01

Capacity Cooperation

Smart Terminal Production Line

The smart terminal lines cover SMT, device assembly, and dedicated server production—with annual capacities of 5.9 billion placements, over 3 million devices, and over 1 million servers respectively.

SMT Production Line

CEC has established 5 complete SMT production lines. Among them, the Zhuzhou manufacturing base currently has four SMT production lines and two DIP lines, with monthly capacity of 490 million points and annual capacity of 5.9 billion points. The Shenzhen manufacturing base's first phase plans to put 3 complete SMT production lines into production. As of now, 1 line has been established with PCBA monthly capacity exceeding 104,000 pieces.

The workshop has a comprehensive PM-room maintenance mechanism, plus auto-cleaning and inspection equipment, ensuring equipment precision and long-term stability. Via SAP, PLM, WMS and MES, it tracks info from materials to equipment, linking with products for full-process traceability, precise control and premium quality.

Established
5
Complete SMT production lines

Annual capacity reaches
59
100 million points

PCBA monthly capacity exceeds
10.4
10,000 pieces

Monthly capacity
4.9
100 million points

Shenzhen manufacturing base first phase planned for production
3
Complete SMT production lines





Intelligent Manufacturing Management System

The MES system connects planning and execution, integrating production planning, process control and quality management to boost transparency, enabling real-time WIP/material/product tracking, process monitoring and quality traceability.



Complete Machine Production Line

Currently has

10

Complete machine production lines

Annual capacity

300+

10,000 units

Built

660 m^2

Class 10,000 cleanroom

CEC currently has 10 complete machine production lines with annual capacity of 3M+ units, a 660 ㎡ Class 10,000 cleanroom, and has automated key processes of product assembly, testing and packaging. It owns automated equipment including automatic screw machines, internal inspection machines, laptop/tablet automation test lines, labeling machines, laser marking machines, sealing machines, weighing machines and shrink film machines. The company benchmarks industry leaders, focuses on the "four integrations" (automation, intelligence, digitalization, informatization), deepens OEM/ODM models, and has fully functional SAP, MES, PLM and WMS full-element control systems.

1. Assembly Line Automation Construction:

The assembly line has introduced intelligent equipment like automatic screw machines, internal inspection machines, startup wizard auto-click devices and pressing machines to upgrade intelligent manufacturing, maintain quality consistency, reduce work intensity and boost core competitiveness.

2. Test Line Automation Construction:

To upgrade brand influence and intelligent manufacturing, laptop and tablet automation test lines have been built. They enable automated testing of laptops' basic functions and IO ports, plus tablets' sensors, audio, cameras and coupling functions—improving product quality consistency and reducing subjective human judgment.

3. Packaging Line Automation Construction:

To meet high-end customers' quality manufacturing needs and standardize operations, the packaging line has automated equipment like labeling machines, laser marking machines, sealing machines, weighing machines and shrink film machines. Human-machine collaboration and system control enable intelligent packaging, data integration and information sharing for laptops, tablets and other products.





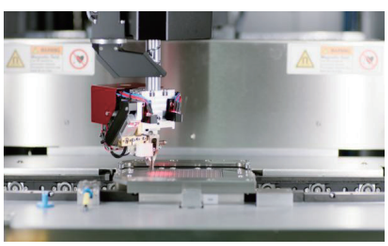
Electronic Component Production Lines

Electronic Component Production Lines: Focused on basic components, electromechanical components and integrated circuits, there are nearly 100 production lines (including 56 high-reliability ones) with an annual capacity of 20 billion electronic components.

Basic Components Sector



CEC operates 76 production lines for general electronic components, covering high-reliability diodes, transistors, FETs, IGBT devices and modules, voltage regulators, overvoltage protectors, semiconductor power modules, LEDs, optocouplers, resistors, protection components, microwave components, electronic pastes and ceramics, capacitors (tantalum, aluminum, ceramic, film), multilayer inductors and beads, power inductors, molded inductors, filters, EMI components, transformers, power dividers, baluns, bridges, couplers, piezoelectric devices, sensors, Hall current sensors, LTCC substrates, electronic modules, and functional assemblies—achieving a 90% coverage across component categories.







Electromechanical Components Sector

CEC operates 10 production lines for relays and contactors, producing miniature sealed electromagnetic relays, time-delay relays, crystal relays, balanced-force relays, solid-state relays, contactors, intelligent distribution components, gear drives and reducers, and high-voltage DC contactors. Products are widely used in high-end sectors such as aerospace and aviation, as well as in civilian applications including renewable energy, rail transit, and power grids.

With 8 production lines, the portfolio covers toggle switches, micro switches, rotary switches, special combination switches, push-button switches (illuminated and lockable), hermetic micro switches, proximity switches, photoelectric switches, light guides, joysticks, display-control modules, as well as electrical and fiber-optic connectors and limit switches. Products feature high reliability, resistance to extreme environments, and compact high-current designs, making them indispensable in defense and high-end industrial applications.

Integrated Circuit Sector

CEC operates four IC production lines, including bipolar analog ICs, thick-film hybrid ICs, plastic-encapsulated ICs, and high-reliability chip testing. It ranks among the domestic leaders in high-reliability IC packaging and provides services for IC design companies. Capabilities span five major platforms: package design, wafer middle-end processes (thinning, back metallization, and dicing), packaging, screening, and testing. Comprehensive testing and screening facilities meet IC requirements for both military and civilian applications.

