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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

MH/T 6017-2017

Replacing MH/T 6017-1999

**Aircraft tow tractor
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces MH/T 6017-1999 "Aircraft Tractor". Compared with MH/T 6017-1999, the main changes are as follows.

- Increased electric aircraft tractors, and changed "rod-type aircraft tractors" to "aircraft tractors towed by mops" (see Chapter 1);
- Added traction device requirements and traction device docking diagram (see 4.1.9);
- Added the technical requirements for tractors to have their own operational data collection and transmission functions (see 4.1.13)
- Added the technical requirements for the traction device to set a locking mechanism to prevent the traction pin from coming out (see 4.2.1.5);
- Added technical requirements for electric tractors (see 4.2.2);
- Increased the driving performance requirements of internal combustion tractors after being filled with fuel (see 4.3.1.7);
- Increased the performance requirements for driving range (see 4.3.1.8);
- Added the technical requirements for the front and rear lighting lamps of the tractor (see 4.6.2);
- Increase the technical requirements of the hydraulic system safety valve (see 4.7.3);
- Added the technical requirements for setting fuel gauges for internal combustion tractors and electricity meters for electric tractors (see 4.8.6);
- Increased the requirements for the operation identification of each control component of the tractor (see 4.8.8);
- Increase the performance requirements of rainproof (see 4.11.2);
- Modified the maximum traction test method (see 5.3.3, 1999 edition 5.6);
- Added traction capability test (see 5.3.4);
- Increase the content requirements for the signage of the electric tractor (see 7.1);
- Increased the air pressure, fuel and hydraulic oil filling points and safety signs requirements for pneumatic tires (see 7.2).

The previous version of this standard is released as follows. MH/T 6017-1999.

This standard was proposed and interpreted by the Airport Department of the Civil Aviation Administration of China.

This standard was approved by the Aircraft Airworthiness Certification Department of the Civil Aviation Administration of China.

This standard is under the jurisdiction of the China Academy of Civil Aviation Science and Technology.

Drafting organizations of this standard. Civil Aviation Professional Engineering Quality Supervision Station, Weihai Guangtai Airport Equipment Co., Ltd., National Engineering Machinery Quality Quantity Supervision and Inspection Center, Jiangsu Tianyi Airport Special Equipment Co., Ltd.

1 Scope

This standard specifies the terms and definitions, technical requirements, test methods, inspection rules, signs, signs, and instructions for aircraft tractors Books, packaging, transportation and storage.

This standard applies to aircraft tractors (hereinafter referred to as tractors) that use mops to tow or push aircraft within the airport.

Note: Tractors include internal combustion tractors and electric tractors.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB 1495 Limits and measurement methods of noise outside the vehicle during acceleration
GB/T 3766 General rules and safety requirements for hydraulic transmission systems and their components
GB/T 4094.2 Marks for electric vehicle controls, indicators and signal devices
GB/T 7593 Symbols for driver control devices and other display devices of motorized industrial vehicles
GB/T 9969 General Rules for the Use of Industrial Products
GB/T 12544 Maximum speed test method for automobiles
GB/T 12547 Lowest stable vehicle speed test method
GB/T 12673 Measuring method for main dimensions of automobiles
GB/T 12674 Determination method of automobile quality (weight) parameters
GB/T 12678 Automobile Reliability Driving Test Method
GB/T 14436 General Rules of Guarantee Documents for Industrial Products
GB/T 18384.1 Safety Requirements for Electric Vehicles Part 1: Vehicle-mounted Rechargeable Energy Storage System (REESS)
GB/T 18488.1 Motors and Controllers for Electric Vehicles Part 1: Technical Conditions
GB/T 19596 Terminology for Electric Vehicles
GB 20891 Limits and measurement methods of exhaust pollutants from diesel engines for non-road mobile machinery (China's third and

fourth stages) GJB 150.3A Military equipment laboratory environmental test method Part 3: High temperature test GJB 150.4A Military equipment laboratory environmental test method Part 4: Low temperature test GJB 150.9A Military equipment laboratory environmental test method Part 9: Damp heat test MH/T 0023 Graphical symbols for aircraft ground service equipment QC/T 900 Quality Inspection and Evaluation Method of Automobile Products

3 Terms and definitions

The following terms and definitions defined in GB/T 19596 apply to this document.

Rated mass

The quality of vehicle equipment including counterweight.

Rated traction mass

The maximum mass allowed to be towed under the rated mass state of the tractor.

4.1 General requirements

4.1.1

All purchased parts of the tractor shall meet the requirements of relevant national or industry standards, and shall have relevant certification documents and factory qualification certificates.

4.1.2

The appearance of the tractor should be clean and tidy, and all parts and components should be intact and free from defects.

4.1.3

The electrical installation of the tractor shall comply with the electrical schematic diagram, and the terminals shall have obvious marks that are not easy to fall off.

4.1.4

The connecting parts and fasteners of the tractor should be connected reliably and equipped with anti-loosening devices. The tools and accessories of the tractor should be fixed and reliable.

4.1.5

The oil circuit and gas circuit system pipelines of the tractor should be neatly arranged and firmly clamped, and there should be no friction or interference with moving parts.

4.1.6

All electrical components and wiring harnesses of the tractor shall be neatly arranged and firmly fixed, and appropriate protective measures shall be taken.