BS EN 16796-6:2020

BSI Standards Publication

Energy efficiency of Industrial trucks — Test methods

Part 6: Container straddle carrier

bsi.

National foreword

This British Standard is the UK implementation of EN 16796-6:2020.

The UK participation in its preparation was entrusted to Technical Committee MHE/7, Industrial trucks.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Energieeffizienz von Flurförderzeugen — Testmethoden — Teil 6: Container Portalhubwagen (Container Straddle Carrier)

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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European foreword

This document (EN 16796-6:2020) has been prepared by Technical Committee CEN/TC 150 “Industrial Trucks - Safety”, the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2020, and conflicting national standards shall be withdrawn at the latest by July 2020.

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

EN 16796 consists of the following parts, under the general title *Energy efficiency of Industrial trucks — Test methods*:

— *Part 1: General*

— *Part 2: Operator controlled self-propelled trucks, towing tractors and burden-carrier trucks*

— *Part 3: Container handling lift trucks*

— *Part 4: Rough-terrain trucks*

— *Part 6: Container straddle carrier*

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1 Scope

This part of EN 16796 specifies the methods of energy consumption measurement for stacking high-lift straddle carrier (hereafter referred to as straddle carrier), as defined in ISO 5053-1:2015, 3.19.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

EN 16796-1:2016, *Energy efficiency of Industrial trucks — Test methods — Part 1: General*

ISO 5053-1:2015, *Industrial Trucks — Terminology and classification — Part 1: Types of Industrial Trucks*

ISO 668[1)], *Series 1 freight containers — Classification, dimensions and ratings*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5053-1:2015 and EN 16796-1:2016 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— IEC Electropedia: available at https://www.electropedia.org/

— ISO Online browsing platform: available at https://www.iso.org/obp

3.1
automatic container detection
automatic positioning of the spreader on the container

3.2
n – high
numbers of containers which could be stacked by the truck

Note 1 to entry: Usually the numbers of containers which could be stacked by the truck are 2-high, 3-high or 4-high.

Note 2 to entry: For travelling, the container is usually in the position 1-high.

4 Test conditions

4.1 General

The test conditions given in EN 16796-1:2016, shall be modified as follows.

4.2 Test load

The test load shall be 30,48 t according to ISO 668[1].

A container with a height of 2,59 m (8‘6“) and a length of 6 m (20‘) shall be used in the test.

If a different container size and/or a different load is used, this should be documented in the test report.

The travelling position shall be in 1-high position, meaning lower corner of spreader at a hoisting height of 3,4 m to 3,6 m above ground.

1) Under preparation. Stage at the time of publication: ISO/FDIS 668.