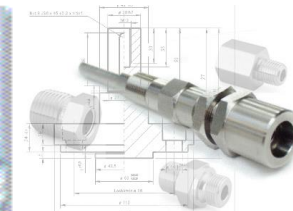
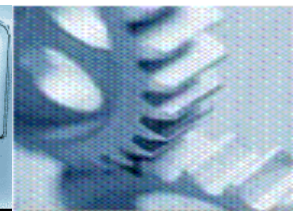
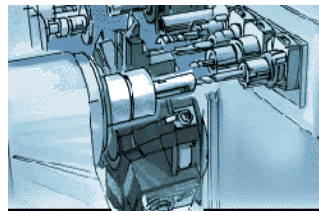
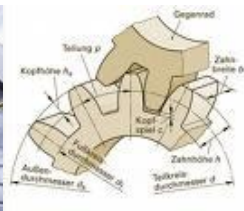


Company Profile



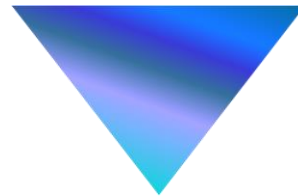
The Company

Products & Apps

Core Competencies

Quality Control

Automation



Capacity & Capability

The Company



Our Vision

**To be the most competitive
modular solution provider in
the field of CNC turning**

- Founded : 1987
- IPO : 2011 (TWSE No. 2233)
- Production Centers : 4
- Employees : 1,598 (2019/04)
- Capital : USD 20M
- Y2018 Revenue : USD 83.5M
- President : Mr. Tony Liu

Our Customers

TURVO®



BOSCH *DENSO*

DELPHI

UAES 联合汽车电子有限公司

SANOH

 **sumida**

BorgWarner



HILITE
INTERNATIONAL

Amphenol
Industrial

 **CooperStandard**



Mubea

HITACHI
Inspire the Next



Amphenol
Aerospace



SITGroup

SANDVIK



ifm electronic




novo nordisk®

 **SANDEN**

DT SWISS

smiths medical **SCHAEFFLER**



Honors for Customer Satisfaction

TURVO®



- Global Supplier Award 2009/2010
- Global Supplier Award 2013/2014
- Preferred Supplier of Bosch 2010
- Preferred Supplier of Bosch 2014
- Preferred Supplier of Bosch 2015
- Preferred Supplier of Bosch 2016



Honors for Customer Satisfaction

TURVO®



- Bosch Asia Pacific Supplier Award 2010
- Bosch Asia Pacific Supplier Award 2010/2011
- The Winner of the best idea 2010
- Supplier Learning Group 2009
- Lean Supply Chain 2012/2013
- Lean Production System 2013/2014
- Continuous Improvement 2014
- TSC-AP 14Q Award 2017



Honors for Customer Satisfaction

TURVO®

BorgWarner

- Excellent Supplier of 2012
- Excellent Supplier Award 2014
- Best Collaboration Supplier 2015
- Best Quality Supplier 2016
- Excellent Supplier 2017



