry



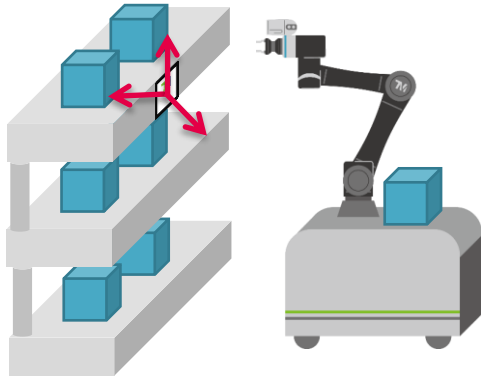
Semiconductor Industry



Food Industry

# Best AMR Partner - Set Once, Duplicate Fast

- With built-in vision, camera intrinsic parameters, hand-eye parameters and kinematics parameters have been calibrated before delivery, so the task project can be easily copied to multiple arms. Integrating after-market vision system to robot will take much effort for calibration, and it is very difficult to duplicate.
- When the first robot goes online, the rest robots of your fleet can be quickly duplicated by TM vision point correction technology.



■ First robot



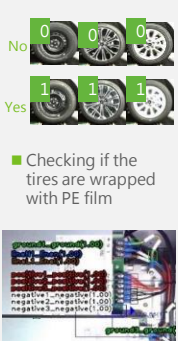
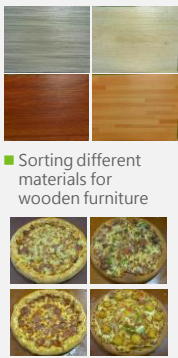

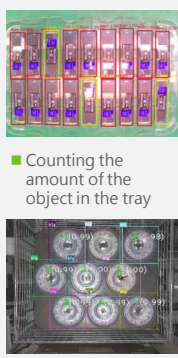
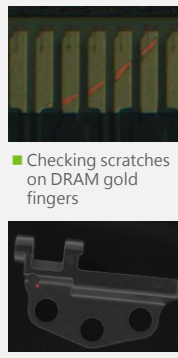
■ Duplicated robot



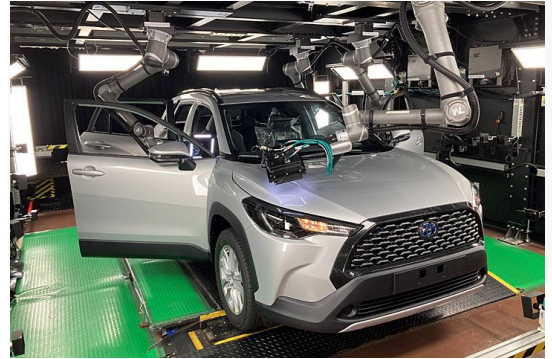
■ Application video

# TM AI Cobot - TM AI Vision

- TM AI+ Trainer on-site is used for neural network model training to avoid the leakage of confidential images
- The arm controller is built with an AI inference engine for highly real-time operations and does not require an additional PC
- TM Image Manager is used for AOI image management and building digital resumes of products

Assembly Inspection	Classification	Defects Inspection	Counting /Detection	Scratches /Cuts /Dents Inspection
 <ul style="list-style-type: none"><li>■ Checking if the tires are wrapped with PE film</li><li>■ Checking if all wires are connected correctly</li></ul>	 <ul style="list-style-type: none"><li>■ Sorting different materials for wooden furniture</li><li>■ Recognition of pizza flavor and crust</li></ul>	 <ul style="list-style-type: none"><li>■ Checking if there are metal scrap on the surface</li><li>■ Identifying objects with damage on the edge</li></ul>	 <ul style="list-style-type: none"><li>■ Counting the amount of the object in the tray</li><li>■ Objects detection and 3D positioning</li></ul>	 <ul style="list-style-type: none"><li>■ Checking scratches on DRAM gold fingers</li><li>■ Checking the dents on metal parts</li></ul>

