
International Standard



7716

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Air cargo equipment — Unit load devices transport vehicle (UTV) — Functional requirements

Équipement pour le fret aérien — Véhicules de transport d'unités de charge (VTU) — Caractéristiques fonctionnelles

First edition — 1985-09-01

Foreword

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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 7716 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*.

Air cargo equipment — Unit load devices transport vehicle (UTV) — Functional requirements

0 Introduction

This International Standard shall be read in conjunction with ISO 4116, ISO 6966 and ISO 7715.

1 Scope and field of application

This International Standard specifies minimum functional requirements for type 3, class A, air cargo unit load device (ULD) chassis in accordance with the terminology defined in ISO 7715.

This International Standard outlines the functional requirements for a ULD transport vehicle, capable of carrying unit load devices over airport and public roads and transferring them to/from rollerized ULD handling equipment.

2 References

ISO 1161, *Series 1 freight containers — Corner fittings — Specification*.

ISO 4116, *Ground equipment requirements for compatibility with aircraft unit load devices*.

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

ISO 7715, *Air cargo equipment — Ground handling and transport systems for unit load devices — Minimum requirements*.

3 Dimensions and weights of unit load devices

Dimensions (length × width × height) and weights¹⁾ of applicable unit load devices are as follows:

- a) 1 562 mm × 1 534 mm × 1 626 mm
(61.5 in × 60.4 in × 64.0 in), maximum gross weight
1 588 kg (3 500 lb);

NOTE — The overall length of the container may be up to 2 337 mm (92.0 in).

- b) 3 175 mm × 2 235 mm × up to 2 438 or 2 997 mm
(125.0 in × 88.0 in × up to 96.0 or 118.0 in), maximum
gross weight 6 804 kg (15 000 lb);

- c) 3 175 mm × 2 438 mm × up to 2 438 or 2 977 mm
(125.0 in × 96.0 in × up to 96.0 or 118.0 in), maximum
gross weight 6 804 kg (15 000 lb);

- d) 2 991 mm × 2 438 mm × 2 438 mm
(117.75 in × 96.0 in × 96.0 in), maximum gross weight
5 670 kg (12 500 lb);

- e) 6 058 mm × 2 438 mm × up to 2 438 or 2 977 mm
(238.5 in × 96.0 in × up to 96.0 or 118.0 in), maximum
gross weight 11 340 kg (25 000 lb);

- f) 12 192 mm × 2 438 mm × 2 438 mm
(480.0 in × 96.0 in × 96.0 in), maximum gross weight
20 412 kg (45 000 lb).

4 Structure and overall dimensions of the vehicle

4.1 The vehicle shall be constructed on a standard automotive truck, trailer, or semi-trailer chassis.

It shall provide a ULD transport platform with one of the following capabilities:

- a) two 2 235 mm × 3 175 mm or 2 438 mm × 3 175 mm
(88 in × 125 in or 96 in × 125 in) units, or four
1 562 mm × 1 534 mm (60.4 in × 61.5 in) units, or one
2 438 mm × 6 058 mm (96 in × 238.5 in) unit;
- b) three 2 235 mm × 3 175 mm or 2 438 mm
× 3 175 mm (88 in × 125 in or 96 in × 125 in) units, or
six 1 562 mm × 1 534 mm (60.4 in × 61.5 in) units, or one
2 438 mm × 6 058 mm (96 in × 238.5 in) unit;
- c) four 2 235 mm × 3 175 mm or 2 438 mm × 3 175 mm
(88 in × 125 in or 96 in × 125 in) units, or eight
1 562 mm × 1 534 mm (60.4 in × 61.5 in) units, or two
2 438 mm × 6 058 mm (96 in × 238.5 in) units, or one
2 438 mm × 12 192 mm (96 in × 480.0 in) unit.

4.2 The overall height of the entire loaded unit shall not exceed 3 965 mm (156 in), when transported on roads with 2 438 mm (96 in) high ULDs.

The height of any part of the conveyor surface shall be within the range of 1 219 mm (48 in) to 1 575 mm (62 in) under any normal operating conditions.

1) The term "weight" is retained in this International Standard instead of the correct technical term "mass" in order to conform to current commercial usage.