

JB

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

JB/T 2391-2007

Replacing JB/T 2391-1994

**500 kg to 10 000 kg counterbalanced fork-lift trucks - Technical
requirements**

500kg~10000kg平衡重式叉车 技术条件

(English Translation)

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1 Scope

This standard specifies the requirements, test methods, inspection rules and mark, packaging, transportation, storage as well as quality assurance date etc. of 500kg~10000kg counterbalanced fork lift trucks with.

This standard is applicable to 500kg~10000kg internal combustion counterbalanced fork lift trucks and 500kg~5000kg storage battery counterbalanced fork lift trucks (hereinafter referred to as "fork lift trucks", if specially referring to storage battery counterbalanced fork lift trucks, it is called "storage battery fork lift trucks" for short).

2 Normative References

The following normative documents contain provisions which, through reference in this standard, constitute provisions of this standard. For dated reference, subsequent amendments to, or revisions of, any of these publications do not apply. However, all parties coming to an agreement according to this standard are encouraged to study whether the

latest editions of these documents are applicable. For undated references, the latest edition of the normative document referred to applies.

GB 4785 Prescription for Installation of the External Lighting and Light Signalling Devices for Motor Vehicles and their Trailers (GB 4785-1998, eqv ECE No.48: 1995)

GB/T 5141 Counterbalanced Fork-lift Trucks-Stability Test (GB/T 5141-2005, ISO 1074: 1991, IDT)

GB/T 5143 High-lift Rider Trucks-Overhead Guards-Specification and Testing (GB/T 5143-2001, idt ISO 6055: 1997)

GB/T 5182 Fork-lift Trucks-Fork Arms-Technical Characteristics and Testing (GB/T 5182-1996, idt ISO 2330: 1995)

GB/T 7593 Powered Industrial Trucks-Control Symbols (GB/T 7593-1987, eqv ISO 3287: 1978)

GB/T 9286 Paints and Varnishes-Cross Cut Test for Films (GB/T 9286-1998, eqv ISO 2409: 1992)

GB 10827 Powered Industrial Trucks-Safety Code (GB 10827-1999, eqv ISO 3691: 1980)

GB/T 13306 Plates

GB/T 18849 Powered Industrial Trucks--Brake Performance and Components Strength (GB/T 18849-2002, eqv ISO 6292: 1996)

JB/T 3300 Counterbalanced Fork-lift Trucks-Testing Method for Whole Machines

3.1.1

The manufacture requirements of the main structure dimension of the fork lift trucks shall meet those specified in Table 1.

3.1.2

The requirements of main technical performance parameters of the fork lift trucks shall meet those specified in Table 2.

3.1.3

Stability of fork lift trucks shall meet the requirements of GB/T 5141.

3.1.4

Overhead guards of fork lift trucks shall meet the requirements of GB/T 5143.

3.1.5

Such auxiliary equipments as the motor, speed change box, hydraulic element, electromotor, storage battery, electrical controller for speed regulation and tire selected by the fork lift trucks shall meet relevant standards and technical document requirements and be attached by the product certificate, if necessary, re-inspect the pre-working auxiliary equipments.

3.1.6

Motor power shall adopt 1h rated power and the gasoline motor shall be equipped with speed limit device.

3.1.7

According to the test conditions specified in JB/T 3300, the service working time of the storage battery fork lift trucks is determined not be less than 8h.

3.1.8

In the DC or AC driving device of the storage battery fork lift trucks, the running motor shall adopt S260min working system. The insulation grade of electromotor shall not be less than Grade F.

3.1.9

The driving system shall be free from any abnormal noise and the variator shall not be dislocated automatically. The power gearshift shall be stable and free from the shock. The mechanical-driven gearshift shall have synchronizer and hydrodynamic-driven fork lift trucks shall have inching function.

3.1.10

The performance of the brakes used for the fork lift trucks shall meet the relevant requirements of GB/T 18849.