



# Brief Introduction of Huasder



Huasder Electronic Technology (Kunshan) Co., Ltd.

# HUASDER OVERVIEW



Registered Fund  
**16 Million USD**

Established Year  
April, **2018**



Building Area : **50,000m<sup>2</sup>**

Land Area: **20,000m**

Employees: **75** (RD 10, QC 8)

Location: Kunshan, Jiangsu Province Close to **Shanghai port, Ningbo port**



Turnover 2023: **7million USD**

Target Turnover **2024**: **10 million USD**

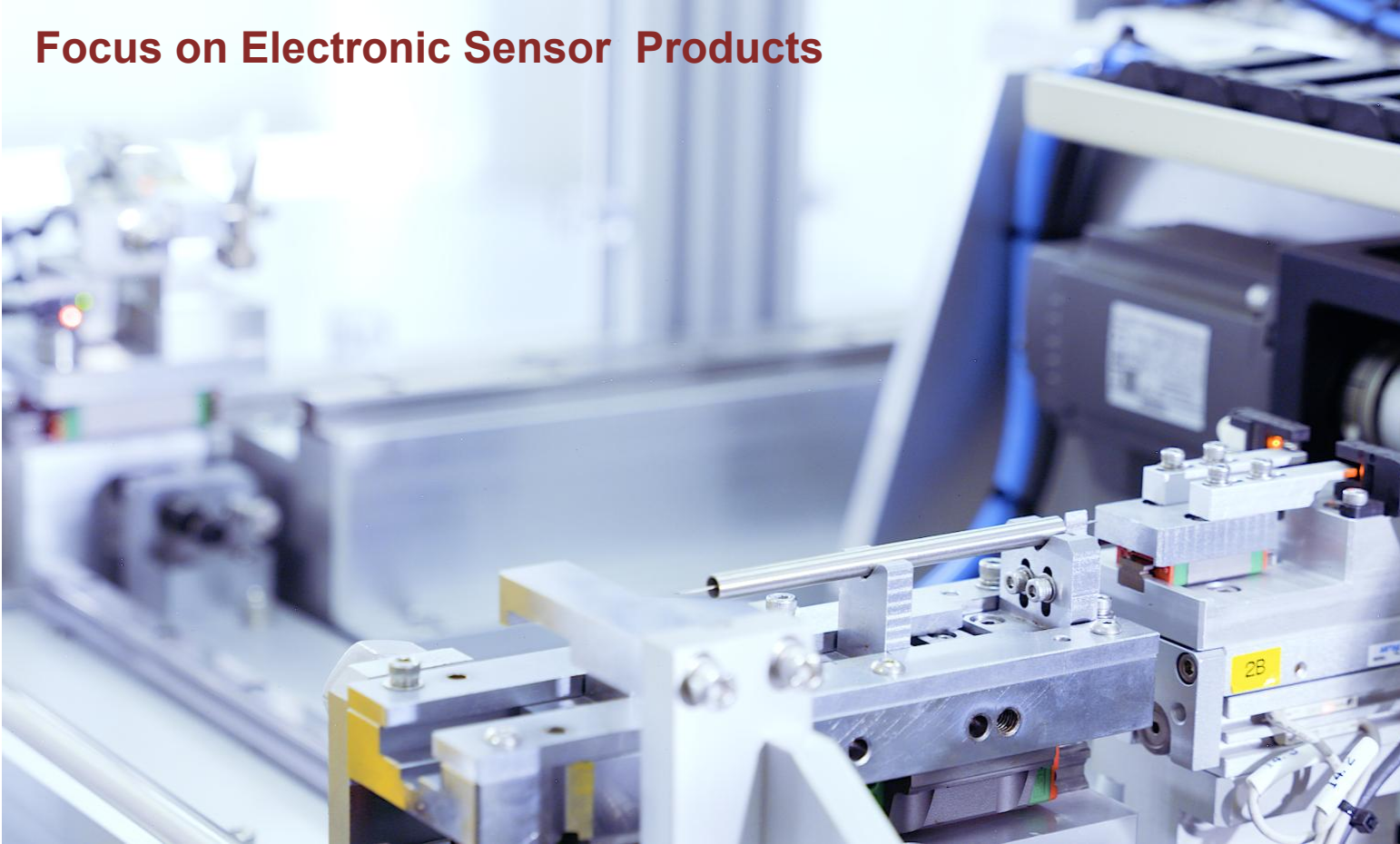


Main Products: **Sensors (EGTS, DPS, NOX )**

Quality system.: **IATF16949**



### Focus on Electronic Sensor Products



- Environment Protection
- New Energy
- Intelligence
- High Quality Level as OEM-TIER I
- Fast & Flexible Customer Support
- Competitive Price

