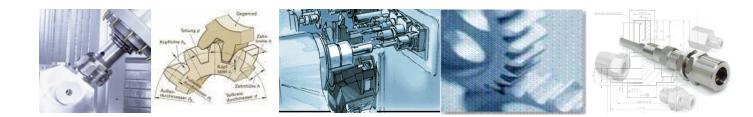
#### TURVO® Turvo International Co., Ltd www.turvo.com.tw

# Visions of TURVO To be the most competitive modular solution provider in the field of CNC turning



- Company Profile
- Current Progress
- Future Plan

# • Company Profile

- Current Progress
- Future Plan

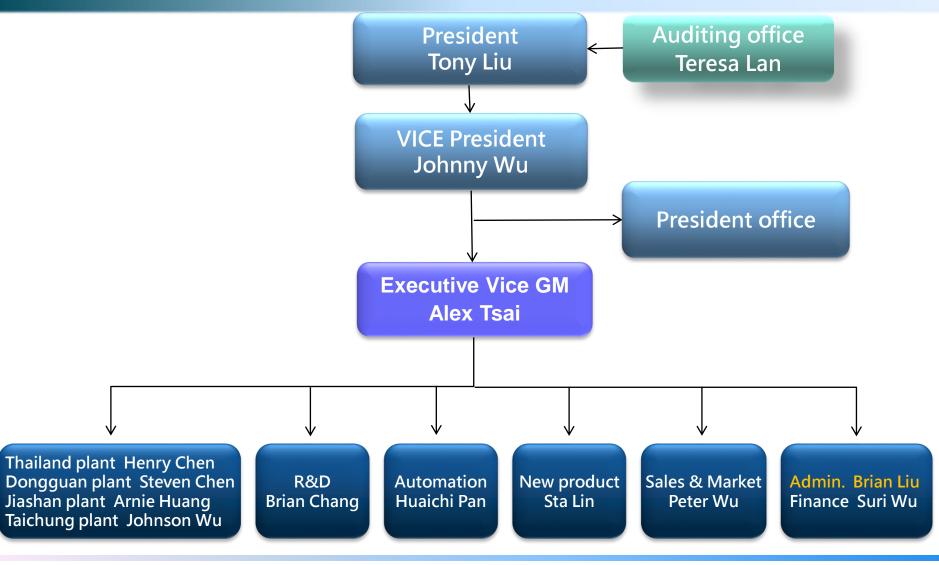
# **Company Profile**

Established time	1987 29 <sup>th</sup> December			
President	Tony Liu			
location	No.59, Jing 2 Rd., Taichung Harbor Export Processing Zone, Wuci Dist., Taichung City 435, Taiwan			
main products	Precision metal parts for automotive, medical, industrial applications, bicyclesEtc.			
Capital	NT\$602,881,000			
Revenue	2018	NT\$ 2,549,783,000 (YOY : 6.71%)		
	2019	NT\$ 2,353,988,000 (YOY : - 7.68%)		
	2020 January to Septemper	NT\$ 1,789,459,000 (YOY : 3.38%)		

## Milestones

1987s	2000s	2010~Now		
1987 Turvo established	2001 QS 9000 Certified	2010 ISO 13485 Certified		
1996 DG plant established	2004 Supplier of BOSCH	2010 Automation Dep. established		
1996 Supplier of SEAGATE	2005 Supplier of NN	<b>2011 IPO in Taiwan (2233.TW)</b>		
1996 Supplier of J&J 1998 Supplier of IBM 1998 ISO 9002 Certified	2006 TS16949 Certified	2011 Jia-Shan plant established		
	2007 ISO14001 Certified	2013 Forging JV in Thailand		
	2007 OHSAS18001 Qualified	2016 Heat treatment in JS plant		
	2008 BOSCH Global Preferred supplier	2017 BW Preferred supplier		
		2017 DENSO comprehensive excellent award		
		2019 UAES Best Technology innovation award		
		2019 Hitachi Best quality award		