DENSO

- Excellent Award



- The Best Idea 2010



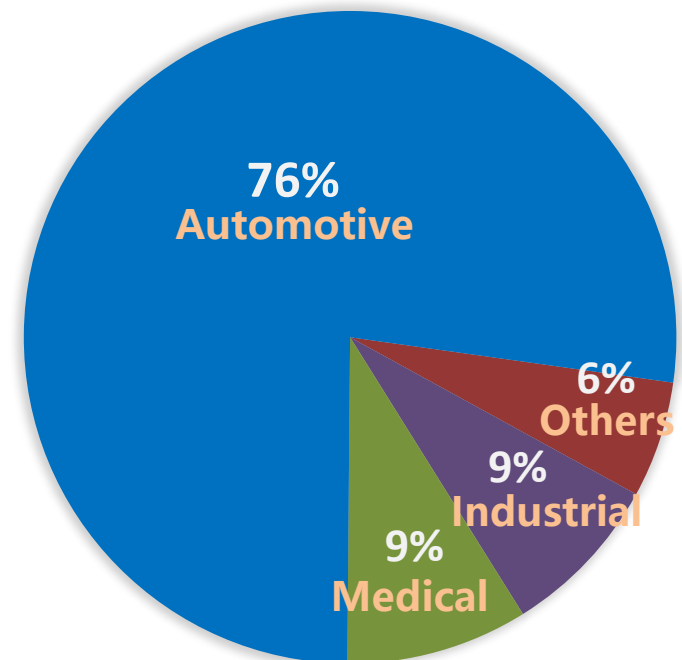
Products & Apps



Product Field

TURVO®

Auto- motive	Engine Injector High Pressure Pump VCT Transmission
Medical	Insulin Re-useable Device
Industrial	Sensor Hydraulic Pressure Regulator
Others	Front Fork Hub Seat Post



Automotive Parts

TURVO®

- Engine Injector
- High Pressure Pump
- Variable Cam Timing (VCT)
- Transmission Control Unit (TC)
- Anti-lock Braking System (ABS)



End-customer Application



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

Results: 2017 delivered 9M PCS at 0PPM



筆式胰島素注射器



End-customer Application



- High accuracy and reliability requirements due to extreme working environment.
- 2 million times of high temperature and pressure test approval is required.



- 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



End-customer Application

Core Competencies

Capacity and Capability



Locations

TURVO®



Major Equipment

TURVO®

- CNC Turning/Milling Machine : 516
- CNC Grinding Machine : 29
- Multi-Spindle CNC : 9
- Mikron Multistar Workstation : 1
- Cleaning Line : 12



Multi-Spindles CNC (Taiwan)

TURVO®



Multi-Spindles CNC (China)

TURVO®



Heat treatment facilities

TURVO®



Tool Shop

TURVO®



Core Competencies

Automation
(Auto Inspection/Information Technology)