# Developing History

2018

Registration

Product : Exhaust  
temp. sensor

Differential  
depressure sensor

2019

01 Cooperated with  
Aecs-AutoAecs  
supplier to FAW  
/Dongfeng Auto...



2020



Cooperated with  
Yuchai Diesel

2021



- 01 Cooperated with JAC
- 02 Passed BYD Vehicle test
- 03 Cooperated with Quanchai

2022



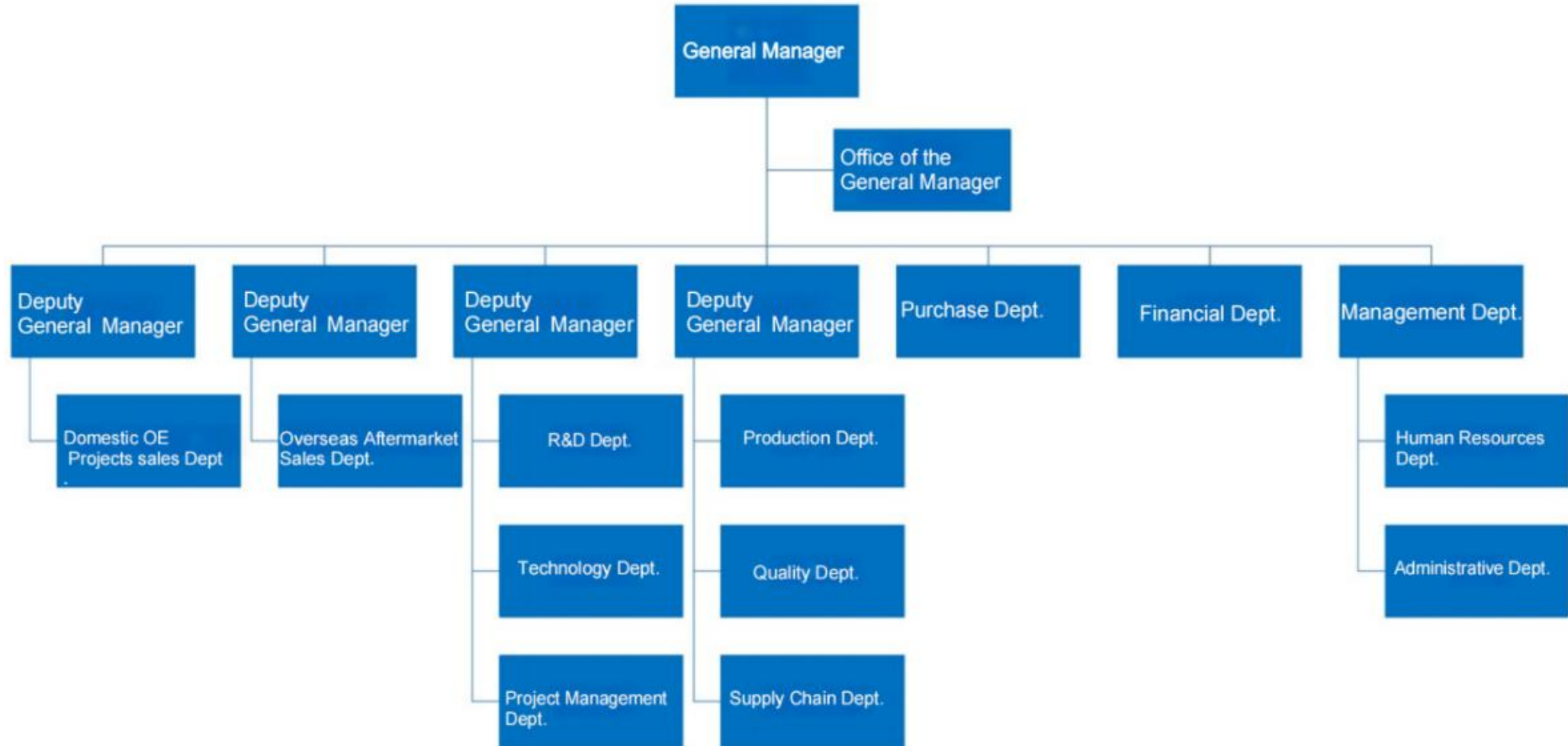
- 01 Cooperated with Cummins
- 02 Cooperated with FOTON
- 03 Provided Resolver PPAP