# **Organization Chart**



### Locations



# **Production Centers**









**TURVO**<sup>®</sup>

#### Taiwan

- 283 employees, 16,000 m<sup>2</sup>
- In Taichung harbor

#### **Dongguan Plant**

- 651 employees, 30,000 m<sup>2</sup>
- Near Shenzhen, China

#### **Jiashan Plant**

- 628 employees, 27,000 m<sup>2</sup>
- Near Shanghai, China

#### **MSAT**

- 23 employees, 5,248 m<sup>2</sup>
- Near Bangkok, Thailand

### Enterprise branch status

Affiliates	Location		Capital	Mainly Working
Turvo international Co,Lte.	Taichung- Wuqi		NTD 602,881K	R&D (New manufacturing technique) Production base for high-tech, high added value, and low quantity of flexible production. Marketing: Export-oriented
Dongguan Xinfen	Guangdong- Dongguan		HKD 58,385K	R&D (Improving and optimizing original tech) Production base for overseas customer and south China customer Marketing: Mainly – Exportation Secondary – China area

### Enterprise branch status

Affiliates	Location		Capital	Mainly Working
Zhejiang YuZuan	Jiashan, Zhejiang		USD 23,000K	R&D (Improving and optimizing original tech) Production base for middle China customer and overseas customer Marketing: Mainly – China area Secondary –Exportation
MSAT	Thatoom, Srimahaphot, Prachinburi		THB 216,278K	Forging Production base for Southeast Asia customer Marketing: South Asia automobile and scooter

### **Production Equipment**









### **Multi-Spindles CNC machines**





### **Multi-Spindles CNC machines**



### **Degen Honing Machine**





# **Cold Forging**



### Heat Treatment



# **Quality Certificates**





ISO 9001:2015 IATF16949:2016 ISO 13485 ISO 14001 OHSAS 18001



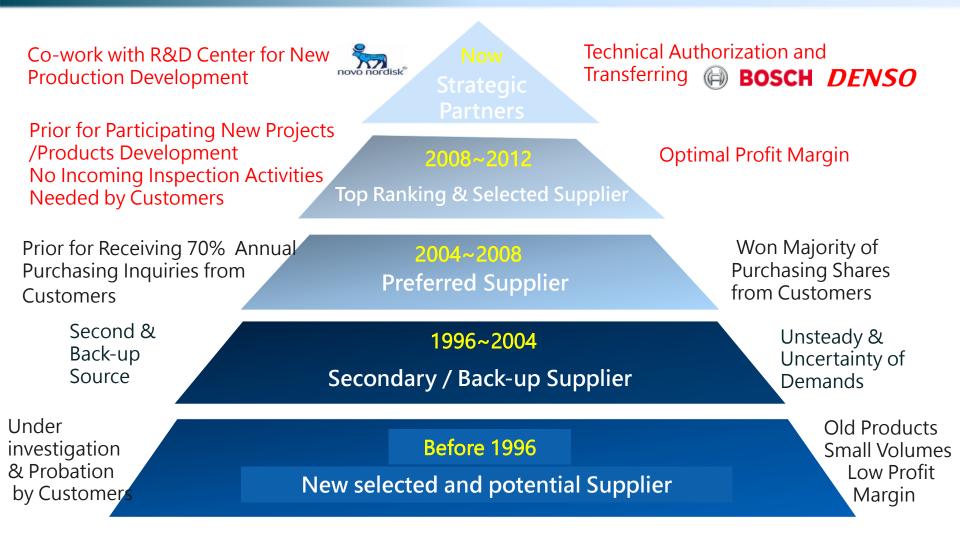
Certified in Feb. 2018 Certified in Feb. 2018 Certified in Sep. 2019 Certified in Sep. 2019 Certified in Sep. 2019







# Roadmap of Turvo' s growth



## Automotive

- Key components to both Gasoline and Diesel injection system
- Key components to High pressure pump
- Transmission Control Unit
- VCT control unit
- ABS brake system



# Medical

- The world's largest diabetes treatment products company.
- Turvo supplies core components for insulin syringe system.
- Process and quality pursue 0 PPM performing rate.

