

# SINEE

INVERTER / ALL-IN-ONE MACHINE / SERVO SYSTEM / NEW ENERGY

## COMPANY PROFILE

SHENZHEN SINE ELECTRIC CO.,LTD.

STOCK CODE 688395

# **VISION**

Automated Production and Life

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# **PHILOSOPHY**

Reliable Drives & Solutions by Technology

## COMPANY OVERVIEW

**SINEE**

**SINEE** is a high-tech enterprise specializing in the research and development, production and sales of motor drive and control systems in the field of industrial automation. It is one of the earliest enterprises engaged in the research and development and production of inverter in China.

**SINEE** has established a high performance variable frequency vector control technology, high precision servo drive technology, embedded computer control technology, power electronics application technology and other key core technology platform.

**SINEE** mainly provides mechanical equipment manufacturers and electronic control system integrators with frequency converters, integrated special aircraft, servo system products and new energy system solutions.

**Foundation: In 2003**

**Registered capital: CNY 86 million**  
(About USD 13 million)

**2020 sales revenue: CNY 403 million**  
(About USD 63 million)

**Compound annual growth rate: 30%+**

**Employee: 500+**



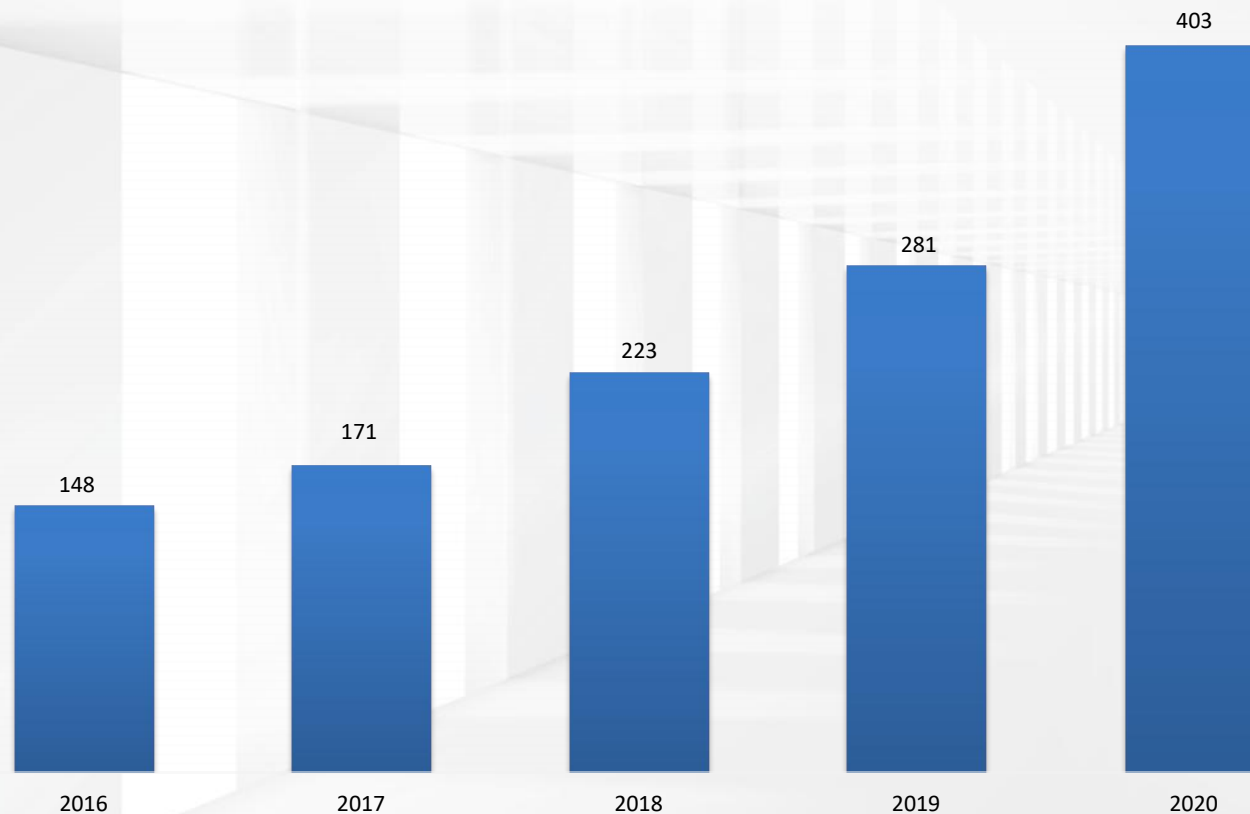


## BASED ON CHINA AND LOOK TO THE WORLD

SINEE, headquartered in Shenzhen (an international first-class intelligent city), has established research and development, production and service bases in Wuhan and Wuxi (a famous domestic science and technology innovation new city).

