




3AAA[®]

Shenzhen Hengyao Lighting Technology Co., LTD.

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Company Profile

As a National High-tech ISO9001:2015 Enterprises. Hengyao Lighting was found in 1993, develop, produce and sell LED drivers, electronic ballasts and other lighting control devices.

Products are certificated to CE, RoHS, TUV, CB, ENEC, Nemko, SAA, RCM, SASO and CCC, UCKA.



Company Profile

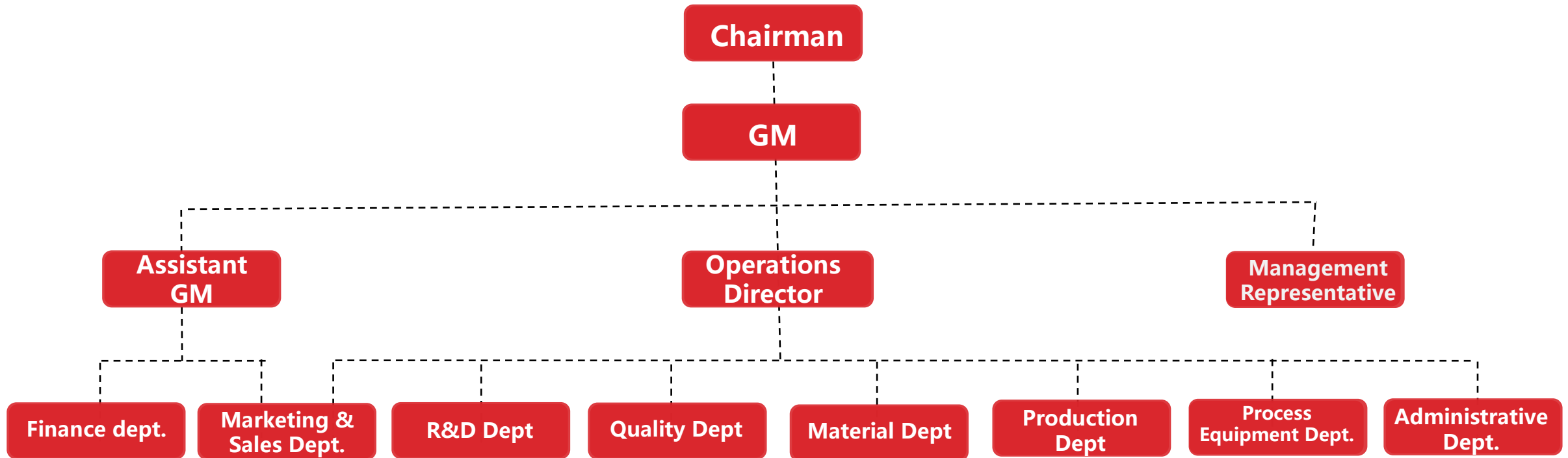
History

| | |
|-------------|---|
| 1993 | Hengyao Electric Apparatus Co., Ltd. was found on 1st December. |
| 1994 | High efficient tri-chromatic lamp released. |
| 1998 | Electronic ballast for fluorescent lamp released, CGW certificated. |
| 2001 | As the first batch of electronic ballasts who get the CCC approval |
| 2003 | ODM cooperation with one of the two leading brands, became the first ODM manufacturer for its electronic ballasts. |
| 2004 | ISO 9001 quality management implement |
| 2010 | Changed name to Shenzhen Hengyao Lighting Technology Co., Ltd; Provided 100,000 electronic ballasts to Beijing Olympic venues |
| 2012 | Was rated as a national high-tech enterprise |

| | |
|-------------|---|
| 2013 | Our new LED drivers and microwave motion sensors released |
| 2014 | Finished the many certificates for all led driver models |
| 2015 | Dali dimmable LED drivers are developed |
| 2016 | The first factory to launch DALI management dimming voltage products |
| 2017 | Full launch of various dimming products |
| 2018 | Updating(by 2018, the company has developed for 25 years) |
| 2020 | Launched 24V constant voltage phase-cut and 48V constant voltage |
| 2022 | Awarded the honor of "Shenzhen Famous Brand" and launched non-isolated DALI series products |

