# Shenzhen TAT Electronics Co., Ltd. 2026

Dedicated to global electro-acoustic technology for 20 years.

# About TAT

Shenzhen TAT Electronics Co., Ltd., with 20 years of experience in the electroacoustic industry, is a professional manufacturer of electroacoustic components, integrating R&D, production and sales.

The company specialises in the field of acoustics, focusing on core electroacoustic components such as buzzers, microphones and loudspeakers. With mature production processes and stringent quality control, our products feature a wide range of styles and consistent, reliable quality. They are exported to global markets including Europe, the Americas, Japan, South Korea and Southeast Asia, and are deeply trusted by customers both at home and abroad.

Guided by the principles of professional manufacturing and quality first, TAT Electronics continues to provide customers with cost-effective electroacoustic solutions, striving to become a long-term, trusted partner in the electroacoustic industry.




Year established

2006

Registered capital

5 Million RMB

Number of staff

About 300 People

# Company History

**2006** — TAT was established, and the Jiangsu Sanhekou factory was set up in the same year

**2010** — Establishment of the Suzhou Zhenglu Factory

**2011** — Certified to ISO 9001 and TS 16949

**2013** — Establishing an injection moulding workshop

**2016** — New factory opens

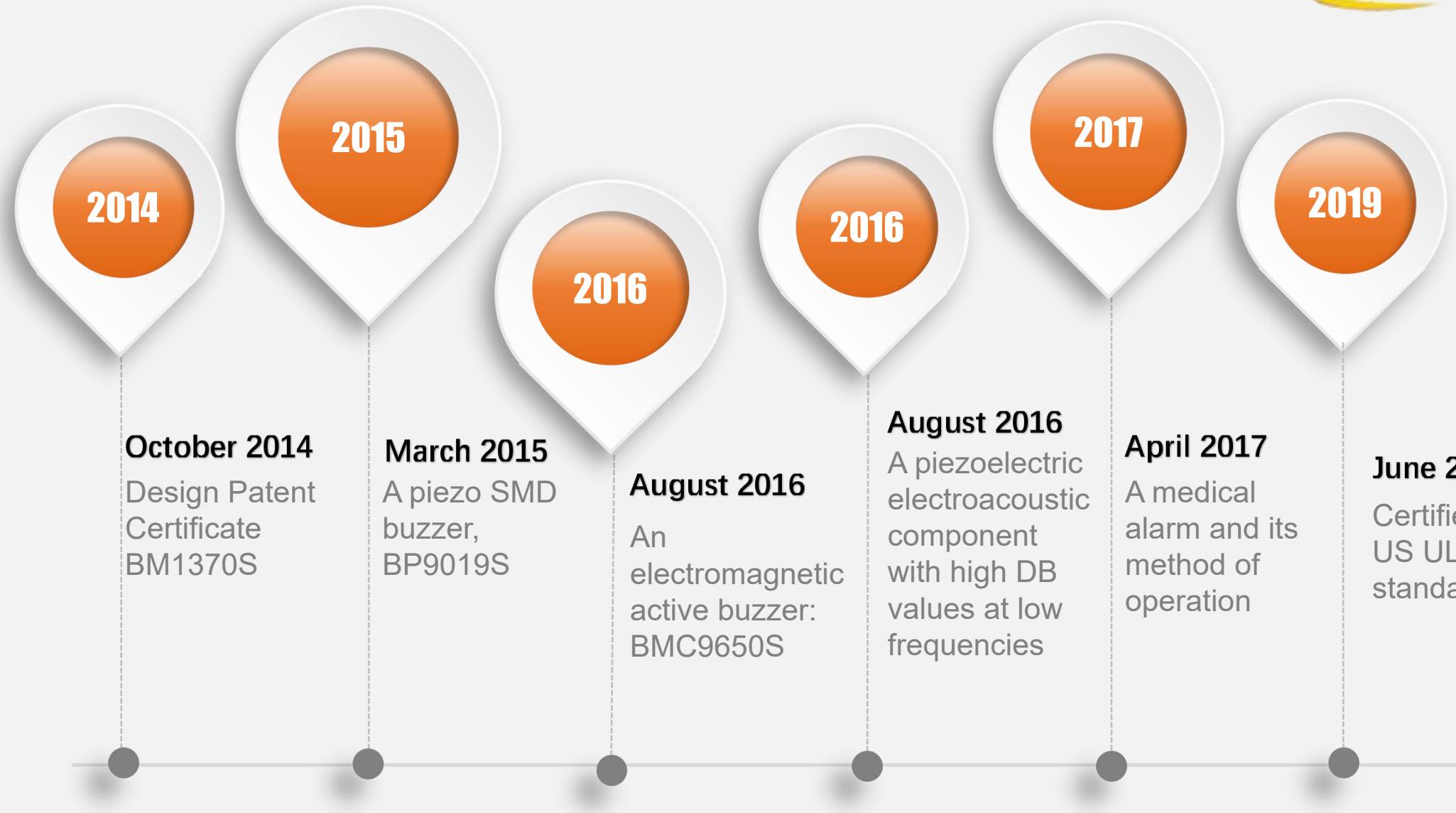