■ Source : <https://news.u-car.com.tw/article/63975/>



■ Example of implementation

# Achievements

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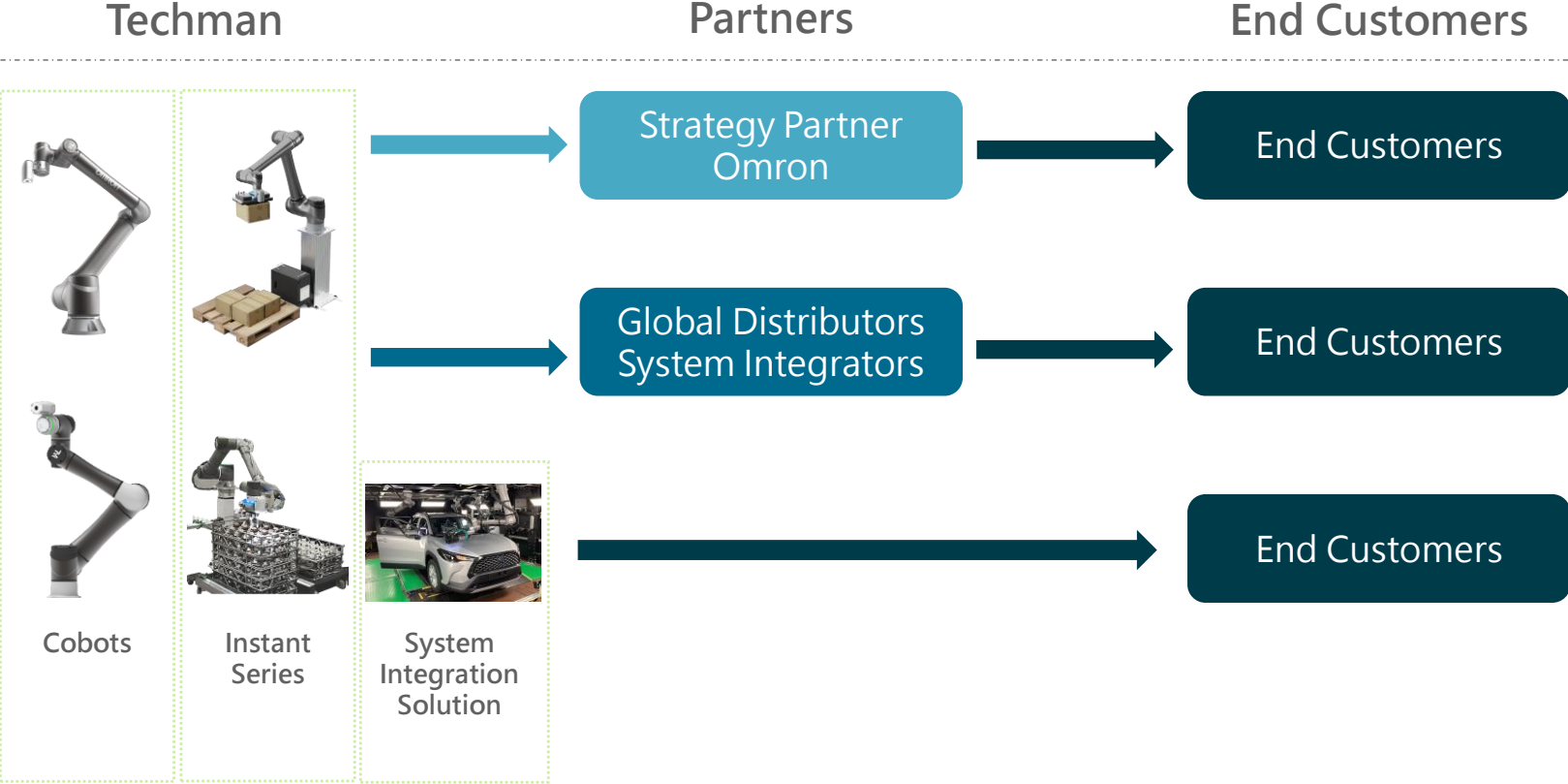


