



**Deve Electronics(HK)Co.,Ltd**  
**Shenzhen Haode Electronics Co., Ltd**



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01

Summary



**Founded in 2012, Shenzhen Haode Electronics Co.,Ltd. is a one-stop service intelligent manufacturing digital factory focusing on PCBA R&D, PCBA OEM/ODM and finished product assembly, etc.**

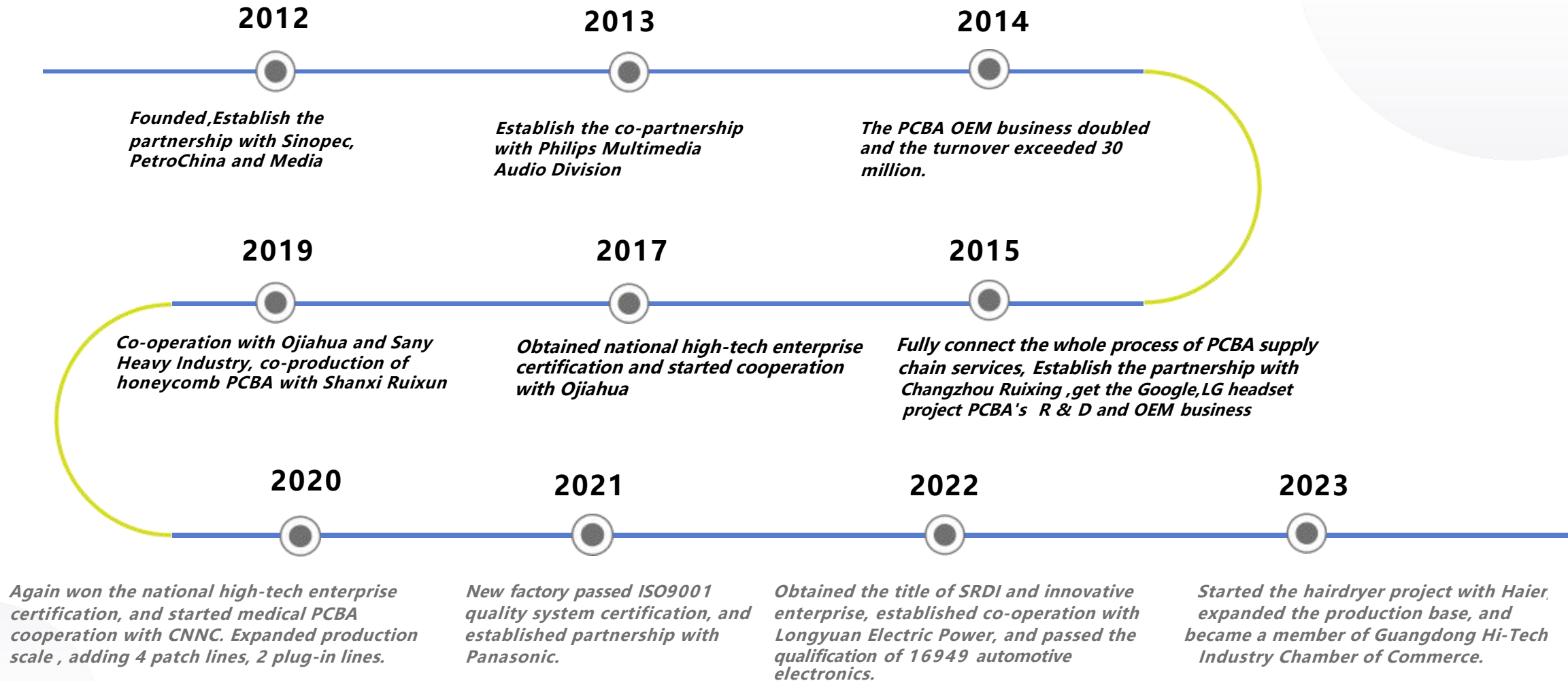
**Haode has 3 production bases with a total area of 16000 square meters, with 13 fully automatic SMT production lines, 8 Dip lines, 13 test lines, 3 sets of three-proof spraying machines, 36 Finished products assembly lines, and a series of high-precision inspection equipments and reliability test equipments, The daily production capacity of SMT is up to 25 million points, and the finished product can be assembled up to 1000~150,000 PCS.**

