

# FUJIAN TORCH ELECTRON TECHNOLOGY CO., LTD.



<http://www.torch.cn>





# About us



- Established in 1989 with overall quantity of employee is 1382, including 350 technical personnel;
- The existing plant covers an area of 163,290.3 square meters;
- There are seven production bases, including four capacitor production bases;
- Main products are MLCC、tantalum capacitor 、 ceramic powder、 super capacitor and ceramic fiber;
- Company total sales amount of 2017 is 1.89 billion RMB. In 2018, the group's sales amount reached 2.02 billion RMB.





# Listed company

Torch electronics successfully listed on the main board of Shanghai Stock Exchange on January 26, 2015.







# Torch Electronics 30th Anniversary Celebration

Torch electronics celebrated its 30th anniversary on November 19, 2018. In order to celebrate this historic moment, the company organized a grand celebration with the theme of "inheriting 30 years of glory and creating century-old Torch".





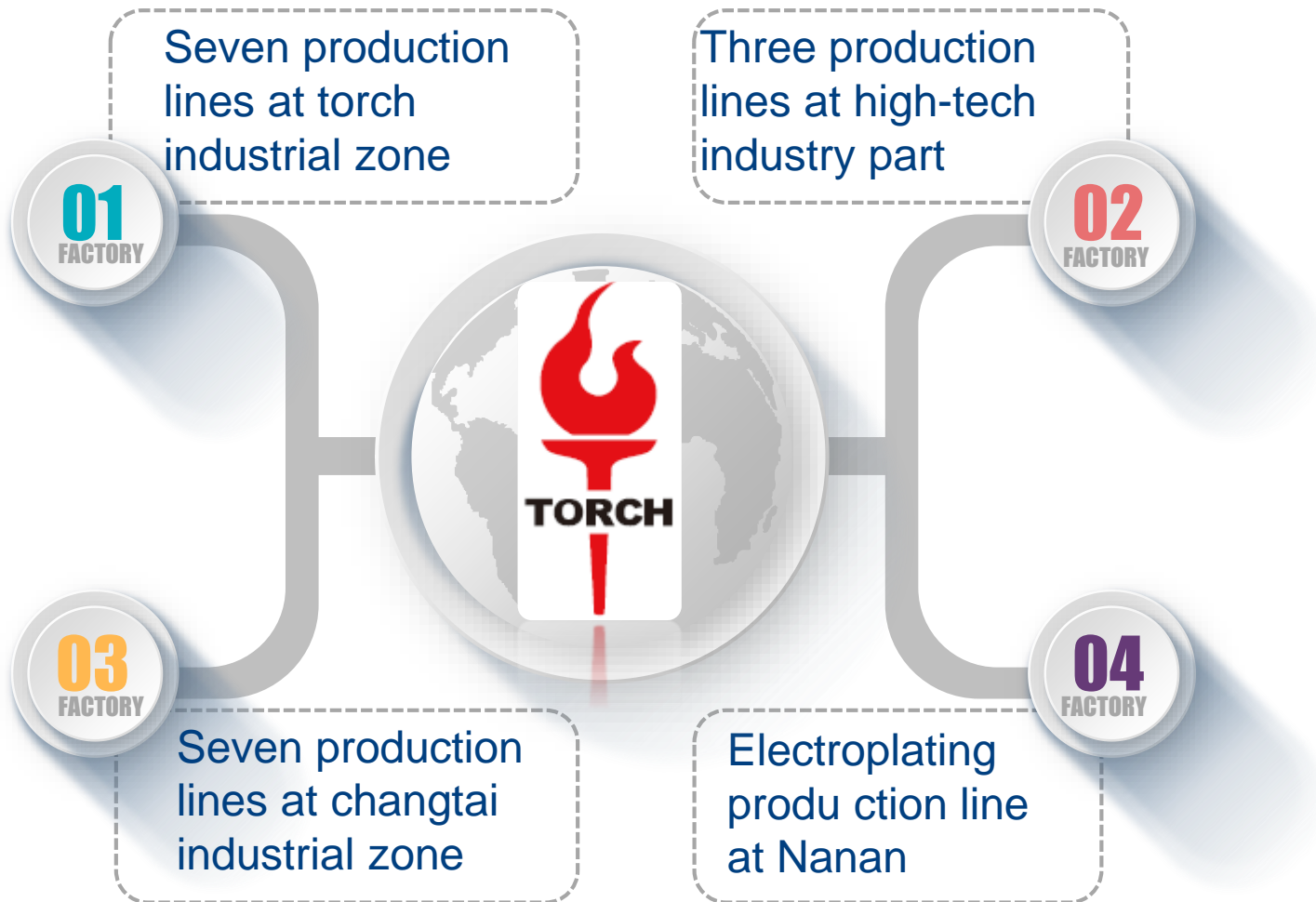
## Establishment of Shanghai functional center

2018 marks the 40th anniversary of China's reform and opening-up. Torch electronics Shanghai functional center was officially opened on Nov 11, presenting a tribute to the innovation and development of China's leading electronic components enterprises.