In domestic market, SINEE set up sales and service centers in 28 large and medium-sized industrial cities, with more than 100 service units.

In overseas market, SINEE has been exported to more than 50 countries.



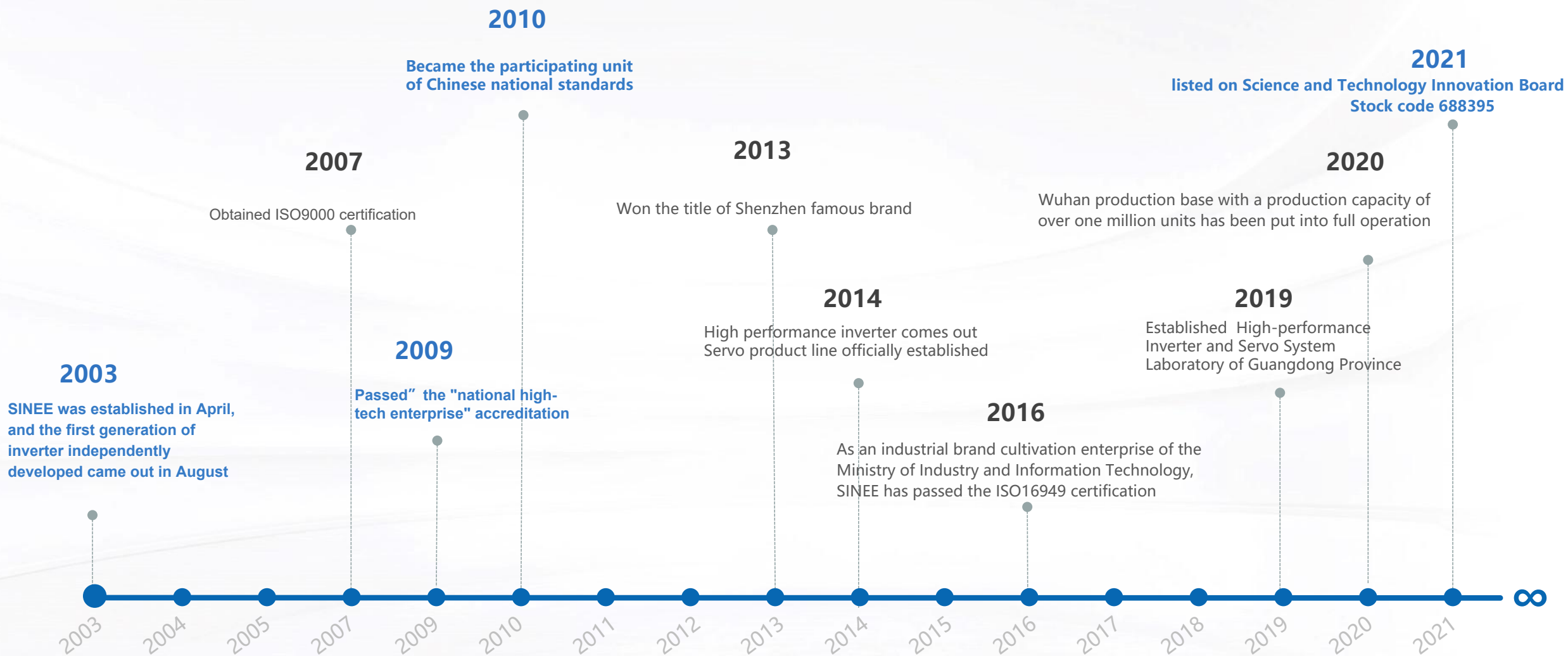
■ Annual revenue in the last five years ( Million/RMB )

