
Aircraft ground equipment — Upper deck catering vehicle — Functional requirements

Matériel au sol pour aéronefs — Camion commissariat de pont supérieur — Exigences fonctionnelles



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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 27470 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 9, *Air cargo and ground equipment*.

Introduction

This International Standard specifies the minimum functional, performance and safety requirements to be taken into account by manufacturers for the design of catering vehicles intended to service the upper deck of very large capacity aircraft. It identifies the various concerns to be taken into consideration to ensure vehicle safety for operators and aircraft.

Throughout this International Standard, the minimum essential criteria are identified by use of the key word “shall”. Recommended criteria are identified by use of the key word “should” and, while not mandatory, are considered to be of primary importance in providing safe, economical and usable aircraft catering vehicles. Deviation from recommended criteria should only occur after careful consideration and thorough service evaluation have shown alternate methods to provide an equivalent level of safety.

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1 Scope

1.1 This International Standard specifies the minimum functional, performance and safety requirements for a catering vehicle capable of transporting and loading/unloading in-flight service (catering) equipment and supplies into or from the upper deck of very large capacity aircraft, as well as the main deck of these or other aircraft types.

1.2 The intent of this International Standard is not to specify equipment design, but rather to define minimum functional and performance requirements and highlight those criteria which are known to be essential to an efficient and safe operation on civil transport aircraft in the environment of international airports.

1.3 This International Standard specifies the worldwide requirements recognized by aircraft and vehicle manufacturers as well as airlines and catering agencies. In addition, it shall be applied with due reference to the national governmental regulations of the country where the vehicle is to be operated. The main though not exclusive areas in which such national regulations may apply are:

- general requirements applicable to road vehicles;
- sanitary requirements regarding design, cleaning and disinfection of vehicles used to carry food for human consumption;
- stability and other safety requirements applicable to elevating equipment carrying personnel in the elevated position.

Nothing in this International Standard, however, shall be deemed to supersede any locally applicable law or regulation, unless a specific exemption has been obtained for this purpose from the appropriate Authority.

1.4 Certain requirements of this International Standard are specifically dictated by overwing access to doors of certain aircraft types, and may not apply to other aircraft types. However, the intent of this International Standard is that any upper deck catering vehicle shall be capable of safely handling this specific situation.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6966-1, *Aircraft ground equipment — Basic requirements — Part 1: General design requirements*

ISO 6966-2, *Aircraft ground equipment — Basic requirements — Part 2: Safety requirements*

ISO 7000, *Graphical symbols for use on equipment — Index and synopsis*

ISO 10841, *Aircraft — Catering vehicle for large capacity aircraft — Functional requirements*

ISO 11532, *Aircraft ground equipment — Graphical symbols*

ISO 11995, *Aircraft — Stability requirements for loading and servicing equipment*