

Company Introduction/



Focus

Innovation

Breakthrough

Changzhou Tonghui Electronic Co., Ltd



Company profile

- Founded in 1994, registered capital of 16 million USD
- The leading enterprise in electronic component measuring instruments in China
- Listed on the Beijing Stock Change in 2021 with stock code 833509
- R & D personnel accounted for 25%, and annual R & D investment accounted for more than 11%
- •In 2022, the turnover is 28 million USD



Enterprise honors and qualification

- National High-tech Enterprise; Jiangsu Small Giant Enterprise
- Jiangsu Engineering Technology Research Center of Magnetic Components Measuring Instrument
- Jiangsu province Industrial Design Center
- The second prize of Science and Technology award of China machinery Industry.
- Awarded for the third prize of Jiangsu Science and Technology Progress for 3 times.
- Jiangsu special fund project for transformation of scientific and technological achievements.
- Led two science and technology projects in Jiangsu province.
- Obtained SME innovation fund of the Ministry of Science and Technology for 2 times.
- The first prize of Jiangsu Innovation and Entrepreneurship competition.

The first, second and third prizes of Changzhou Innovation and Entrepreneurship Competition

• 54 authorized patents including 25 patents for invention, 37 pending patents, 58 software copyright.













Enterprise honors and qualification









- 1. National Concern Enterprise
- 2. Provincial"EnterpriseTechnology Center"
- 3. Second Prize of
 Scientific and
 Technological
 Progress Award
- ChangzhouWorker Pioneer



Enterprise R&D Platform

Provincial R&D Innovation Platform

- ▶ Jiangsu Provincial Enterprise Technology Center
- ▶ Jiangsu Provincial Engineering Technology Research Center
- ▶ Jiangsu Industrial Design Center
- ▶ Jiangsu Provincial Military-civilian Integration Innovation Platform
- Industry-university-research cooperation innovation platform



▷ Southeast University:

Advanced Power Chip Testing Technology Joint R&D Center



▶ Jiangsu Institute of Technology:

Micro Signal Test Engineering Technology Research Center











Enterprise qualification





• IS09000:2015 • IS014000:2015

The history of enterprise development

Year 2002

ISO9000:2000 quality management system certification

Year 2008

CMMI Software Management International certification

Year 2015

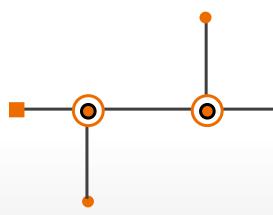
Listed on the New Third Board Base tier (Stock code : 833509)

Year 2019

Identified as "Provincial Specialized Little Giant Enterprise" and "Provincial Engineering technology research center".

Year 2021.9

Moving into the new factory



Year 1994

Tonghui founded with 7 people.

Year 2003

Identified as "High-tech enterprise" by Jiangsu Science and Technology Department

