

Earth-moving machinery — Zones of comfort and reach for controls

The European Standard EN ISO 6682:1995 has the status of a
British Standard

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW



Document Sharing Hub

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Road Engineering Standards Committee (RDB/-) to Technical Committee RDB/21, upon which the following bodies were represented:

- Associated Offices Technical Committee
- Construction Industry Training Board
- Construction Plant-Hire Association
- Department of Trade and Industry [Mechanical Engineering and Manufacturing Technology Division (Mmt)]
- Federation of Civil Engineering Contractors
- Federation of Manufacturers of Construction Equipment and Cranes
- Health and Safety Executive
- Institution of Civil Engineers
- Institution of Highways and Transportation
- Ministry of Defence

This British Standard, having been prepared under the direction of the Road Engineering Standards Committee, was published under the authority of the Board of BSI and comes into effect on 29 May 1987

© BSI 03-2000

First Published May 1981
First revision May 1987

The following BSI references relate to the work on this standard:
Committee reference RDB/21
Draft announced in *BSI News* November 1986

ISBN 0 580 15805 5

Amendments issued since publication

Amd. No.	Date of issue	Comments
6420	December 1990	
8711	July 1995	Indicated by a sideline in the margin

Contents

	Page
Committees responsible	Inside front cover
National foreword	ii
Foreword	2
Text of EN ISO 6682	3
Publications referred to	Inside back cover

National foreword

This British Standard has been prepared under the direction of the Road Engineering Standards Committee and is a revision of BS 6124:1981. It takes into account minor changes made in the 1980 edition of ISO 6682 “*Earth-moving machinery — Zones of comfort and reach for controls*” published by the International Organization for Standardization (ISO). This revision of BS 6124 thereby remains identical with ISO 6682 and BS 6124:1981 is superseded and withdrawn. Amendment 1, published in 1989, to ISO 6682 was implemented in this British Standard by Amendment No. 1.

In 1995 the European Committee for Standardization (CEN) accepted ISO 6682:1986 as European Standard EN ISO 6682:1995. As a consequence of implementing the European Standard this British Standard is renumbered as BS EN ISO 6682:1995 and any reference to BS 6124:1987 should be read as a reference to BS EN ISO 6682:1995.

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

Wherever the words “International Standard” appear, referring to this standard, they should be read as “British Standard”.

Cross-references

International Standard	Corresponding British Standard
ISO 3411:1982	BS 5538:1983 <i>Specification for minimum operator space envelope for earth-moving machinery</i> (Identical)
ISO 5353:1984	BS 5631:1978 <i>Specification for earth-moving machinery — seat index point</i> (Identical)
ISO 6746-1:1982	BS 6295 <i>Dimensions and symbols for earth-moving machinery</i> Part 1:1982 <i>Glossary of terms for base machine</i> (Identical)

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN ISO title page, pages 2 to 12, an inside back cover and a back cover. This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

ICS 53.100

Descriptors: Earth-moving equipment, operating stations, control devices, human factors engineering, ports, openings, position dimensions

English version

Earth-moving machinery — Zones of comfort and reach for controls

(ISO 6682:1986 including Amendment 1:1989)

Engins de terrassement — Zones de confort et d'accessibilité des commandes
(ISO 6682:1986, Amendement 1:1989 inclus)

Erdbaumaschinen — Stellteile — Bequemlichkeitsbereiche und Reichweitenbereiche
(ISO 6682:1986, einschließlich Änderung 1:1989)

This European Standard was approved by CEN on 1995-01-09. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

© 1995 Copyright reserved to CEN members

Foreword

This European Standard has been taken over by the Technical Committee CEN/TC 151, Construction equipment and building material machines — Safety, from the work of ISO TC 127, Earth-moving machinery, of the International Organization for Standardization (ISO).

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 1995, and conflicting national standards shall be withdrawn at the latest by July 1995.

In accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

Contents

	Page
Foreword	2
1 Scope	3
2 Field of application	3
3 References	3
4 Definitions	3
5 Control location zones	3
Annex A Specific conditions used to derive control location zones	5
Annex B Summary of coordinates for defining control location zones	6
Figure 1 — Zones of comfort and reach — Side view	7
Figure 2 — Zones of comfort and reach — Top view	8
Figure 3 — Zones of comfort and reach — Front view	9
Figure 4 — Coordinates for zones of comfort and reach — Side view	10
Figure 5 — Coordinates for zones of comfort and reach — Top view	11
Figure 6 — Coordinates for zones of comfort and reach — Front view	12
Table 1 — Summary — Body pivot dimensions	5
Table 2 — Summary — Range of movement angles	5
Table 3 — Coordinates for zone of comfort — Hand control location zone	6
Table 4 — Coordinates for zone of reach — Hand control location zone	6
Table 5 — Coordinates for zone of comfort — Foot control location zone	6
Table 6 — Coordinates for zone of reach — Foot control location zone	6