2023



Turnsor company established

# Company Structure





# Certificates & Awards



IATF16949 by TUV



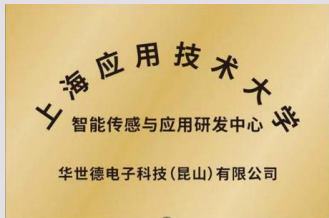
ISO14001



ISO45001



25+ Patents



# MAIN PRODUCTS



# Main Products



## Engine/Drive Motor

- 1. EGR DPS
- 2. TMAP
- 3. Oil/fuel/hydrogen DPS
- 4. Resolver



## SCR Selective Catalytic Reduction

- 1. EGT Sensors
- 2. GPF&DPF DPS sensors
- 3. Nox Sensors



## Main Products



### Exhaust Gas Temperature Sensor(PT 200)

Temperature sensor is made of platinum heat sensitive resistor (PT200), resistance increases with the increase of temperature.



### Exhaust Gas Temperature Sensor(Thermal Couple)

The thermocouple temperature probe is used to collect temperature signals, and then the internal data processing module converts the collected temperature analog signals into digital signals, which are transmitted to the vehicle signals through CAN.



### Differential Pressure Sensor

Resistance effect: The electric bridge is composed made by MEMS technology and the measured pressure is converted into current signal (mA).

## Main Products



### Resolver-OE

Resolver sensor is mainly used for new energy vehicles with driving motor control, which is the core sensor of electric drive system.



### Temperature and Manifold Absolute Pressure

The intake temperature pressure sensor measures the intake temperature and pressure of the engine and feeds back to the ECU for precise control of the intake volume of the engine

# Main Products

Products Apply Position



EGTS



DPS



TMAP







### Nox Sensor

NOx sensors are used to measure the concentration of NO and NO2 in vehicle exhaust, which is controlled by the closed loop of the ECU to meet the requirements of emission regulations.



### Motor Position Sensor -Electrical car

The physical principle of eddy current is used to detect the position of the moving metal target wheel above the coil. When the position of the metal target wheel changes, the voltage generated in the two receiving coils changes accordingly, and the position signal of the target on the coil can be obtained.



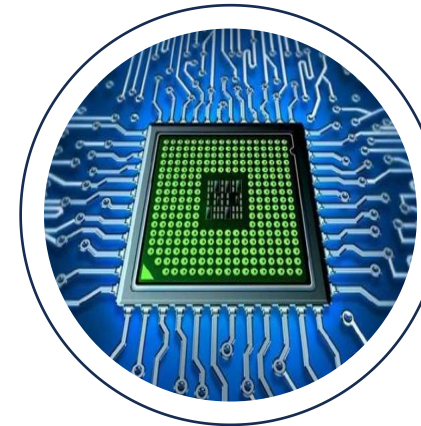
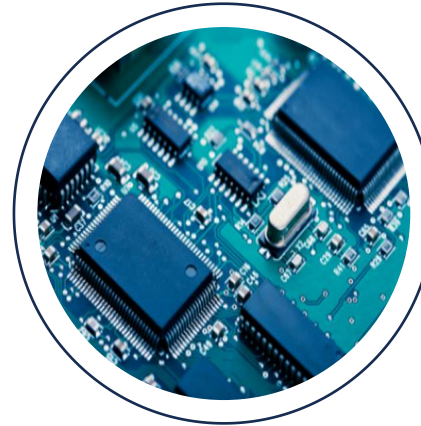
### Hydrogen Pressure Sensor

The principle is that the corresponding capacitor plate is printed on the ceramic substrate and the diaphragm, the capacitance change is processed to convert the pressure signal into a linear analog voltage signal or a digital output.