Year 2012

Restructured into a shareholding company

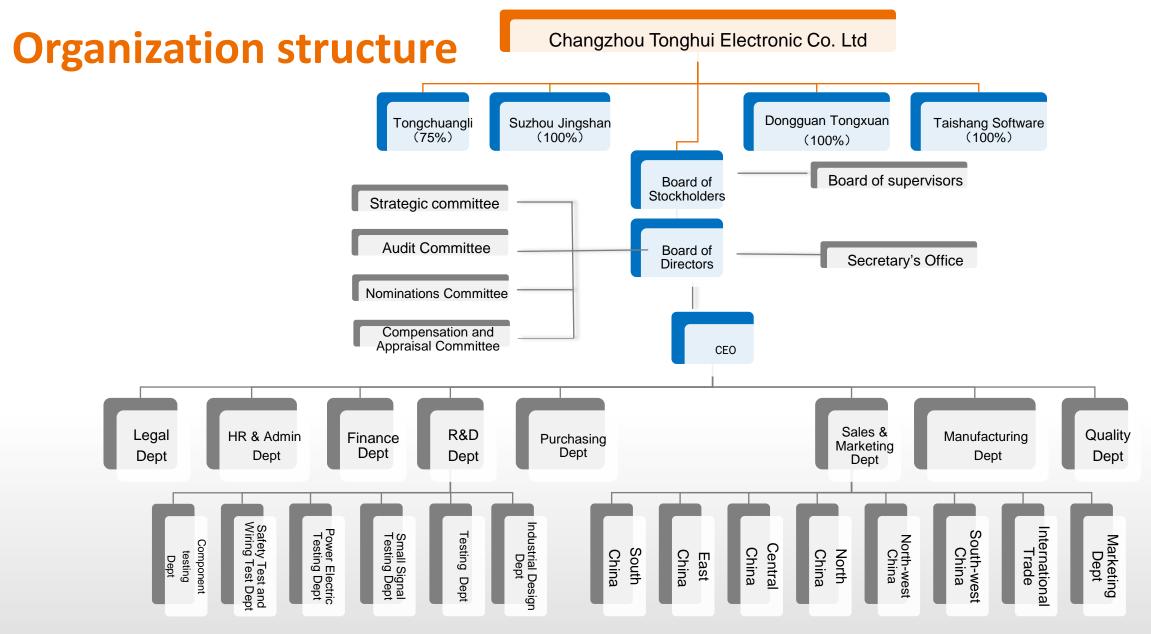
Year 2016

"Tonghui" trademark has been identified as a well-known trademark

Year 2021.1

Listed on the New Third Board Select tier







Founder team



Education Background:

- 1982.9-1986.7 Bachelor of Radio Technology, Nanjing University of Science and Technology
- 1986.9-1989.1 Master of Signal, Circuit and System, Nanjing University of Science and Technology

Achievement:

- Changzhou Municipal People's Congress Representative, "May 1st" Labor Medal Winner
- More than 30 years of experience in electrical measuring instrument research and development
- Presided over a number of provincial and ministerial science and technology projects, and obtained many invention patents.

Chairman & CEO: Zhao Haohua

Tonghul "

Founder team

Stick to the original intention of starting a business, and work together for 30 years





Development potential

Electronic T&M instruments -- "eyes" for scientific exploration, "rulers" for high-end manufacturing

Main Products: Intelligent Electronic Measuring Instruments (300 Models)

Application: Passive devices, semiconductor devices, integrated circuits, new materials, new energy, consumer electronics and other fields



Position in the market

- Leading manufacturer in China
- Main competitors: Keysight, Hioki,
 Wayne Kerr, Chroma, GW instek

Competitiveness

- Research and development: continuous innovation
- Marketing: close to customers
- Manufacturing: International quality level



Mission and roadmap

To provide reliable and low-cost test
equipment for the users all over the world.
Improve our life and protect the environment





Enterprise strategies

Focus

Professional, dedicated, attentive

-- Concentrate on the field of electronic measuring instruments with professional theory and experience

Innovation

Facing the forefront of world science and technology development

- Semiconductor Device
- New energy, battery test

Development

R&D

Marketing



Products features

•Component Parameter Tester

•Micro Signal
Type Tester

•Power Electronic Tester

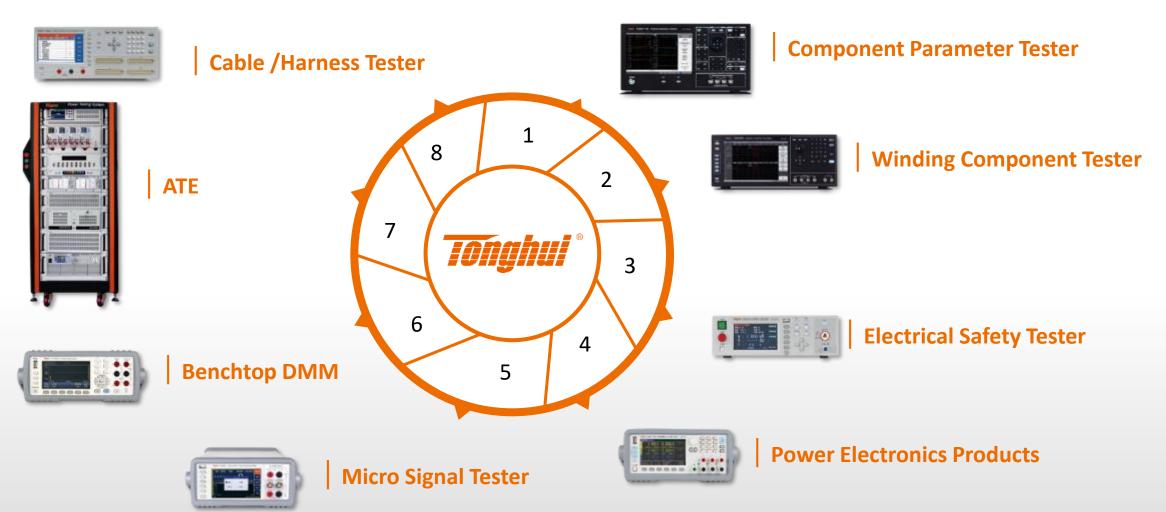
•Electrical
Safety Tester &
Cable Tester

