International Standard ISO 6500

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

Powered industrial trucks — Service brakes — Component strength-performance requirements

Chariots de manutention automoteurs — Freins de service — Exigences de résistance mécanique pour les composants

First edition — 1980-04-15

UDC 621.868.2-597 **Ref. No. ISO 6500-1980 (E)**

Descriptors : industrial trucks, self-propelled machines, brakes (motion arresters), components, mechanical strength.

Price based on 1 page

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

International Standard ISO 6500 was developed by Technical Committee ISO/TC 110, *Industrial trucks*, and was circulated to the member bodies in January 1979.

It has been approved by the member bodies of the following countries :

Australia	France	South Africa, Rep. of
Austria	Germany, F. R.	Sweden
Belgium	India	Switzerland
Brazil	Japan	Turkey
Bulgaria	Korea, Rep. of	United Kingdom
Chile	Libyan Arab Jamahiriya	USA
Czechoslovakia	Netherlands	USSR
Denmark	New Zealand	
Finland	Romania	

The member body of the following country expressed disapproval of the document on technical grounds :

Poland

Printed in Switzerland

Powered industrial trucks — Service brakes — Component strength-performance requirements

1 Scope and field of application

This International Standard establishes the component strength performance requirements of service brake(s) systems activated by a brake pedal, hand lever, hand grip or steering tongue.

This International Standard applies to :

a) high and low lift powered industrial trucks, powered electrically or by an internal combustion engine with seated or standing rider operator;

b) trucks with elevatable operating position and lateral-stacking trucks;

c) pedestrian controlled trucks.

2 Reference

ISO 6292/1, *Powered industrial trucks — Brake performance — Part 1 : High lift, low lift and non-lifting.* [1)]

3 Component strength

3.1 Brake pedal — Downward movement

For trucks having a downward movement of the brake pedal to apply the service brake(s), the system shall be capable of withstanding a brake pedal force of 1 100 N (247 lbf) without failure or permanent deformation of any component.

3.2 Brake pedal — Upward movement

For trucks having an upward movement of the brake pedal (releasing the brake pedal) to apply the service brake(s), the system shall be capable of withstanding a force of 200 % of the maximum possible setting of the spring which applies the brake(s), without failure or permanent deformation of any component.

3.3 Hand lever

For trucks having a hand lever to apply the service brake(s), the system shall be capable of withstanding a force of 450 N (101 lbf) applied at the gripping point on the lever, without failure or permanent deformation of any component.

3.4 Hand-grip

For trucks having a hand-grip which is squeezed to apply the service brake(s), the system shall be capable of withstanding a force of 300 N (67 lbf) applied to the hand grip, without failure or permanent deformation of any component.

1) At present at the stage of draft.