Company Profile

Organization



Company Advantage



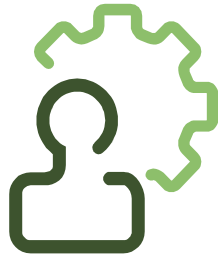
R&D Investment and Design Verification



Invest 200,000 USD in
2017



27 patents



12 engineers

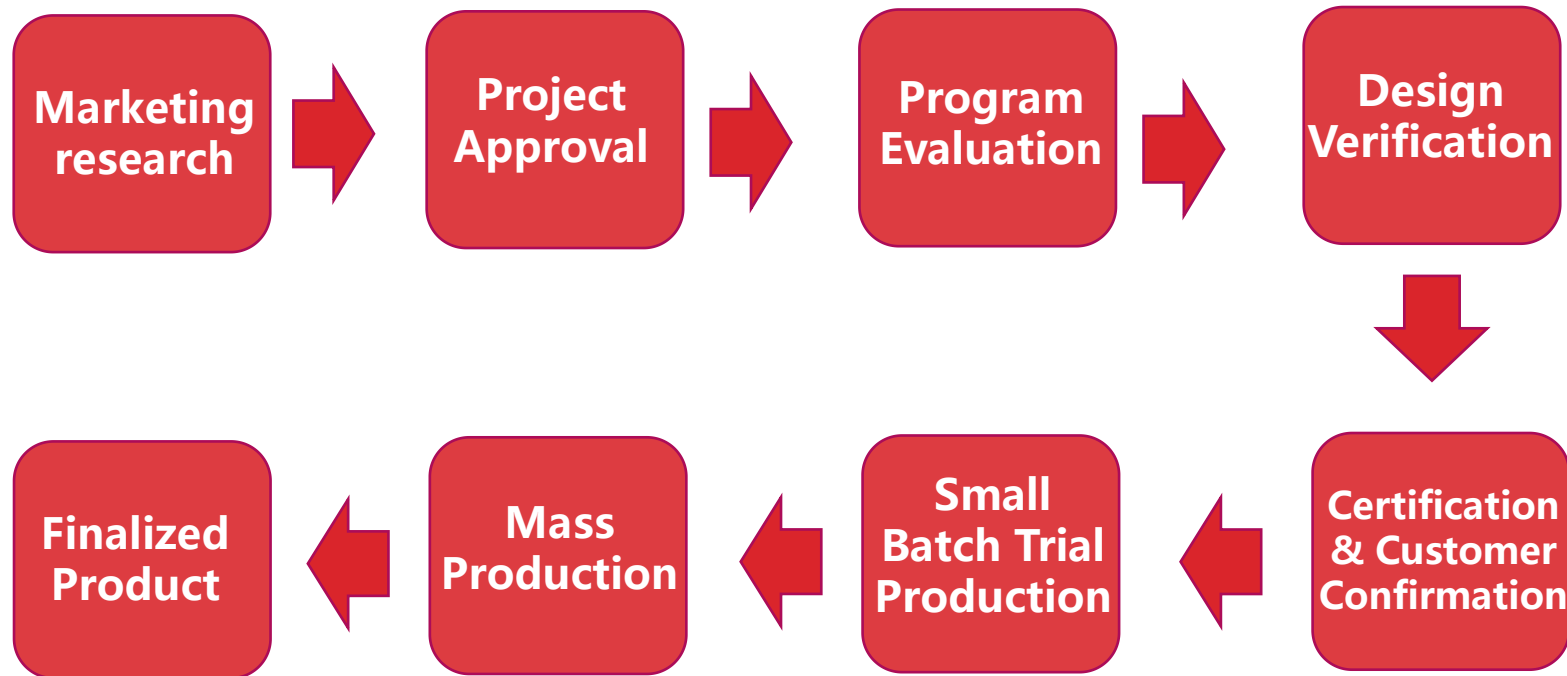


Advanced testing equipments

Company Advantage



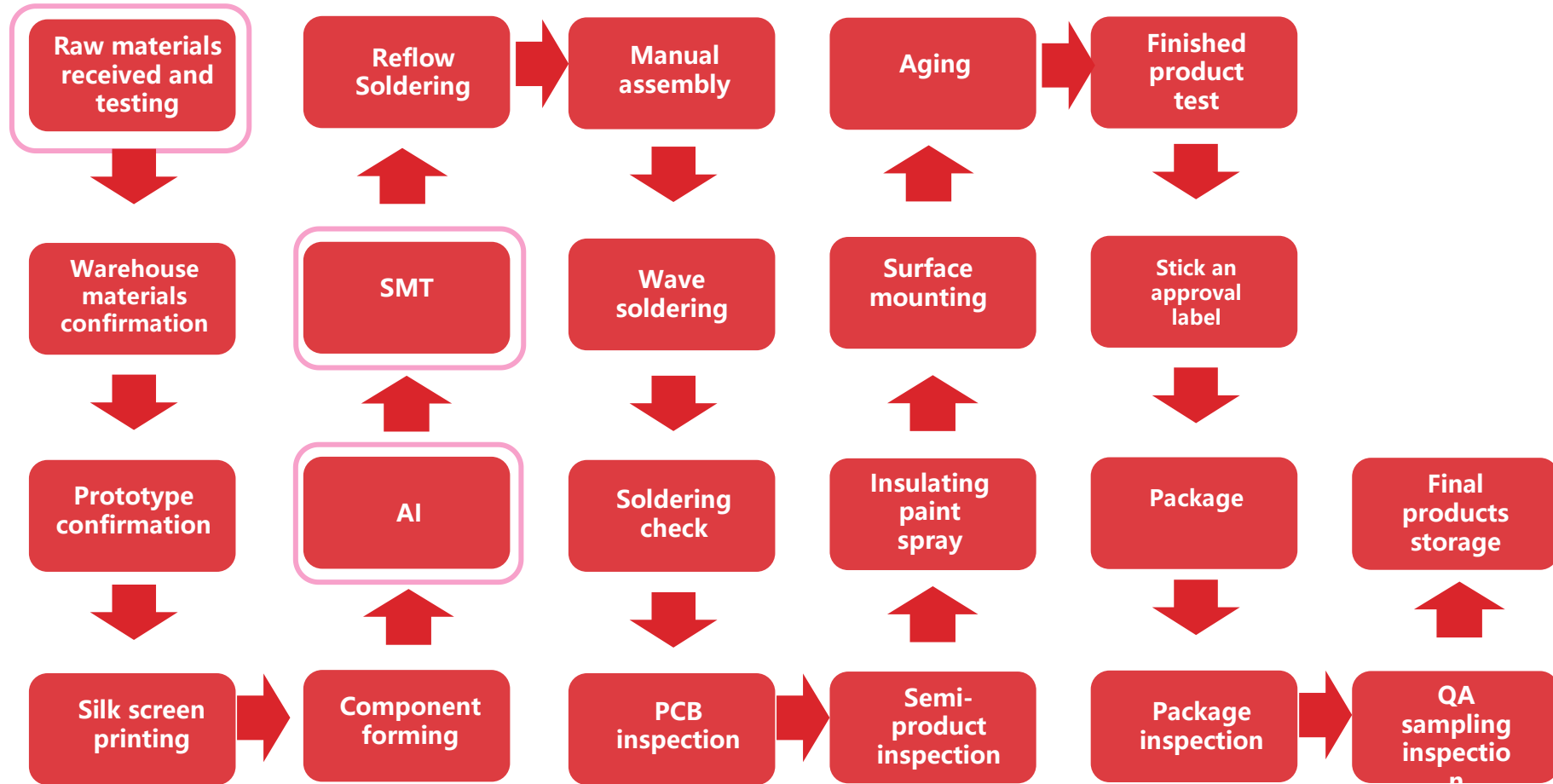
Product Development Process



Company Advantage



Production Process



Company Advantage



Production Line & Equipment



**AI plug-in
production line**



**SMT surface
mounted line**



**Reflow
soldering**



**ATS-200A
Test machine**



**Aging
room**

Production capacity

- 60% automated production :
 - 4 units AI machine(US global brand)
 - 3 SMT lines(German Siemens brand)
 - 2 Manual production lines
- 8 hours production capacity:
20,000 units
- One product qualified avg. rate $\geq 99\%$ in each product line
- Product completion on schedule avg. rate $\geq 99\%$