R&D CAPABILITY

## Sensor Element Research

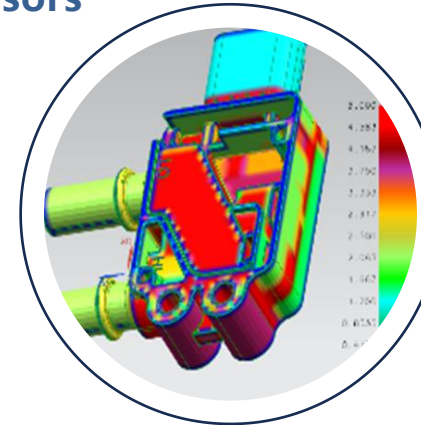
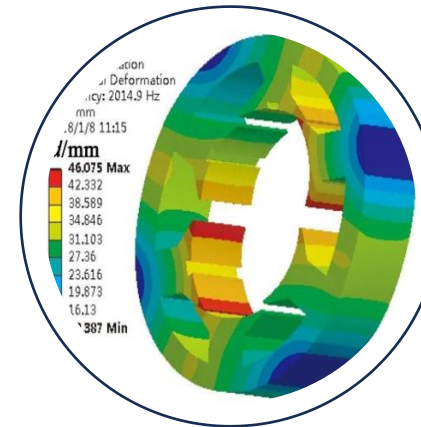
- Hall effect, piezoresistive effect, fluxgate and other sensing principle research and application.
- R&D&APP of sensors such as pressure, temperature and magnetic field



## Sensors

## Calibration and test

- Magnetic circuit design and 3 D model
- Circuit design and test
- Software development