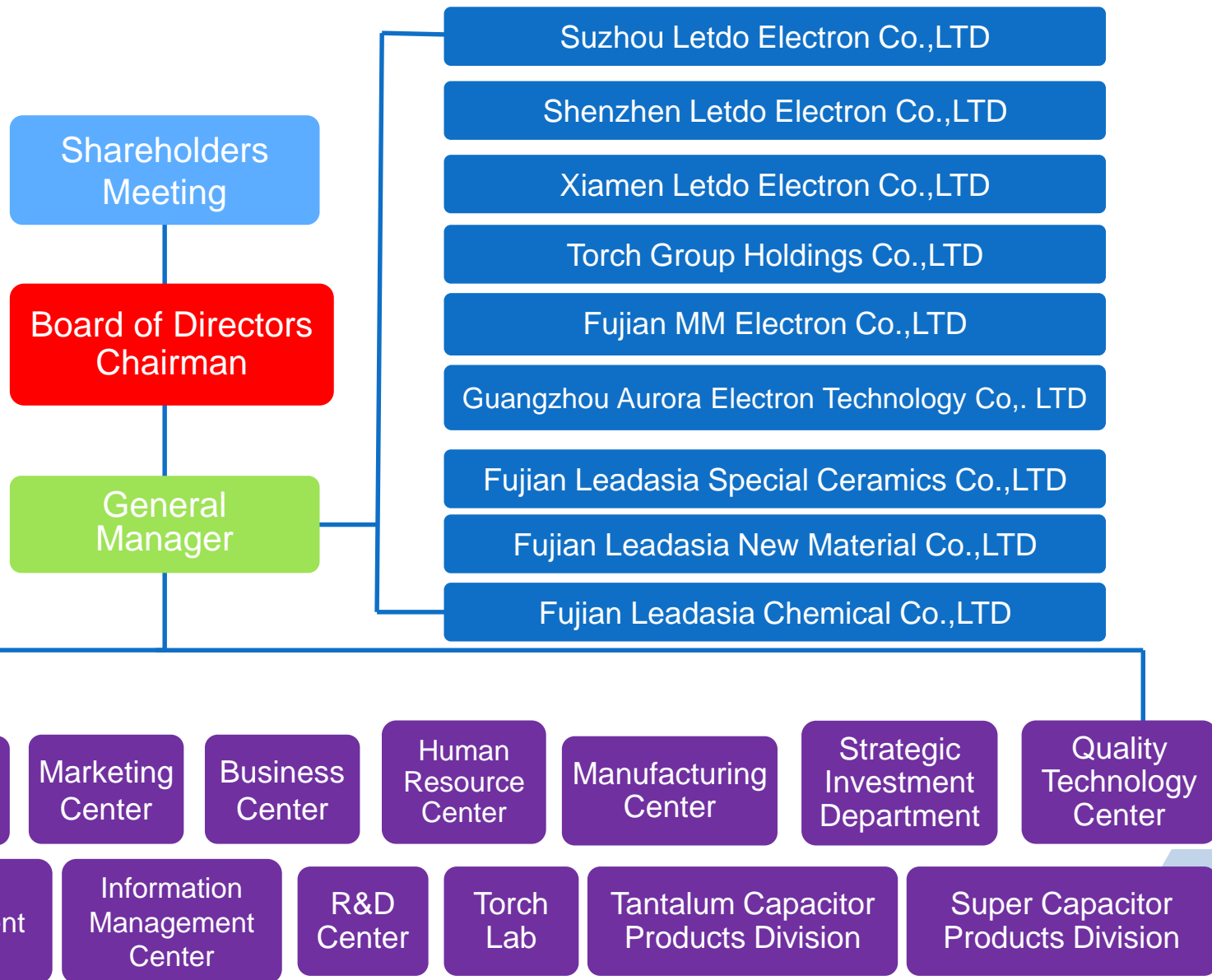


# Capacitor production bases





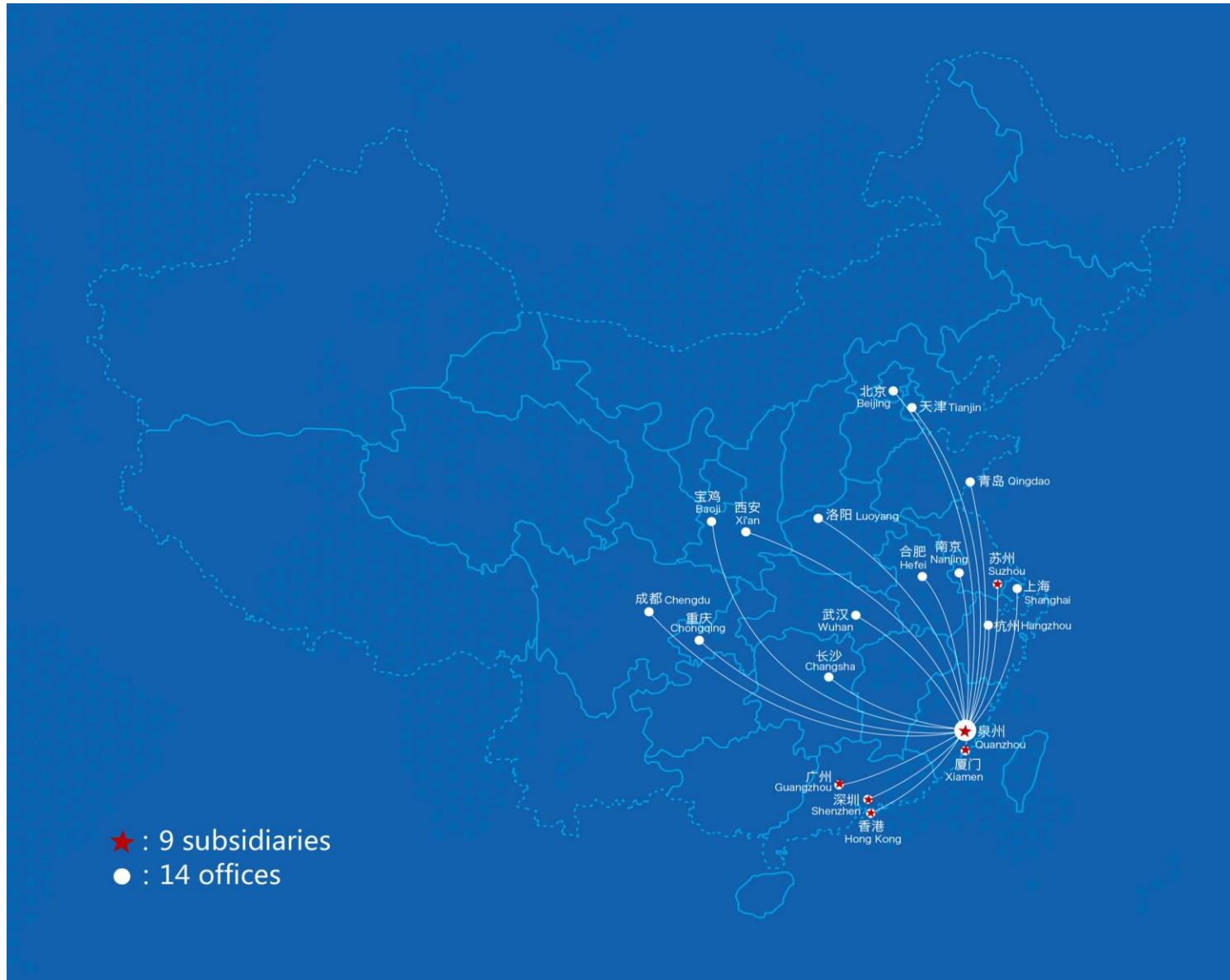
# Organization chart







# Regional Distribution







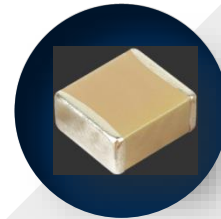
# Product plan

The company is dedicated to develop further on the basis of the in-depth study of capacitor technology, which are

Ceramic powder



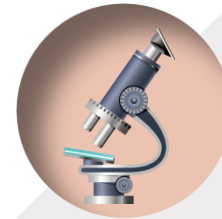
Customized capacitor



Torch  
Research institute



Product  
diversification



Automation  
equipment  
manufacturing





# Qualifications



Occupational Health and  
Safety Management System



Quality Management  
System



Social Accountability  
Management System



体系认证

Qualified Lab by China National  
Accreditation Service for  
Conformity Assessment



Environmental  
management System



RoHS  
Compliant



REACH  
Compliant





# Company honors

- Won the 58<sup>th</sup> of China's top 100 electronic component enterprises in 2017.
- On the list of 2018 Chinese brand value evaluation information.