Manufacturer introduction

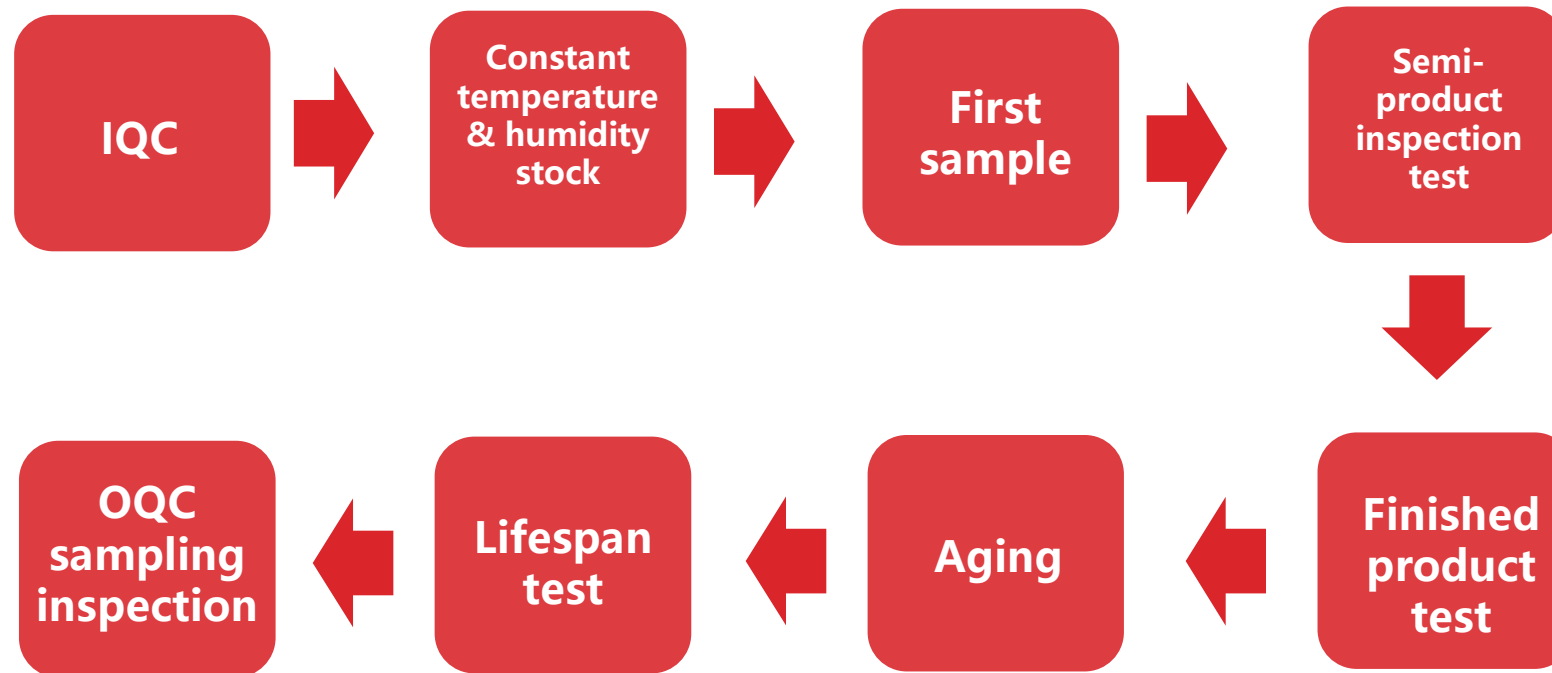


- 8000m² manufacturer with 4 production lines
- Warehouse, aging area and QC testing rooms cooperate closely with production lines