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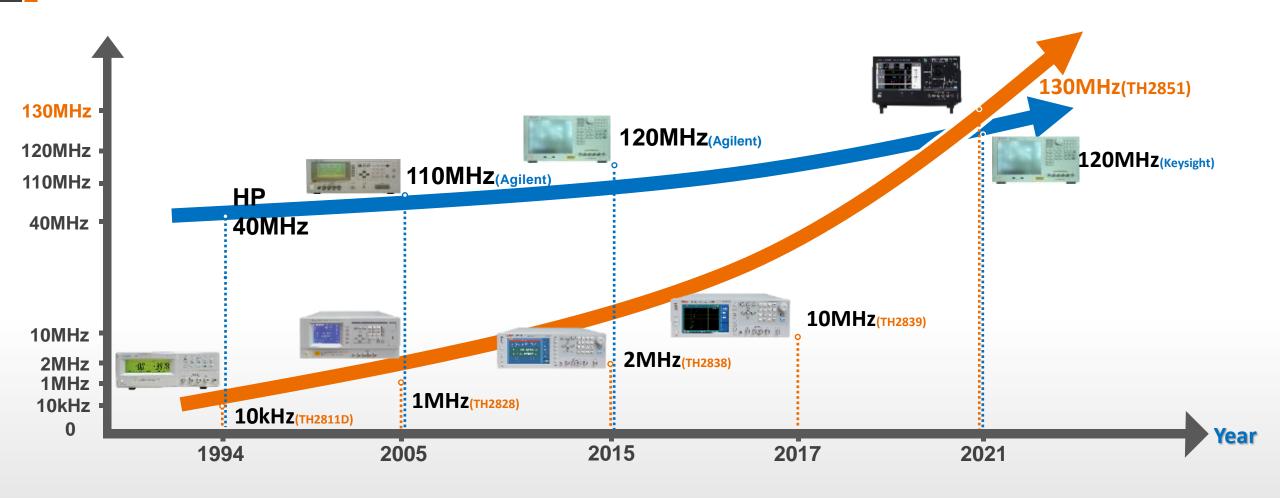


Main products





Innovation history of Core products



- Continue to take root in the field of impedance testing instruments for more than 30 years
- Practice the ingenious concept of "doing one thing well for a lifetime"



Core Technological breakthrough



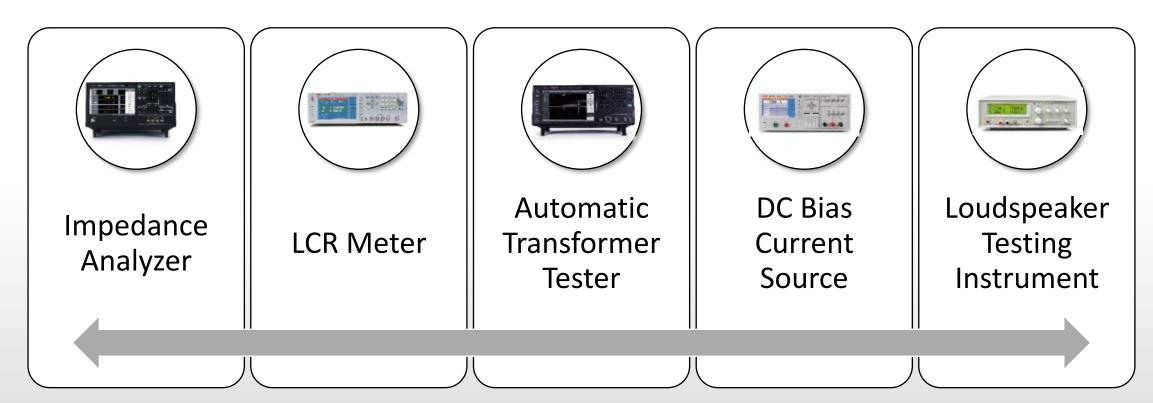
Brand	Tonghui TH2851	Keysight E4990A
Test Frequency	10Hz-130MHz	20Hz-120MHz
Max Test Speed	2.5 ms each time	3.8 ms each time
Basic Accuracy	0.08%	0.08%
Separate LCR Function	With	Without
Output Impedance	$25\Omega/100\Omega$ Option	25Ω