Results: 2018 delivered 9M PCS at 0PPM.



# Industry

• The world's largest industrial automation sensor and control system provider.

•High accuracy and reliability requirements due to extreme working environment.

•2 million times of high temperature and pressure test approval is required.



End-customer Application

# **Bicycle and Others**

- leading brands of shock absorbers/hubs in bicycle products
- Turvo has equipped quick changeover + efficient integration of outsourced process (Anode/heat treatment) to provide superior quality in response to large and frequent pull in/push out situations



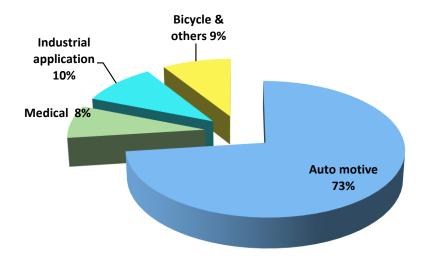
### **High-Value Customers**

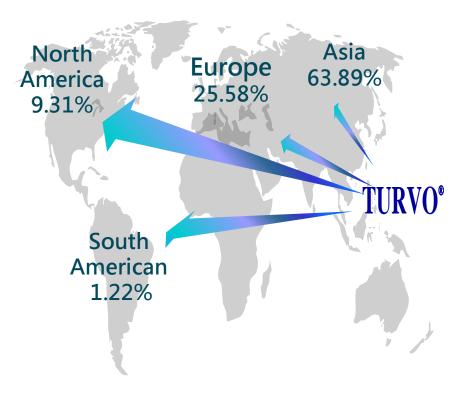


# • Company Profile

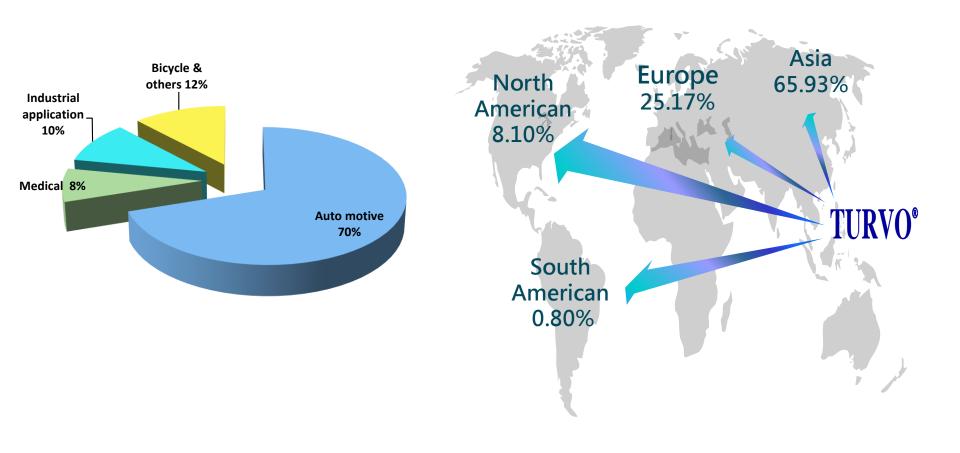
- Current Progress
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# 2019 Business review- region

