

## **SC1 Ergonomic guiding principles**

---

### **SC1/WG1 Principles of the design of work systems (Revision of ISO 6385)**

ISO 6385:1981	Ergonomic principles in the design of work systems
FDIS 6385(rev.)	Ergonomics - Ergonomic principles in the design of work systems

### **SC1/WG2 Ergonomic principles related to mental work**

ISO 10075:1991	Ergonomic principles related to mental work-load -General terms and definitions ( JIS Z 8502:1994 人間工学 - 精神的作業負荷に関する原則 - 用語及び定義 )
ISO 10075-2 :1996 ( JIS Z 8503:1998	Ergonomic principles related to mental work-load –Design principles 人間工学 - 精神的作業負荷に関する原則 - 設計の原則 )
DIS 10075-3	Ergonomic principles related to mental work-load -Part 3: Principles and requirements concerning methods for measuring and assessing mental work-load
NWI/TR 10075	Ergonomic principles related to mental workload - Interpretation of ISO 10075 Part 1 to Part 3

### **SC1/WG4 Usability of everyday products**

CD 20282-1	Ease of operation of everyday products - Part 1:Context of use and user characteristics
CD 20282-2	Ease of operation of everyday products - Part 2:Test method

## **SC3 Anthropometry and biomechanics**

---

### **CEN Lead 規格**

CD 12892	Ergonomics – Reach envelopes
ISO 14738	Anthropometric requirements for the design of workstations at machinery
ISO 15534-1:2000	Ergonomics – Access dimensions for the design of machinery – Part 1: Principles for determining the dimensions required for openings for whole body access into machinery
ISO 15534-2:2000	– Part 2: Principles for determining the dimensions required for access openings
ISO 15534-3:2000	– Part 3: Anthropometric data
DIS 15536-1	Ergonomics – Computer manikins, body templates – Part1: General requirements
WD 15536-2	Ergonomics – Computer manikins, body templates – Part2:Structure and dimensions
DIS 15537	Principles for selecting and using test persons for anthropometric aspects of industrial products and designs
NP 20442	Safeguarding crushing points by means of a limitation of the active forces

### **SC3/WG1 Anthropometry**

ISO 7250:1996	Basic human body measurements for technical design
DIS 15535	General requirement for establishing anthropometric database
NP 20685	3D scanning methodologies for internationally compatible anthropometric databases

### **SC3/WG2 Evaluation of working postures**

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

### **SC3/WG4 Human physical strength : manual handling and force limits**

FDIS 11228-1	Ergonomics – Manual handling – Part 1: Lifting and carrying
WD 11228-2	Ergonomics – Manual handling – Part 2: Pushing, pulling and holding
WD 11228-3	Ergonomics – Manual handling – Part 3: Handling of low loads at high frequency

### **SC3/WG5 Principles and Application of the Standards**

NP 20646	Ergonomic procedures for the improvement of local muscular workloads
----------	--

## JIS 規格

JIS Z 8500:1994	人間工学 - 人体寸法測定
JIS Z 8500	人間工学 - 設計のための基本人体測定項目 (改正原案提出)

# SC4 Ergonomics of human-system interaction

---

## SC4/WG1 Fundamentals of controls and signalling methods

ISO 1503:1977	Geometrical orientation and directions of movements (JIS Z 8907:1985 方向性及び運動方向通則)
ISO 9355-1:1999	Ergonomic requirements for the design of displays and control actuators -Human interactions with displays and control actuators
ISO 9355-2:1999	-Displays
CD 9355-3	-Control actuators
CD 9355-4	-Location and arrangement of displays and control actuators

## SC4/WG2 Visual display requirements

ISO 9241-3:1992	Ergonomic requirements for office work with visual display terminals(VDTs) -Visual display requirements (JIS Z 8513:1994 人間工学 - 視覚表示装置を用いるオフィス作業 - 視覚表示装置の要求事項)
ISO 9241-3:1992/Amd 1 :2000	Ergonomic requirements for office work with VDTs -Part 3: Visual display -Amendment 1: Annex C(normative): Visual performance and comfort test
ISO 9241-7:1998	-Display requirements with reflections (JIS Z 8517:1999 人間工学 - 視覚表示装置を用いるオフィス作業 - 画面反射に関する表示装置の要求事項)
ISO 9241-8:1997	Ergonomic requirements for office work with VDTs - Requirements for displayed colours (JIS Z 8518:1998 人間工学 - 視覚表示装置を用いるオフィス作業 - 表示色の要求事項)
ISO 13406-1:1999	Ergonomic requirements for work with visual displays based on flat panels -Introduction (JIS Z 8528-1:2002 人間工学 - フラットパネルディスプレイ(FPD)を用いる作業 - 第1部: 通則)
ISO 13406-2:2001	Ergonomic requirements for work with visual displays based on flat panels -Ergonomic requirements for flat panel displays (JIS Z 8528-2 人間工学 - フラットパネルディスプレイ(FPD)を用いる作業 - 第2部: FPDの人間工学要求事項(原案提出))
WD 18789-1	Ergonomics of human system interaction—Ergonomic requirements and measurement techniques for electronic visual display - Introduction
WD 18789-2	- Terms and definitions
WD 18789-3	- Ergonomic requirements
WD 18789-4	- Usability laboratory test methods
WD 18789-5	- Optical laboratory test methods
WD 18789-6	- Workplace assessment methods
WD 18789-7	- Analysis and compliance methods