Note: Keysight data comes from the official website https://www.keysight.com/,

TH2851-130 is calibrated by China Metrology Institute, certificate number XDgp2022-00731



1 Impedance test instrument





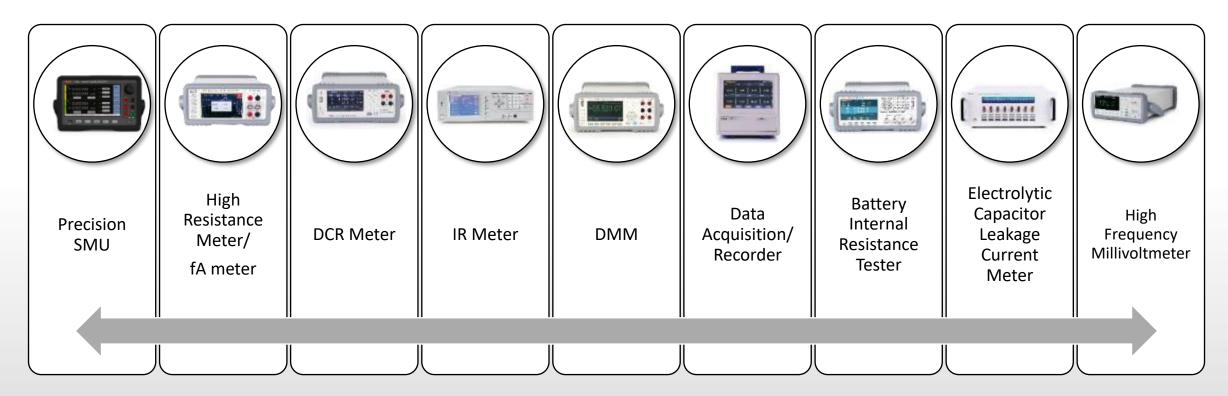
1 Impedance test instrument

- Impedance testing instruments are used in,
- passive devices (inductors, capacitors, magnetic beads, transformers, resonators, filters, etc.),
- semiconductor devices (wafers, chips, triodes, MOS tubes, IGBTs, etc.),
- materials (plastics, ceramics, magnetic, amorphous, etc.), biomedical, electrochemical, etc.
- It has a wide range of applications in manufacturing, scientific research institutes, national defense, aerospace, etc.





2 Micro Signal Type Tester





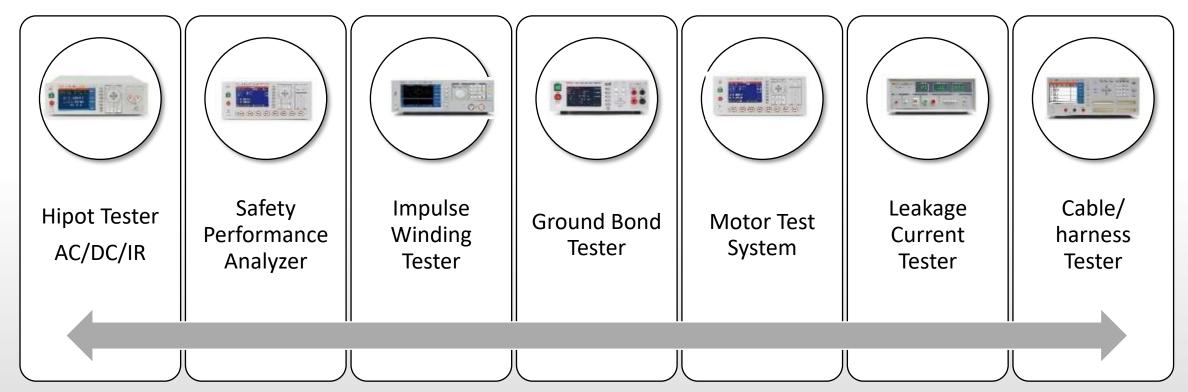
2 Micro Signal Type Tester

- Application
- Testing, verification and analysis of semiconductor wafers, diodes, LEDs, photosensitive devices, sensors, MOSFETs, BJTs, ICs and other electronic devices and materials;
- Testing and analysis of materials (ceramics, thin films, dielectrics, semiconductors, nanometers, etc.), electronic components,
 high resistance, microcurrent, and weak charges of electronic/non-electronic systems.