**We have passed ISO9001:2015 quality management system, IATF16949:2016 automotive quality management system, ISO13485:2016 medical device quality management system, ISO14001:2015 environmental management system, CE, FCC, ROHS, high-tech enterprises and other qualifications.**

**Fully connect the upstream, middle and downstream industry chain, long-term service to more than 200,000 customers in various industries around the world, forming a closed-loop ecological chain of the electronics industry.**



# Milestones

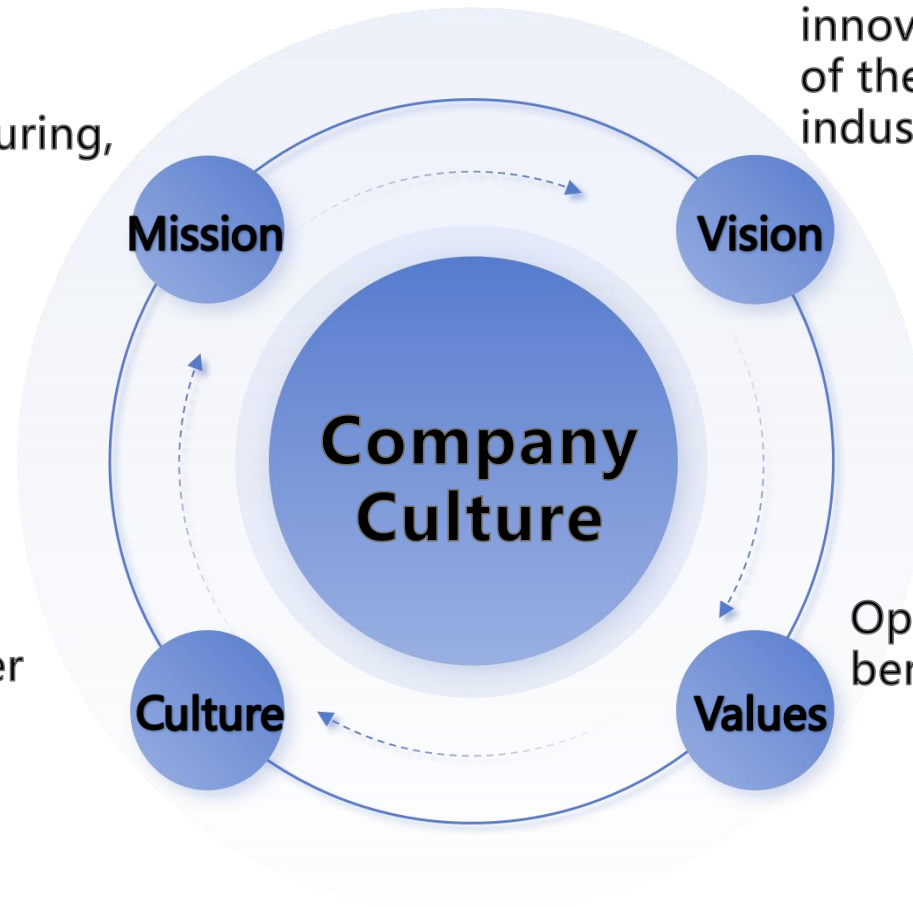




# Company Culture

Empower industry,  
Ensure worry-free manufacturing,  
Lead in smart electronics.

Customer first,  
Altruism first  
Service with heart,  
Building success together



Providing assistance to the  
innovation and development  
of the electronic information  
industry

Openness, integration, mutual  
benefit, All-win



# Team Introduction

*Electronic industry platform thrives after decade-long growth,Haode ecosystem flourishes.*

**80+**

**R&D Team**

**30+**

**Business Team**

**1500+**

**Manufacturing Team**

**500 Million+**

**Annual Turnover**



02

Honour

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# Qualifications



ISO 9001 Quality Management System Certification



13485 Medical Quality Certification



Environmental Management System Certification



16949 Quality Certification for the Automotive Industry



# Invention/Design Patents





# Utility Patents (实用新型专利证书)





# Software Copyright Patents (软件版权专利证书)





03

R&D





# Haode One-Stop Service for Intelligent Manufacturing Digital Factory



PCBA Design



Components  
Procurement  
One-stop BOM  
allocation



SMT, DIP, post-soldering,  
TEST programming test,  
PCBA electrical  
maintenance and  
assembly



Finish  
products  
Assemble



Haode assigns a senior technical engineer to each project.

