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Earth-moving machinery — Articulated frame lock — Performance requirements

iTeh STANDARD PREVIEW
*Engins de terrassement — Dispositif de verrouillage pour direction par
châssis articulé — Exigences de performance*
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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 10570 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Sub-Committee SC 2, *Safety requirements and human factors*.

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Earth-moving machinery — Articulated frame lock — Performance requirements

1 Scope

This International Standard defines the performance requirements for an articulated frame locking device to prevent unintended articulation of the machine during either shipment or maintenance.

It applies to machines as defined in ISO 6165 which have an articulated frame except for tractor scrapers.

2 Normative reference

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

ISO 6165:1987, *Earth-moving machinery — Basic types — Vocabulary*.

3 Definition

For the purposes of this International Standard, the following definition applies.

3.1 articulated frame lock: One or more links, bars, pins or equivalent, including attaching parts and attachment points to the machine frames, to prevent unintended articulation of the machine during either shipment or maintenance.

4 Requirements

4.1 Mounting positions

The articulated frame lock shall be capable of securing the machine in a straight-ahead position and be mounted on the side normally used for access to the operator's seat. Should access to the operator's seat be from either side, the articulated frame lock may be mounted on either side at the discretion of the manufacturer. If it is necessary to have the machine articulated to perform routine maintenance functions, the articulated frame lock shall be capable of securing the machine in the required articulated position.

4.2 Attachment to machine

The articulated frame lock, with its attaching parts, shall be attached to the machine in such a manner that they will not become separated from the machine during use or storage.

4.3 Colour

The articulated frame lock parts, excluding the attaching parts, shall be red on all machines except where the machine colour is red, in which case the lock link parts shall be yellow.

4.4 Performance

The articulated frame lock, including attaching parts and the attachment points on the machine frames for all positions, shall not exhibit any permanent structural deformation when a force is applied equal to two times the force that will be induced by the machine steering system at the upper limits specified by the machine manufacturer. This test shall be carried out with the steering system in both left hand and right hand articulation.

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