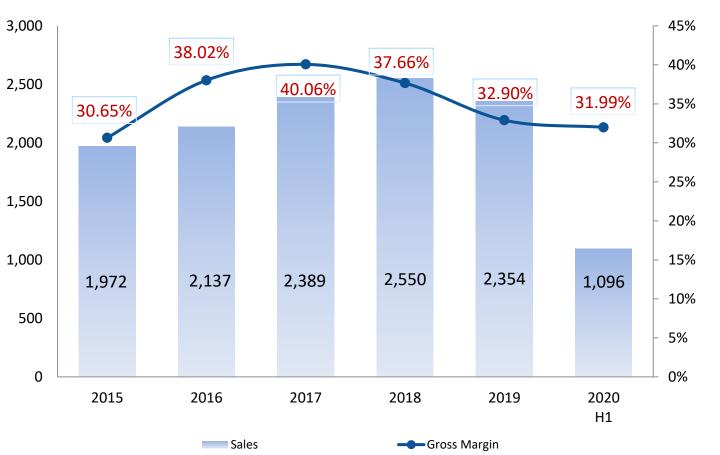




# 2020.H1 Business review- region



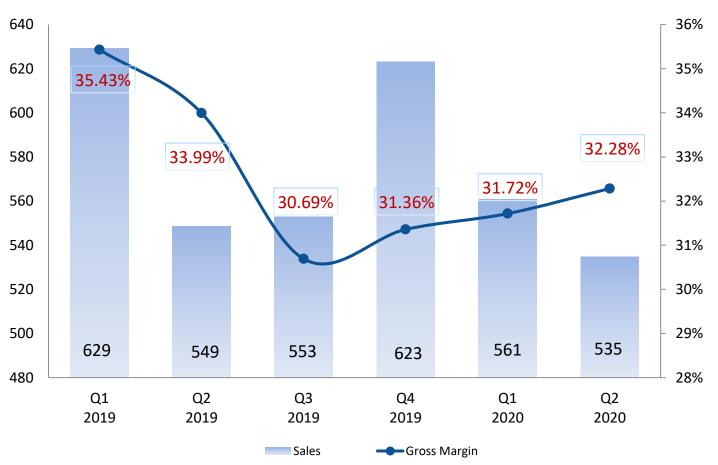
# **Sales Revenue and Gross Margin**



NTD Million; %

# **Sales Revenue and Gross Margin**

NTD Million; %



## **Enterprise Revenue and Profit**

**NTD Million** 

	2019 Q1	2019 Q2	2019 Q3	2019 Q4	2020 Q1	2020 Q2
Revenue	629	549	553	623	561	535
Net Income	103	66	78	58	77	64
EPS	1.71	1.10	1.30	0.96	1.29	1.06

## **Stock dividend**

NTD Million

	2015年	2016年	2017年	2018年	2019年
Net Income	250	342	396	424	305
Equities	2,192	2,278	2,411	2,675	2,671
ROE	11.39%	15.29%	16.90%	16.69%	11.42%
EPS (NTD)	5.07	6.94	8.05	7.05	5.07
Cash dividend (NTD)	3.00	5.00	3.75	4.00	3.30
Stock dividend (NTD)	-	-	2.25	-	-
Total dividend (NTD)	3.00	5.00	6.00	4.00	3.30
Dividend Pay-0ut(%)	59.17%	72.05%	74.53%	56.78%	65.05%