Company Advantage



Quality Control



Company Advantage



Laboratory & Equipment



EMI test machine



EMI test room



High & low temperature test chamber



Light color electric comprehensive test system



Surge comprehensive tester



High temperature test chamber

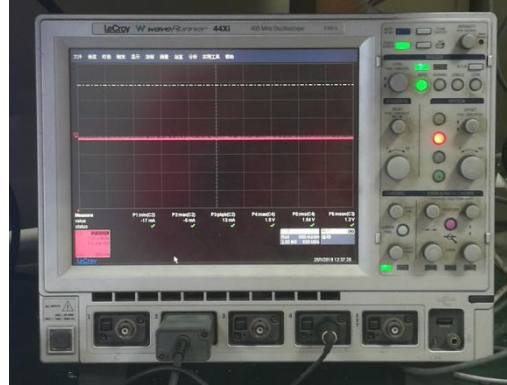
Company Advantage



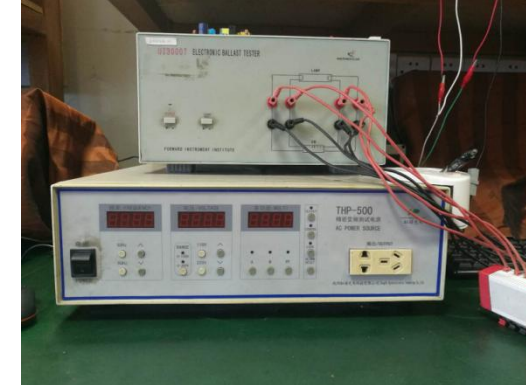
Laboratory & Equipment



Lamps test room



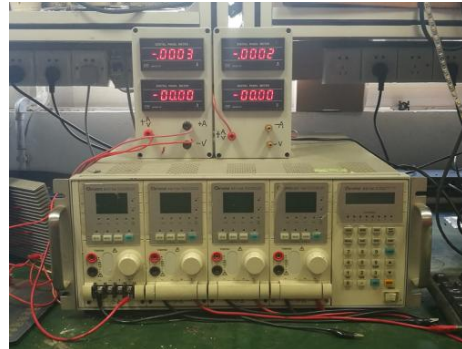
LeCroy Oscilloscope



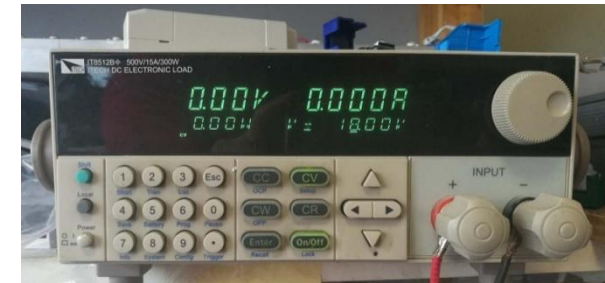
Precision frequency
conversion voltage
tester



Cycle sag simulator



Chroma Electronic load



Electronic load machine

Laboratory

- Our own EMC testing includes electromagnetic compatibility (EMC), electromagnetic emission, and electromagnetic immunity. Also we have safety tests such as lightning surge test as well as CRI and lumen tests.
- Simulation testing including a series of abnormal testing (eg. broken filament test), switch on/off test(8000 times), longevity testing(the five longest electronic ballasts are from 9 June, 2005, more than 18 years).



