

### 3 . ISO/TC159 規格、規格原案、関連 JIS 規格一覧

## SC1 Ergonomic guiding principles

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

ISO 6385:1981	Ergonomic principles in the design of work systems
DIS 6385(rev.)	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	Ergonomic principles related to mental work-load –Design principles
(JIS Z 8503:1998	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

### SC1/WG4 Usability of everyday products

CD 20282-1	Usability of everyday products - Guide for the design and evaluation of easy-to-operate everyday products
AWI 20282-2	Usability of everyday products - Test method

## SC3 Anthropometry and biomechanics

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### CEN Lead 規格

NP 12892	Ergonomics – Reach envelopes
FDIS 14738	Anthropometric requirements for the design of workstations at machinery
ISO 15534-1:2000	Ergonomics – Access dimensions for the design of machinery –Principles for determining the dimensions required for openings for whole body access into machinery
ISO 15534-2:2000	–Principles for determining the dimensions required for access openings
ISO 15534-3:2000	–Anthropometric data
DIS 15536-1	Ergonomics – Computer manikins, body templates – General requirements
DIS 15536-2	Ergonomics – Computer manikins, body templates –Structure and dimensions
WD 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
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### SC3/WG4 Human physical strength : manual handling and force limits

DIS 11228-1	Ergonomics – Manual handling – Lifting and carrying
WD 11228-2	Ergonomics – Manual handling – Pushing, pulling and holding
WD 11228-3	Ergonomics – Manual handling – 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
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## 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**

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## **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 8528:2002)	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 test 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 8527:2002 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)
- FDIS 14915-1 Software ergonomics for multimedia user interfaces  
 –Design principles and framework
- DIS 14915-2 –Multimedia control and navigation
- FDIS 14915-3 –Selection of media and media combination
- NP XXXX *Ergonomic design of World-Wide-Web User Interfaces*
- DTS 16071 Ergonomics of human-system interaction  
 –Guidance on accessibility for human-computer 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)
- FDTR 16982 Usability methods supporting human-centred design
- TR 18529:2000 Ergonomics– *Ergonomics of human-system interaction*  
 –*Human-centred lifecycle process descriptions*

#### 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 8503-1:2002 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)
- 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)
CD 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

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### 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 8540:1999 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.)	Moderate thermal environments –Determination of the PMV and PPD indices and specification of the conditions for thermal comfort
ISO 7933:1989	Hot environments–Analytical determination and interpretation of thermal stress using calculation of required sweat rate
CD 7933(rev.)	Hot environments - Analytical determination and interpretation of thermal stress using calculation of the predicted heat strain
ISO 8996:1990	Ergonomics–Determination of metabolic heat production
CD 8996(rev.)	Ergonomics–Determination of metabolic heat production
ISO 9886:1992	Evaluation of thermal strain by physiological measurements
CD 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 –Assessment of the thermal environment using subjective judgment scales
ISO 10551:1995	
ISO 11079:1993	Evaluation of cold environments –Determination of required clothing insulation (IREQ)
WD 11079(rev.)	Evaluation of cold environments –Determination of required clothing insulation (IREQ)
ISO 11399:1995	–Principal and application of International Standards
ISO 12894: 2001	Ergonomics of the thermal environment –Medical supervision of individuals exposed to hot or cold environment
FDIS 13731	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	Ergonomics of the thermal environment –Evaluation of the thermal environments in vehicles
CD 15265	Ergonomics of the thermal environment –Risk assessment strategy for the prevention of stress or discomfort in thermal working conditions
NP 15742	Determination at the combined effect of the thermal environment, air pollution, acoustics and illumination on humans
WD 15743	- Working practices for cold environments

### SC5/WG2 Lighting Environments

ISO/CIE 8995            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 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