From the order entered into our company, the engineer participates in the entire process and develop

Material purchasing standards

Production and testing standards

Packaging and transportation standards

Ensure that every step of the process is efficient, accurate and safe for production and after-sales service.



## Data-based control

### ERP

1. Realize digital management of logistics/funds/information flow, achieving real-time/accurate/efficient performance.;
2. Standardize logistics management (inbound/outbound/warehouse, etc.)/production planning/financial management processes.;
3. Dynamically monitor supply chain data, provide timely feedback, promote management correction, and continuous improvement.

### MES

1. **Smart manufacturing:** Combining smart hardware devices with MES software to boost efficiency in each process for faster production and shipping.
2. **Digital management:** MES system digitizes and traces materials and production processes from raw materials to product shipment.
3. **Quality control:** The MES system implements process control on all quality aspects during production, automatically preventing errors, omissions, and loss of control according to set standards.



### Laboratory Features:

- 1.Expertise:** with dedicated test engineers & specialized testing equipment
- 2.Variety:** covering testing and validation equipment for raw materials, semi-finished, and finished products in PCBA and final products' full lifecycle
- 3.High Quality:** compliant with international, national, and industry standards
- 4.Standardization:** operations and processes meet international and domestic professional laboratory certification procedures.



# Ecological prosperity

Customer  
Group

Industrial, new energy, automotive electronics, medical electronics, communication electronics, security electronics, consumer electronics, Robot, commercial display, medical beauty, massage instrument, pet, high-speed hair dryer, intelligent home, intelligent kitchen appliances

Data

Kingdee Data Control System

Workshop MES Management System



# Solution Development

Haode R&D

Haode R&D is committed to your creative to realize. According to your needs to provide one-on-one customized development services. you only need to tell us your product ideas, we will help you to realize it

consumer electronics

smart home

smart industry

Security Products

Medical aesthetics and medical care

New energy

automotive electronics

## Cooperation Workflow

Consulting

Needs assessment

Quotation

Contract Signing

R&D Design

Prototype Production

Verify delivery



# Successful Cases

## Smart Home

Smart Curtains  
Sweeping Robot  
Intelligent Pet Series  
Intelligent Hotel Door  
Control System  
Intelligent Sensor  
System

## Consumer Electronics

Bluetooth Audio  
Small Fan Series  
Fan on neck  
Teeth cleaning  
Electric toothbrush  
Heating products  
Hair dryer series

## Smart Industry

Industrial Control  
Machine Line Robot  
Ultrasonic Industrial  
Cleaner  
PLC Terminal Controller  
Toxic and Hazardous Gas  
Sensors  
Hydrogen Sensor  
Miniature Infrared  
Propane Sensor

## Security Products

Smoke Sensor  
Door Alarm  
Intelligent monitoring  
equipment  
Intelligent Door Lock  
Fire Monitoring

## Medical aesthetics and medical care

Helicobacter pylori Tester  
E. coli Tester  
Intimate Care Instrument  
Medical Surveillance  
Management  
Dental Care Instrument  
Cosmetology

## New energy

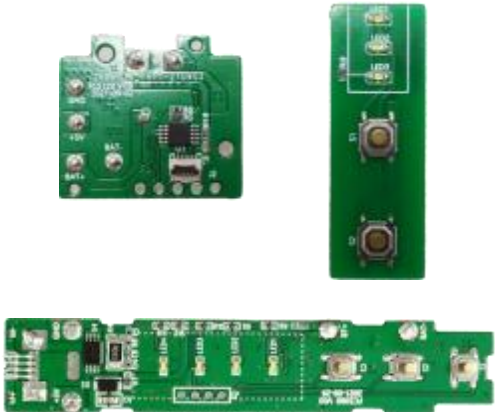
Charging Station  
Gasoline dispenser  
Wind Power  
Inverter  
Energy Storage Box