Company Advantage



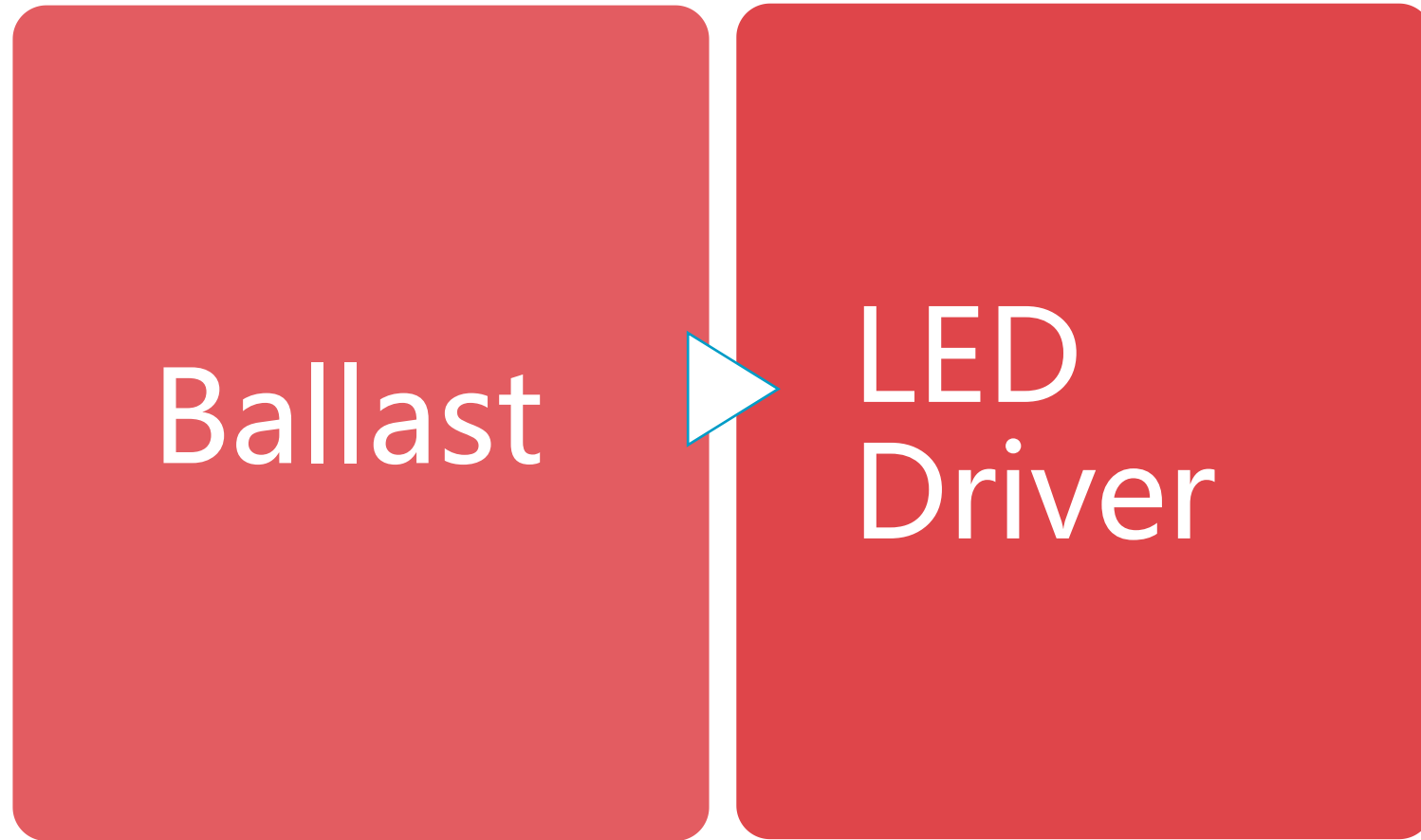
Cooperative Certification Institute



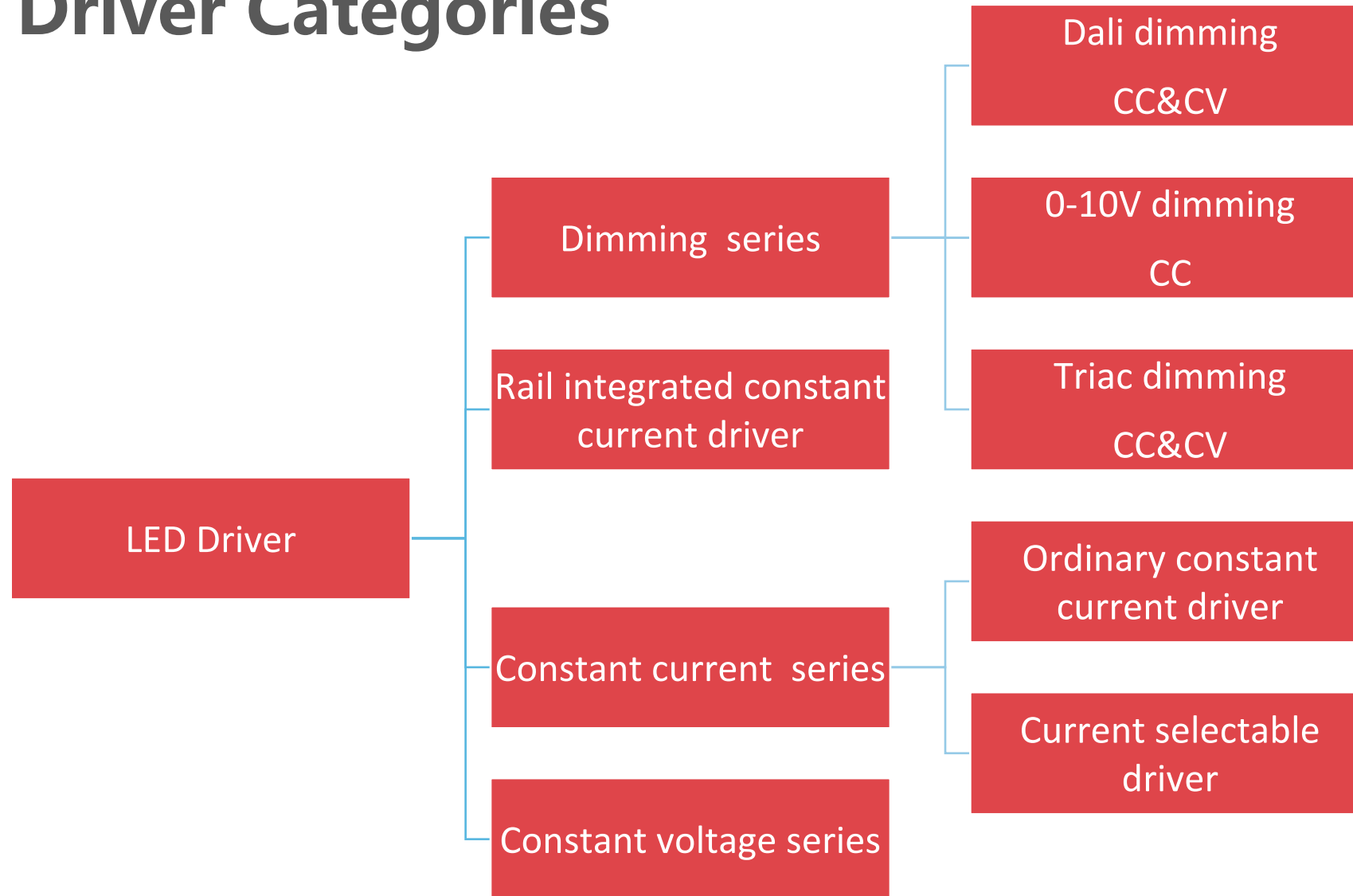
中国质量认证中心
CHINA QUALITY CERTIFICATION CENTRE