## Core Products

-  Variable Frequency Drive
-  All-in-one Machine
-  Servo System
-  New Energy

# COMPANY EVENTS

**SINEE**



# ORGANIZATIONAL STRUCTURE



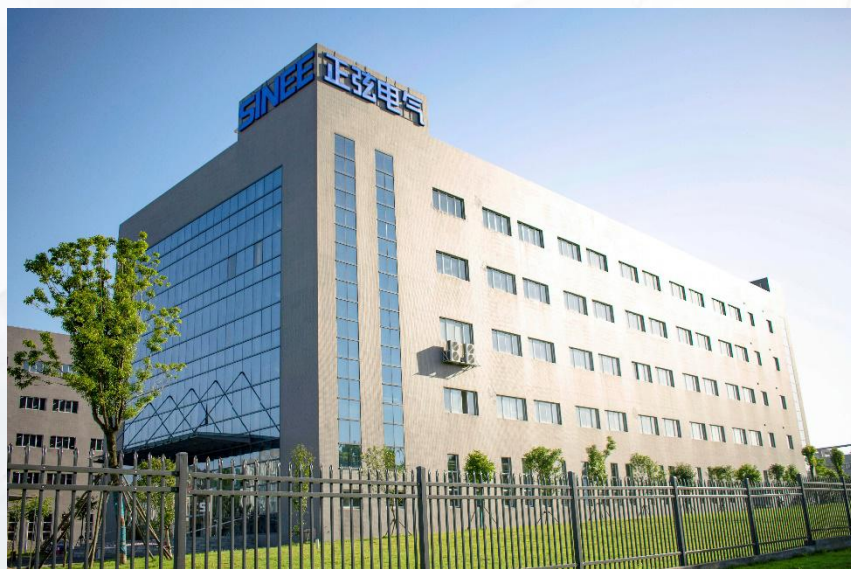
# COMPANY SCALE

**SINEE**



15,000 square meters

**Shenzhen Headquarter**



40,000 square meters

**Wuhan Subsidiary**



1000 square meters

**Wuxi Branch**



## CERTIFICATES

High and New  
Technology Enterprise  
Certificate



Shenzhen Strong Quality  
Key Enterprise Certificate



Enterprises accredited for  
fulfilling contract and  
valuing credit in  
Guangdong province



Shenzhen Famous Brands



# HONORS AND QUALIFICATIONS



## National experiment report

The core products are tested by the national laboratory  
Report to provide quality and safety assurance for customers

## Patent protection

The total number of authorized patents is 28, including 21 invention patents and 37 software copyrights

## Quality system certification

Successfully passed ISO 9001 quality management system, ISO 14001 Environmental Management System, ISO 45001 occupational health management system certification audit

## CE certification

The whole series of products have passed the CE certification, so that customers can obtain greater quality and safety guarantee in use



— 1 —

## VFD series



- Simple and easy to use,
- Stable operation
- Strong expansibility

— 2 —

## Servo system series



- Quick response
- Precision positioning
- Bus control

— 3 —

## All-in-one Machine



- Concise system
- Reliability
- Stable and reliable

— 4 —

## Motor drivers for new energy vehicles



- High security
- Reliable and stable
- High Flexibility

## VFD | EM760



- Reduce input current distortion and improve power factor
- Wide speed range, high control precision
- High torque control accuracy
- Support multiple encoders
- Low frequency band load capacity is strong

## VFD | EM730

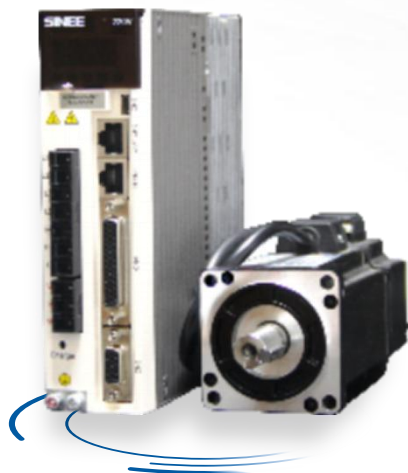


- Rich and convenient PC back-end software functions
- Support Wi-Fi module or serial access
- Ambient temperature at 50°C, no capacity reduction required
- Wide speed range, high control precision
- Low frequency band load capacity is strong

