



EMPERORTECH

SHENZHEN, CHINA



COMPANY OVERVIEW

- Established in 1995.
- Dedicated for development, production, sales and service of information security products.
- Main products – Smart cards (SIM cards, Banking cards ...), Personalization system of Secure ID cards, National ID, e-passports.
- Emperor Technology owns dozens of patents, software copyrights as an industrial leader and all the R&D personnel have Bachelor's degree or above (20% Doctor's and Master's degree, 60% engineers with more than five years' developing experience).
- The company has Qualification Level 3 of Computer System Integration
- ISO9001 Certification and Production Permission of IC Card Industrial Products

PRODUCTS

CITY E-PASSPORTS TERMINALS

- JC-5100 - Contactless IC Card Taxi Charging Machine – installed in some taxi cars in Shenzhen – implemented security system with GPRS support for updating parameters, blacklists ...
- JC-5610A/B/C - Wireless Recharging Terminals
- JC-5620 - Contactless IC Card Small Fee Consume Machine Product – small e-payments terminal with built-in thermal printer.
- JC-5300PCA Portable Multi-function POS Machine – portable e-payment terminal; built-in 1D/2D barcode scanner; Bluetooth, Wifi, GPRS technology.
- JC-5200 VUM – Contactless IC Card Toll Collector Machine – applied in Shenzhen e-City passport project
- JC-5300A/B/C - Portable Contactless IC card Read/Write Instrument JC-5300A/B/C

RAIL TRANSPORTATION

- Professional Rail Transit Reader & Writer Product model JC-5000

OTHER TERMINALS

- Self-help IC Card Payment Terminal - integrates the most function of the service station, such as deposit, payment, information inquiry, etc.
- JC-5303 - Oiling Machine Module
- JC-5600J - Contactless IC Card Reader and Writer – powerful interface providing basic operations with IC Cards



EQUIPMENT

E-PASSPORT

- JC-8010P e-Passport Printer - independently developed by Emperor for the quick development of e-Passport all over the world, it is personal print system full compatible with the MRPs standard of ICAO
- JC-7100 - e-Passport Laminator – auto laminating machine, complement for JC-8010P
- JC8000 - ePassport Personalization System – Emperor design of fully automated machine for printing and laminating e-Passports. Capacity 120 passports per hour. Currently used in PRC.

IC CARDS PERSONALIZATION

- JC-8200 - IC Card Personalization Issuing System – Emperor design and development providing card reading, card writing, laser graving, counting program, inspection, discarded cards rejected functions
- JC-6200AL Auto IC Card Inspection/Sorting Machine
- JC-6200F Multi-Function High Speed IC Card Issuer – speed 6000 pcs per hour
- JC-6200D High Speed Contactless IC Card Issuer – speed 3600 pcs per hour

RAIL TRANSPORTATION

- Token Metro Encoding and Sorting machine
- Ticket Encoding & Sorting Machine (Large Size)

CARD COUNTERS

- Four different types of card counters

CARD WASHER

- JC-7100 IC Card Washer is special wash & sanitize equipment for IC Card – up to 5000 pcs cards per hour.



PRODUCTS AND EQUIPMENT GALLERY





TECHNICAL ASPECTS OF PRODUCTION

- High software hardware integration level
- Exquisite hardware choice
- Custom made technical/mechanical design of machines
- Modeling in 3D – using for manufacturing and documentation
- Custom mechanical components made by high precise CNC tools
- Emphasis on reliability of product – reliability tests; efficient working technique reduces human mistakes

REFERENCES

- Passport personalization for Public Republic of China
- Voting cards Nigeria
- Shenzhen metro
- Shenzhen e-City Project

SOURCES

- 3 day survey visit in factory has been done by Mr. Pascal Saken, Pavel Novak, Petr Janecky
- Emperortech website <http://xiongdi.cn>