## Automotive electronics

Car Fragrance  
Generator Center  
Console  
Wireless Charger  
Automatic Door Control  
System  
Oil Valve Control System  
Communication Module



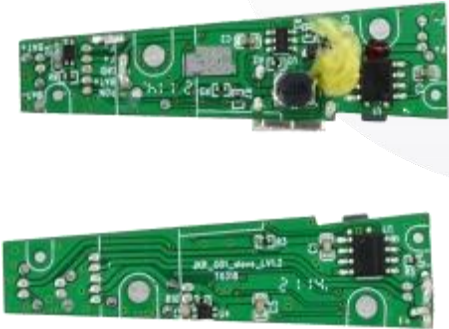
# Successful Cases (Partial))



Teeth cleaning



Electric toothbrush



Fan on neck



Industrial



Consumer Goods



Business category



## Finished products cases(Partial))



Pet smart drinking fountain



high speed hair dryer



MUZEN Speaker



Electric toothbrush



Commercial Robot



Fan on neck



04

Purchasing



Established long-term strategic partnership with more than 10,000 brand manufacturers and authorized distributors,  
Set up a large warehouse of 2,000 square meters with 200,000+ SKUs in stock.  
So far, we have provided one-stop service solutions for 3000+ electronic enterprises, engineers, R&D organizations, such as "component selection, procurement, BOM allocation, overseas purchasing", and so on.

**Raw Materias  
Procurement  
Platform**

**Haode  
purchases**

**Massive inventory**  
  
200,000+ self-operated spot SKU

**Lots of**

**High speed**

Lightning Shipment  
4 hours fast delivery

**Strictly control channels**  
  
Only purchase from original manufacturers and agents  
every piece of material can be traced back to its origin

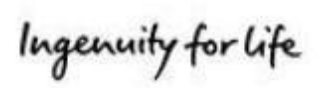
**Excellent**

**Save**

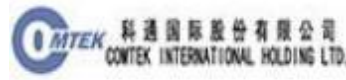
**Reduce Costs**  
Save time and cost with clearly labeled prices  
One-stop shopping for genuine components



Genuine guarantee: Double guarantee for domestic and foreign brands







HKT







omeon

7OSHIBA







# SMT/ PCBA OEM

Haode Intelligent  
Manufacturing  
Digital Workshop

We can provide customers with one-stop services such as " BOM materials procurement, SMT mounting, DIP plug-in post-soldering, software download TEST, PCBA electrical repair, three-proof paint coating, assembly and packaging".



### Professional

12SMTlines  
SPI、AOI、X-ray  
inspection



### Service

TESTburningtest,PCBA  
electricalmaintenance,  
assemblyandplug-in  
providecustomer-supplied  
SMTprocessing services.



### Convenient

PurchasingBOM  
materials,ownPCB  
factory,  
One-stop solution



### Lead time

Materialtoall,  
fastschedulingonline,  
deliverytimeis  
guaranteed (3-5 days)

## Process Capabilities

**PCB size:** 50×50mm-510×460mm  
**PCB board thickness:** 0.4mm-4mm  
**SMD component size:** 0201-45mm  
**SMD component spacing:** IC:  
the minimum identifiable spacing is 0.35mm  
**Component height:** up to 15mm  
**SMT accuracy:**  
Chip type : ±0.04mm, 1C type :±0.035mm



05

Workshop





**Intelligent manufacturing digital workshop**



## Production capacity

Haode provides you with the most comprehensive one-stop service.  
Professional, fast, efficient, high quality - your long-term strategic partner!