**2018** — ISO4000 certified

**2021** — Establishment of a branch factory in Suzhou, Anhui

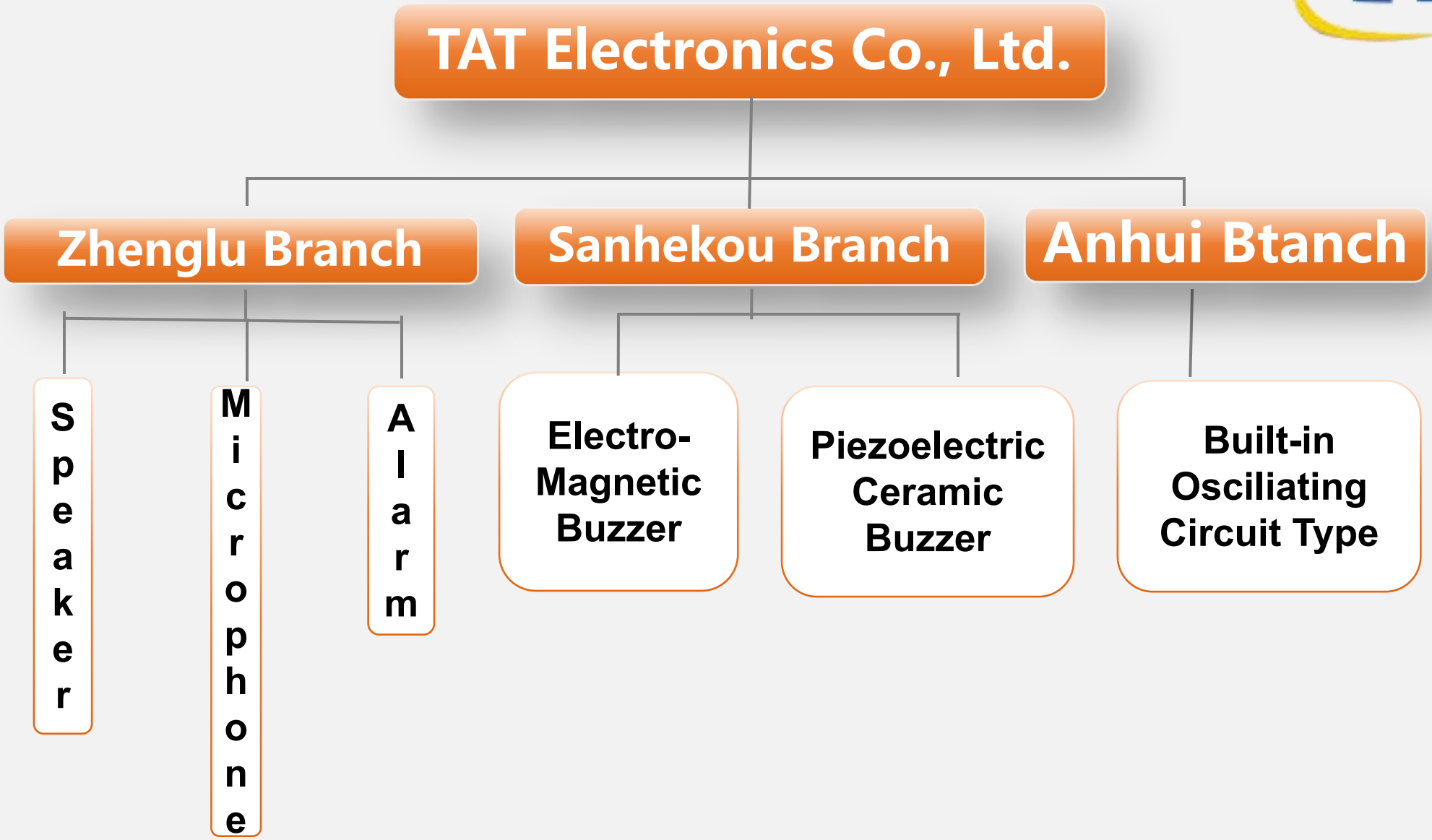
**2022** — Development of atomiser plates and sensors

**2023** — Establishment of the Independent Piezoelectric Ceramics Workshop and Metalworking Workshop

# Patent Certificate



# Company Structure



# Photos of the workshop 1













# Photos of the workshop 2



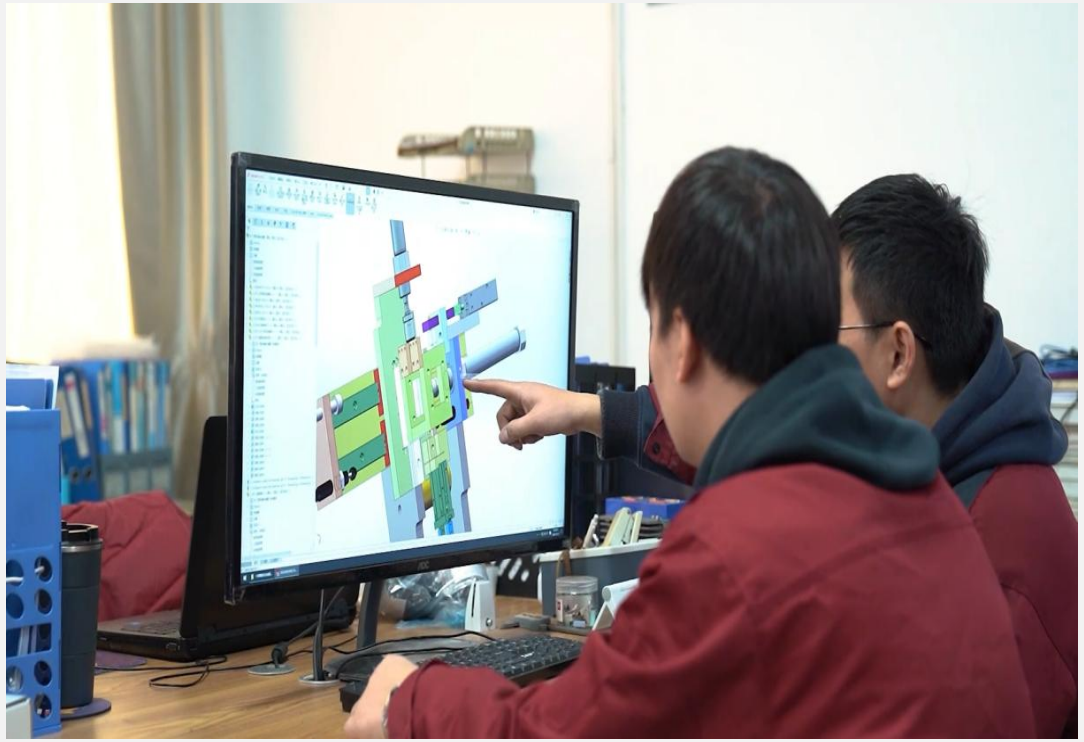






# Automation Centre

- We possess the capability to design, assemble and commission smart production lines, helping companies transition from manual to fully automated production, ensuring products are perfectly tailored to customer requirements and enhancing the value for money of their products.





# Mould Centre

- Moulds form the cornerstone of our products; the company operates a dedicated mould design and manufacturing centre, enabling us to undertake customised projects for our customers.





# Mould Centre

- By utilising fully automated equipment for plastic shell processing, we have achieved a self-sufficiency rate of 99% and ensured a higher level of quality control.