2018品牌价值评价信息发布名单

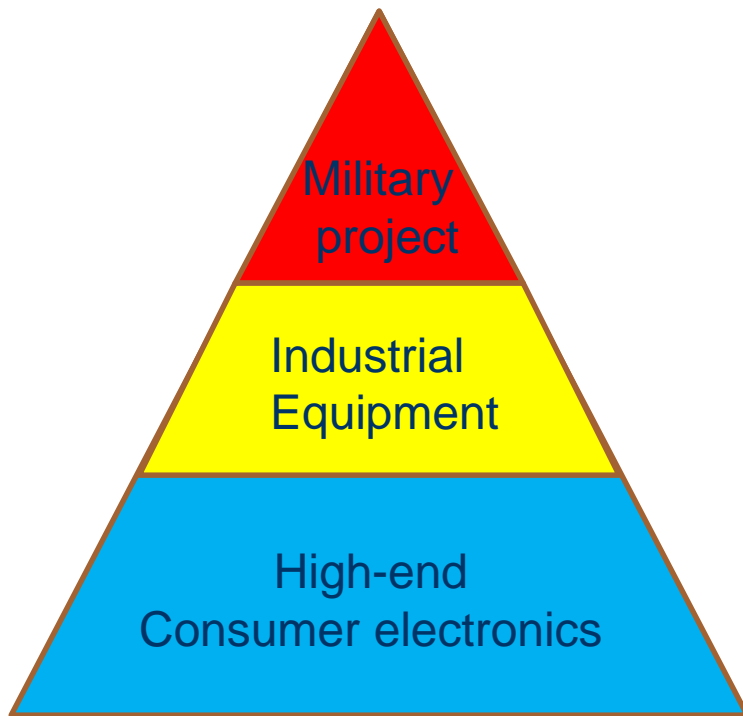
自主创新（82家）

40	湖北菲利华石英玻璃股份有限公司	757	9.31
41	圣邦微电子（北京）股份有限公司	646	9.20
42	百润（中国）有限公司	629	9.01
43	广东新华粤石化集团股份有限公司	635	8.98
44	福建火炬电子科技股份有限公司	791	8.95
45	江西金虎保险设备集团有限公司	846	8.87
46	福建省优拓贸易有限公司	606	8.54
47	四川一名微晶科技股份有限公司	686	8.32
48	福格森（武汉）生物科技股份有限公司	636	8.27





# Market Positioning



Top three market positioning:

- **Military project** :

Spaceflight 、 Aviation、 Nuclear industry  
、 Weapon、 Shipbuilding Industry 、  
electronic countermeasures, etc;

- **Industrial equipment**:

Rail transit equipment 、 Medical  
electronic device、 instrument 、  
Industrial mechatronics、 Power supply、  
Automotive Electronics , etc;

- **High-end consumer electronics**:

Appliances、 Video devices、 Television  
、 Digital camera、 mobile phone , etc.



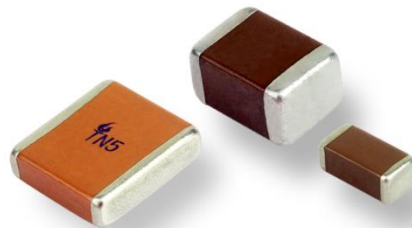


# Main products

- **Main product 1:** Multilayer ceramic capacitors
- **Three series:** Radial leads, Chip, Molded surface mount ceramic capacitor assemblies
- **Brand:** Torch



Radial leads  
ceramic capacitors



Multilayer ceramic  
chip capacitors



Molded surface  
mount ceramic  
capacitor assemblies





- **Main product 2:** Tantalum capacitors
- **Five series:** Showing as below
- **Brand:** Torch



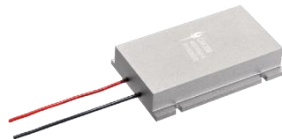
CA55 Series



CAK36 Series



CAK38/CAK39 Series



CAK36M Series



CA45 Series







# Main products

- **Main product 3:** Electric double layer capacitors
- **Six series:** Showing as below
- **Brand:** Torch



