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National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 1005-1:2002

ICS 01.040.13
13.110
13.180

SAFETY OF MACHINERY - HUMAN PHYSICAL PERFORMANCE - PART 1: TERMS AND DEFINITIONS

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EUROPEAN STANDARD
NORME EUROPÉENNE
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EN 1005-1

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English version

Safety of machinery - Human physical performance - Part 1: Terms and definitions

Sécurité des machines - Performance physique humaine - Partie 1: Termes et définitions

Sicherheit von Maschinen - Menschliche körperliche Leistung - Teil 1: Begriffe

This European Standard was approved by CEN on 30 September 2001.

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Foreword

This document 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of an identical text or by endorsement, at the latest by April 2002, and conflicting national standards shall be withdrawn at the latest by April 2002.

This document 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).

For relationship with EU Directive(s), see informative annex ZA, which is an integral part of this document.

EN 1005 consists of the following Parts, under the general title "Safety of machinery – Human physical performance:

— Part 1: Terms and definitions;

— Part 2[1]: Manual handling of machinery and component parts of machinery;

— Part 3: Recommended force limits for machinery operation;

— Part 4[1]: Evaluation of working postures and movements in relation to machinery;

— Part 5[1]: Risk assessment for repetitive handling at high frequency.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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[1] This European Standard is under preparation by CEN/TC 122/WG 4 "Biomechanics".

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Introduction

Ergonomically designed work systems enhance safety, effectiveness and efficiency, improve human working and living conditions, and counteract adverse effects on human health and performance. Good ergonomic design therefore exerts a favourable influence on the work system, and on the reliability of the human being within it.

This European Standard is one of several ergonomic standards for the safety of machinery.

EN 614-1 describes the principles manufacturers should adopt in order to take account of ergonomic factors. This standard has been prepared to be a harmonised standard in the sense of the Machinery Directive and associated EFTA regulations.

This European Standard is a type B standard as stated in EN 1070. The provisions of this document may be supplemented or modified by a type C standard.

NOTE For machines which are covered by the scope of a type C standard and which have been designed and built according to the provisions of that standard, the provisions of that type C standard take precedence over the provisions of this type B standard.

This European Standard has five parts that are intended to cover the range of human physical performance variables relating to machinery design. The scope contained within each document defines the boundaries of their application. Figure 1 illustrates the relationship between the standards concerning the different aspects of human performance. The relationship between standards proceed from those between the different aspects of human physical performance: body dimensions directly influence the shape of postures and movements as well as the available muscle strength, which further vary with postures and movements.

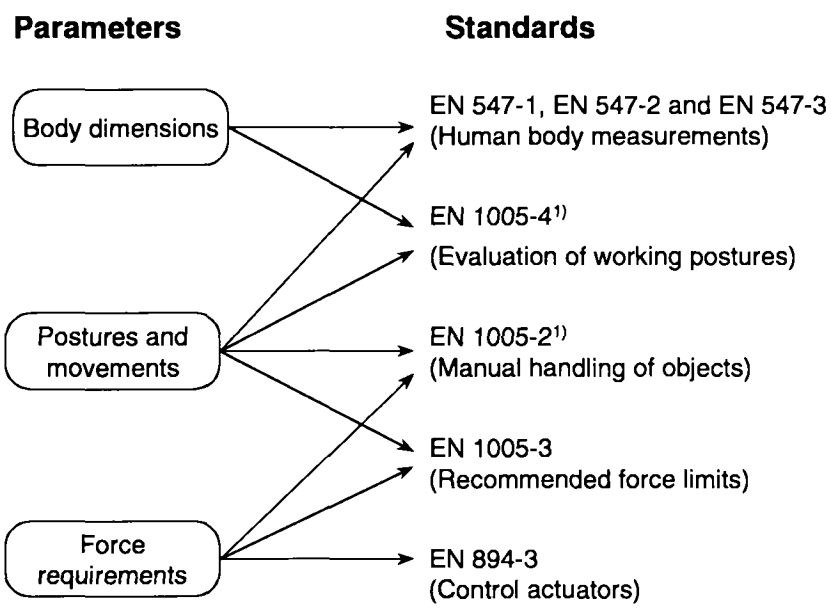

Figure 1 — Relation between physical performance parameters and standards

[1)] This European Standard is under preparation by CEN/TC 122/WG 4 "Biomechanics".

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