Process Improvement

TURVO®

Before
One vs. one



After
One vs. many



Auto Inspection 1.0

TURVO®



Auto Inspection 2.0

TURVO®

- Automatic load/unload
- Dimension check
- Appearance check using CCD camera



Real-time production monitoring system

TURVO®



Real status on site



Handheld Device



Personal Computer

Core Competencies

Quality Control

Quality Certificates

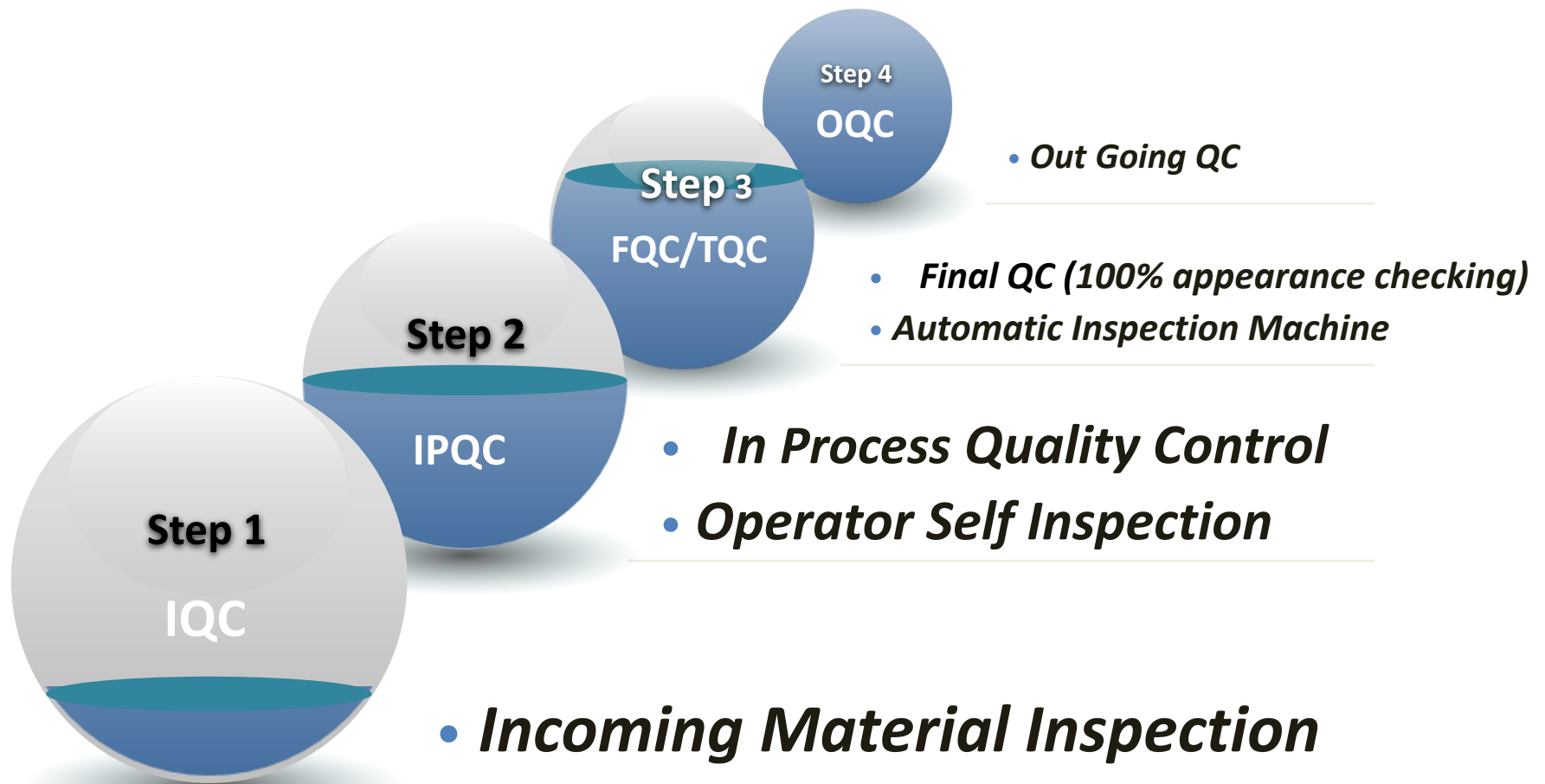
TURVO®



ISO 9001:2015
ISO/IATF16949
ISO 14001:2015
ISO 45001:2018
ISO 13485:2016

Certificate No.FM 696707
Certificate No.696695
Certificate No.EMS 607965
Certificate No.OHS 522165
Certificate No.MD 565462





Inspection Equipment

TURVO®

Equipment	TW	DG	JS
Auto inspector	7	25	23
Contour tester	3	8	4
Roundness tester	2	1	4
CMM	2	2	2
Hardness tester	1	3	5
Roughness tester	2	3	3
Projector + Video Measurement system	5	12	14
Laser scan micrometer	1	2	5
Cleanliness inspector+ Metallographic microscope	1	1	2
Eddy Current Tester	1	1	3
Spectrometer	0	1	1
Magnetic tester	0	0	1