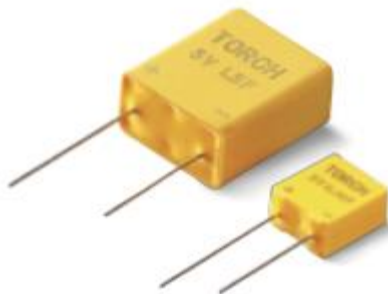
CSD01 Series



CSD03 Series



CSD05 Series



CSM01 Series



CSM02 Series



CSM03 Series





# Our customers

**Goertek®**

**TPV**

**EAT•N**  
Powering Business Worldwide

**NARI**  
国电南瑞科技股份有限公司  
NARI Technology Development Co., Ltd.

**STAR-NET**  
星网锐捷

**FiberHome**  
烽火通信® 光通信专家

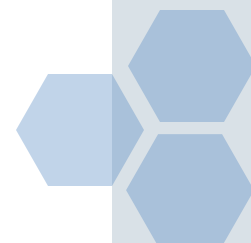
**WINGTEC**  
PROFESSIONAL SOLUTIONS

**中国中车**  
**CRRC**

**HIKVISION**  
海康威视

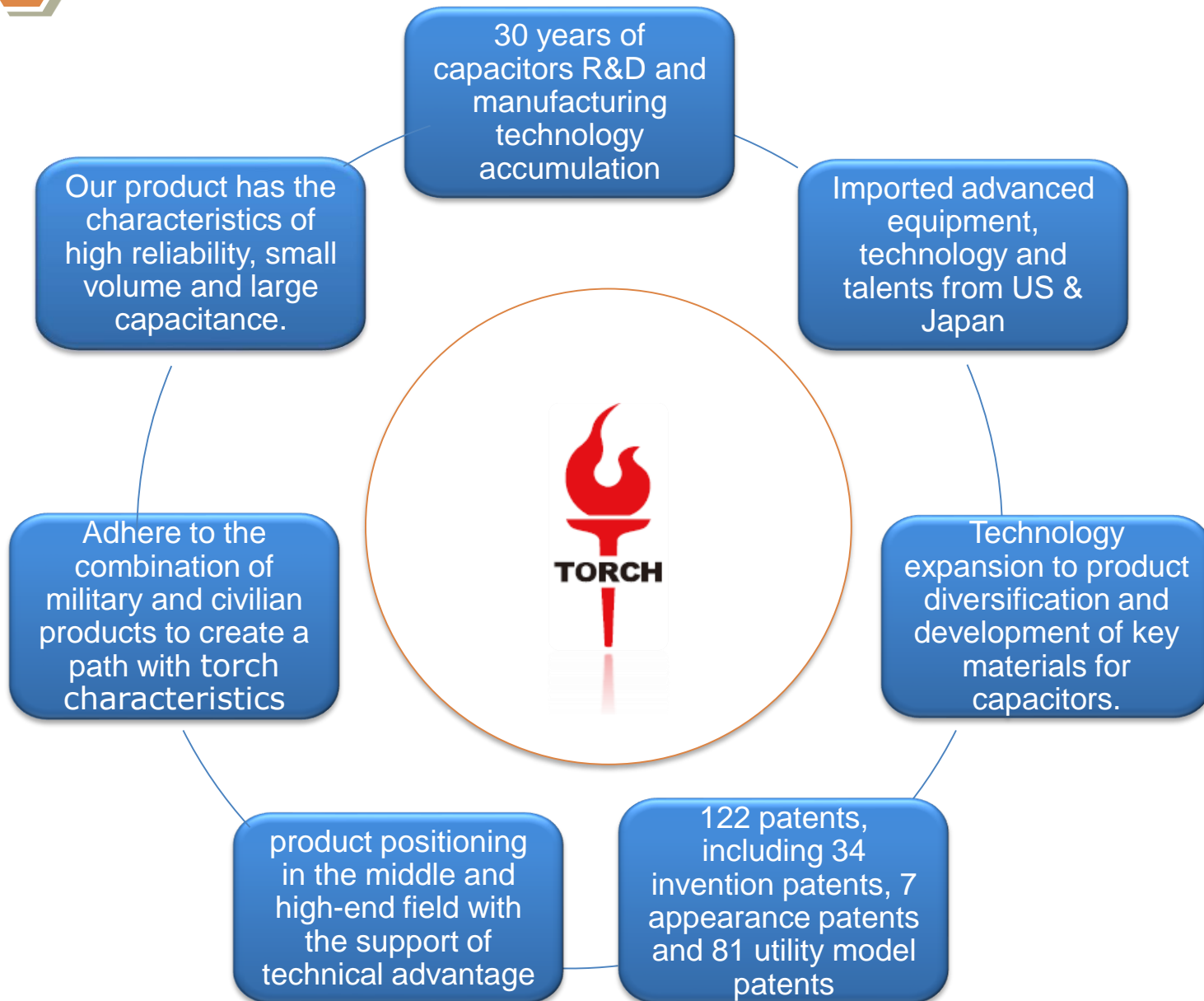


**SK**





# Technical advantages







# Technical advantages

## ➤ Reliability research

Torch lab is qualified by China National Accreditation Service for Conformity Assessment(CNAS) and has the analytical ability to the reliability of capacitors. We pay special attention to the design of reliability module from product design & development phase , including structure design, material design and process design, etc. We assess strictly through structure analysis、 Limit validation、 first pass yield for multiple lots to master the limit and technical stability of the product.





# Technical advantages

## ➤ Failure analysis research

We found that more than 80% of the failures were caused by improper use of product based on our statistical analysis results. We are not only need to help solve the problems, but also need to make sure other customers will not have the similar problems. So we started to collect data and information of the failures our customers met to build up and expand out database over the years. Our marketing team will communicate with customers in advance during product promotion and selection to prevent the reoccurrence of similar failures.





