

# ISO TC 159/SC3

## Anthropometry and Biomechanics

**Scope** to provide basic standards and guidelines for standardization in anthropometry and biomechanics with respect to terminology, methodology & data.

**Chair** Dr. Masaaki Mochimaru, National Institute of Advanced Industrial Science and Technology, Tokyo, Japan

**Secretary** Mr. Seiichi Hisamoto, National Institute of Technology and Evaluation, Tokyo, Japan

**Participating Countries** (18)

**Observer Countries** (16)

**Working Groups**

WG1 Anthropometry

Convener: Dr. Claire C. Gordon  
(USA)

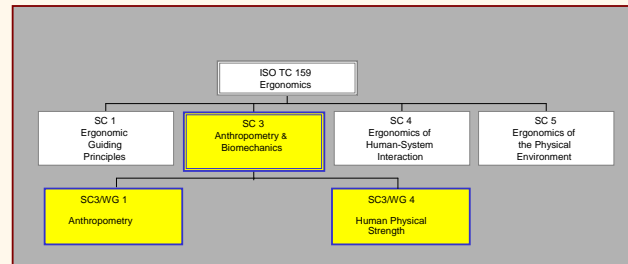
WG4 Human Physical Strength

Convener: Dr. Aleid Ringleberg

**How to get involved:**

- 1) Find out more about the ANSI/HFES TAG to ISO TC 159/SC3 by contacting: Bob Fox at robert.r.fox@gm.com
- 2) Participate in the HFES Standardization and Best Practices Working Group by contacting: Al Poston at aposton86@comcast.net

### Organizational Structure



### Current Projects:

**IS/TR 7250-2** Basic human body measurements for technological design – Part 2: Statistical summaries of body measurements from individual ISO populations

**ISO New Work Item Proposal 7250-3** Basic human body measurements for technological design – Part 3: Worldwide and regional design values for use in ISO equipment standards

**ISO Draft New Work Item Proposal** Ergonomics: manual Handling of People in the Health Care Sector

**ISO Draft New Work Item Proposal** Ergonomics: Application Document for ISO Standards on Manual Handling (ISO 11228-1,2,30 and Working Postures (ISO 11226)

**ISO Draft New Work Item Proposal** Standardization in the training and testing of anthropometric measurers.

**ISO Draft New Work Item Proposal** Test Protocols for 3D Body Scanners

**ISO Draft New Work Item Proposal** Standardization of Landmark Marking and Measurement Methods for 3-Dimensional Body Scan Data

In addition to the current projects, the ANSI/HFES TAG cooperates with other subcommittees to review and provide input to other documents. Anthropometric and strength data are often basic inputs to standards in various Technical Committees and Subcommittees.

### Published Standards

**ISO 7250-1:2008** Basic human body measurements for technological design

**ISO 11226:2000** Ergonomics -- Evaluation of static working postures

**ISO 11228-1:2003** Ergonomics -- Manual handling -- Part 1: Lifting and carrying

**ISO 11228-2:2007** Ergonomics -- Manual handling -- Part 2: Pushing and pulling

**ISO 11228-3:2007** Ergonomics -- Manual handling -- Part 3: Handling of low loads at high frequency

**ISO 14738:2002** Safety of Machinery -- Anthropometric requirements for the design of workstations at machinery

**ISO 15534:2000** Ergonomic design for the safety of machinery

Part 1: Principles for determining the dimensions required for openings for whole-body access into machinery

Part 2: Principles for determining the dimensions required for access openings

Part 3: Anthropometric data

**ISO 15535:2003** General requirements for establishing anthropometric databases

**ISO 15536-1:2005** Computer manikins and body templates – Part 1: General requirements

**ISO 15536-2** Ergonomics – Computer manikins and body templates – Part 2: Verification of functions and validation of dimensions for computer manikin systems

**ISO 15537:2004** Principles for selecting and using test persons for testing anthropometric aspects of industrial products and designs

**ISO/TS 20646-1:2004** Ergonomic procedures for the improvement of local muscular workloads part 1: Guidelines for reducing local muscular workload

**ISO 20685:2005** 3-D scanning methodologies for internationally compatible anthropometric databases