INTERNATIONAL STANDARD

ISO 5006-3

First edition
1993-06-15

Earth-moving machinery — Operator's field of view —

Part 3: Criteria

Engins de terrassement — Visibilité du conducteur —
Partie 3: Critères

Reference number
ISO 5006-3:1993(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 5006-3 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Sub-Committee SC 2, *Safety requirements and human factors*.

ISO 5006 consists of the following parts, under the general title *Earth-moving machinery — Operator's field of view*:

— *Part 1: Test method*

— *Part 2: Evaluation method*

— *Part 3: Criteria*

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Printed in Switzerland

Introduction

This part of ISO 5006 specifies acceptable visibility criteria for earth-moving machinery. When the visibility of the machine does not meet the criteria, specific operating conditions apply or aids for indirect visibility need to be employed.

It is recognized that there are differences in machines and their usage such that for the standardized measurement procedure, different categories of visibility are valid. The visibility areas differentiate between the left and right sides of the field of vision and field of view because it has been found that for specific machines there are differences in visibility which result from the overall compromises which are inherent in machinery design.

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Earth-moving machinery — Operator's field of view —

Part 3:
Criteria

1 Scope

This part of ISO 5006 specifies visibility acceptance criteria for earth-moving machinery: it applies to earth-moving machinery which has a specific operator's station.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 5006. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 5006 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 5006-1:1991, *Earth-moving machinery — Operator's field of view — Part 1: Test method.*

ISO 5006-2:1993, *Earth-moving machinery — Operator's field of view — Part 2: Evaluation method.*

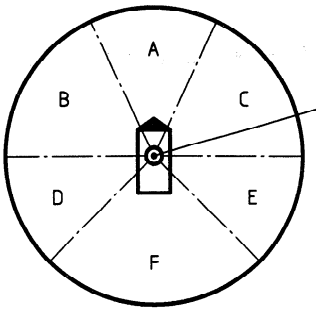
3 Definitions

For the purposes of this part of ISO 5006, definitions 3.2 to 3.7 given in ISO 5006-1:1991 apply.

4 Criteria

The acceptance criteria are given in table 1. The test method and the category evaluation method are given in ISO 5006-1 and ISO 5006-2.

Table 1 — Acceptable visibility criteria

Machine type [2]	Visibility category [1]					
	 A Sector of vision; B, C Field of vision; D, E Field of view; F Visual field					
	A	B	C	D	E	F
Dumper - articulated	I	II	III	II	II	3)
Dumper - rigid frame						
5 t < m ⩽ 80 t	I	II	III	3)	3)	3)
m > 80 t	I	II	3)	3)	3)	3)
Excavator - wheel						
m ⩽ 24 t	I	II	III	II	3)	3)
m > 24 t	I	II	3)	II	3)	3)
Excavator - track						
m ⩽ 24 t	I	II	III	II	3)	3)
m > 24 t	II	II	3)	II	3)	3)
Loader - wheel						
m ⩽ 24 t	I	II	II	II	II	II
m > 24 t	III	II	II	III	III	III
Loader - skid steer						
m ⩽ 24 t	I	II	II	III	III	3)
Loader - backhoe	II	II	II	II	II	III
Loader - crawler						
m ⩽ 24 t	I	II	II	II	II	I
Rollers and compactors						
m ⩽ 24 t	I	II	II	II	II	II
m > 24 t	III	II	II	III	III	III
Tractor with dozer						
m ⩽ 24 t	II	II	II	II	II	I
m > 24 t	III	II	II	II	II	I
Tractor-scraper	II	II	III	II	3)	3)
Grader	II	II	II	II	II	II

1) See ISO 5006-2:1993, clause 4.

2) m = machine mass without payload.

3) Maskings may be greater than those defined for category III.