# MAIN PRODUCTS

**SINEE**

Servo | EA180



- Rich and varied application functions
- A large number of field verification of high reliability
- Excellent scalability

Servo | EA180C/180P/180E



- Fully compliant with standard bus protocols
- Adapt to the vast majority of the host computer
- CANopen, EtherCAT, Profinet rich selection

Servo | EA190



- High power density design
- Economy and high reliability are ensured
- 5 pole-opposite motor
- Small volume and high response



## Construction Machinery

- Construction lift
- Tower crane,
- Concrete mixing
- Road construction machinery



## Petroleum Industry

- Direct drive progressing cavity pump
- Pumping unit,
- Energy feedback



## Printing and packaging industry

- Tension control
- Cutting machine



## Metallurgical Industry

- Drawing
- Calendering
- Punch press
- Forging



LARGE-SCALE APPLICATION OF INDUSTRY



SOLUTIONS ARE WIDELY USED



EXCELLENT PERFORMANCE SUBSTITUTE IMPORTS



## New energy

- New energy vehicles
- Main drive and auxiliary drive



## Municipal Engineering

- Heating
- Thermal power plant
- Municipal water supply
- Sewage treatment



## Automated Production

- Manipulator,
- Automated production line
- Automatic handling
- SCARA robot



## Elevator drive control

- Passenger elevator
- Freight elevator
- Sightseeing elevator



## INDUSTRIAL INTERNET

Systematically promote the construction of industrial Internet infrastructure, Data resource management system



## INDUSTRY 4.0

Based on core technology and accumulation in the field of industrial control, Continuously innovate output product solutions and perfect supply chain



## SMART FACTORY

Deep integration of information technology and industrial economy, innovation should Reshaping industrial production mode with mode and brand-new industrial ecology



PARTNERS



## RESEARCH AND DEVELOPMENT STRENGTH

© The founding team of SINEE has been engaged in frequency converter industry and related motor drive control research for more than 20 years



© R & D management team is an expert team, technology and industry accumulation is very profound



© More than **90%** of the core R&D team graduated from well-known industrial automation universities and have rich experience in the industry



© More than **40%** of the technical personnel have grown with the company for more than 8 years



© R & D Team has a high proportion of international and domestic well-known brand working experience

