
International Standard



7715

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Air cargo equipment — Ground handling and transport systems for unit load devices — Minimum requirements

Équipement pour le fret aérien — Systèmes de manutention et de transport au sol des unités de charge — Caractéristiques minimales

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7715 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*.

Air cargo equipment — Ground handling and transport systems for unit load devices — Minimum requirements

0 Introduction

The aim of this International Standard is to lay down minimum requirements for the handling and restraint of air cargo unit load devices (ULD) whilst on the ground to ensure interchangeability.

1 Scope and field of application

This International Standard specifies minimum performance and compatibility requirements for ground handling and transport systems equipment for air cargo unit load devices, used to service civil wide body freight aircraft.

The purpose of this International Standard is not to specify equipment design, but rather to ensure interface compatibility of the various elements which might make up a complete ground handling and transport system, developed within a number of different operational schemes.

This International Standard is applicable to ground handling and transport systems equipment, designed to deal with main deck unitized cargo in the form of intermodal containers and other compatible unitized load devices. In the context of this International Standard, intermodality concerns, primarily, air and land modes, but does not exclude sea mode. Likewise, compatible equipment, other than that used for main deck cargo, is not excluded.

2 References

- ISO 1161, *Series 1 freight containers — Corner fittings — Specification*.
- ISO 4116, *Ground equipment requirements for compatibility with aircraft unit load devices*.
- ISO 4117, *Air and air-land cargo pallets — Specification and testing*.
- ISO 4118, *Non-certified lower deck containers for air transport — Specification and testing*.
- ISO 4128, *Aircraft — Air mode modular containers*.
- ISO 4171, *Interline air cargo pallets*.
- ISO 6517, *Aircraft — Containers — Base-restrained certified containers for the lower deck of high capacity aircraft*.

ISO 6966, *Aircraft — Basic requirements for aircraft loading equipment*.

ISO 6967, *Aircraft — Wide body aircraft main deck container/pallet loader — Functional requirements*.

ISO 6968, *Aircraft — Wide body aircraft lower deck container/pallet loader — Functional requirements*.

ISO 8323, *Freight containers — Air/surface (intermodal) general purpose containers — Specification and tests*.

3 Equipment

An air cargo ULD ground handling and transport system, in addition to ULDs, is considered as including a loading system or loader and ground transport equipment.

For the purposes of this International Standard, the loading device or loader is that equipment, fixed or mobile, designed to remove ULDs from the ground transport equipment, reposition the ULDs ready for loading and load the ULDs onto the main cargo deck of the aircraft. The loader is also used during unloading operations to remove ULDs from the aircraft main cargo deck and reposition them onto the ground transport equipment. Facility docking equipment can be considered as performing the loader function.

This clause defines the minimum performance requirements for specific elements of the ground handling and transport system. Clause 4 specifies minimum performance requirements of the system, dictated by the interface requirements between these elements of the system.

The ground handling system shall be completely compatible and integrated with the aircraft and the facility environmental features. For example, environmental features associated with the system are: aircraft door opening sizes and locations, cargo envelopes, clearances, cargo movement paths, sill heights, aircraft stabilization characteristics, height limitations for working under the aircraft, noise control, turning radius and driver visibility.

3.1 Unit load devices

3.1.1 Reference documents

The specifications, or applicable portions thereof, relating to unit load devices, laid down in the International Standards contained in clause 2, shall be taken into consideration.