Inspection equipment - CMM

TURVO®



Carl Zeiss CMM

Wenzel CMM



Inspection equipment- Contour tester

TURVO®



Accretech contour tester



Mahr contour tester



Materials Laboratory

TURVO®



Future Expansion

TURVO®



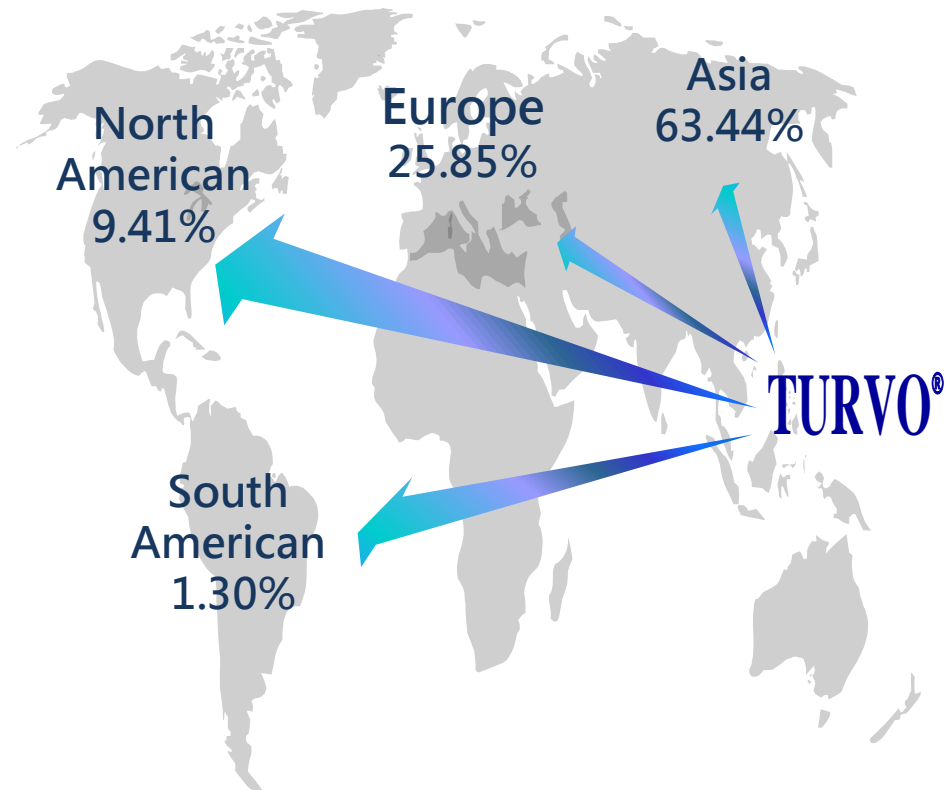
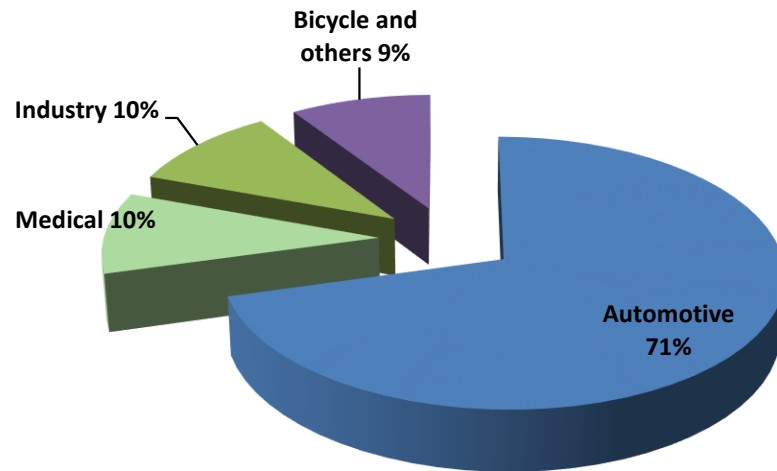
Existing Area 4,000m²

New Plant 12,000m² (Floor Space=14,000 m²)

