
**Earth-moving machinery — Articulated
frame lock — Performance requirements**

*Engins de terrassement — Dispositif de verrouillage de la direction par
châssis articulé — Exigences de performance*

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO 10570:2004](https://standards.iteh.ai/catalog/standards/sist/6241ac5a-5482-47ea-82b5-5b871a395a90/iso-10570-2004)

[https://standards.iteh.ai/catalog/standards/sist/6241ac5a-5482-47ea-82b5-
5b871a395a90/iso-10570-2004](https://standards.iteh.ai/catalog/standards/sist/6241ac5a-5482-47ea-82b5-5b871a395a90/iso-10570-2004)



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO 10570:2004

<https://standards.iteh.ai/catalog/standards/sist/6241ac5a-5482-47ea-82b5-5b871a395a90/iso-10570-2004>

© ISO 2004

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 10570 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Subcommittee SC 2, *Safety requirements and human factors*.

This second edition cancels and replaces the first edition (ISO 10570:1992), which has been technically revised.

iTeh STANDARD PREVIEW
(standards.iteh.ai)
ISO 10570:2004
<https://standards.iteh.ai/catalog/standards/sist/6241ac5a-5482-47ea-82b5-5b871a395a90/iso-10570-2004>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO 10570:2004

<https://standards.iteh.ai/catalog/standards/sist/6241ac5a-5482-47ea-82b5-5b871a395a90/iso-10570-2004>

Earth-moving machinery — Articulated frame lock — Performance requirements

1 Scope

This International Standard defines performance requirements for an articulated frame lock designed to prevent unintended machine articulation of earth-moving machinery as defined in ISO 6165 and with an articulated frame during either shipment or maintenance.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

iTeh STANDARD PREVIEW

3 Terms and definitions (standards.iteh.ai)

For the purposes of this document, the following terms and definitions apply.

[ISO 10570:2004](#)

3.1 articulated frame lock <https://standards.iteh.ai/catalog/standards/sist/6241ac5a-5482-47ea-82b5-5b871a395a90/iso-10570-2004>

link(s), bar(s), pin(s) or equivalent, including attaching parts and attachment points to the machine frame, designed to prevent unintended articulation of an earth-moving machine with an articulated frame during either shipment or maintenance

NOTE The articulated frame lock is not intended for use while the machine is moving/travelling by its own means.

4 Requirements

4.1 Mounting positions

The articulated frame lock shall be capable of securing the machine in a straight-ahead position and shall be mounted either on the side normally used for access to the operator's station or at the discretion of the manufacturer.

If it is necessary that the machine be articulated so that routine maintenance functions can be performed, the articulated frame lock shall be capable of securing the machine in the articulated position required for such functions.

The articulated frame lock shall be so designed that its mounting is possible without frequent adjustment of the two parts of the machine frame.

4.2 Attachment to machine

The articulated frame lock shall be attached to the machine such that none of its parts become separated from the machine during use or storage.

4.3 Colour

The articulated frame lock link parts shall be coloured red, which colour shall be clearly visible in both the stored and installed positions. However, when the machine is itself red, another, clearly contrasting, colour shall be used.

4.4 Performance test requirements

Performance tests shall be carried out with the steering system in both left- and right-hand articulation.

The articulated frame lock, for all positions, shall not exhibit any permanent structural deformation when submitted to a force equal to twice the maximum force that will be induced by the machine steering system at the upper limits specified by the machine manufacturer.

For articulated-frame dumpers, the articulated frame lock shall withstand a force equal to 1,2 times that induced by the machine steering system.

If the articulated frame lock is needed only during lifting and transportation (as is the case, for example, with scrapers and graders), the required force may be calculated by the manufacturer to be equal to twice the maximum force on the frame lock during lifting and transportation.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO 10570:2004](https://standards.iteh.ai/catalog/standards/sist/6241ac5a-5482-47ea-82b5-5b871a395a90/iso-10570-2004)

<https://standards.iteh.ai/catalog/standards/sist/6241ac5a-5482-47ea-82b5-5b871a395a90/iso-10570-2004>

Bibliography

- [1] ISO 6016:1998, *Earth-moving machinery — Methods of measuring the masses of whole machines, their equipment and components*

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO 10570:2004](https://standards.iteh.ai/catalog/standards/sist/6241ac5a-5482-47ea-82b5-5b871a395a90/iso-10570-2004)

<https://standards.iteh.ai/catalog/standards/sist/6241ac5a-5482-47ea-82b5-5b871a395a90/iso-10570-2004>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO 10570:2004

<https://standards.iteh.ai/catalog/standards/sist/6241ac5a-5482-47ea-82b5-5b871a395a90/iso-10570-2004>

ICS 53.100

Price based on 3 pages