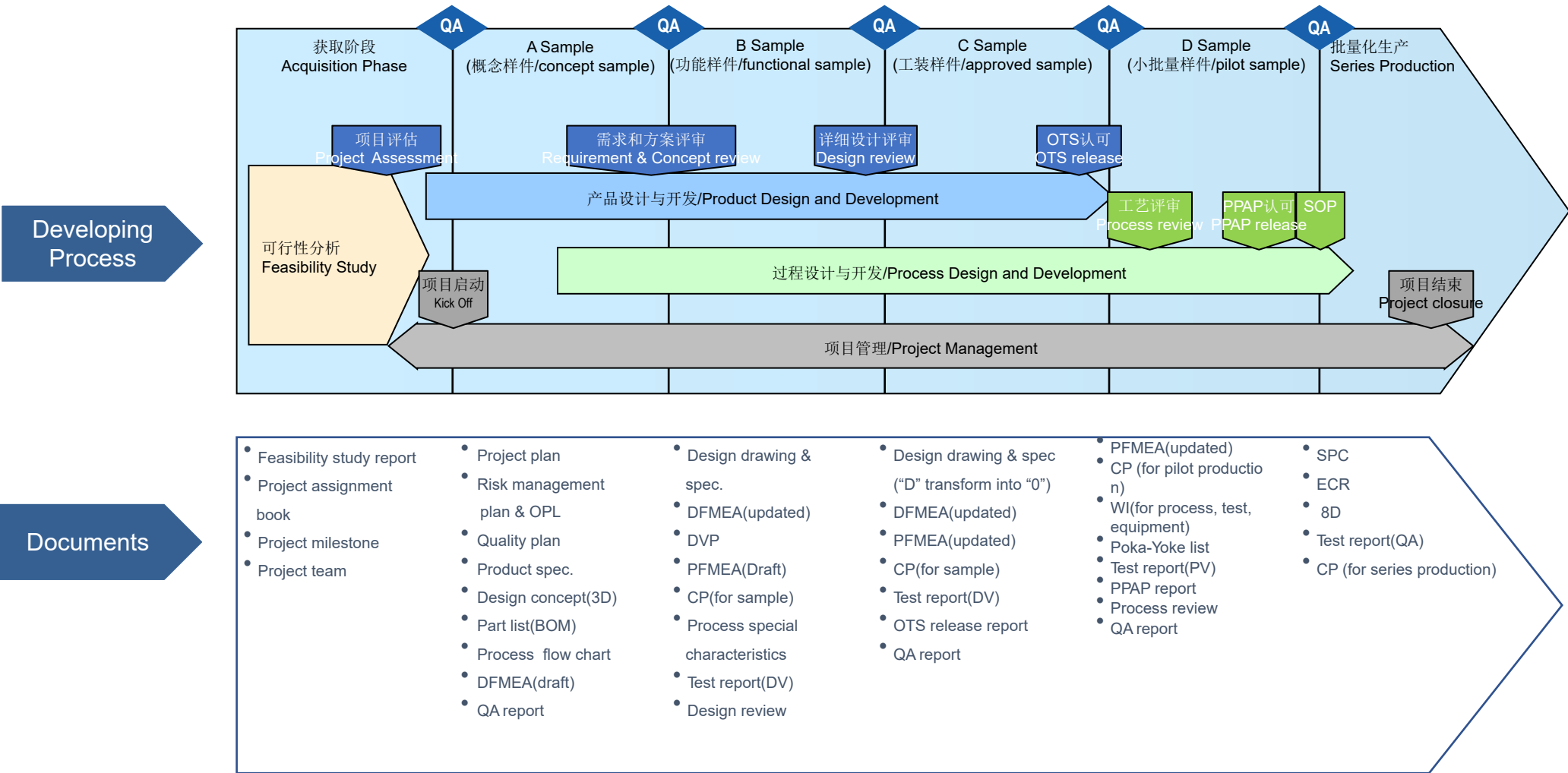
## Calibration and test

- Test and calibration method
- EMC testing and analysis
- Environmental testing
- The dynamic test

## Structure design and 3D Model

- 3D modeling technology
- Light weight design
- Reliability design

R&D Capability- Developing(APQP)








# Test Ability



Product testing	Projector	Microscope	Automatic tension machine	Calibration furnace
Dimensional measurement				
Appearance analysis				
Wire harness terminal tension				
Temperature measurement analysis				
	Profile analyzer	Pressure resistance tester	Pressure controller	X-ray
Profile analysis				
Insulation withstand voltage test				
Pressure measurement				
Perspective analysis				

# Test Ability



Experimental verification	Temperature shock tester	Temperature shock chamber	High-temperature cabinet	Temperature and humidity test chamber
Temperature shock (1200°C)				
Temperature shock (150°C)				
Aging storage				
Temperature and humidity test				
	Response time test bench	Nox sensor calibration test bench	Resolver tester	Salt spray test chamber
Temperature Response time test				
Nox sensor calibration test				
Resolver high speed test				
Salt spray test				