### SMT

**SMT Daily production capacity:**

25 million points/day

### DIP Post Weld Test Processing

**Daily production capacity**

DIP :80W points/day

Post-soldering :6w sets of PCBA/day

Test: 6W PCS PCBA/day

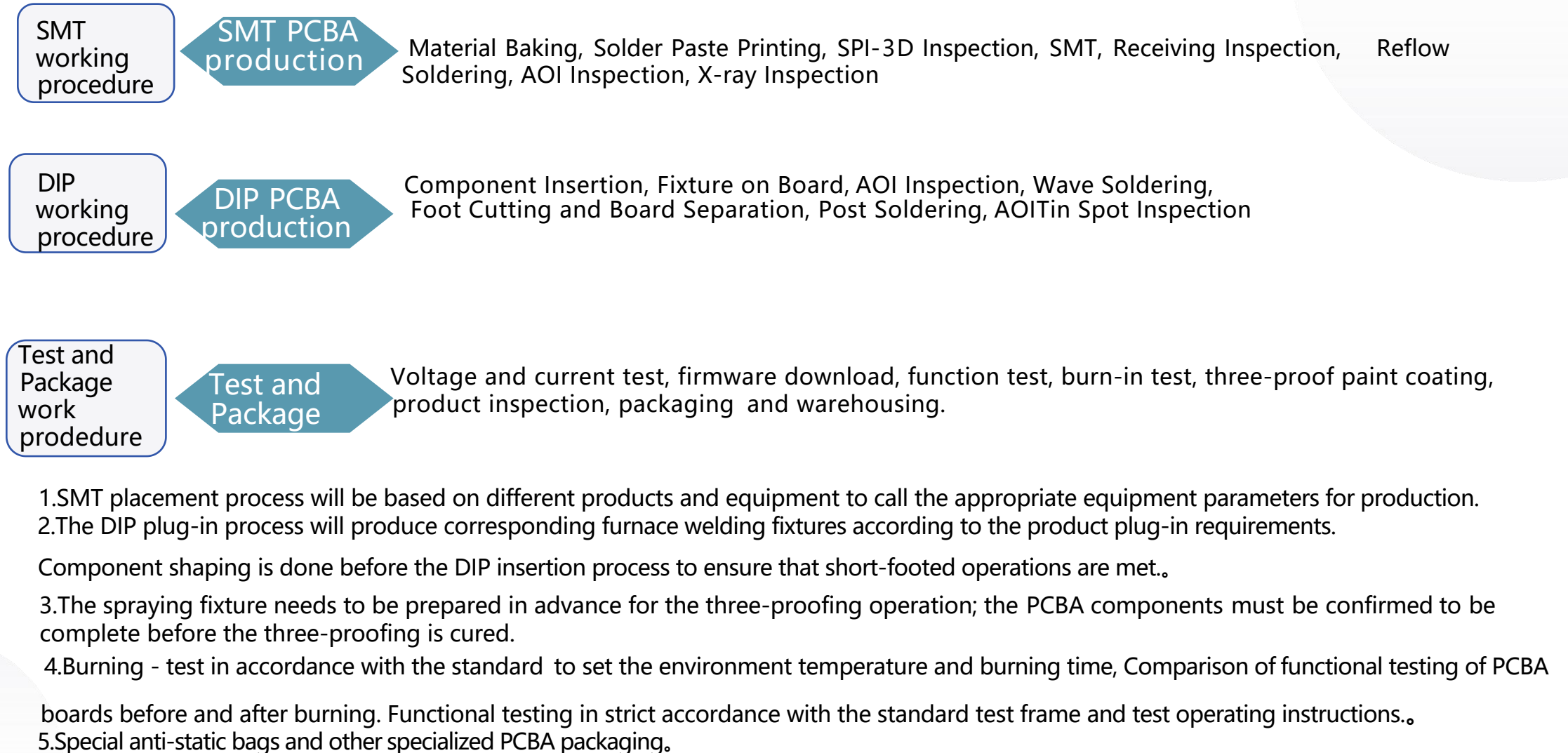
### Assemble, packaging, and finished products machining