## SC4/WG3 Control, workplace and environmental requirements

ISO 9241-4:1998	Ergonomic requirements for office work with VDTs—Keyboard requirements (JIS Z 8514:2000 人間工学 - 視覚表示装置を用いるオフィス作業 - キーボードの要求事項)
ISO 9241-5:1998	Ergonomic requirements for office work with VDTs -Workstation layout and postural requirements (JIS Z 8515:2002 人間工学 - ワークステーションのレイアウト及び姿勢の要求事項)
ISO 9241-6:1999	Ergonomic requirements for office work with VDTs -Guidance on the work environment
ISO 9241-9:2000	-Requirements for non-keyboard input devices

## SC4/WG4 Task requirements

ISO 9241-2:1992	Ergonomic requirements for office work with VDTs
-----------------	--

–Guidance on task requirements  
(JIS Z 8512:1995 人間工学 - 視覚表示装置を用いるオフィス作業 - 仕事の要求事項についての指針)

#### SC4/WG5 Software ergonomics and human-computer dialogues

- ISO 9241-1:1997 Amd 1 :2001 Ergonomic requirements for office work with VDTs  
– Part 1: General introduction –Amendment 1
- ISO 9241-10:1996 (JIS Z 8520:1999 人間工学 - 視覚表示装置を用いるオフィス作業 - 対話の原則)  
– Dialogue principles
- ISO 9241-11:1998 Ergonomic requirements for office work with VDTs – Guidance on usability  
(JIS Z 8521:1999 人間工学 - 視覚表示装置を用いるオフィス作業 - 使用性の手引)
- ISO 9241-12:1998 Ergonomic requirements for office work with VDTs  
–Presentation of information
- ISO 9241-13:1998 Ergonomic requirements for office work with VDTs – User guidance
- ISO 9241-14:1997 Ergonomic requirements for office work with VDTs – Menu dialogues  
(JIS Z 8524:1999 人間工学 - 視覚表示装置を用いるオフィス作業 - メニュー対話)
- ISO 9241-15:1997 Ergonomic requirements for office work with VDTs – Command dialogues  
(JIS Z 8525:2000 人間工学 - 視覚表示装置を用いるオフィス作業 - コマンド対話)
- ISO 9241-16:1999 Ergonomic requirements for office work with VDTs  
–Direct manipulation dialogues  
(JIS Z 8526 人間工学 - 視覚表示装置を用いるオフィス作業 - 直接操作対話(原案提出))
- ISO 9241-17:1998 Ergonomic requirements for office work with VDTs – Form filling dialogues  
(JIS Z 8527 人間工学 - 視覚表示装置を用いるオフィス作業 - 書式記入対話(原案提出))
- ISO 14915-1:2002 Software ergonomics for multimedia user interfaces  
–Design principles and framework
- FDIS 14915-2 –Multimedia control and navigation
- ISO 14915-3:2002 –Selection of media and media combination
- TS 16071:2003 Ergonomics of human-system interaction  
–Guidance on accessibility for human-computer interfaces
- AWI 23973 Software ergonomics for World Wide Web user interfaces

#### SC4/WG6 Human centred design process for interactive systems

- ISO 9241-1:1997 Ergonomic requirements for office work with VDTs – General introduction  
(JIS Z 8511:1999 人間工学 - 視覚表示装置を用いるオフィス作業 - 通則)
- ISO 13407:1999 Human-centred design processes for interactive systems  
(JIS Z 8530:2000 インタラクティブシステムの人間中心設計過程)
- TR 16982 Usability methods supporting human-centred design
- TR 18529:2000 Ergonomics – Ergonomics of human-system interaction  
–Human-centred lifecycle process descriptions
- ISO/PRF PAS 18152: Ergonomics -- Ergonomics of human-system interaction  
-- A specification for the process assessment of human-system issues