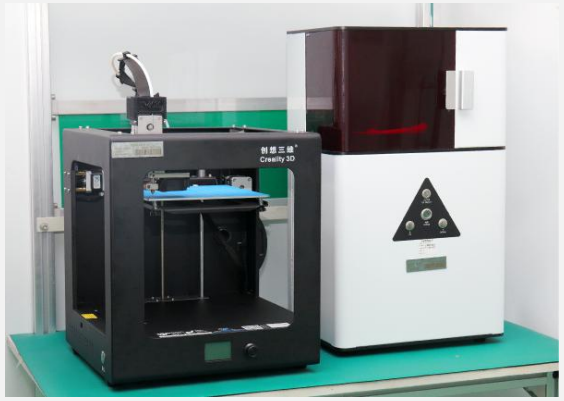




# Product Development

## Establishing an Acoustics Laboratory





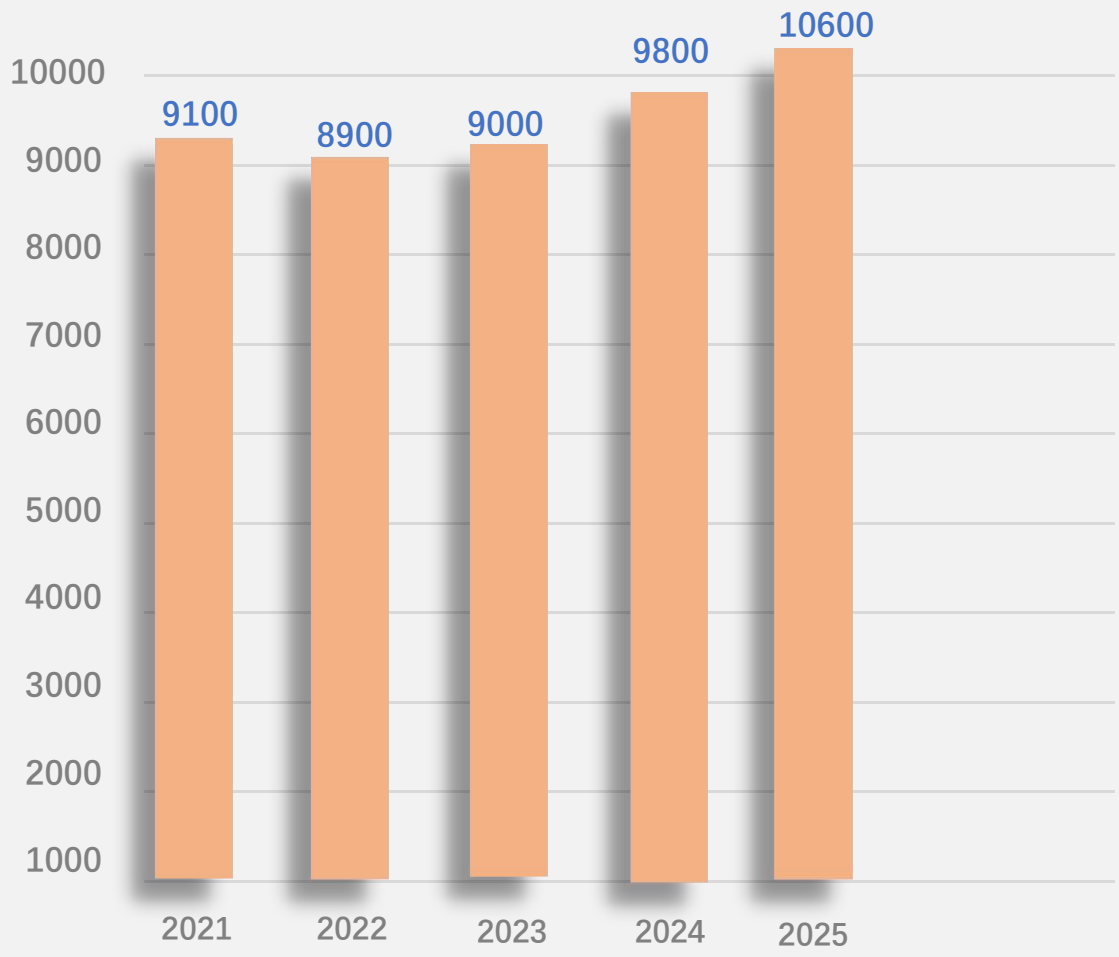


- IP waterproof testing
- Thermal Shock Chamber
- KLIPPEL Test
- Speaker Durability Test
- High-Low Temperature Test
- Buzzer & Speaker Air Tightness Test
- Oxygen Analyzer

- 3D Printing Machine
- Salt Fog Tester
- RoHS Analyzer
- Full Anechoic Chamber
- Keyence 2.5D Vision Measuring Machine
- Particle Size Analyzer

# The Result

Unit: Ten thousand Yuan

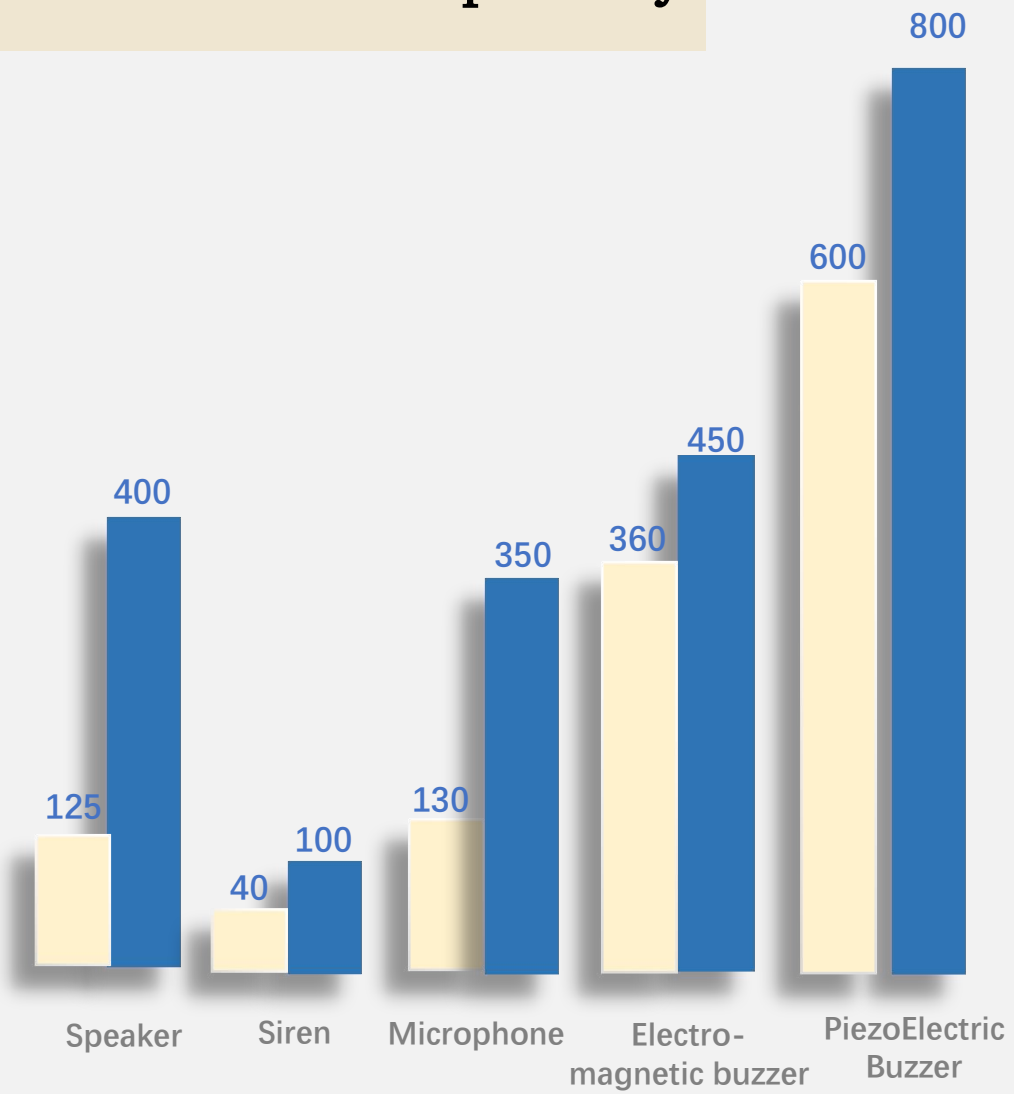



## Summary of Operating Performance

- 2021 Although the market and the industry as a whole are experiencing a downturn, our company's sales have continued to rise steadily. Apart from the rise in raw material prices, the smart home, healthcare and automotive sectors have performed well.
- 2022 Due to the wider economic climate, sales have fallen slightly.
- 2023 Seeking growth whilst maintaining stability in the wake of the pandemic.
- 2024 Sales of loudspeakers have increased, leading to a rise in turnover.
- 2025 It continues to maintain its growth momentum.