3 Electrical Safety Tester and Cable Tester





3 Electrical Safety Tester and Cable Tester

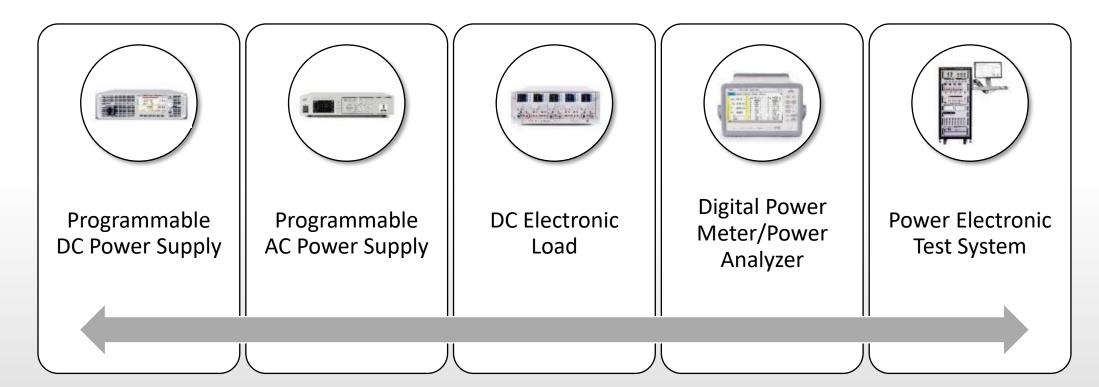
Electrical safety testing instruments are used in product safety parameter testing in industries such as new energy vehicles, lithium batteries, consumer electronics, household appliances, electrical equipment, electronic components, and medical equipment.







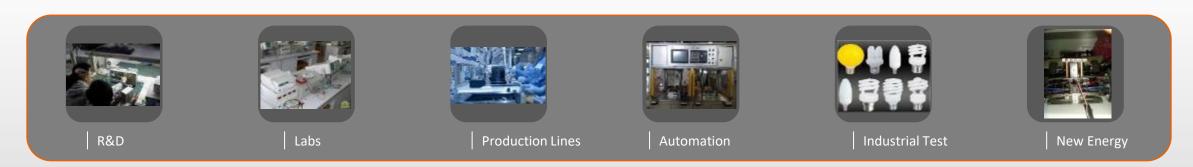
4 Power Electronic Tester





4 Power Electronic Tester

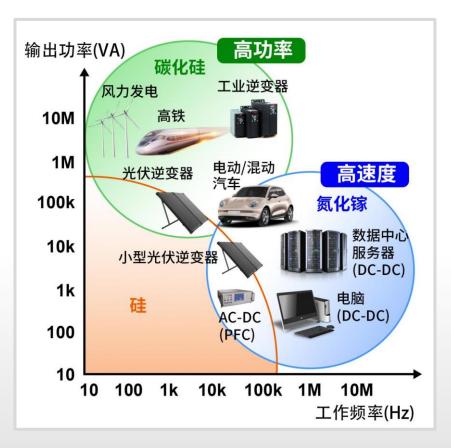
O Power electronic test instruments are mainly used in photovoltaic inverters, electric vehicle chargers/charging piles/drivers, power electronic components, computer/server/communication power supplies, switching power supplies, 3C batteries, battery chargers, power adapters, backlight inverters Parameter testing of products such as inverters, UPS, LED drivers, etc.





Key development aera in future

Power semiconductor device testing



New energy test





Partners

Universities and Research Institutes

CETC, China Aerospace, China Shipbuilding, Tsinghua University, Zhejiang University, Shanghai Jiaotong University, University of Science and Technology of China, etc.

Companies

TDK, Delta, Premo, Molex, Liteom, Amphenol, Foxconn, Pulse, GEM, Fujitsu, Huawei, BYD, Gree, Feng Hua, Midea, Faratronic, Click Technology, AAC Technology, etc.



















































Make "TONGHUI" the most famous electronic instrument brand in the world.

Uphold the spirit of ingenuity to ensure product quality

Strive to achieve a leading position in the field of third-generation semiconductor devices and new energy testing.



Join hands, Share the future

Thanks for your attention.

Changzhou Tonghui Electronic Co., Ltd