Testing earth-moving machinery —

Part 2: Measurement of tool forces and tipping loads of loaders



Committees responsible for this British Standard

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

AFRC Institute of Engineering Research

Associated Offices Technical Committee

British Coal Corporation

Construction Industry Training Board

Construction Plant-Hire Association

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 Policy Committee, was published under the authority of the Board of BSI and comes into effect on 31 July 1990

© BSI 09-1999

ISBN 0 580 18622 9

Amendments issued since publication

Amd. No.	Date	Comments

This is a preview. Click here to purchase the full publication.

Contents

	Page
Committees responsible	Inside front cover
National foreword	ii
1 Scope	1
2 Normative references	1
3 Definitions	1
4 Apparatus	2
5 Test site	2
6 Preparation for test	2
7 Methods of measuring too	ol forces 2
8 Method of measuring tipp	oing load 3
9 Test report	3
Figure 1 — Tipping condition	4
Figure 2 — Typical test arrang breakout force exerted by lift cy	ement for determination of maximum vlinder(s) 5
Figure 3 — Typical test arrang breakout force exerted by tilt c	ement for determination of maximum vlinder(s) 6
Figure 4 — Typical test arrang lifting capacity to full height	ement for determination of maximum 7
Figure 5 — Typical test arrang tipping load at maximum outre	ement for determination of maximum ach
Table 1 — Test results	$\overline{4}$
Publication(s) referred to	Inside back cover

National foreword

This Part of BS 6911 is a minor revision of BS 6819:1987 incorporating changes in the definitions for hydraulic pressure terms. It has been prepared under the direction of the Road Engineering Standards Policy Committee. BS 6911-2 is identical with ISO 8313:1989 "Earth-moving machinery — Loaders — Methods of measuring tool forces and tipping loads" published by the International Organization for Standardization (ISO). This Part of BS 6911 supersedes BS 6819:1987 which is withdrawn.

ISO 8313 was produced as a result of international discussion in which the UK took an active part.

Cross-references

eross references	
International Standard	Corresponding British Standard
ISO 5998:1986	BS 6912 Safety of earth-moving machinery
	Part 2:1989 Specification for rated operating load for crawler and wheel loaders
700	(Identical)
ISO 6016:1982	BS 6300:1982 Methods of measuring the masses of whole machines, their equipment and components of earth-moving machinery
	(Identical)
	BS 6914 Terminology (including definitions of dimensions and symbols) for earth-moving machinery
ISO 6165:1987	Part 1:1988 Glossary of terms for basic types of earth-moving machinery
	(Identical)
ISO 6746-1:1987	Part 2:1988 Glossary of terms for base machine (Identical)
ISO 7131:1984	BS 6685:1986 Glossary of terms for loaders used for earth-moving
	(Identical)
ISO 7546:1983	BS 6422:1983 Method for volumetric rating of loader and front loading excavator buckets used for earth-moving (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, pages 1 to 8, 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.