# Production Capacity

Unit: Ten thousand pcs

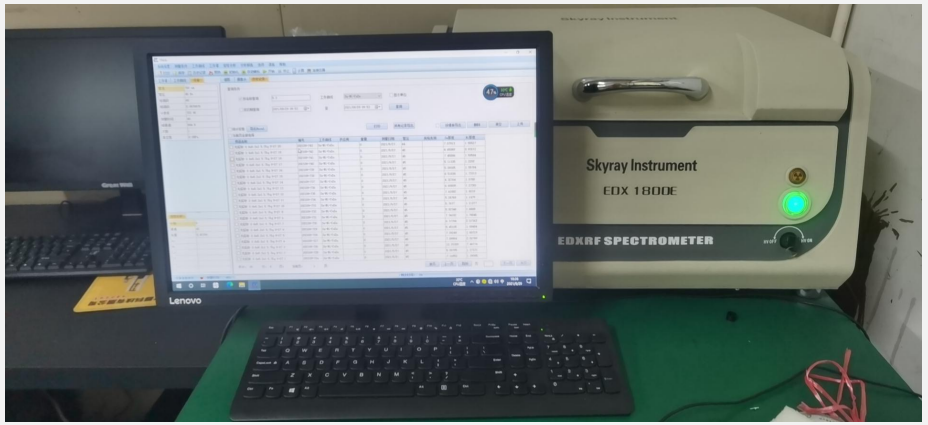



产能介绍

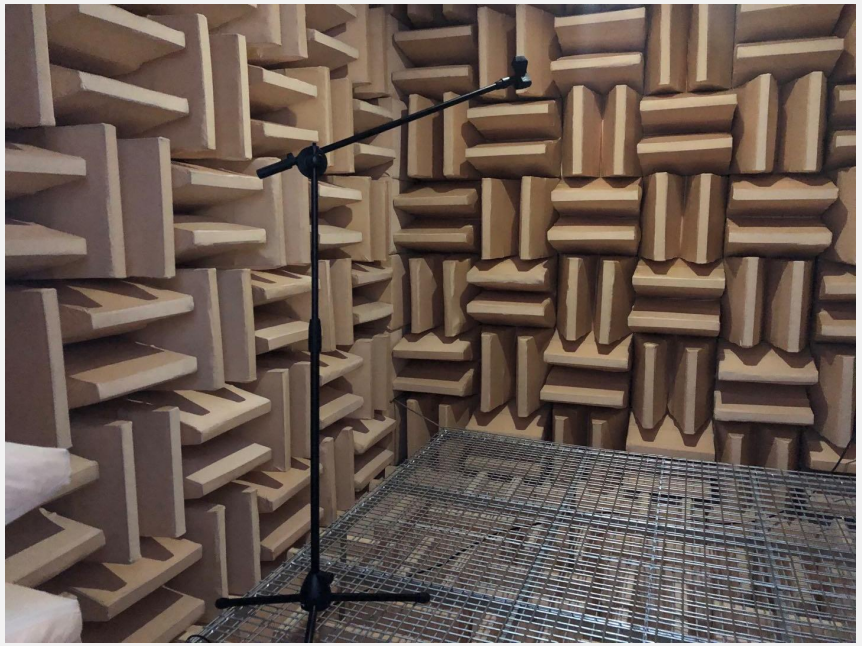
Our company currently operates 12 buzzer production lines, 28 fully automatic piezoelectric buzzer production machines, 4 speaker production lines and 2 microphone production lines. We have ample factory space and can expand our production lines to meet increased demand.

# Technical Advantages

**We are equipped with:**




Environmental Testing Instruments



Anechoic Chamber



Mold & Injection Molding Workshop




Vision Measuring Machine

# Exclusively developed to fill a gap in the market



After two years of development, a piezoelectric alarm compliant with UL 464 has been developed



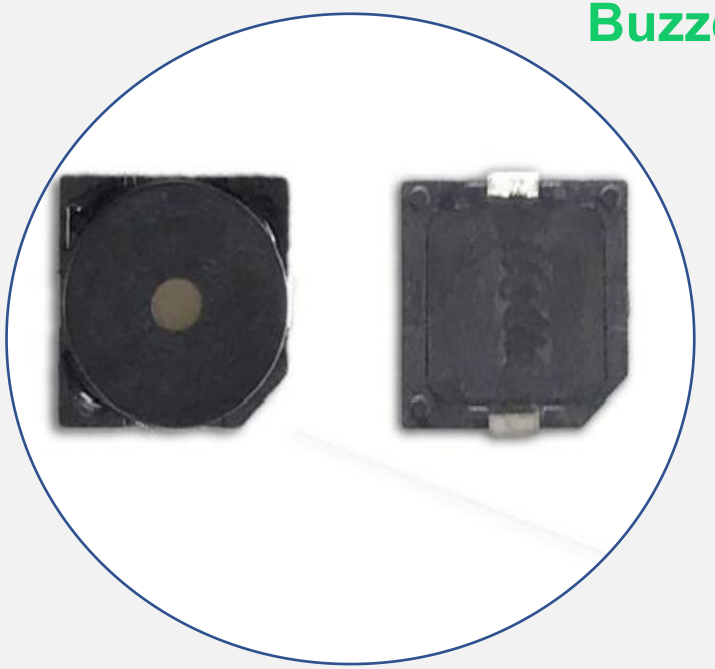


**Product Features:** This low-frequency piezoelectric alarm is manufactured using piezoelectric ceramic components. It operates at a volume approximately 50% lower than traditional dynamic speakers, effectively waking people from a deep sleep, and complies with the UL 464 standard.

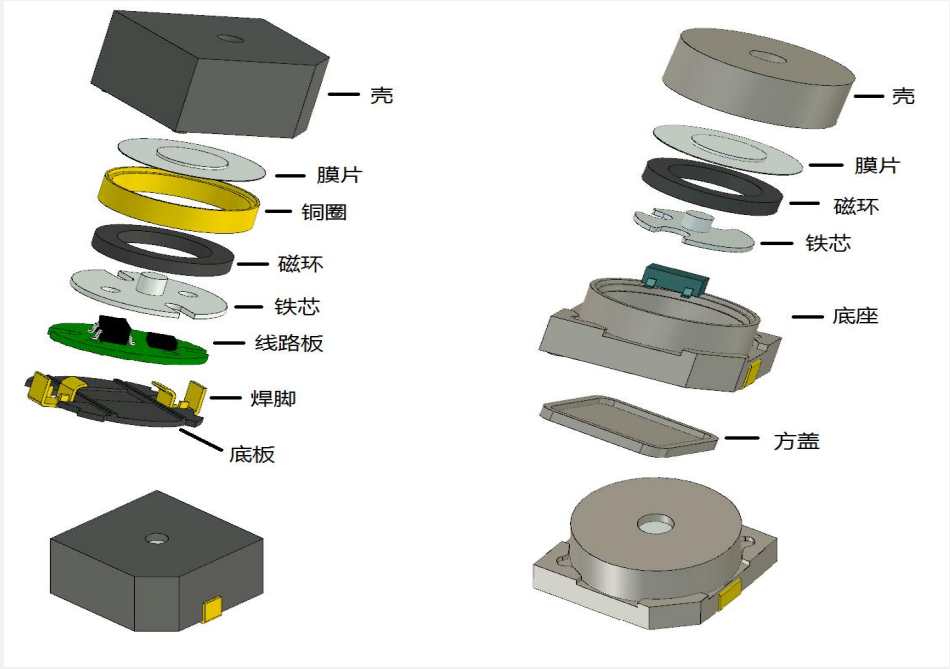
**Target Market:** Security and alarm systems

