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

GB/T 23419-2009

**Aircraft - Four - wheel - Drive tow tractors - Performance
requirements factors for design**

四轮驱动飞机牵引车设计性能要求

(English Translation)

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Foreword

This standard is equivalent to using ISO 7717. 1985 "Aircraft --- wheel drive tractor design performance requirements" (in English).

This standard is equivalent translation ISO 7717. 1985. For ease of use, this standard made the following editorial changes.

- a) "this International Standard" be replaced by "this standard";
- b) use a decimal point instead of a decimal comma " , " . " , " ;
- c) Remove the preface to international standards;
- d) international standard "example 3.10" as an information appendix.

Appendix A of this standard is an informative annex.

The standard proposed by China Civil Aviation Administration.

The standard by the China Civil Aviation Administration of Aviation Safety Technology Center.

This standard was drafted. China CAAC Airport Department.

1 Scope

This standard specifies the design and evaluation of the four to be considered when the aircraft tractor driving performance requirements of the various elements. It also provides a set Count parameter tables and illustrative design case (see Appendix A). This standard did not elaborate design specifications relate only to performance requirements.

This standard applies to four-wheel drive tractor aircraft design.

Design Elements 2

In determining the aircraft tractor performance requirements, they should consider and evaluate these design elements.

2.1 Characteristics of Aircraft

Parameters to be considered are as follows.

- a) size;
- b) the number of landing gear and wheels;
- c) traction connection point;
- d) total weight, empty weight and wheel weight distribution;

Under e) following the direction of the initial motion, aircraft breakaway force as a percentage of the weight of the aircraft.

- 1) a straight line;

- 2) turning;

f) under different road surface conditions uniform motion aircraft rolling resistance accounts for a percentage of the weight of the aircraft.

- 1) horizontal surface;

- 2) slope;

- g) aircraft turning radius;

- h) aircraft towing device angle limit;

i) at the following load direction, aircraft towing strength of the device.

- 1) a straight line forward or backward;

- 2) minimum intensity direction;

- j) thrust engine idle condition.

Airport Environment 2.2 Parameters to be considered are as follows.

- a) required by the maximum gradient;

- b) through the minimum speed runway and taxiways needed;

- c) aircraft parking requirements.

- 1) with terminal nose or parallel inward;

- 2) and other aircraft spacing;

- 3) distance to other fixed objects;

- 4) distant parking berthing needs;

- d) Ping Station, pavement strength and surface condition of taxiway, runway and taxiway of;

- e) of roads, bridges, interchanges, etc. by limiting;
- f) aircraft maintenance area, the parking area to the terminal, is expected to draw distance and freight routes between the floor;
- g) through the station site, the maximum approach angle taxiway, runway and taxiway and turn angle.

GB/T 23419-2009/ISO 7717. 1985