INTERNATIONAL STANDARD



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION ORGANISATION INTERNATIONALE DE NORMALISATION ΜΕЖДУНАРОДНАЯ ΟΡΓΑΗИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Air cargo equipment — Handling systems for unit load devices (ULDs) — Symbols for pictorial representation

iTeh Standards

Équipement pour le fret aérien — Systèmes de manutention des unités de charge — Symboles pour la représentation graphique

Document Preview

ISO 9031:1987 https://standards.iteh.ai/catalog/standards/iso/97540fdc-cfa2-4e1b-8d89-56bff9d4adbd/iso-9031-1987

Reference number ISO 9031 : 1987 (E)

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 9031 was prepared by Technical Committee ISO/TC 20, Aircraft and space vehicles.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its reveal latest edition, unless otherwise stated.

<u>ISO 9031:1987</u>

https://standards.iteh.ai/catalog/standards/iso/97540flc-cfa2-4e1b-8d89-56bff9d4adbd/iso-9031-1987

© International Organization for Standardization, 1987 ●

Air cargo equipment — Handling systems for unit load devices (ULDs) — Symbols for pictorial representation

iTeh Standards

1 Scope and field of application

This International Standard specifies symbols for the pictorial standardization of aircraft cargo-handling systems for unit load devices (ULDs).

These symbols are applicable to all aircraft cargo-handling systems for underfloor as well as for main-deck systems. The conveyance, guidance, restraint, power drive unit and the degree of automation for the total cargo-handling system can be depicted using the symbols.

2 Symbol system

Each cargo symbol consists of a basic symbol, which represents basic functions, such as a physical function, a load direction, etc. In the drafting of the symbols account has been taken of factors such as maximum simplicity, intelligible geometry, optical similarity and good retainability. The symbols are designed to be self-explanatory, and they are used alone or in combination to generate multiple components.

A symbol characterizes a component function, but not the detail design and manufacturing method.

The standardized symbols are suitable for use with computeraided design.

All symbols are given with an explanatory description in the table.

An example of how combinations of symbols are built up is given in figure 1.

3 Application

An example of the application of some of the symbols to a typical semi-automatic underfloor cargo system for the latching and guiding of pallets and containers is given in figure 2.

Table – Symbols

Reference No.	Component	Symbol	Description
1	Latch	1)	Retractable/relocatable restraint mecha- nism, capable of bearing a horizonta load perpendicular to its load-carrying side.
2	Double-acting latch	1)	Retractable/relocatable restraint mecha nism, capable of bearing a horizonta load perpendicular to both of its sides.
3	Stop	1)	Fixed restraint, capable of bearing a horizontal load perpendicular to its length.
4	Vertical restraint		Horizontal protrusion from the uppe part of a fixed or retractable restraint capable of bearing a vertical load.
5	Overridable (http:	i leh Standards s://sta n da r ds.ite	Device which will cause the automatic overriding of a component in which it is incorporated.
6 httr	Fixed guide	ISONALS	Fixed position device, capable of guiding along its length and of bearing a horizon tal load perpendicular to its length. 0-56bff9d4adbd/iso-9031-198
7	Retractable guide		Retractable/relocatable position device capable of guiding along its longest side and of bearing a horizontal load applied against its longest side.
8	Omnidirectional transfer area		Panel or area which contains a number of omnidirectional conveyor units for multidirectional conveyance of ULDs.
9	Power drive unit — retractable		Self-lifting and/or retractable power drive unit used to move ULDs along a conveyorized system.
10	Power drive unit — fixed-height		Spring-loaded or a fixed-height powe drive unit used to move ULDs along a conveyorized system.

1) Area shaded black = load-carrying side

..