

# 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. Yoshiyuki Kobayashi, National Institute of Advanced Industrial Science and Technology, Tokyo, Japan

**Secretary:** Dr. Kanako Nakajima, National Institute of Advanced Industrial Science and Technology, Tokyo, Japan

**Participating Countries (24)**

**Observer Countries (13)**

### Working Groups

WG1 Anthropometry

Convener: Dr. Masaaki Mochimaru (Japan)

WG4 Human Physical Strength

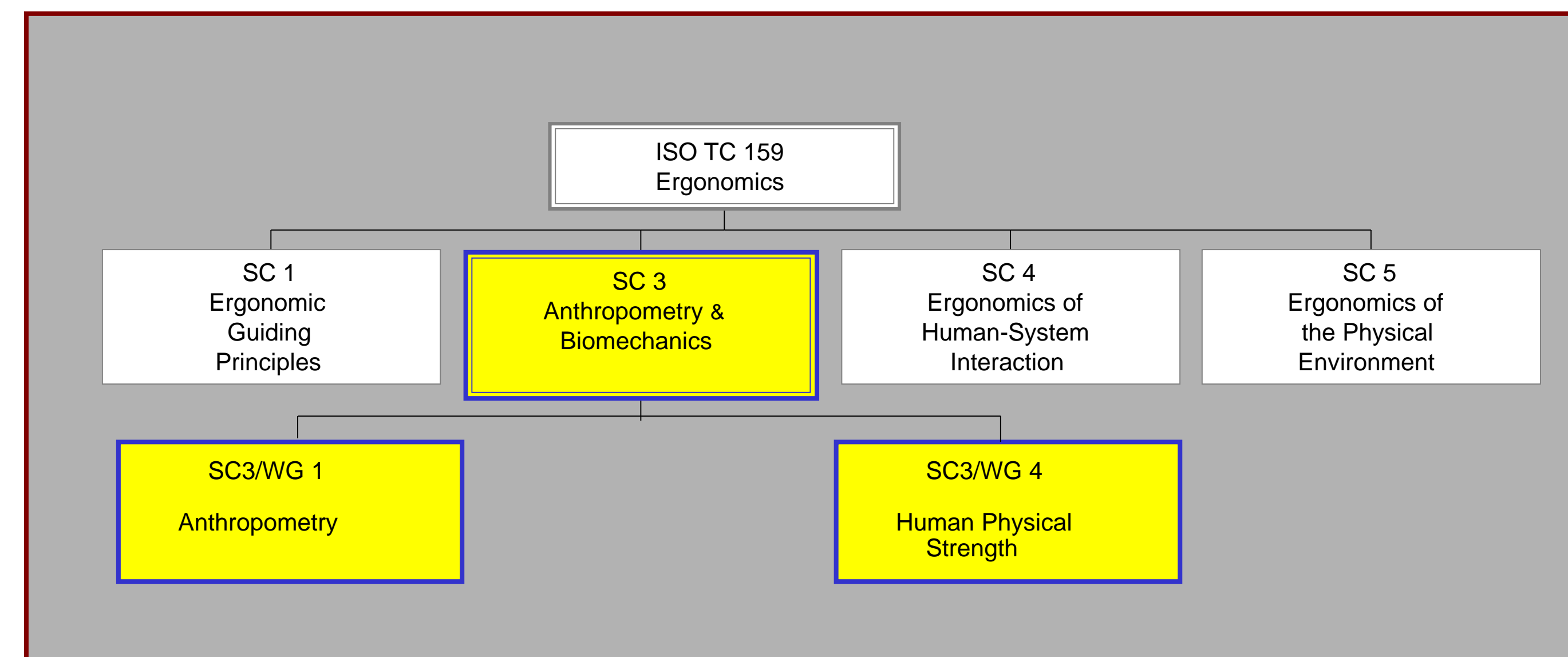
Convener: Dr. Aleid Ringleberg (Netherlands)

### How to get involved:

**Find out more about the ANSI/HFES TAG to ISO TC 159/SC3 by contacting: Bob Fox at [drbobfox56@gmail.com](mailto:drbobfox56@gmail.com)**

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.

### Organizational Structure



### Current Projects:

**\*\*ISO/FDIS 11228-2:2007/PRFAMD 1:** Ergonomics – Manual handling – Part 2: Pushing and pulling - Amendment 1

**ISO/AWI 11228-3:** Ergonomics – Manual handling – Part 3: Lifting of low loads at high frequency

**\*ISO DIS 14738:** Safety of Machinery – Anthropometric requirements for the design of workstations at machinery.

**\*ISO DTR 23474** Ergonomic principles for the design of sorting (recycling) cabins

**\*ISO CD 24227:** Accuracy evaluation protocol for daily living walking speed

**\*ISO/CD 23979:** Ergonomics-Accessible design – Ease of operation

**\*ISO/AWI 5716:** Multivariat analysis tools and techniques for synthesis with anthropometric data

**\*ISO/FDIS 15537:** Principles for selecting and using test persons for testing anthropometric aspects of industrial products and designs.

**ISO DTR 7015:** Ergonomics — Informative Application Document for International Standards (ISO 11228-1, ISO 11228-2 and ISO 11228-3), static working posture (ISO 11226), ISO/TR 12295 and ISO TR 23476 (agriculture) in the construction sector (civil construction)

### Published Standards

**ISO 11228-1:2021** Ergonomics -- Manual handling -- Part 1: Lifting, lowering and carrying.

**ISO TR 23476:** Ergonomics\_ Application of ISO 11228-1, ISO 11228-2, ISO 11228-3 and ISO 11226 in the agricultural sector

**ISO TR 23076:2021** Ergonomic Recovery Model for Cyclical Industrial Work

**ISO 7250** Basic human body measurements for technological design  
Part 1 (2017): Body measurement definitions and landmarks  
Part 2 (2010): Statistical summaries of body measurements from individual ISO populations  
Part 3 (2015): Worldwide and regional design ranges for use in product standards

### Published Standards (Continued)

**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 TR 12295: 2012** Ergonomics: Application Document for ISO Standards on Manual Handling (ISO 11228-1,2,30 and Working Postures ISO 11226)

**ISO TR 12296:2012** Ergonomics: Manual handling of people in the health care sector

**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 15535:2012** General requirements for establishing anthropometric databases

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

**ISO 15536-2:2007** 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 20685-1:2018** 3-D scanning methodologies for internationally compatible anthropometric databases – Part 1: Evaluation protocol for body dimensions extracted from 3-D body scans

**ISO 20685-2: 2014** 3-D scanning methodologies for internationally compatible anthropometric databases – Part 2: Test Protocols for 3D Body Scanners