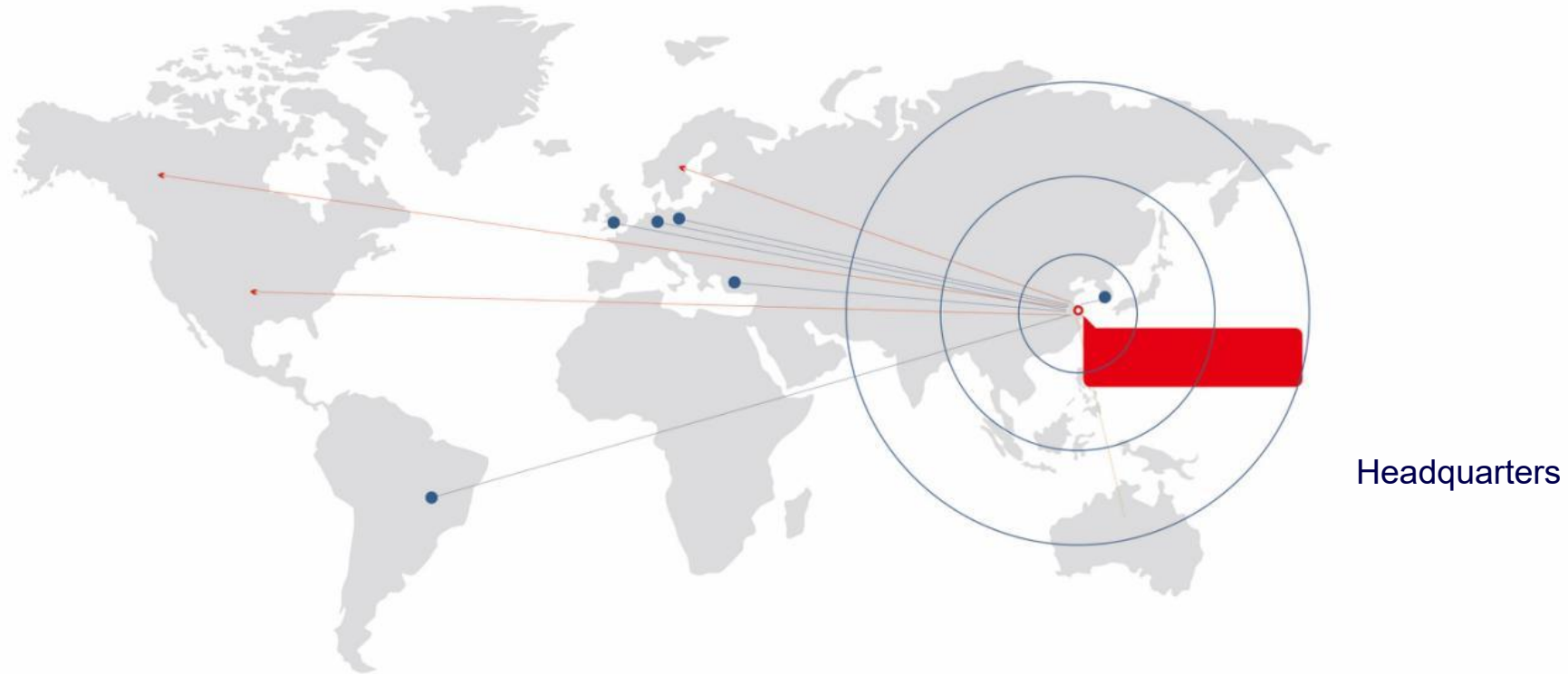
## TS16949 by TUV

- 1 Customer PPM  $\leq 50$
- 2 Customer Satisfaction  $\geq 90$
- 3 Customer Complaint Processing Completion rate 100%
- 4 Timely calibration rate of measuring instruments 100%
- 5 Completion rate of audit plan 100%
- 6 On Time Delivery 100%

MAIN MARKET



## Sales Network



Huasder sensors have been delivered to different countries including China, Germany, UK, Turkey, Poland, Brazil, Korea, etc.

# Main Customers



OE Tier 1

  
江淮汽车

  
Ankang  
安徽康明斯

  
FOTON

  
玉柴机器

  
ACTOBLUE  
安徽艾可蓝环保股份有限公司

  
AECS  
奥易克斯

  
QUANCHAI  
全柴

  
SHUANGLIN  
GROUP

  
UAES

  
云内动力  
YUNNEI POWER

  
东风柳州汽车有限公司  
DONGFENG LIUZHOU MOTOR CO., LTD.

  
一汽解放

  
北京汽车  
BAIC MOTOR

OE Tier 2

## Customers in Developing



# FACTORY OVERVIEW



## Factory Overview



- Land Area: 20,000m
- Building Area: 50,000m<sup>2</sup>
- EGTS Workshop
- DPS Workshop
- TMAP Workshop
- Resolver Workshop



### Production Capacity:

Year 2023: 1.5 million PCS

Year 2024: 2 million PCS





### Production Capacity:

Year 2023 : 0.5 Million PCS

Year 2024 : 2 Million PCS

## Production Capacity:

Year 2023 : 0.5 Million PCS

Year 2024 : 2 Million PCS





Production Capacity:

Year 2024 : 1 Million PCS



TEAM BUILDING

## Team Building



Young and Energetic Team





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# THANK YOU