Techman Robot Inc

TM AI COBOT

Global Sales Exceed **18,000** units

# Sales Channel



# TM Global Site & Distributor Map

With over 100 distributors and SI around the world

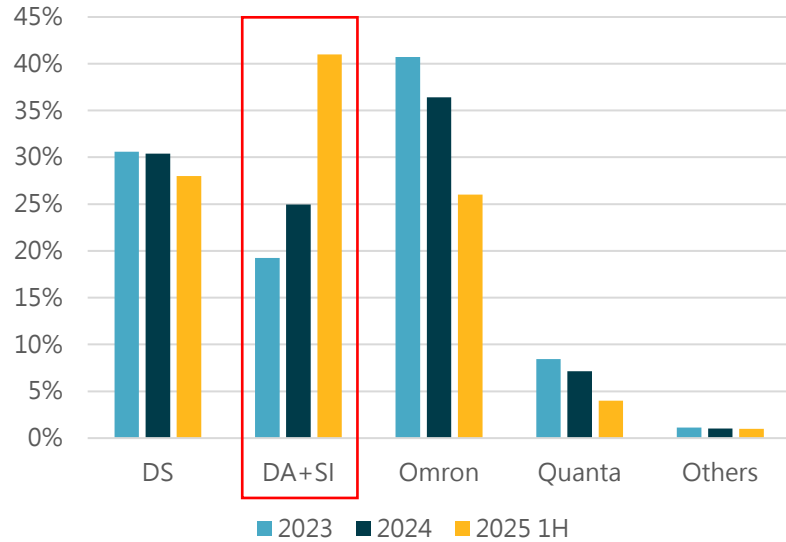


# TM Global Sales Region - Our cobot arms and software production are selling in over 50 countries

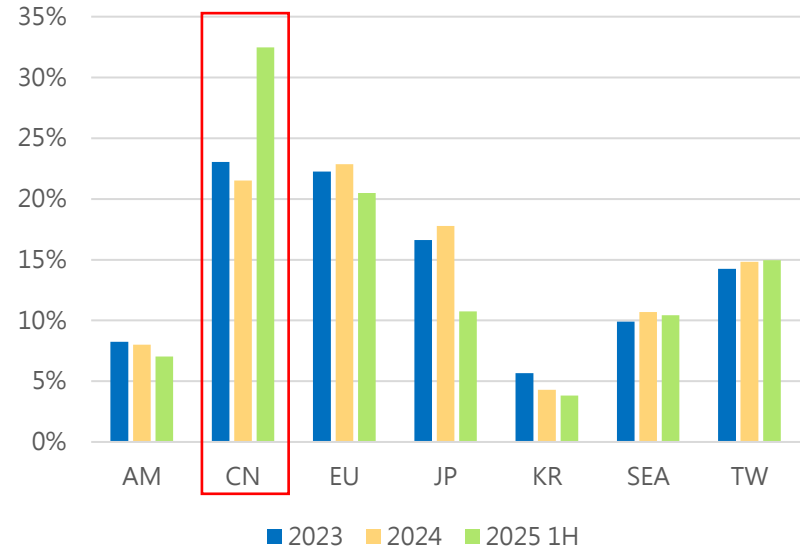


# Sales Channels & Regions

## Channels



## Regions



# Consolidated Income Statements

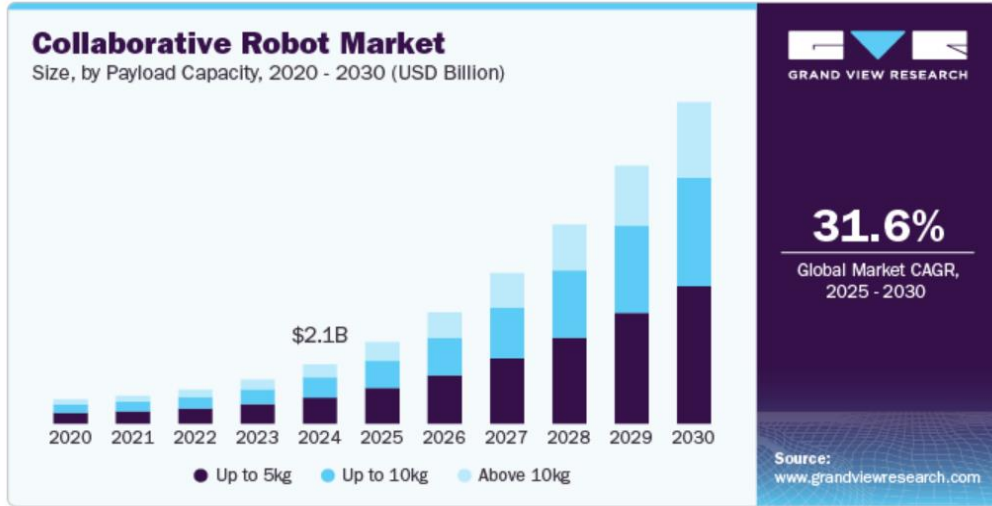
NT\$' 000

Items	2025 1H	2024	2023	2022
Revenue	<b>891,328</b>	1,481,037	<i>1,260,013</i>	1,391,762
Gross Margin	<b>459,986</b>	761,223	<i>583,807</i>	686,172
%	<b>51.6%</b>	51.4%	<i>46.3%</i>	49.3%
Operating Margin	<b>73,809</b>	21,645	<i>(40,011)</i>	99,481
%	<b>8.3%</b>	1.46%	<i>(3.2%)</i>	7.1%
Non-Operating P&L	<b>(33,722)</b>	85,090	<i>51,413</i>	70,641
Profit Before Tax	<b>40,087</b>	106,735	<i>11,402</i>	170,122
%	<b>4.5%</b>	7.2%	<i>0.9%</i>	12.2%
Net Profit	<b>36,288</b>	93,775	<i>11,182</i>	143,550
%	<b>4.1%</b>	6.3%	<i>0.9%</i>	10.3%