# Professional advantages

## ➤ Product application research

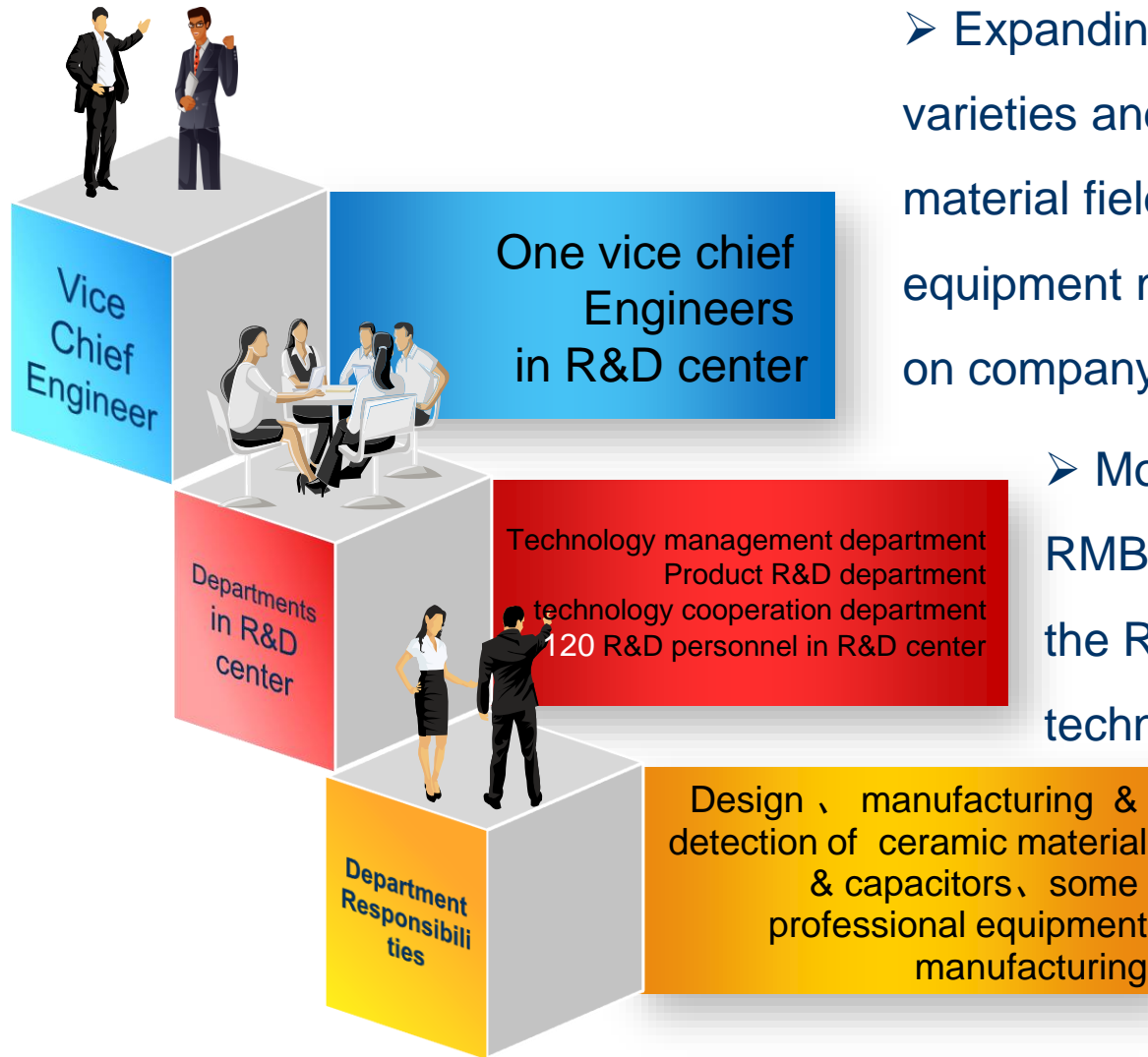
More and more new products have been developed with the accumulation and progress of our technology. However, our customers facing some problems in the trial of new products although our product performance and reliability meet customer's requirements. So Torch specially set up a team to help to solve the problems in many fields and has accumulated many successful experience of our product applications.







# R&D Capability



➤ Expanding the capacitors varieties and extending to the material field & professional equipment manufacturing based on company innovation strategy.

➤ More than 30 millions RMB is invested yearly in the R&D and new technology projects.





# Quality Assurance

Quality management department is responsible for the plan, implement & supervision of quality management system.

Quality center exercising its quality powers independently.

55 staff in quality center which including 12 quality management personnel & 43 QC



Leaded by quality director and there are quality assurance leaders





# Quality Assurance

Torch always adheres to the quality policy of “professional, dedicated and helping clients to success” . Quality management systems are set up to control incoming inspection、 manufacturing process and outgoing inspection to ensure quality stability and reliability of our products.