Exclusively developed to fill a gap in the market

## Exclusively Developed PCB-free SMD Eelectro-Magnetic Buzzer Built-in Osciliating Circuit Type



9650&1370 SMD
(lead-free)




**Product Features:** The product contains no printed circuit boards; instead, the PCB circuitry is moulded into the product using precision stamping, effectively resolving the unreliability issues associated with older designs caused by the need to solder components under high-temperature conditions of 260°C.

**Target Markets:** Medical and consumer electronics. As of December 2024, cumulative shipments of this product have reached 1,000,000 pcs.

## Specialises in developing alarms to meet a wide range of sound requirements



4422 Oxygen concentrator alarm

## Developed China’s first medical alarm system compliant with IEC 60601

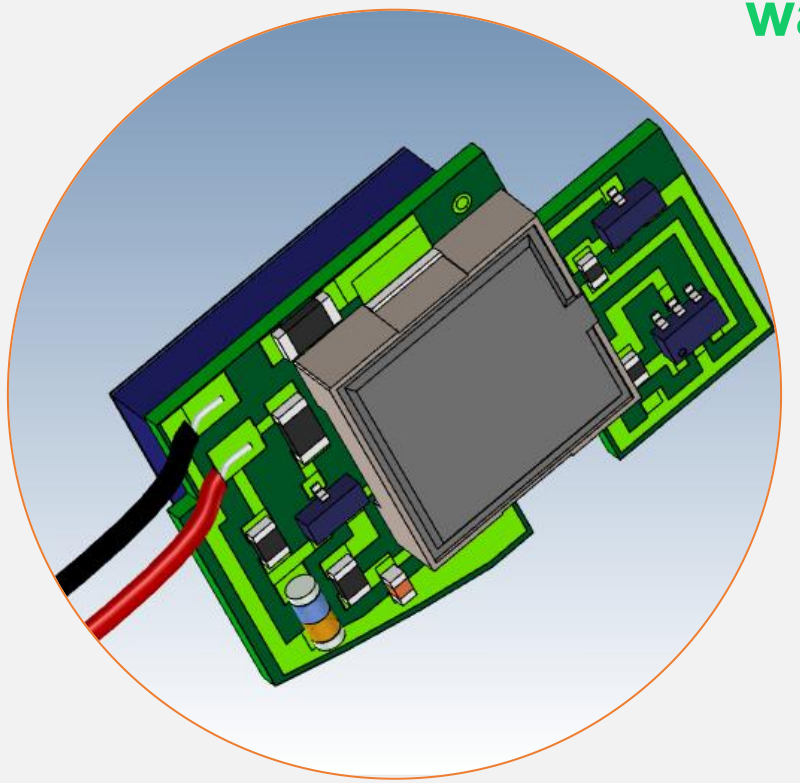


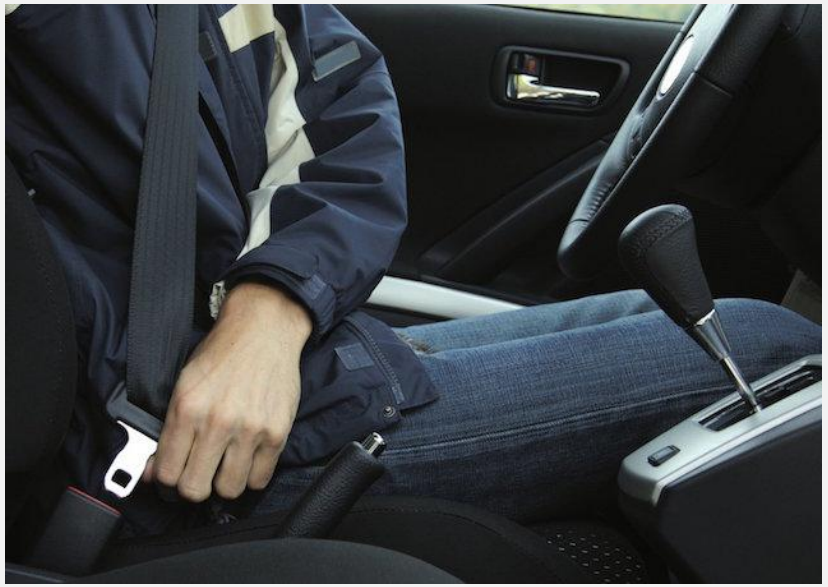



**Product Features:** We have independently developed audio software that complies with the spectral requirements of IEC 60601-1-8, whilst effectively reducing the cost of traditional voice modules and meeting power failure alarm requirements.

**Specialises in developing alarms to meet a wide range of sound requirements**

## Automotive-grade 12V/24V universal seatbelt warning deviceeveloped



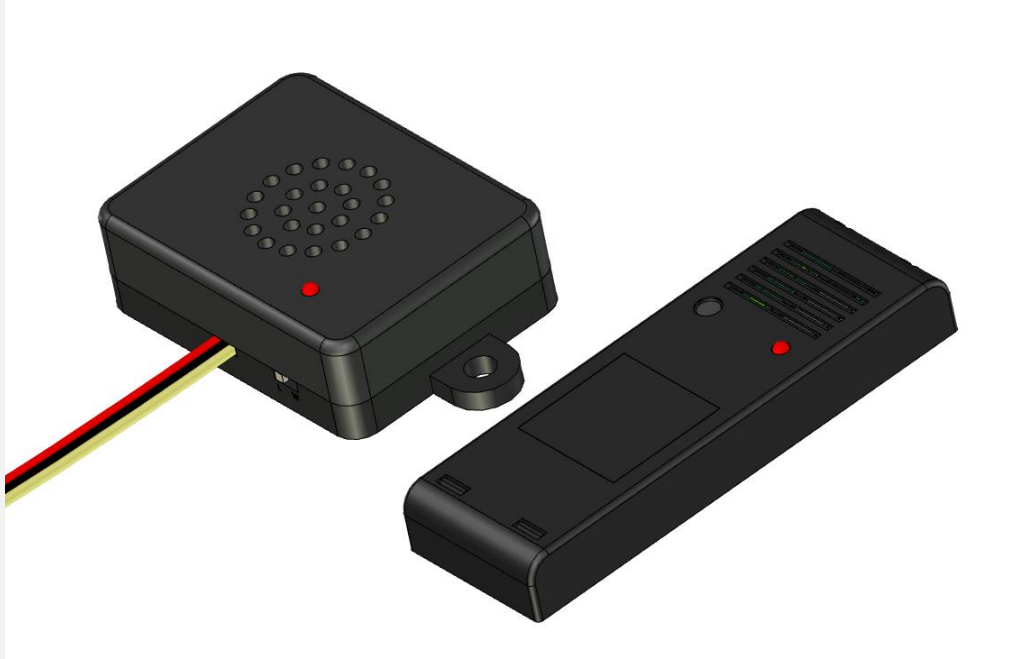


Product features: Shock-resistant and easy to install; can be powered by a vehicle's battery, compatible with both 12V and 24V systems; intermittent audible alarm that stops after two minutes.

