

**China
Agricultural
Machinery
Testing Centre**

农业部

农业机械试验鉴定总站

简介



China
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Machinery
Testing Centre

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1. 基本情况 Basic information

China Agricultural Machinery Testing Centre was founded in 1951, which is the national level testing station and quality supervisory agency for agricultural machinery, and it is a public benefit institution under the leadership of MOA, China.

1. 基本情况 Basic information

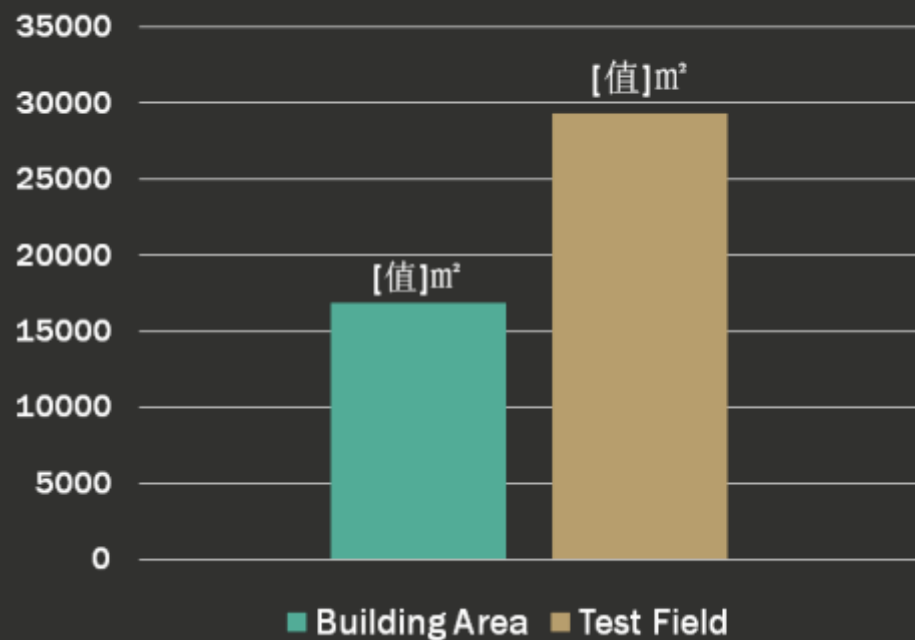
- Be located in the southeast of Beijing
- 46 000 sq.m
- 100 staff