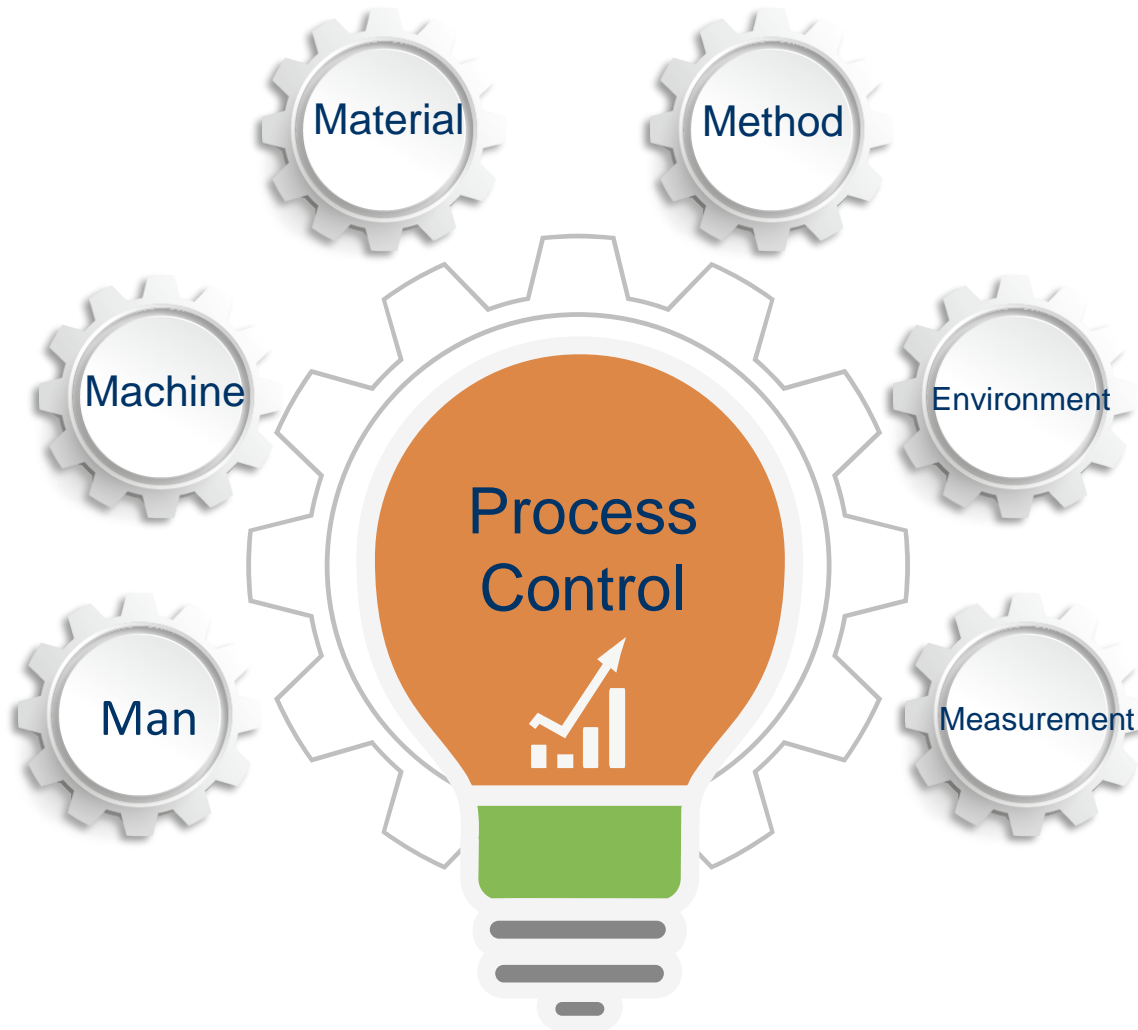
## ➤ Incoming inspection





# Quality Assurance

## ➤ Process Control





# Quality Assurance

## ➤ Outgoing inspection

Types of product outgoing inspection:

- Production identification test (mainly for new products) ;
- Lot by lot inspection/Periodic test;
- Screening test;
- outgoing test;
- Additional test requested by customer;
- customer supervision & acceptance inspection ;
- Product after-sales services;

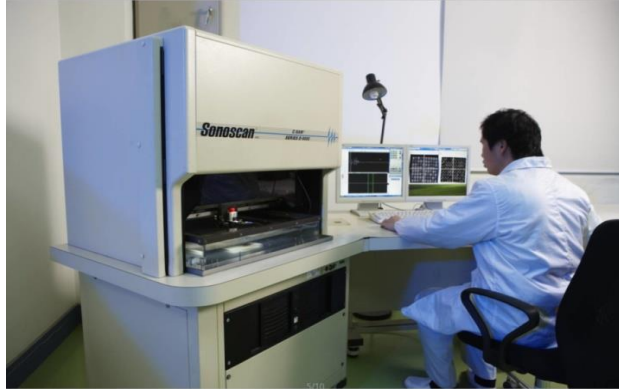
The above inspection are done based on our internal standard which are stricter than international standard or customer requirements.







# Detection & Inspection capability



Our laboratory specialized in capacitors testing, screening, reliability analysis, failure analysis and other research and practical works. Main testing equipments are Ultrasonic scanning microscope、

Destructive physical analysis (DPA) grinding and polishing machine、  
Metallographic microscope 、 Scanning electron microscope、 x-ray scanner, etc.





# Product Packaging

We have different types of product packaging to meet different customer requirements, which showing as below:



**Bulk**  
(mainly for case size less or equal to 1210)

**Box-packed**  
(for Hermetically sealed high energy tantalum capacitor)

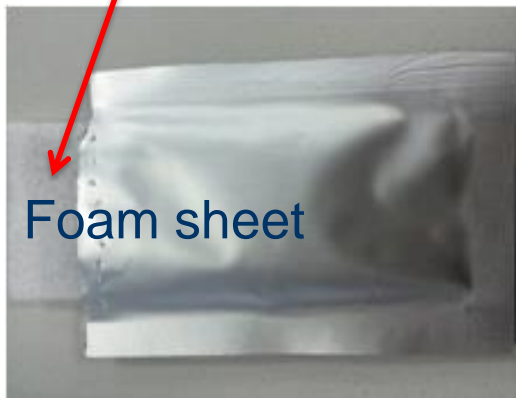
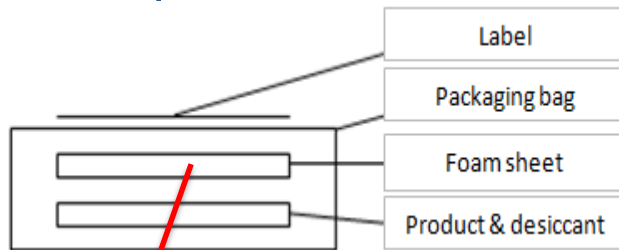
**Waffle**  
(mainly for case size more than 1210)

