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Industrial trucks — Vocabulary —

Part 3: Accessories and components

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Partie 3:
Composants et équipements

Flurförderzeuge — Wörterbuch —

3:
Ausrüstung und Komponenten

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Foreword

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This document was prepared by Technical Committee ISO/TC-110, *Industrial trucks*, Subcommittee SC-1, *General terminology*.

In addition to text written in the official ISO languages (English, French), this document gives text in German, Italian and Chinese. This text is published under the responsibility of the member bodies for Germany (DIN), Italy (UNI) and China (SAC), and is given for information only. Only the text given in the official languages can be considered as ISO text.

A list of all parts in the ISO 5053 series can be found on the ISO website.

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Industrial trucks — Vocabulary

Part 3: Accessories and components

1 Scope

This document establishes the vocabulary of accessories and components of industrial trucks (hereafter referred to as trucks) as defined in ISO 5053-1.

For the purposes of this document, the terms accessories and components are describing parts and assemblies which are, or can be, fitted to a truck.

Accessories and components of typical trucks are given in [Annex A](#).

Due to the variance of the individual truck types and the ongoing development of new combinations, it is not possible to include all the different variations of accessories and components. Therefore, this document defines, shows and/or describes the typical variances.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

ISO and IEC maintain [terminological terminology](https://standards.iteh.ai/) databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at <https://www.iso.org/obp>
<https://standards.iteh.ai/catalog/standards/iso/5b14cf41-861a-46fb-b8f3-0910bc8d9ffc/iso-5053-3>

— IEC Electropedia: available at <http://www.electropedia.org/>

3.1

access gate

section of guard rail possible to open and close for operator access and egress

3.2

auxiliary lift device

lift mechanism additional to the main lifting device

3.3

battery compartment

enclosure, integral to the truck, that houses the traction battery(ies)

Note 1 to entry: Parts of a modular lithium-ion battery can be integrated throughout the chassis of the truck and have no battery compartment according to this definition.

3.4

bumper

pressure-sensitive protective device (PSPD) fitted to the truck that generates a signal to stop the truck upon physical contact

3.5

cabin

operator position completely enclosed by rigid materials (for example door(s), glass) to shield the operator from environmental influence

Note_1-to-entry:- If a truck is equipped with flexible PVC doors or open sides, it is not considered to have a cabin.

3.6

chassis

main frame structure to which the various units of the truck (for example engine, transmission, lifting gear, mast) are fixed

3.7

controls

~~control device~~

control device

means for the operator to actuate truck functions

3.8

controls for operating alongside

means for control of travelling and/or lifting/lowering functions from outside the truck

3.9

counterweight

mass fixed to the truck intended to counterbalance the load

3.10

damping and tilting system

actuators for damping and tilting of the spreader

3.11

double mast

mast composed of one fixed and one moving upright

3.12

drive wheel

wheel which transmits the tractive effort to the ground

Note_1-to-entry:- A drive wheel can also be the steered wheel.

3.13

driving axle

axle of a self-propelled truck that transmits torque to the drive wheel(s)

3.14

emergency stop device

manually actuated control device used to initiate an emergency stop function

3.15

enabling device

additional manually operated device used in conjunction with a start control and which, when continuously actuated, allows a machine to function

3.16

engine cover

cover over part of a truck where the engine is mounted

3.17

exhaust system

all parts used to contain, process and direct gaseous and particulate emissions from an internal combustion engine between the joint face of the cylinder head(s) and the end of outlet pipe(s)

Note_1_to_entry:- The exhaust system can contain an after-treatment system.

3.18

foldable lateral support arms

structural part of the truck that, when in the extended position, provides lateral support to the operator when standing on the platform, and which can be folded or pivoted to a stowed position

Note_1_to_entry:- Lateral support for the operator allows faster travelling speed for stand-on trucks.

3.19

foldable operator platform

operator platform that can be stowed away to permit pedestrian controlled operation

3.20

fork arm

blade cantilevered from a shank which is provided with means of attachment (for example bolted, shaft-mounted, hook-mounted) to a fork carrier and usually two or more fork arms are mounted together to handle, for example, palletized loads

[SOURCE: ISO 5053-2:2019, 3.1]

3.21

fork carrier

fork arm carrier

load carriage

carriage

component of the mast bearing the load handling device

3.22

free lift height

lifting of the fork carrier without extending the telescopic mast above the fixed mast

3.23

grab rail

structure designed for the operator to grip to assist with operator stability while the truck is travelling