1. 基本情况 Basic information

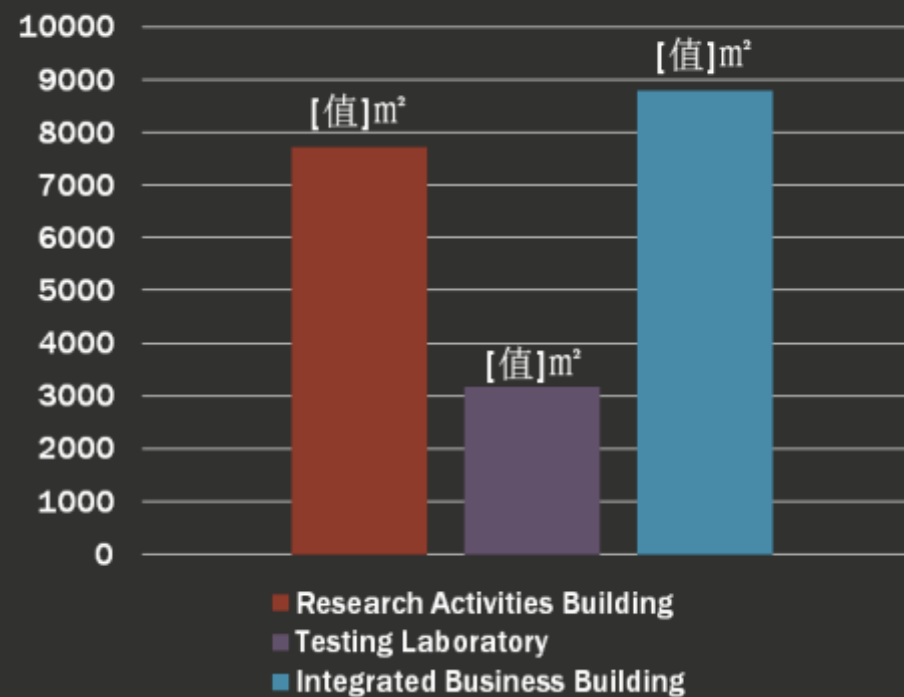
占地面积

Floor Space



建筑面积

Building Area

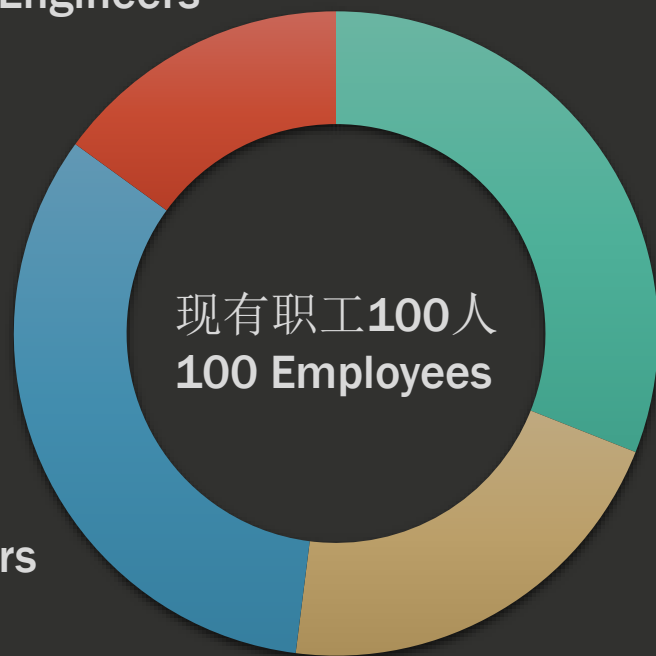


1. 基本情况 Basic information

正高15人
15 Professorial Engineers

副高31人
31 Senior Engineers

中级33人
33 Engineers



科研办公楼
Scientific
research and
office Building



综合业务楼
Integrated
Business Building



2. 鉴定检测能力 Testing Ability

拥有各类国产和进口检测仪器设备600余台（套），能开展80余种机具及零配件的试验鉴定。

CAMTC possesses over 600 sets of domestic and imported facilities.

For the testing of 80 kinds of machines and spare parts.



2.1 Engine Testing Laboratories

4 sets of electric eddy-current brake dynamometer of W series and E series from German Schenck Corporation.

1 set of W series dynamometer from FEVW Corporation.

1 set of MEXA 7200D series emission analysis system from Japanese HORIBA Corporation.

The laboratory can do

Performance test;

Reliability test;

Durability test of the engine;

PTO test of the tractor below 500 kW;

Measure the contents of HC, NO_x, CO in the emission of the exhaust gas.



2.2 Tractor Testing Laboratory

Meet the requirements of OECD Standard Codes for the official testing of agricultural and forestry tractors and national inspection standards.

the laboratory can test

Power;

Economic and operation performance data of the complete machine.

gravity & height measurement;

mass (weight) parameter;

rig test of static roll-over protection stability of agricultural machinery.



2.3 For Agricultural Machinery and Implements

With advanced equipment such as

Seeding machine performance test stand,

Rotation rate torque meters (independent R&D
equipment), vibration analyzers,

Turning parameter testing instruments,

Braking performance testing instruments,

Oil consumption instruments,

Dust sampling instruments.