EPS	<b>0.4</b>	1.04	<i>0.12</i>	1.60

# Future Outlook

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# Global Collaborative Robot Market Forecast



Grand View Research, October 29, 2024



Statista, Aug. 28, 2024

# Future Development

With the leadership in AI and vision technology, development will continue in the following directions



Continued development of large distributors and end customers

Promote easily replicable applications to facilitate adoption SME enterprises. Such as welding, palletizing, SMT, inspection, AMR

Enter fields such as pharmaceuticals, healthcare, and logistics

Development of humanoid robot product technologies

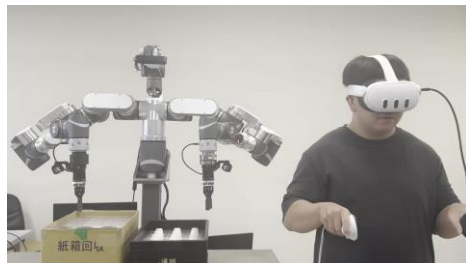
# TM Xplore I - Humanoid Robot



# Data Collection, Augmentation, Training and Deployment



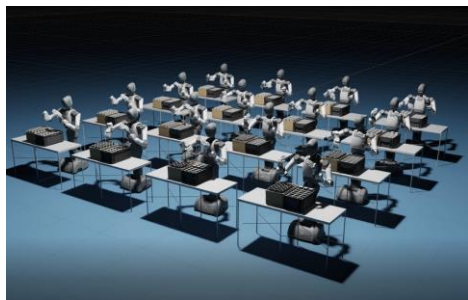
■ VR-based training



■ VR-based training



■ Gesture Recognition Training



■ Mimic



■ Cosmos



■ Inference

# Q&A

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**THANK YOU !**