Stock Dividend

2019.Q1~Q3 Business review- region

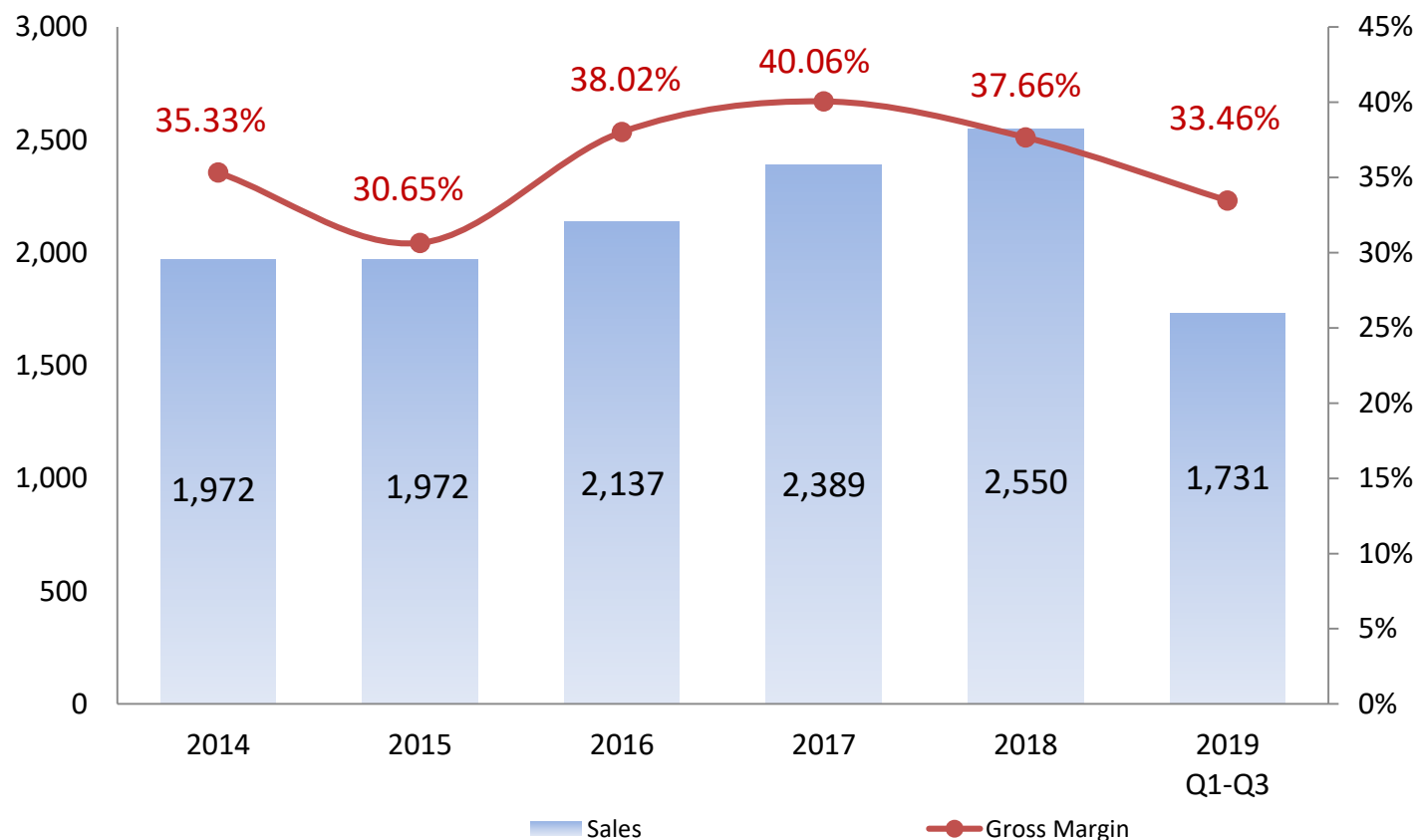
TURVO®



Revenue and Gross Margin

TURVO®

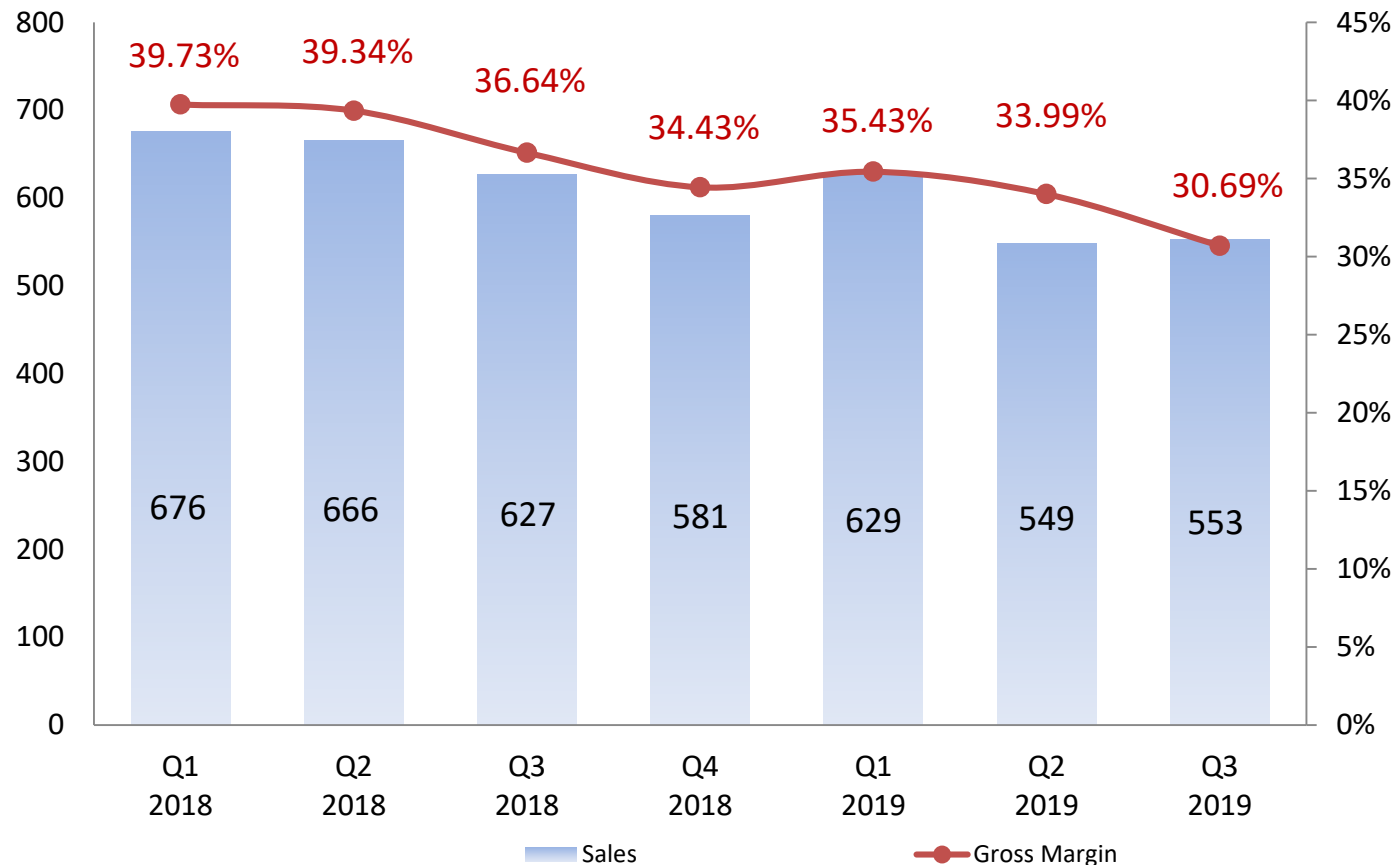
NTD Million; %



Enterprise Revenue and Gross Margin

TURVO®

NTD Million; %



Enterprise Revenue and Profit

TURVO®

NTD Million

	2018 Q1	2018 Q2	2018 Q3	2018 Q4	2019 Q1	2019 Q2	2019 Q3
Revenue	676	666	627	581	629	549	553
Net Income	76	155	102	91	103	66	79
EPS	1.26	2.58	1.70	1.51	1.71	1.10	1.30