# • Company Profile

- Current Progress
- Future Plan

# Technology Development

### Core Competitiveness

- ✓ Forging
- ✓ Turning, Milling, Drill
- ✓ Heat-treatment
- ✓ Grinding

# **Talent Program**

### Recruitment

- ✓ Industry-University Cooperation
- ✓ Vocational Training Council Selection

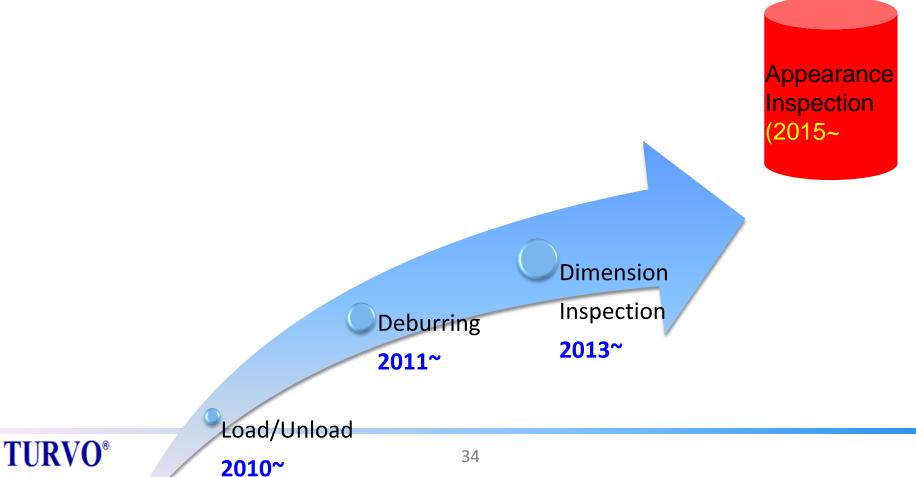
### Training

- Newcomer training, on-the-job training
- Mentorship promotion
- ✓ Overseas factory rotation

### Salary

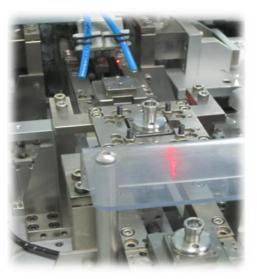
- Examination promotion system
- Long-term bonus contract system

### Increase in automation: reduce dependence on personnel



#### **Turvo designed auto de-burring machine**







#### **Turvo designed auto dimension inspection machine**





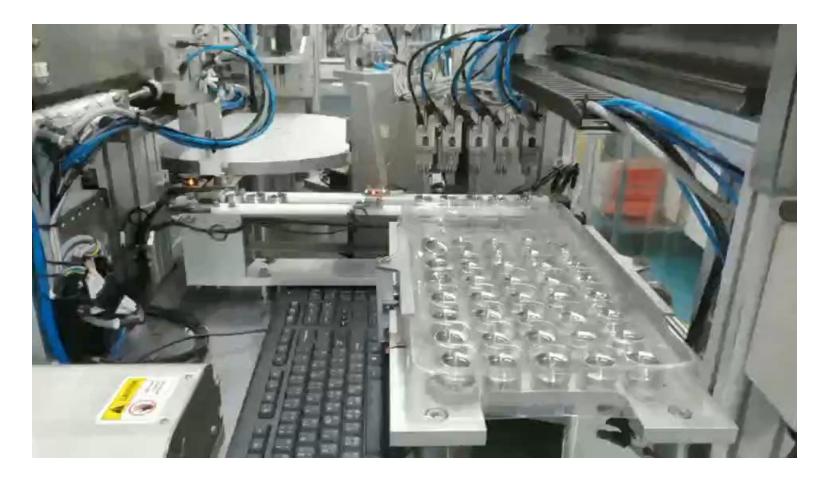
Advantage: reducing operator requirement, eliminating human misjudgment, and achieve 0% defect.

Dimension inspection + CCD appearance inspection machine

Automatic Loading  $\rightarrow$  Key Dimension Inspection  $\rightarrow$ CCD Appearance Inspection  $\rightarrow$  Auto Nondefective Unloading



#### **Dimension inspection + CCD appearance inspection machine**



## **Business Development**

- Deep cultivation of automotive target customers
  - -BOSCH continues to cultivate
  - ◆ Gasoline system: direct injection (GDI) products
  - Diesel system: injector body
  - Brake system: mass production of ABS products
  - -American customer BorgWarner
  - VVT system: mass production of new products continues to expand
  - -Mass production of Denso's new products
  - Mass production of engine system products

-United Automotive Electronics (China's gasoline passenger car market expansion)

Mass production of dual clutch (DCT) products
URVO<sup>®</sup>

## **Business Development**

#### •New car customers join

- Schaeffler customer: mass production of gearbox products
- Aisin Hongda customers: the addition of gearbox products

#### Medical expansion

 New customer Smiths Medical: Successfully introduced medical syringe pumps and infusion system products

#### • Expansion of new areas of bicycle

Machining products for bicycle forgings: mass production

# **Future Expansion**



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