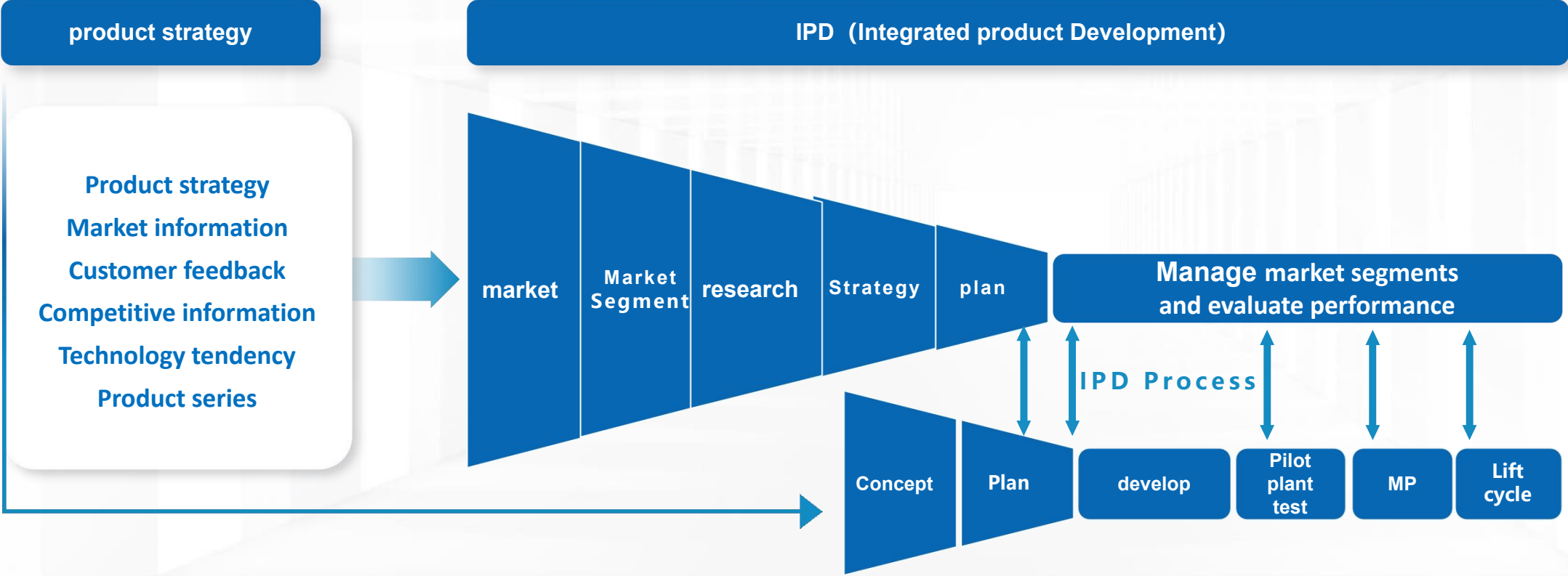


R & D personnel account for **25%** of the total number



Master's degree and doctor's degree account for **30%** of the R & D team

# RESEARCH AND DEVELOPMENT STRENGTH



- Core sub-process**  
Project management, configuration and change, technical review, quality management, knowledge management, Requirements management, CBB reuse, procurement/outsourcing management, hardware and software design
- Performance management**
- Evaluation system**
- IPD tool**
- Shared tools**

# RESEARCH AND DEVELOPMENT STRENGTH

## R&D Experimental Platform

### DEVICE LABORATORY

- Transistor analog analysis platform
- LCR comprehensive simulation and analysis platform
- Device microanalysis platform



### SIMULATED ENVIRONMENT LABORATORY

- High and low temperature simulation
- Humidity simulation
- Corrosion simulation
- Dust simulation



### FUNCTION & PERFORMANCE LABORATORY

- Covering 400 w ~ 630 kw
- Synchronous machine test platform
- Asynchronous machine test platform
- Basic functional test platform
- Multi-machine communication test platform



### EMC AND SAFETY REGULATION LABORATORY

- Withstand voltage test
- Insulation test
- Overload test
- Safety review
- Mechanical test
- Short circuit test
- Impulse voltage test





Guangdong Engineering Technology Research Center of High Performance Inverter and Servo System



National standard drafting unit



Master a number of key research and development technologies



High performance variable frequency vector control technology



Inverter control technology



High precision servo drive technology



Peripheral interface technology



Embedded computer control technology



Industry application technology



Power electronics application technology

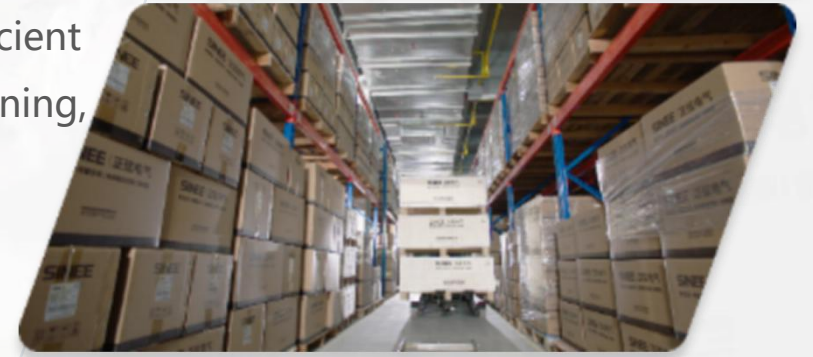


## Forecast Plan   Rapid Response



Digital warehousing and logistics, rapid response to order requirements, optimize delivery, ensure the distribution link, smooth flow of operations

Promote the efficient combination of planning, organization, implementation and coordination in the manufacturing process



## — STABLE QUALITY —



### Standard operation



Established the standard operating procedure (SOP) of the post and station, and equipped with full-time IQC, IPQC, FQC, OQC and other quality control personnel.



### Process tracing



The manufacturing process is supported by ERP system, and the product bar code is the identification information, so that the whole process can be traced back.



### Data management



The production process fully uses the self-developed automatic test equipment (ATE) to realize the test automation of PCBA and the whole machine



### Quality defect management database



Relying on ERP, IBMS, CRM and other IT systems, SINEE has established a quality defect management database to quickly eliminate the quality risks in each link.