The laboratory can conduct testing evaluations such
as

Soil tillage preparation;

Planting;

Fertilization;

Fmanagement;

Harvesting;

Post-harvest treatment.

ield



2.4 For Material Characteristics and Spare Parts

With some sophisticated
equipment such as

Universal testing machines,

Xenon lamp temperature resistance proofing
boxes;

Ozone ageing resistance boxes;

Supersonic flaw detectors;

The laboratory can conduct

Mechanics performance testing of materials;

Anti-ageing testing of non-metal materials;

Composition analysis of metal materials,

Fault detection;

Spare parts such as V-belt for agricultural
use.



2.5 For Water-saving Irrigation and Plant Protection Machinery

With the advanced detection
equipment such as

Spray ability testing stand;

Liquid pump testing stand;

Laser particle spectrometers;

Super speed testing stand;

Sprinkler testing stand;

Drip irrigation device performances testing
stand.

The laboratory can conduct the
testing appraisal of the products
such as

Spraying machines (facilities);

Spraying machines;

Micro-irrigation equipment.



2.6 试验场 Test Field



2.7 专业站 Testing stations with specialties

- In addition, there are 8 testing stations of CAMTC with deferent specialties authorized by MOA or CAMTC nationwide.
- 1. Pasture machinery (in inner Mongolia)
- 2. Plant protection machinery (in Nanjing)
- 3. Fodder and grain processing machinery (IN Liaoning)
- 4. Subtropical crops machinery (in Guangxi)
- 5. Irrigation machinery (in Chongqing)
- 6. Fish-feeding machinery (in Jiangsu)
- 7. Northern economic crops machinery (in Heilongjiang)
- 8. Marine fishing machinery

3. 主要职能 Our Major Duties

Abiding by the quality policy of Science, Justice, Efficiency and Incorruption, CAMTC provides technical support for the government to the policy-making, along with high quality and efficient services for the manufacturers and customers of agricultural machinery.

3. 主要职能 Our Major Duties

- ① Testing and evaluation of Agricultural Machinery and Spare Parts
- ② Quality Investigation and Supervision of Agricultural Machinery
- ③ Quality Certification of Agricultural Machinery Products
- ④ Supervision of Quality Complaints of Agricultural Machinery Products
- ⑤ Qualification and Instruction on Agricultural Machinery Vocational Skill
- ⑥ Management and Service of Agricultural Machinery Maintenance
- ⑦ Information Service on Agricultural Mechanization
- ⑧ Technical Management of Standards related to Agricultural Mechanization
- ⑨ Service on Foreign Affairs and Economy related
- ⑩ Instruction on the Testing Operation, Staff Manning and Training

3. 主要职能 Our Major Duties

Especially, as the technical subcommittee on Agricultural Mechanization of National Agricultural Machinery Standardization Technical Committee, CAMTC also undertakes the establishment and revision of the related national standards and trade standards, makes a study of inspection technology and test method to improve the technical levels continuously.





3. 主要职能 Our Major Duties

As the national testing station, we also have the responsibility for instruction on the Testing Operation and Training for the whole testing system (network) in China.



4. 国际合作

International cooperation

4. 国际合作 International cooperation

- In 1980, the United Nations development program (UNDP) provided \$700,000 dollars in aid to rebuild "China agricultural machinery testing center.
- In 1988 , China joined OECD Standard Codes for the Official Testing of Agricultural and Forestry Tractors.



4.国际合作

International cooperation

In 2002, CAMTC implemented the project of "Sino-Hungarian intergovernmental Scientific and Technological Cooperation" with Hungarian Institute of Agricultural Engineering (HIAE), and signed a mutual recognition declaration, specifying that the two parties agree to recognize the other side's test results under the test methods recognized by the two parties in the field of tractor testing.

4. 国际合作 International cooperation

In 2005, the OECD 13th Biennial Test Engineer's Conference was hosted by CAMTC.



4. 国际合作 International cooperation

In 2010, we hosted a Training Course on Testing Techniques of Agricultural Machinery for Asian and African Countries sponsored by Chinese Ministry of Agriculture.



4. 国际合作 International cooperation



- In 2014, we also applied for a project from MOA for the ANTAM, which is including co-organizing the 1th annual meeting and doing a research on construction of ANTAM.

THANKS for your attention