
Cranes — Hand signals used with cranes

*Appareil de levage à charge suspendue — Signaux de la main utilisés
avec les grues*

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 96, *Cranes*, Subcommittee SC 5, *Use, operation and maintenance*.

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Introduction

The objective of this International Standard is to achieve uniform hand signals on projects where more than one country having unique hand signals is involved.

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Cranes — Hand signals used with cranes

1 Scope

This International Standard gives requirements for hand signals to be used in lifting operations.

2 Normative references

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

ISO 4306-1, *Cranes — Vocabulary — Part 1: General*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4306-1 and the following apply.

3.1

cease operation

dogging

stop operation permanently or temporarily after release of load

3.2

slewing

swinging

radial horizontal movement of load with crane base stationary

3.3

travel

movement of the whole crane (mobile and truck mounted)

4 Requirements for hand signals

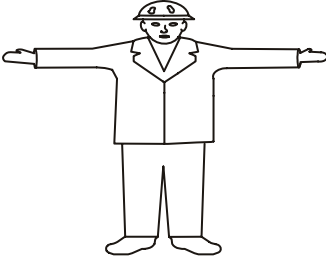
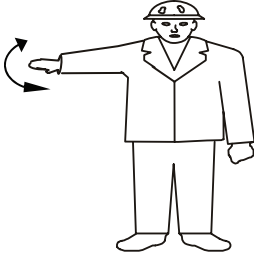
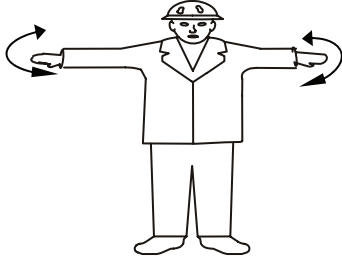


4.1 General

The following requirements for hand signals shall apply.

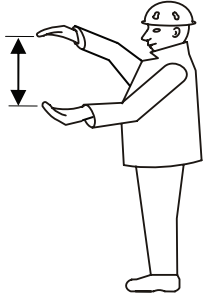
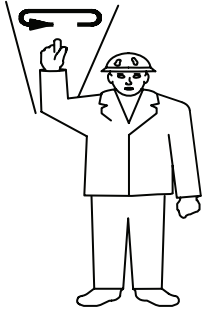

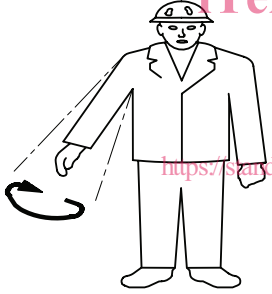
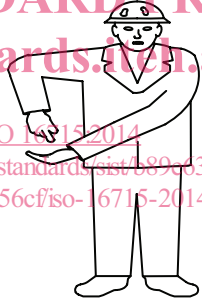
- a) The signals shall be used accordingly and fully understood by the crane operators.
- b) The signal shall be clear and concise in order to avoid misunderstanding.
- c) Non-specific one-arm signals shall be acceptable using either arm (a left or right indication is a specific signal).
- d) A signaller shall
 - 1) be in a safe position,
 - 2) be clearly visible to the operator, and
 - 3) have a clear view of the load or equipment.
- e) Signals to the operator shall be given only by one person. The only exception shall be the emergency stop signal.

f) Where applicable, signals can be combined and used.

4.2 General hand signals

 <p>Figure 1 Operations start (follow my instructions) Outstretch both arms horizontally with the hands open and the palm facing forward.</p>	 <p>Figure 2 Stop (stop normally) Arm extended, palm down, move arm back and forth horizontally.</p>	 <p>Figure 3 Emergency stop (stop quickly) Both arms extended, palms down, move arms back and forth horizontally</p>
 <p>Figure 4 Cease operation (stop following my instructions) Clasp the hands at chest height in front of body.</p>	<p style="text-align: center;">iTeh STANDARD PREVIEW (standards.iteh.ai)</p> <p style="text-align: center;">ISO 16715:2014 https://standards.iteh.ai/catalog/standards/sist/b89e63bc-4986-4f4d-8469-bef4588071ec/iso-16715-2014</p>  <p>Figure 5 Inching or dead slow Rub palms in a circular motion against each other. After this signal, any other applicable hand signals shall apply.</p>	

4.3 Vertical movements

 <p>Figure 6</p> <p>Indicating vertical distance</p> <p>Keep both arms extended in front of the body, one above the other with palms facing each other.</p>	 <p>Figure 7</p> <p>Raise/lift the load at a steady rate</p> <p>Raise one arm above the head, with the hand closed and the index finger pointing upwards. Make small horizontal type circles with the forearm.</p>	 <p>Figure 8</p> <p>Raise slowly</p> <p>Use raising signal with one hand and other palm motionless on top of the hand that gives the signal</p>
 <p>Figure 9</p> <p>Lower the load at a steady rate</p> <p>Extend one arm downwards but away from the body, with the hand closed and the index finger pointing downwards. Make small flat circles with the forearm.</p>	 <p>Figure 10</p> <p>Lower slowly</p> <p>Use lowering signal with one hand with the other palm motionless below facing the hand that gives the signal.</p>	

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