Product Categories



LED Driver Categories



Successful Cases



- Beijing Olympic Games benefitted more than 100,000 ballasts from 3AAA, which was selected in cases for its high quality and longevity.

Successful Cases



- 200,000 products used in Beijing international airport, Zhengzhou airport, Wuhan metro station and other public transportation projects.



- 140,000 products used for outdoor advertising in France, while 100,000 units for hospitals in Saudi Arabia.

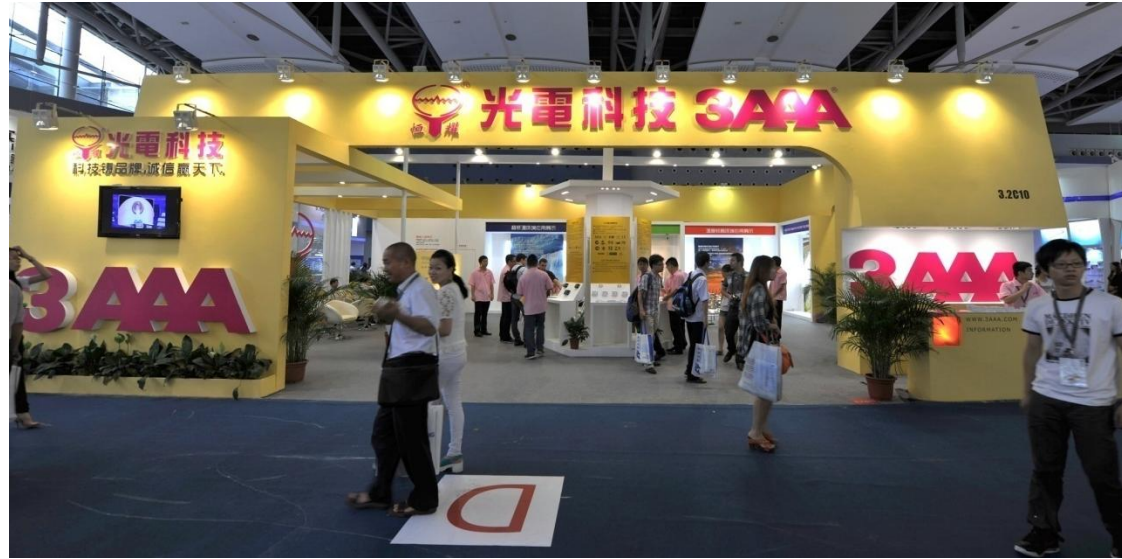
International marketing

- Attend Light+Building exhibition every year and we have maintained good relationship with our customers.
- Our products are exported to United Kingdom, France, Spain, Hungary, Turkey, Saudi Arabia, South Africa, Singapore, Malaysia totally 50 countries and regions.
- Overseas market covers **70%** business.



