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Basic human body measurements for technological design

Part 4: Expected performance of skilled anthropometrists

bsi.

National foreword

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Part 4: Expected performance of skilled anthropometrists

Définitions des mesures de base du corps humain pour la conception technologique —

Partie 4: Performances attendues des anthropométristes qualifiés

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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 document 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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This document was prepared by Technical Committee ISO/TC 159, *Ergonomics*, Subcommittee SC 3, *Anthropometry and biomechanics*.

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Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

Anthropometric data used for technological design have been included in many ISO product standards. There are several standards such as ISO 15535 that refer to a skilled or experienced anthropometrist but give no clear information on what is a skilled or experienced anthropometrist. The skill of an anthropometrist forms the most important part of quality control of anthropometric data. The information provided by this document complements the lack of existing standards and can help developers and users of anthropometric databases.

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TECHNICAL REPORT **ISO/TR 7250-4:2023**

Basic human body measurements for technological design —

Part 4: Expected performance of skilled anthropometrists

1 Scope

This document describes the knowledge and skill required for an experienced anthropometrist who serves as a measurer in anthropometric surveys or a planner of an anthropometric survey. This document also describes methods to quantify the skill of anthropometrists and to report their performance.

This document is not a textbook or manual for anthropometry but can be useful for those who plan and conduct anthropometric surveys as well as designers and technologists who utilize anthropometric data. Methods described in this document can also be applicable to measurements other than those described in ISO 7250-1.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
anthropometrist
person who takes scientifically accurate measurements of the human body according to traditional methods

3.2
inter-observer measurement error
difference between the measurements taken on the same participant by different measurers

3.3
intra-observer measurement error
difference between the repeated measurements taken on the same participant by the same measurer

3.4
anatomical landmark
point clearly defined on the body that can be used for determining anthropometric measurements

[SOURCE: ISO 20685-1:2018, 3.6]

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