

INTERNATIONAL  
STANDARD

**ISO**  
**6405-2**

First edition  
1993-12-15

---

---

**Earth-moving machinery — Symbols for  
operator controls and other displays —**

**Part 2:**

Specific symbols for machines, equipment and  
accessories

*Engins de terrassement — Symboles pour les commandes de l'opérateur  
et autres indications —*

*Partie 2: Symboles spécifiques aux engins, équipements et accessoires*



Reference number  
ISO 6405-2:1993(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 6405-2 was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Sub-Committee SC 2, *Operation and maintenance*.

This first edition of ISO 6405-2, together with ISO 6405-1 published in 1991, cancel and replace ISO 6405-1982, of which they constitute a technical revision.

ISO 6405 consists of the following parts, under the general title *Earth-moving machinery — Symbols for operator controls and other displays*:

- *Part 1: Common symbols*
- *Part 2: Specific symbols for machines, equipment and accessories*

© ISO 1993

All rights reserved. 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 the publisher.

International Organization for Standardization  
Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

# Earth-moving machinery — Symbols for operator controls and other displays —

## Part 2:

Specific symbols for machines, equipment and accessories

### 1 Scope

This part of ISO 6405 establishes symbols uniquely for use on operator controls and other displays of earth-moving machinery as defined in ISO 6165.

Symbols given in this part of ISO 6405 apply to controls and displays specific to backhoe loaders, dozers, loaders, graders, scrapers, excavators and dumpers, and for controls and displays for stabilizers, outriggers, grapples, rippers and winches.

### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 6405. 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 6405 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 3461-1:1988, *General principles for the creation of graphical symbols — Part 1: Graphical symbols for use on equipment*.

ISO 4196:1984, *Graphical symbols — Use of arrows*.

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

ISO 6405-1:1991, *Earth-moving machinery — Symbols for operator controls and other displays — Part 1: Common symbols*.

ISO 7000:1989, *Graphical symbols for use on equipment — Index and synopsis*.

IEC 417:1973, *Graphical symbols for use on equipment — Index, survey and compilation of the single sheets*.

### 3 Definition

For the purposes of this part of ISO 6405, the definition of symbol given in ISO 6405-1 applies.

### 4 General

**4.1** Symbols shall be as shown in succeeding clauses of this part of ISO 6405. However, selected symbols and selected combined symbols, which are shown in outline form in this part of ISO 6405, may be shaded in actual use for clarity of reproduction and improved visual perception by the operator, except as otherwise noted for individual symbols.

**4.2** Limitations inherent in some reproduction and display technologies may require increased line thickness or other minor modifications of symbols. Such modifications are acceptable provided the symbol remains unchanged in its basic graphical elements and easily discernible by the operator.