**Specialises in developing alarms to meet a wide range of sound requirements**

## In-house developed, ultra-slim automotive emergency window alarm compliant with automotive standards





Product Features: In-house software development

Slim and lightweight, easy to install

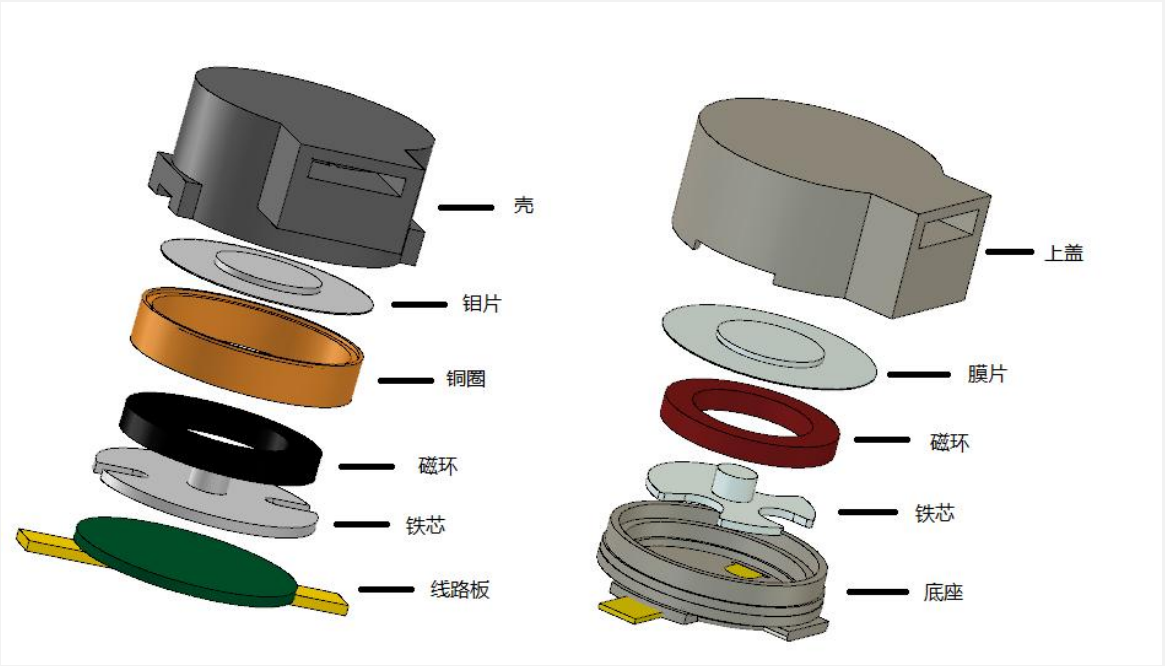
Wi-Fi connectivity

# Cost advantages – helping customers effectively reduce costs through technological R&D

## SMD electro-magnetic buzzers that achieve the same sound level without a copper ring



SMD 9032



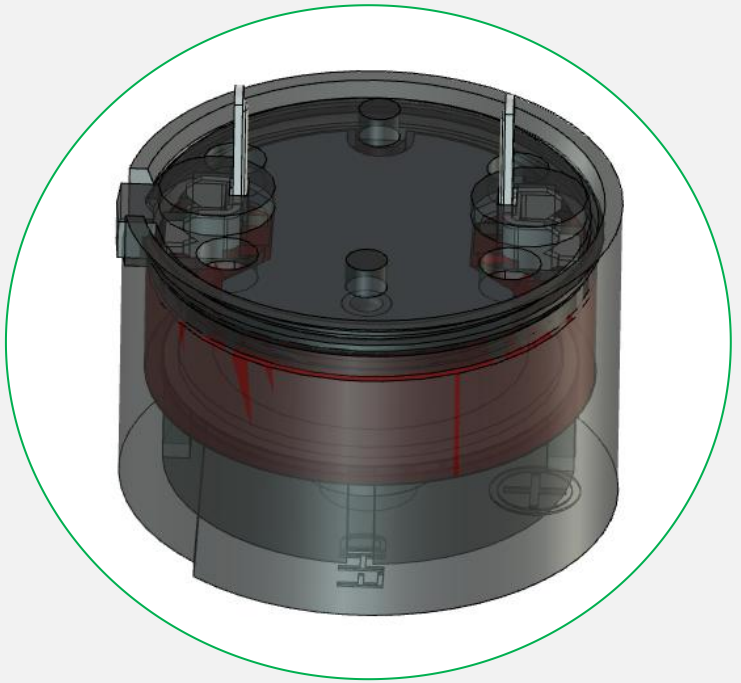

**Product features:** Thanks to the acoustic chamber design, the product achieves the same sound pressure level without the need for a copper ring.

**Target market:** Export to the US market for security products

# Cost advantages – helping customers effectively reduce costs through technological R&D

## Exclusively developed electro-magnetic pin-type buzzer requiring no PCB





1285 with Pin Type

**Product features:** Through technological innovation, the PCB has been eliminated, making the product easier to manufacture using automated processes and effectively reducing costs.