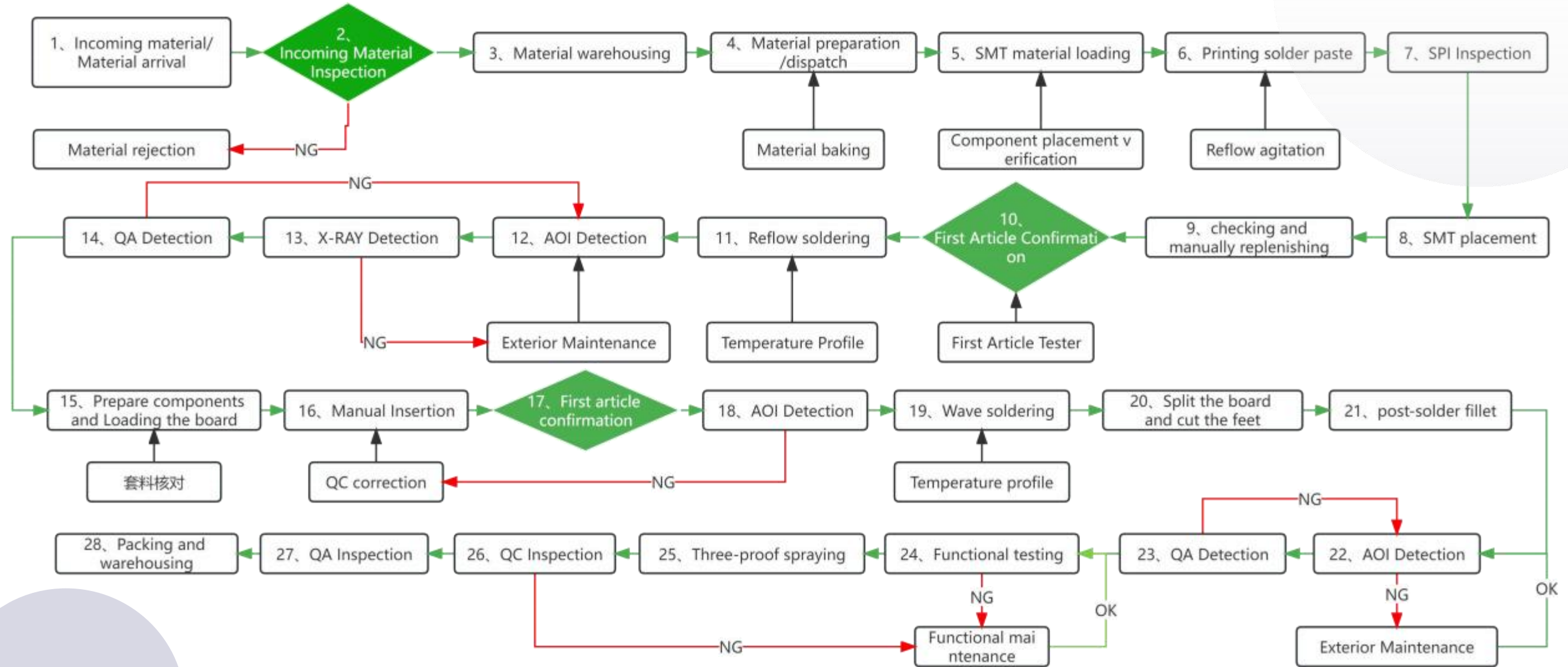
**Daily production capacity:**

**50,000-150,000 pcs/day**



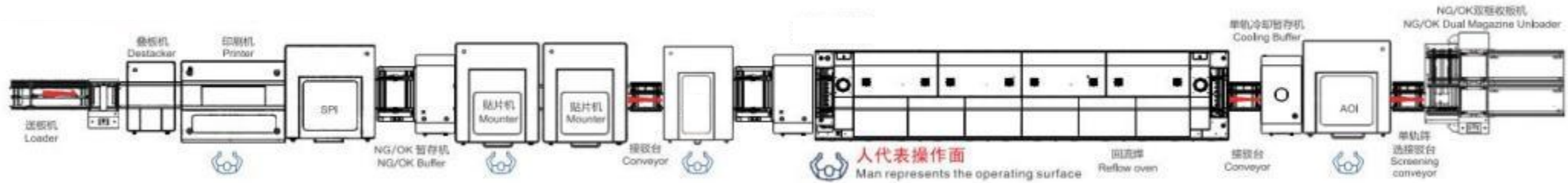
# PCBA Production Process Flow







# Production Workshop Equipment Flow



loader

solder  
paste  
printer

3DSPI  
Inspection

SMT  
Mounter  
group

SMT  
docking  
station

reflow  
soldering  
Oven

on-line AOI  
inspection

Board  
storing  
machine



插件线  
(Plug-in wire)

