

SVENSK STANDARD

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Maskinsäkerhet – Kroppsmått – Del 3: Antropometriska data

Safety of machinery – Human body measurements – Part 3: Anthropometric data



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Denna standard ersätter SS-EN 547-3, utgåva 1.

The European Standard EN 547-3:1996+A1:2008 has the status of a Swedish Standard. This document contains the official English version of EN 547-3:1996+A1:2008.

This standard supersedes the Swedish Standard SS-EN 547-3, edition 1.

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 547-3:1996+A1

September 2008

ICS 13.110; 13.180

Supersedes EN 547-3:1996

English Version

Safety of machinery - Human body measurements - Part 3: Anthropometric data

Sécurité des machines - Mesures du corps humain - Partie
3: Données anthropométriques

Sicherheit von Maschinen - Körpermaße des Menschen -
Teil 3: Körpermaßdaten

This European Standard was approved by CEN on 15 November 1996 and includes Amendment 1 approved by CEN on 14 August 2008.

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Foreword

This document (EN 547-3:1996+A1:2008) has been prepared by Technical Committee CEN/TC 122 “Ergonomics”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2009, and conflicting national standards shall be withdrawn at the latest by December 2009.

This document includes Amendment 1, approved by CEN on 2008-08-14.

This document supersedes EN 547-3:1996.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 and A1.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

A1 For relationship with EU Directive(s), see informative Annexes ZA and ZB, which are integral parts of this document. A1

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Introduction

This European Standard is one of several ergonomics standards for the safety of machinery. EN 614-1 describes the principles designers should adopt in order to take account of ergonomic factors.

This standard has been prepared to be a harmonized standard in the sense of the Machinery Directive and associated EFTA regulations.

1 Scope

This European Standard specifies current requirements for human body measurements (anthropometric data) that are required by EN 547-1 and EN 547-2 for the calculation of access opening dimensions as applied to machinery.

The anthropometric data originate from static measurements of nude persons and do not take into account body movements, clothing, equipment, machinery operating conditions or environmental conditions.

The data are based on information from anthropometric surveys representative of population groups within Europe comprising at least three million people. Both men and women are taken into account.

Measurements are given, as required by EN 547-1 and EN 547-2, for the 5th, 95th and 99th percentiles of the relevant population group within Europe.

2 Normative references

This European standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 547-1, *Safety of Machinery – Human body measurements – Part 1: Principles for determining the dimensions required for openings for whole body access into machinery.*

EN 547-2, *Safety of Machinery - Human body measurements – Part 2: Principles for determining the dimensions required for access openings.*

prEN 979, *Basic list of definitions of human body measurements for technical design.*

EN 614-1, *Safety of Machinery - Ergonomic design principles – Part 1: Terminology and general principles.*

3 General requirements

Anthropometric measurements form the basis upon which minimum dimensions of access openings can be calculated. Where machinery requires access openings, then the provisions of EN 547-1 (for whole body access) and EN 547-2 (for access of parts of the body) shall be complied with.

Table 1 gives the human body measurements necessary to calculate the size of access openings taking account of the known range of body sizes within Europe.