**Reel**  
(mainly for customers with automation requirements)



# Product Preservation

Our product preservation is planned according to the international standard、 product features and customer needs, to ensure that the product is effectively protected during handling, packing and transportation.



lowest-level packaging bag



Box



Carton



# Second & Third party audits in 2018



## 71 second party audits

Including China  
CRRC Corporation  
Limited、Haier  
Group、Sungrow  
Power Supply Co.,  
Ltd. , etc.



## 4 third party audits

Including  
CEPREI Certification  
Body、Bureau  
Veritas Certification  
Center、China United  
certification center,  
etc.

---

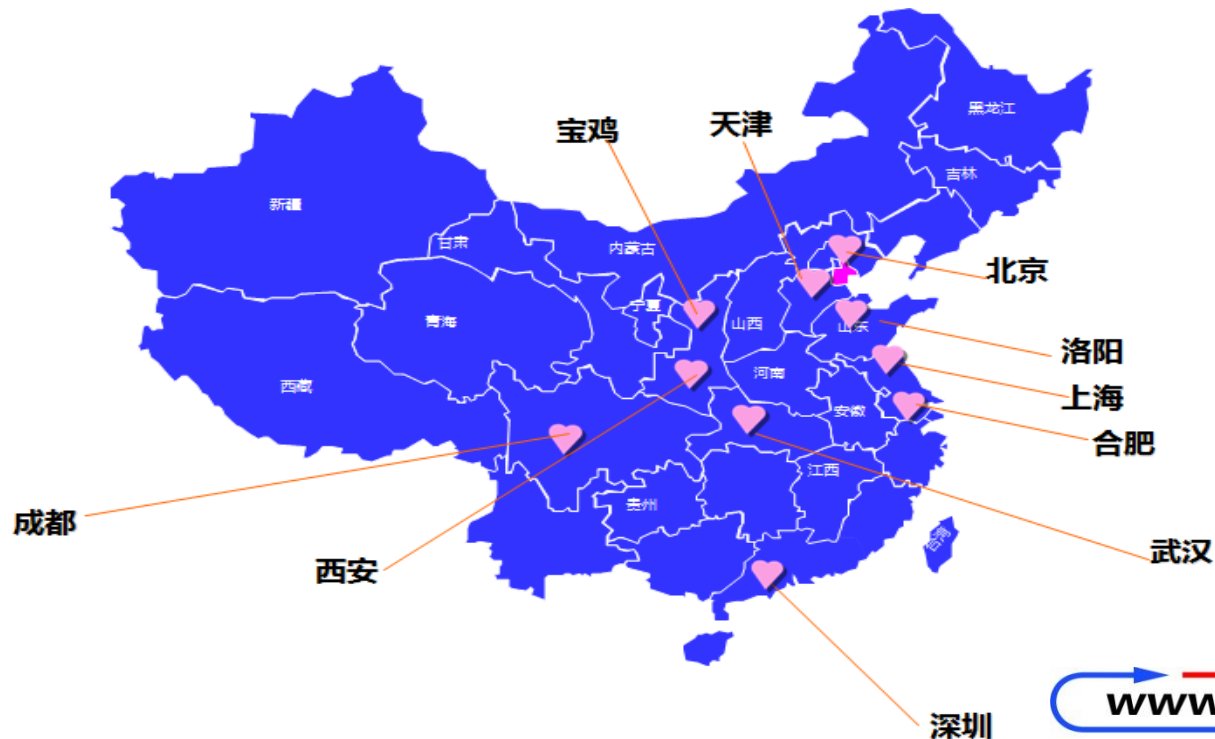
The above customers & certification centers have carried on comprehensive audits from quality management system operation、production capacity、product quality、inspection、customer service、social accountability management 、environmental management 、occupational health and safety management and so on. Finally all give consistent affirmation to the management、products and reputation of Torch.





# Our services

Torch has branch company in Beijing & Xian, several offices in Shanghai, Shenzhen, Chengdu, Wuhan, Luoyang. Each sales region has regional manager, account manager and field application engineer. Yearly technical exchange seminars, pre-sales and after-sales services will be held based on our technical promotion plan and customer requirements.







# Our expectation

The sales amount of Torch has steadily increased at an annual rate of 28.65% on average over the past three years. Company had set up “International Trade Department” in 2017 in order to expand the oversea market and provide better services for overseas customers. At the same time, we also seek for long-term, stable and cooperative strategic partners worldwide.



# Thanks