#### SC4/WG8 Ergonomic design of control centres

- ISO 11064-1:2000 Ergonomic design of control centres  
–Principles for the design of control centres  
(JIS Z 8503-1 人間工学 - コントロールセンターの設計 - コントロールセンターの設計原則(原案提出))
- ISO 11064-2:2000 Ergonomic design of control centres  
– Principles for the arrangement of control suites  
(JIS Z 8503-2 人間工学 - コントロールセンターの設計 - コントロールスイートの基本配置計画の原則(原案提出))
- ISO 11064-3:1999 Ergonomic design of control centres –Control room layout  
(JIS Z 8503-3:1999 人間工学 - コントロールセンターの設計 - コントロールルームの配置計画)
- DIS 11064-4 Ergonomic design of control centres  
–Layout and dimensions of workstations
- WD 11064-5 –Displays, controls, interactions
- CD 11064-6 –Environmental requirements for control centres
- WD 11064-7 –Principles for the evaluation of control centres

## SC5 Ergonomics of the physical environment

---

### SC5/WG1 Thermal environments

ISO 7243:1995	Hot environments–Estimation of the heat stress on working man, based on the WBGT-index (wet bulb globe temperature)
(JIS Z 8504:1999	人間工学 - WBGT (湿球黒球温度) 指数に基づく作業者の熱ストレスの評価)
ISO 7726:1998	Ergonomics of the thermal environment –Instruments for measuring physical quantities
ISO 7730:1994	Moderate thermal environments –Determination of the PMV and PPD indices and specification of the conditions for thermal comfort
CD 7730(rev.)	Analytical determination and interpretation of thermal comfort using calculation of the PMV and PPD indices and local thermal comfort
ISO 7933:1989	Hot environments–Analytical determination and interpretation of thermal stress using calculation of required sweat rate
DIS 7933(rev.)	Ergonomics of the thermal environment- Analytical determination and interpretation of heat stress using calculation of the predicted heat strain
ISO 8996:1990	Ergonomics–Determination of metabolic heat production
DIS 8996(rev.)	Ergonomics–Determination of metabolic heat production
ISO 9886:1992	Evaluation of thermal strain by physiological measurements
DIS 9886(rev.)	Evaluation of thermal strain by physiological measurements
ISO 9920:1995	Ergonomics of the thermal environment –Estimation of the thermal insulation and evaporative resistance of a clothing ensemble
WD 9920(rev.)	Ergonomics of the thermal environment –Estimation of the thermal insulation and evaporative resistance of a clothing ensemble
ISO 10551:1995	Assessment of the thermal environment using subjective judgment scales
ISO 11079:1993	Evaluation of cold environments –Determination of required clothing insulation (IREQ)
WD 11079(rev.)	Evaluation of cold environments - Analytical determination and interpretation of cold stress using required clothing insulation (IREQ) and local
ISO 11399:1995	Ergonomics of the thermal environment–Principal and application of International Standards
ISO 12894: 2001	Ergonomics of the thermal environment–Medical supervision of individuals exposed to hot or cold environment
ISO 13731: 2002	Ergonomics of the thermal environment – Vocabulary and symbols
WD 13732-1	Ergonomics of the thermal environment – Hot surface Part 1: Risk of burns and recommendations for determining surface temperature limits
TS 13732-2:2001	Method for the assessment of human responses to contact with surfaces Part 2:–Human contact with surfaces at moderate temperature.
CD 13732-3	Ergonomics of the thermal environment – Touching of cold surface Part 3: Ergonomics data and guidance for application.
TS 14415:2001	Ergonomics of the thermal environment –Application of international standards for people with special requirements
CD 14505-1	Ergonomics of the thermal environment–Evaluation of the thermal environments in vehicles Part 1: Principles and methods for assessment of thermal stress.
CD 14505-2	Ergonomics of the thermal environment–Evaluation of the thermal environments in vehicles Part 2: Determination of Equivalent Temperature.
WD 14505-3	Ergonomics of the thermal environment –Evaluation of the thermal environments in vehicles Part 3: Evaluation of thermal comfort using human subjects.
CD 15265	Ergonomics of the thermal environment –Risk assessment strategy for the prevention of stress or discomfort in thermal working conditions
WD 15743	Ergonomics of the thermal environment–Working practice in cold: Strategy for risk assessment and management and environments.
NP 15742	Determination at the combined effect of the thermal environment, air pollution, acoustics and illumination on humans

### SC5/WG2 Lighting Environments

ISO/CIE 8995: 2002	Lighting of indoor work places
--------------------	--------------------------------

### SC5/WG3 Danger signals and communication in noisy environments

ISO 7731:1986	Danger signals for workplaces – Auditory danger signals
DIS 7731(rev.)	Danger signals for Public and workplaces – Auditory danger signals
ISO 9921-1:1996	Ergonomic assessment of speech communication

	-Speech Interference level and communication distances for persons with normal hearing capacity in direct communication (SIL method)
DIS 9921(rev.)	Ergonomic assessment of speech communication
ISO 11428:1996	Ergonomics –Visual danger signals –General requirements, design and testing
ISO 11429:1996	Ergonomics –System of auditory and visual danger and information signals
PRF TR 19358	Ergonomics – Construction and application of tests for speech technology systems