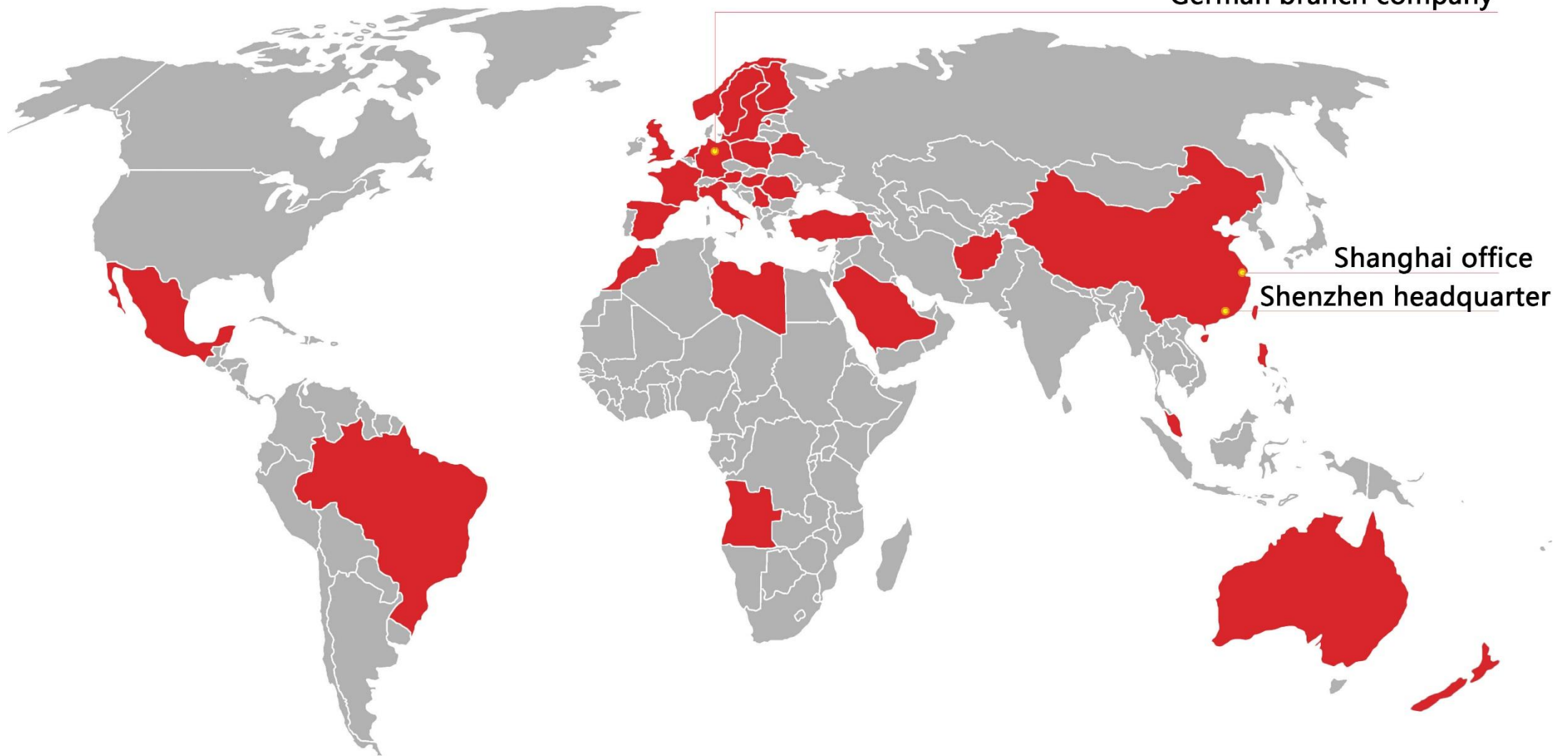
Chinese marketing

- For one of the biggest fair in the world, Guangzhou International Lighting fair, we owned a booth around 150m² and well received customers from home and aboard.
- We aim for high end projects and mid-high end domestic markets.



Sales Market

German branch company



Shanghai office

Shenzhen headquarter

Sales market covers Europe, Asia, Oceania, America, Africa

Vision & Forecast

Looking into the future, the company will always take the responsibility of developing a green lighting electronics industry and promoting the development of a global low-carbon economy, creating more value for the society. We will continue to work hard in this area we love, and constantly improve the after-sales service system to create more cooperation with Chinese and foreign customers.