接驳台  
(Connecting refute platform)

无铅波峰焊  
(Lead-free wave soldering)

出板机  
(Ejector plate)

p皮带线  
(Belt wire)



# Production Equipment (partial)



13 fully automatic printing machines



13PCS 3DSPI testing machine



39 sets High-speed mounter



Intelligent first piece detector 2 sets



Reflow soldering Oven 7 sets



Automatic optical inspection (AOI)13 sets



# Production Equipment (partial)



X-RAY non-destructive testing machine 2 sets



DIP post-furnace AOI 5 sets



Computerized wave soldering 7 sets



DIP Furnace AOI 5 sets



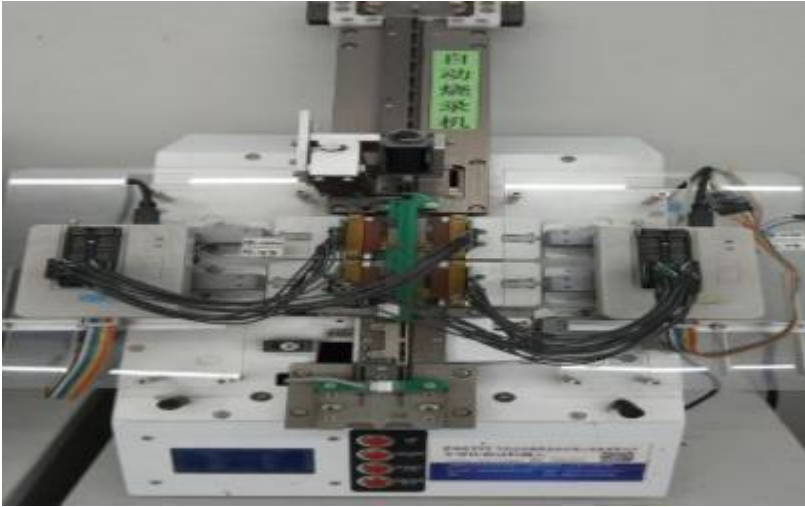
Fully Automatic Three-proof Paint Coating line 3



