# Turvo International Co., LTD

1Q25 Investor Conference

Stock Ticker: 2233

Speaker: Suri Wu
Director, Financial Management Division

Date: Mar 12, 2025

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# 7URVO

# Agenda

- Company Background
- > Core Competency
- Business Strategy
- > Financial Performance
- > Sustainable Development

# **Company Background**

**Establishment Date** 

**Capital Amount** 

Location

**Main Products** 

Number of Employees

December 29, 1987

TWD\$602,881 (thousand)

No.27, Jing 2 Rd., Wuci Dist., Taichung City 435, Taiwan

Precision metal components for Automobiles, Bicycles, Medical devices and Industrial applications

1,201 (as of Dec 31, 2024)





Dongguan Plant

Main Products: Auto, Industrial and Medical



Taichung Headquarter

Main Products: Bike, Industrial, Medical and TUF ONE



**Zhejiang Plant** 

Main Products: Auto, Industrial



# **Core Competency**

1

Professional Precision Metal Parts Processing

2

Introducing Advanced Equipment to Improve Production Efficiency and Quality

3

Diverse Quality Certification
Systems to Establish Long-Term
Partnerships with Clients

4

Customized Solutions for International Corporations to Fulfill Global Orders ISO 13485
Medical Devices
Quality
Management
System

IATF 16949
Automotive
Quality
Management
System
Certification

ISO9001 Quality Management System Certification









# **Business Strategy**

# Turning to Become











# **Expand Core Applications**

- Automobile components
- Bicycle components
- Medical products
- Industrial applications

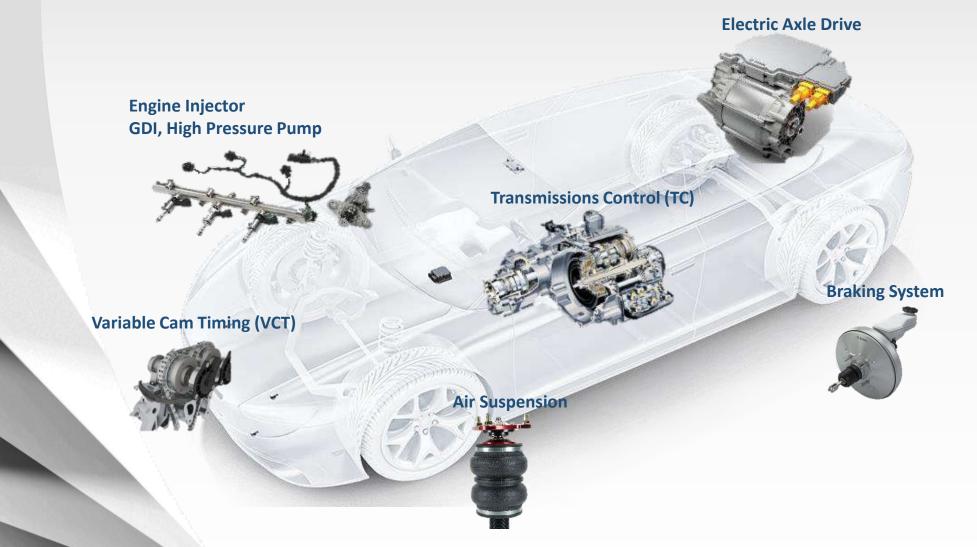
# **Proactive and Continuous Innovation**

- Develop new products to satisfy customers' needs
- Accelerate the expansion of non-fuel vehicle products (Hybrid/NEV/BEV)
- E-Bike
- Al application & eVTOL

#### **Launch OBM Products**

- Planetary Reducers
- RV Reducers
- Harmonic Reducers (Humanoid-related)

## **Business Strategy - Expand Core Applications**









**SCHAEFFLER** 

HITACHI Inspire the Next





## **Business Strategy - Expand Core Applications**



#### **Bicycle Components**

- Shock absorbers
- Front forks
- Hubs
- Seat post parts





#### **Medical Components**

Core components of insulin injectors





#### **Industrial Automation**

- Global industrial automatic sensors
- Hydraulic control systems







## **Business Strategy - Proactive and Continuous Innovation**

Fuel Cell & Thermal Management System

**ADAS Sensor** 

**Braking System** 

Non-Fuel Vehicle
Products /
Shared Component
End Applications









E-Bike





Surgical Instruments





## **Business Strategy — Proactive and Continuous Innovation**

**Latest Update for Planetary Reducers** 



### **Business Strategy — Proactive and Continuous Innovation**



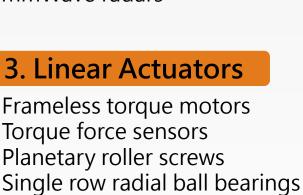


# **Key Components for Humanoids**



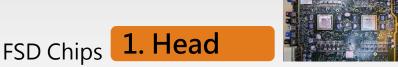
#### 2. Sensors

Image sensors Lens mmWave radars



#### 4. Rotary Actuators

Frameless torque motors Torque force sensors Harmonic reducers **Cycloid reducers** Cross roller bearings