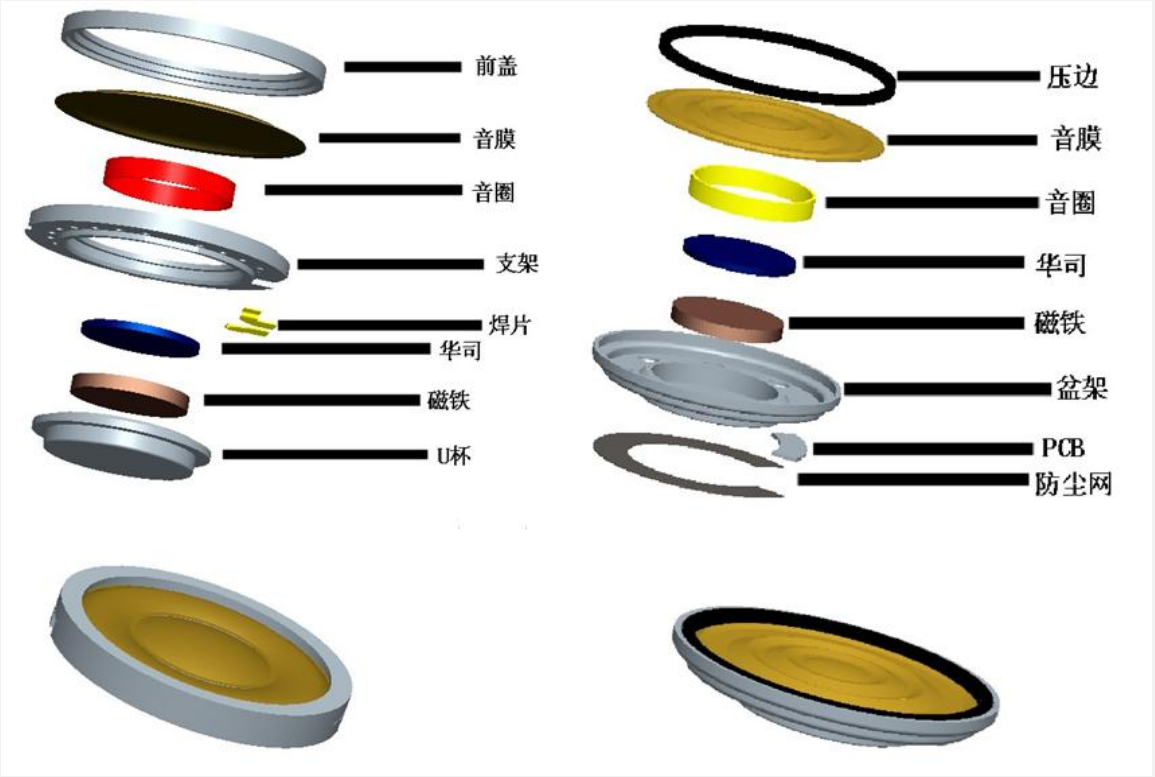
**Target markets:** the ETC sector and smart home technology

## Cost advantages – helping customers effectively reduce costs through technological R&D

### Revamping traditional speaker designs to enhance the level of automation in speaker manufacturing

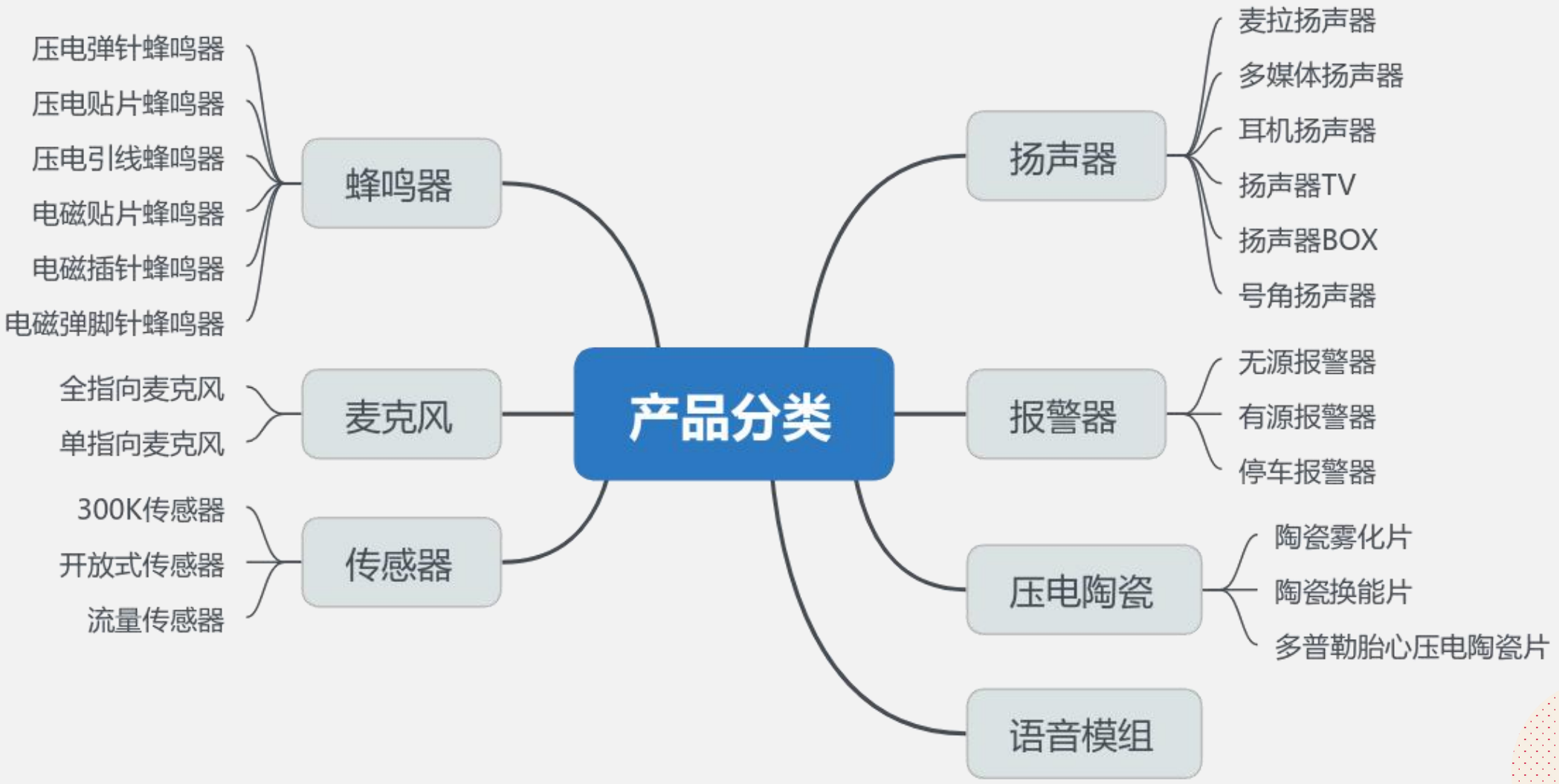


1285 with Pin Type




**Product features:** By improving the speaker design, the product facilitates automation without compromising performance or service life, thereby effectively reducing costs.

# Product Overview



# Flagship Products – Electro-Magnetic Series



SMD Electro-Magnetic Buzzer

**Product dimensions**: 4–10 mm
**Product features**: Compact size, high-temperature resistance, suitable for reflow soldering, low current
**Product applications**: Medical devices, remote controls, wearable devices, anti-loss devices



Electro-Magnectic Buzzer with Pin type

**Product dimensions:** 9–16 mm
**Product features:** Compared to piezoelectric pin-type products, it achieves a higher sound pressure level despite its compact size.
**Product applications:** Household appliances, instruments and meters, weighing equipment, computers, consumer electronics



Electro-Magnetic buzzers with Spring pin

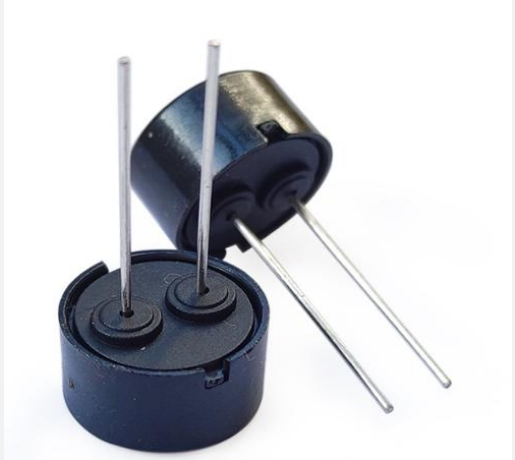
**Product dimensions**: 9.12 mm
**Product features:** Fully automated production; retains original performance whilst reducing labour costs and increasing production capacity.
**Product applications:** Household appliances, instruments and meters, weighing equipment, computers, consumer electronics