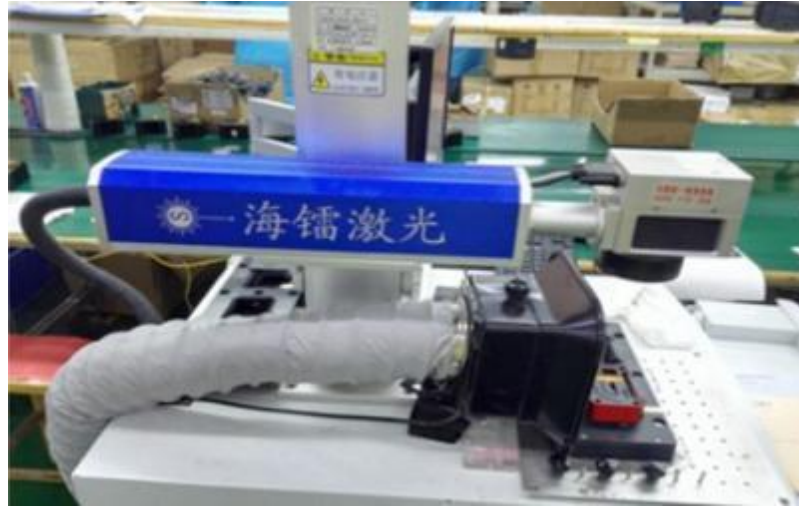
Milling cutter type divider



## Auxiliary equipment (partial)



2 Automatic Software downloader



Laser Engraving Machine



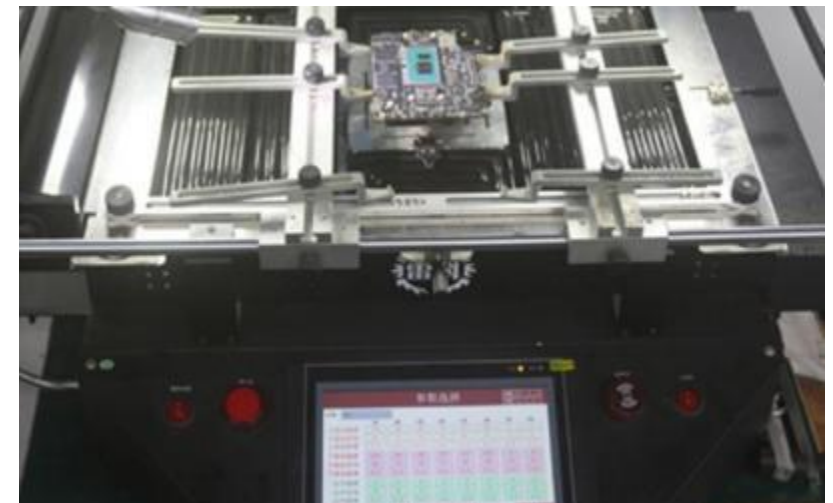
Heat Shrink Machine



4G Module Calibration Instruments



ROHS Tester



BGA Rework Station



# Laboratory Equipment (Partial)



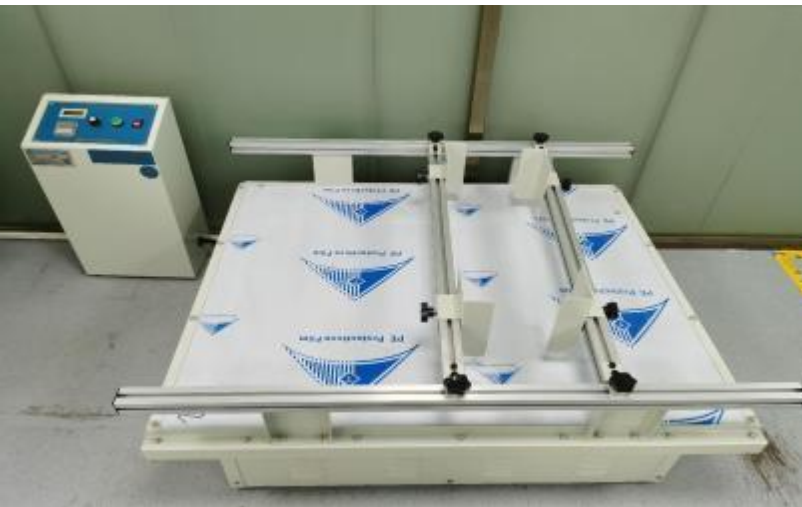
**Multi-function Rubber Friction Tester**



**Programmable constant temperature and humidity tester**



**Battery Tester**



**Simulated Transportation Shaker**



**Transistor Tester**



**Salt Spray Test Equipment**



## Production hard power - people and environment





# Quality Assurance - Management System

Haode PCBA has passed all series of quality management system, environmental management system and intellectual property management system certifications, and strictly carries out process control, data control and visualization control through Kingdee and MES system to achieve high reliability of product delivery.

**Quality Objectives**

**Production first pass rate > 99%**

**Punctuality**

**> 95%**

**Customer  
Complaint rate**

**< 0.5%**

**Lean  
Manufacturing**

**Safe production and efficient output**

**6S management: systematization, tidiness, standardization, safety, self-discipline, modularity**



## Our Customers



Haier

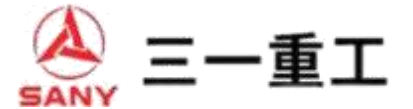
oidea

KONKA

Panasonic  
松下电器

Lenovo

SKYWORTH  
创维



大族激光  
HAN'S LASER

HOPERVN  
Information Technology  
润和软件

PHILIPS  
飞利浦



YITOA 英唐



深圳大学  
SHENZHEN UNIVERSITY



国家能源集团  
CHN ENERGY

龙源电力集团股份有限公司  
CHINA LONGYUAN POWER GROUP CORPORATION LIMITED

AISPEECH 思必驰  
专注人性化的智能语音



# THANK YOU!

Empowering the industry chain,  
making manufacturing worry-free!



**Deve Electronics(HK)Co.,Ltd**  
**Shenzhen Haode Electronics Co., Ltd**