Stock dividend

TURVO®

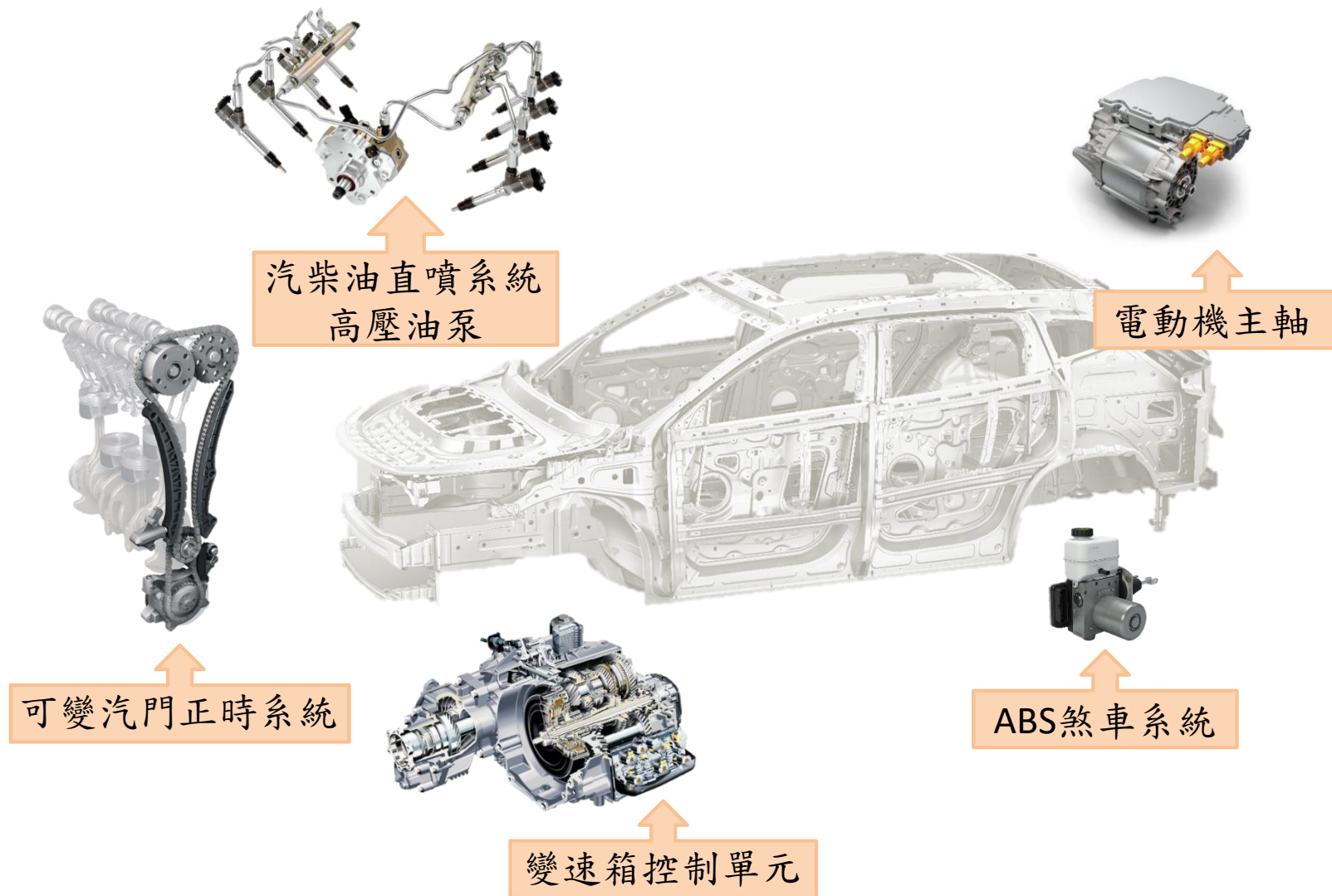
NTD Million

	2014年	2015年	2016年	2017年	2018年
Net Income	276	250	342	396	424
Shareholders Equity	2,193	2,192	2,278	2,411	2,675
ROE	15.80%	11.39%	15.29%	16.90%	16.69%
EPS (NTD)	6.30	5.07	6.94	8.05	7.05
Cash dividend (NTD)	4.75	3.00	5.00	3.75	4.00
Stock dividend (NTD)	-	-	-	2.25	-
Total dividend (NTD)	4.75	3.00	5.00	6.00	4.00
Dividend Payout Ratio(%)	75.40%	59.17%	72.05%	74.53%	56.78%

Business Outlook

Automotive Parts

TURVO®



- Automotive produce line – Europe customer
 - Gasoline/Diesel Engine: Key components / Injector Body
 - Transmission control system
 - ABS
- Increasing exposure of American / Japanese / China local customer
 - BorgWarner - VTC
 - Denso – Hybrid
 - UAES - Transmission control system
- Continuing to pursue Southeast Asian market

- New Medical customer – Smiths Medical
- E-Axle is under development and sampling phase

obrigada
 teşekkür ederim
 Grazie
 감사합니다
 Terima kasih
 Gracias
 TAKK
 TACK
 TODA

Kiitos
THANK
 ~ 謝謝 ~
 DANKE
 MERCI

děkuji
 TERIMA KASIH
 Aliguan
 Köszönöm
 あい かつ とう ざ い ます
 Dziękuję
 Maha lo
 Děkuju
 aitäh

YOU