# Flagship Products – Piezoelectro Series



SMD Piezoelectric Ceramic Buzzer

**Product dimensions**: 9–16 mm
**Product features:** Compact and slim, heat-resistant, suitable for reflow soldering
**Product applications:** Medical, automotive, handheld devices



Piezoelectric pin-type buzzer

**Product dimensions:** 12–22 mm
**Product features:** Tape-and-reel packaging, fully automated production, fully automated testing, high production capacity, labour-saving
**Product applications:** Household appliances, instruments and meters, consumer electronics, ETC



Piezoelectric wire-type buzzer

**Product dimensions**: 10–30 mm **Product features:** Compact and slim design; installation position can be adjusted according to cable length
**Product applications:** Medical, consumer electronics

# Flagship Products – Speaker Series



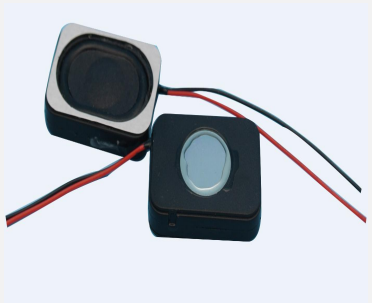
## Mylar Speaker

**Product dimensions:** 10–50 mm
**Product features:** Voice, intercom, wide range of applications, low power consumption
**Product applications:** Security, healthcare, household appliances



## Multimedia speakers

**Product dimensions:** 30–105 mm
**Product features:** Excellent sound quality, high power output
**Product applications:** Automotive, household appliances, loudspeakers



## BOX Speaker

**Product dimensions:** 19–70 mm
**Product features:** Excellent sound quality, easy to install
**Product applications:** Household appliances, door locks, automotive, computers, loudspeakers



## TV Speaker

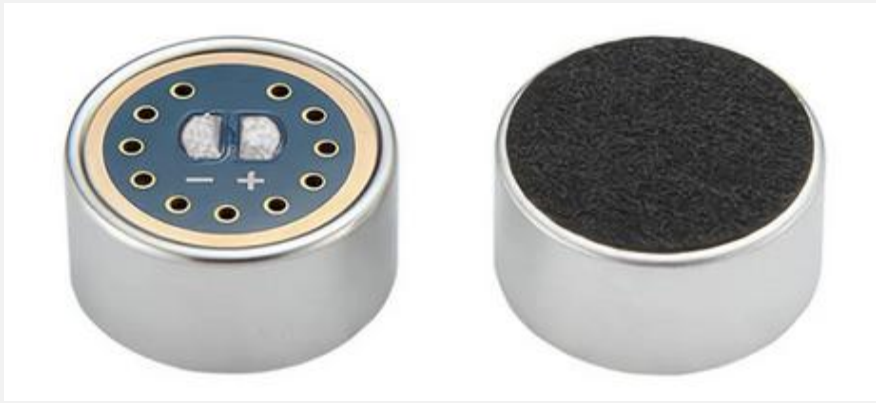
**Dimensions:** 30 × 192 × 24.2 mm
**Features:** Omnidirectional sound, wide audio range, easy to install
**Applications:** Televisions

# Flagship Products – Microphone Series



## Omnidirectional microphone

**Product dimensions:** 3 mm–9 mm
**Product features:** Interference-resistant, high sensitivity
**Product applications:** Automotive, security, telecommunications



## Unidirectional Microphone

**Product dimensions:** 3 mm–9 mm
**Product features:** Interference-resistant, high sensitivity
**Product applications:** Automotive, security, telecommunications

# Flagship Products – Alarm Series



Buzzer

**Product dimensions:** 24–50 mm
**Product features:** Relatively large size, high sound pressure
**Product applications:** Car tailgates, industrial control equipment, medical devices, security systems



Buzzer With
built-in oscillating circuit

**Product dimensions:** 24–50 mm
**Product features:** High sound pressure level; customised sound solutions can be designed through circuit design
**Applications:** Security, medical, rail transport, industrial control equipment



Reversing alarm

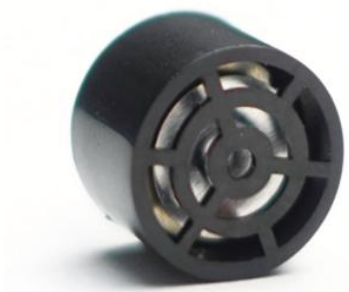
**Product dimensions:** 30–70 mm
**Product features:** High voltage, high sound pressure, customisable sound Product
**applications:** Reversing alarms for cars and lorries

# Flagship Products - Sensor Series



## Oxygen sensor

**Dimensions:** 120 mm
**Features:** High-precision temperature sensor, simple hardware circuitry and high reliability
**Applications:** Oxygen generators



## Open-type sensor

**Product dimensions:** 10, 12, 16, 24 mm
**Frequency:** 40 ± 1 kHz
**Capacitance:** 2300 ± 20% pF
**Applications:** Distance measurement, obstacle avoidance



## Flow sensor

**Product dimensions:** 20 mm
**Frequency:** 1 MHz
**Capacitance:** 800 ± 20% pF
**Applications:** Water meters, gas meters, fuel meters

# Flagship Products - Transducer Series



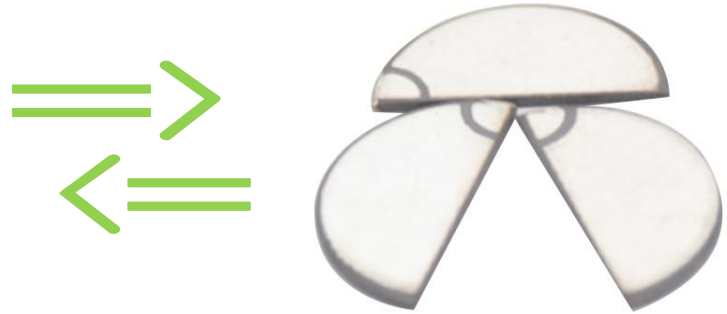
Ceramic atomiser plate

**Product dimensions:** 16 mm
**Frequency:** 3000 ± 100 kHz
**Capacitance:** 1700 ± 20% pF
**Applications:** Atomisation of herbs and essential oils



Piezoelectric ultrasonic transducer

**Product dimensions:** 10–50 mm
**Frequency:** 43 ± 2 kHz



Doppler foetal heart rate piezoelectric ceramic element

**Product dimensions:** 20 mm
**Frequency:** 2000 ± 100 kHz
**Capacitance:** 2000 ± 20% pF
**Applications:** Foetal heart rate monitors

# Customers Industry Breakdown