System algorithms, visual navigation, language, and motion control modules





#### 5. Hands

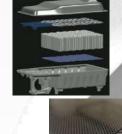
Coreless motors Micro planetary reducers 6D force sensors



Power battery



#### Structural components Communication Thermal management









## **Humanoid** — Future Demand for Reducers

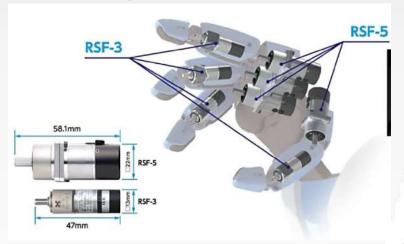
According to Morgan
Stanley, Tesla Optimus
Gen2's current BoM is \$5060k per unit (ex-software)

ceo Elon Musk estimated targeted Optimus selling price is ~\$20k (~NTD 650k) and predicted that by 2027, the production of Optimus will reach at least 500k units. Eventually, an estimated 20 to 30 billion robots could be operating worldwide.

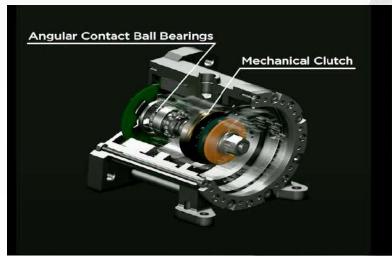
The usage of reducers for Optimus: 16 Harmonic Reducers 16 Planetary Reducers