— EFFICIENT PRODUCTION —

© **The whole production line is automated and upgraded**

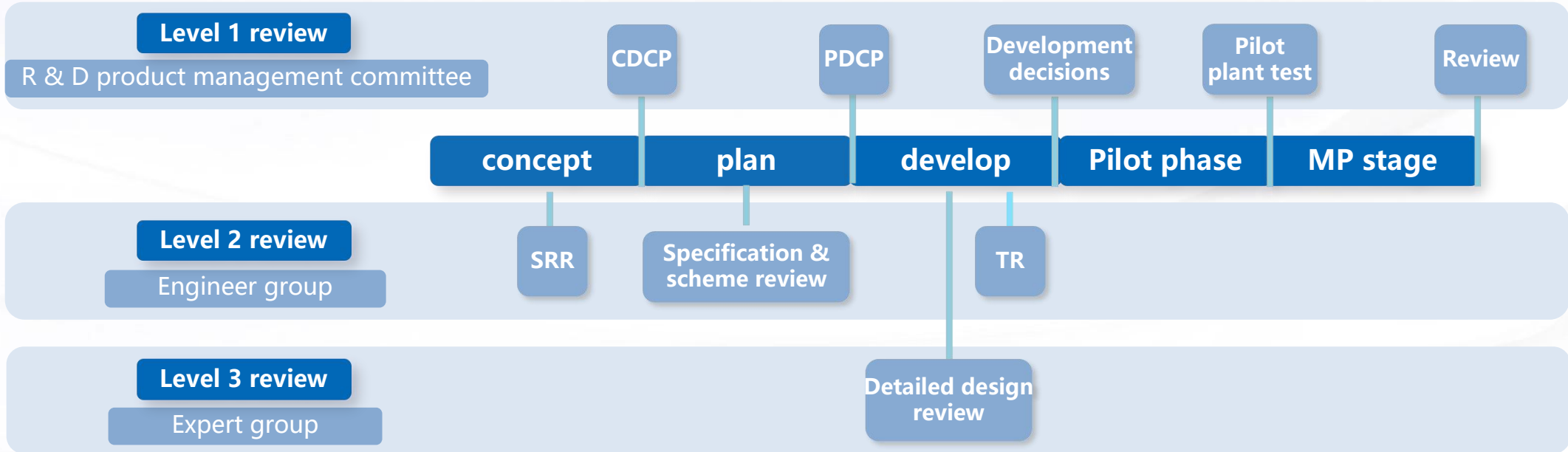
The production process fully uses the self-developed automatic test equipment (ATE) to realize the test automation of PCBA and the whole machine, which effectively improves the production efficiency





# PROCESS QUALITY CONTROL

## ➤ Multi-level and perfect process quality control



- Quality activities and monitoring throughout the whole process (process quality assurance)
- Hierarchical review and its matching review organization (effectiveness and efficiency assurance)
- Total Defect Management (Quality Alert and Improvement and Enhancement Assurance)

**TOTAL QUALITY MANAGEMENT**

**Reliable Drives & Solutions by Technology**



# INTEGRATED PRODUCT DEVELOPMENT

01

## COMPETENCE

- Listed enterprises on science and technology innovation board.
- Supplier to the world's top 500 enterprises

02

## TECHNOLOGY

- Independently master core intellectual property rights
- National Standard Setting
- Industry in-depth customization capabilities

03

## PRODUCT

- Covering high, medium and low pressure products
- Specialized line of frequency converters for high-end applications in the general industry

04

## QUALITY

- Scientific total quality management
- Whole process quality control and promotion guarantee

05

## BRAND

- SINEE has a long history and high visibility in the industry
- Abundant online and offline brand promotion activities
- Comprehensive product resources are complete

06

## SERVICE

- A nationwide marketing service network
- Efficient after-sales service guarantee
- Professional solution ability

# STRATEGIC PLANNING

Establish the domestic brand image of SINEE in middle and high-end applications

With continuous technological innovation and product research and development, to meet customer needs, enhance market competitiveness, to become the industry segment market leader

**SINEE**

is an enterprise with integrated shareholders and employees. We will work hard together, share the benefits and glory of success, create automated production and life.

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Stock code: 688395