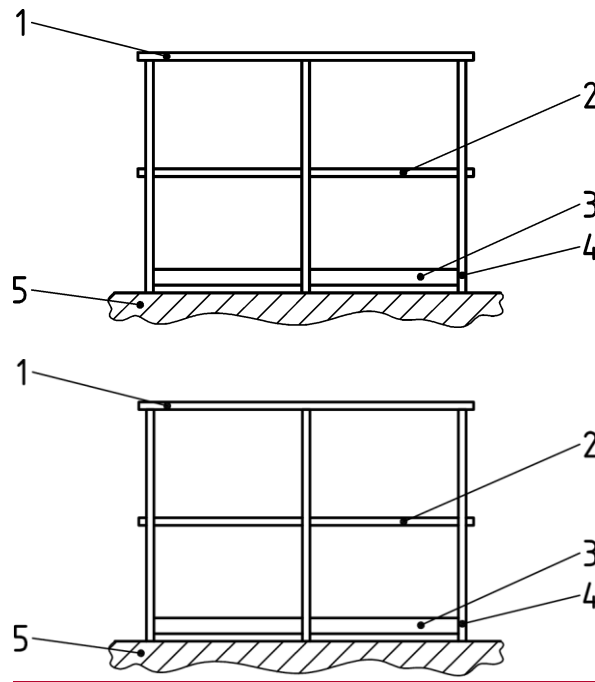
Note_1_to_entry:- It can be used also to assist operator stability when the truck is stationary (for example egress, ingress).

3.24

guard rail

structure for protection against accidental falls from stair(s)/step(s), ladders, landings, platforms and walkways

Note_1_to_entry:- See [Figure 1-Figure 1](#).



Key

- 1 top rail
- 2 intermediate rail
- 3 toe board
- 4 stanchion
- 5 walkway/platform

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Figure 1.1 — Guard rail

3.25

guidance system

system which guides the truck on a predetermined path not directly controlled by the operator

3.26

intermediate rail

knee rail

mid rail

rigid element of the guard rail placed parallel with the top rail, giving extra protection against the passage of a body

3.27

lifting boom

telescopic boom for raising/lowering and extension of the load handling device

3.28

lifting boom suspension

upper rear part of the chassis where the lifting boom is mounted and pivoting

3.29

lifting cylinder

actuator for raising and lowering the load handling device

3.30

load backrest extension

vertical structure connected to the fork carrier extending the vertical part of the fork arms to increase the load restraining area

3.31

load carrying platform

plain surface on which the load can be carried

3.32

load handler

structural part of the truck connecting the load handling device with the traverse frame

3.33

load handling device

means that supports the load

EXAMPLE: ~~forks~~ Forks, platform, attachment.

3.34

load wheel

wheel(s), located on the load end of a truck, which predominantly bear the dynamic and static forces due to load carried by the truck to which it is fitted

3.35

mast

assembly that guides the vertical movement and supports the fork carrier or load handling device

3.36

mast suspension

supports between mast and chassis to reduce mast sway and deflection

3.37

non-telescopic mast

mast composed only of fixed uprights

3.38

operator backrest

part of the operator's compartment to support the back of the operator

3.39

operator enclosure

fixed vertical structure(s) added to the operator platform, generally to the sides or to the rear of that platform

3.40

operator platform

standing surface provided for a ride-on operator to operate the truck

Note_1_to_entry: Operator platforms can also be equipped with an operator seat.

3.41

operator presence control

opc

system which uses a device to detect the presence of the operator in the normal operating position

3.42

operator seat

portion of the truck provided for the purpose of supporting the buttocks and back of the seated operator, including any suspension system and other mechanisms provided (for example for adjusting the seat position)

3.43

operator restraint system

device or system that is permanently installed to keep the operator within the protective structure of the truck

3.44

outrigger

support arm

supporting structure of the truck extending the profile of the chassis to enable the positioning of the load centre of gravity within the stability limits

3.45

overhead guard

structure fitted to the truck for the purpose of protecting the operator against falling objects

3.46

personnel detection means

system to detect person(s) in the path of a truck

NOTE-Note 1-to-entry:- Bumper and virtual bumper are both types of personnel detection means.

3.47

pivot steer bearing

mechanical joint with rotation around the pivot axis which connects the front wheels and mast to the rear of an articulated counterbalance truck

3.48

quadruple mast

mast composed of one fixed upright and three moving uprights

3.49

reach carriage with fixed mast

carriage used in reach trucks with fixed masts to extend the fork carrier forward or backward in the longitudinal centre plane of the truck

Note-1-to-entry:- The reach carriage allows retrieving the load at a position between steering and load axle. This principle reduces the overall length of the truck and improves stability.

3.50

reach carriage with mast holder

reach carriage with mast carrier

carriage used in reach trucks that contains a mechanical structure to fix the mast and that can be moved backwards and forwards in the direction of the longitudinal centre plane of the truck

Note-1-to-entry:- The reach carriage allows retrieving the load at a position between steering and load axle. This principle reduces the overall length of the truck and improves stability.