# Rotary Actuator: Planetary (Harmonic) Reducers



#### **Rotary Actuator: Reducers**



# **TUF ONE Reducer — End Applications**



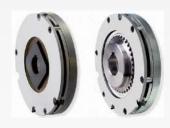




Frameless DD Motor



Component



Braking



Encoder

#### [Diagram] Humanoid Robot Drive System











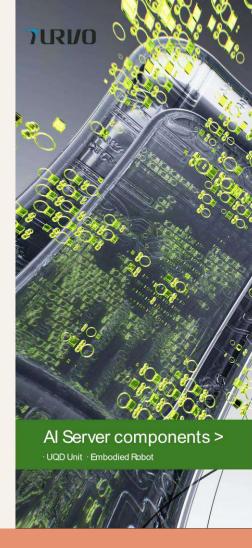






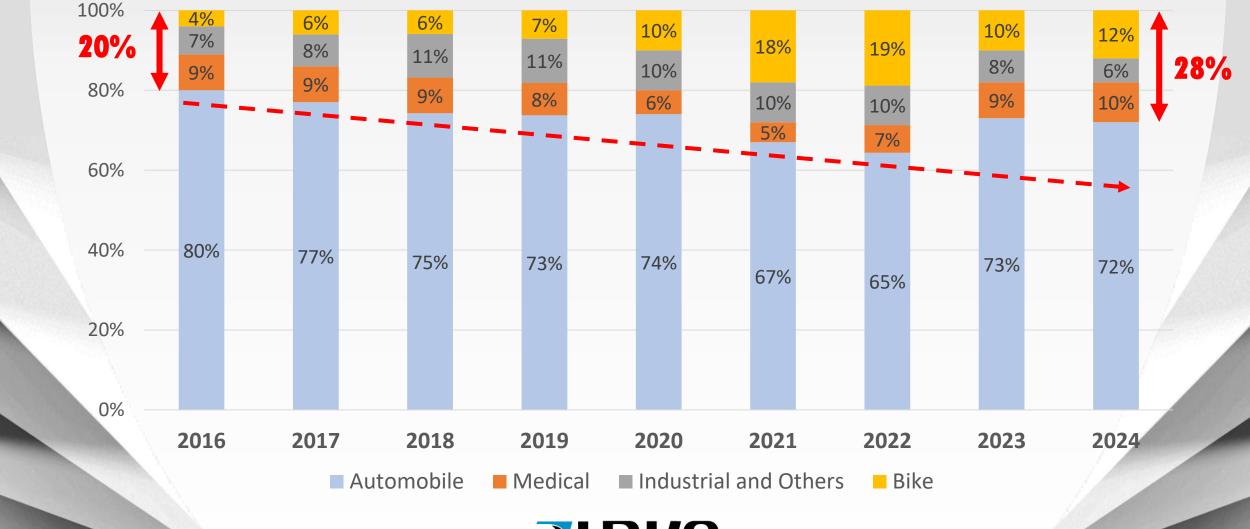






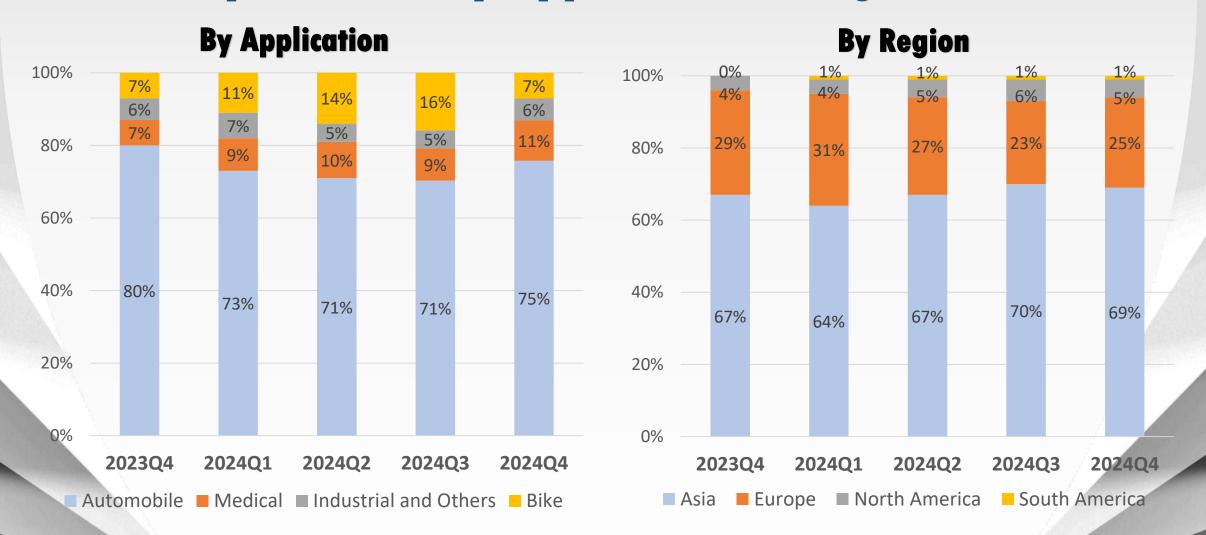
Seize the Opportunity

# **Annual Revenue by Application**





# **Quarterly Revenue by Application & Region**





# **Annual Operating Performance**

**Unit: NTD Millions** 

Fiscal Year	2020	2021	2022	2023	2024
Operating Revenue	2,538	3,233	3,350	3,337	3,659
Gross Profit	823	1,149	1,104	1,091	1,360
GPM (%)	32.43%	35.55%	32.94%	32.70%	37.18%
Operating Profit	405	649	545	532	688
OPM (%)	15.95%	20.08%	16.26%	15.93%	18.82%
Net Profit	359	530	614	530	658
EPS (NT\$)	6.23	9.01	10.32	8.86	10.96
Cash Dividend (NT\$)	3.75	5.40	6.00	5.30	7.00
Payout Ratio (%)	60.19%	59.93%	58.14%	59.82%	63.87%



# Sustainable Development

Turvo has begun applying for SBTi (Science Based Targets initiatives) and has submitted a commitment letter to the SBTi, which has been announced on the organization's official website.

Turvo has implemented specific environmental protection and energy-saving measures in its operations to "protect the environment, save energy, and love the Earth." The new Taichung plant obtained the Company's first silver-level green building certification in January 2025, making progress toward net-zero carbon emissions.

1<sup>st</sup> Green Building – New Taichung Plant





**Enhancing Green Energy Installations**Installing solar energy systems, smart meters, and activated carbon air pollution treatment equipment



#### **Reducing Pollution Sources**

Installing recycling systems on production lines, and using eco-friendly materials for cleaning processes



#### **Reducing Waste**

Reducing household waste, and using eco-friendly packaging materials



#### **Reducing Water Consumption**

Recycling and reusing production wastewater





# Thank You Q & A