

表1 ISO/TC159規格、規格原案、関連JIS規格一覧(1999.3.31)(1)

**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
CD 6385	Ergonomic principles of the design of work systems(Revision)

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

ISO 10075-1:1991	Ergonomic principles related to mental work-load –General terms and definitions
JIS Z 8502:1994	人間工学 - 精神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
WD 10075-3	Ergonomic principles related to mental work-load –Measurement and assessment of mental work load

**SC3 Anthropometry and biomechanics**

DIS 15534-1	Ergonomics – Access dimensions for the design of machinery –Principles for determining the dimensions required for openings for whole body access into machinery
DIS 15534-2	–Principles for determining the dimensions required for access openings
DIS 15534-3	–Anthropometric data
NP 15537	Selection of persons for testing of anthropometric aspects of industrial products and designs

**SC3/WG1 Anthropometry**

ISO 7250	Basic human body measurements for technical design
JIS Z 8500:1994	人間工学 - 人体寸法測定
FDIS 14738	Anthropometric requirements for the design of workstations at machinery
NP 12892	Ergonomics – Reach envelopes
NP 15535	Anthropometric database
NP 15536	Ergonomics – Computer manikins and body templates

**SC3/WG2 Evaluation of working postures**

DIS 11226	Ergonomics – Evaluation of 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
WD11228-2	Ergonomics – Manual handling – Pushing, pulling and holding
WD11228-3	Ergonomics – Manual handling – Handling of low loads at high frequency

**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
NP 1503	Geometrical orientation and directions of movements(Revision)
DIS 9355-1	Ergonomic requirements for the design of displays and control actuators –Human interactions with displays and control actuators
DIS 9355-2	–Displays

表 1 ISO/TC159規格、規格原案、関連JIS規格一覧 ( 1999.3.31 ) (2)

CD 9355-3	–Control actuators
WD 9355-4	–Location and arrangement of displays and control actuators

**SC4/WG2 Visual display requirements**

ISO 9241-3:1992	<i>Ergonomic requirements for office work with VDTs- Visual display requirements</i>
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
DIS/ISO 9241-3 : 1992/Amd 1	Ergonomic requirements for office work with visual display terminals (VDTs) –Part 3: Visual display requirements–Amendment 1:Annex C Visual performance and comfort test
ISO 9241-7:1998	<i>Ergonomic requirements for office work with VDTs –Display requirements with reflections</i>
JIS Z 8517	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 ( 原案提出 )
ISO 9241-8 :1997	<i>Ergonomic requirements for office work with VDTs – Requirements for displayed colours</i>
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
FDIS 13406-1	Ergonomic requirements for work with visual displays based on flat panels –Introduction
FDIS 13406-2	–Ergonomic requirements for flat panel displays

**SC4/WG3 Control, workplace and environmental requirements**

ISO 9241-4:1998	<i>Ergonomics requirements for office work with VDTs–Keyboard requirements</i>
ISO 9241-5:1998	<i>Ergonomics requirements for office work with VDTs –Workstation layout and postural requirements</i>
FDIS 9241-6.2	–Guidance on the work environment
FDIS 9241-9 .3	–Requirements for non-keyboard input devices
WD/TS 16648	–Space organization and workplace layout - Considerations supporting the requirements presented in ISO 9241-6

**SC4/WG4 Task requirements**

ISO 9241-2:1992	<i>Ergonomic requirements for office work with VDTs –Guidance on Task requirements</i>
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手引き

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

ISO 9241-10:1996	<i>Ergonomics requirements for office work with VDTs – Dialogue principles</i>
JIS Z 8520	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 ( 原案提出 )
ISO 9241-11:1998	<i>Ergonomics requirements for office work with VDTs – Guidance on usability</i>
JIS Z 8521	人間工学 - 視覚表示装置を用いるオフィス作業 - 使用性の手引き ( 原案提出 )
ISO 9241-12:1998	<i>Ergonomics requirements for office work with VDTs –Presentation of information</i>
ISO 9241-13:1998	<i>Ergonomics requirements for office work with VDTs – User guidance</i>

**表1 ISO/TC159規格、規格原案、関連JIS規格一覧(1999.3.31)(3)**

ISO 9241-14:1997	<i>Ergonomics requirements for office work with VDTs – Menu dialogues</i>
JIS Z 8524	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 (原案提出)
ISO 9241-15:1997	<i>Ergonomics requirements for office work with VDTs – Command dialogues</i>
FDIS 9241-16	Ergonomics requirements for office work with VDTs –Direct-manipulation dialogues
ISO 9241-17:1998	<i>Ergonomics requirements for office work with VDTs – Form-filling dialogues</i>
CD 9241-1:1997/DAM 1 Amd.1 AnnexB	Ergonomic requirements for office work with visual display terminals (VDTs) –Description and application of the software parts (Part 10 to Part 17)
CD 14915-1	Multimedia User Interface Design - Software Ergonomic Requirements –Introduction and Framework
WD 14915-2	–Multimedia control and navigation
WD 14915-3	–Selection of media and media combination
NP 14915-4	–Domain-specific multimedia interfaces
NP/TS 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	<i>Ergonomic requirements for office work with VDTs – General introduction</i>
JIS Z 8511	人間工学 - 視覚表示装置を用いるオフィス作業 - 総論(原案提出)
FDIS 13407	Human centred design processes for interactive systems
NP/TS 16982	Usability methods supporting human centred design

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

DIS 11064-1	Ergonomic design of control centres –Principles for the design of control centres
DIS 11064-2	–Principles of control suite arrangement
FDIS 1103	–Control room layout
JIS Z 8XXX--3	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(原案提出)
WD 11064-5	–Displays and controls
WD 11064-6	–Environmental requirements for control centres
WD 11064-7	–Principles for the evaluation of control centres
NP 11064-8	–Ergonomics requirements for specific applications

**SC5 Ergonomics of the physical environment**

**SC5/WG1 Thermal environments**

ISO 7243:1989	<i>Hot environments–Estimation of the heat stress on working man, based on the WBGT-index(wet bulb globe temperature)</i>
JIS Z 8XXX	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 - 暑熱環境(原案提出)
ISO 7726:1998	<i>Ergonomics of the thermal environment</i> –Instruments for measuring physical quantities
ISO 7730:1994	<i>Moderate thermal environments –Determination of the PMV and PPD indices and specification of the conditions for thermal comfort</i>

**表 1 ISO/TC159規格、規格原案、関連JIS規格一覧 ( 1999.3.31 ) (4)**

ISO 7933:1989	<i>Hot environments—Analytical determination and interpretation of thermal stress using calculation of required sweat rate</i>
ISO 8996:1995	<i>Ergonomics—Determination of metabolic heat production</i>
ISO 9886:1992	<i>Evaluation of thermal strain by physiological measurements</i>
ISO 9920:1995	<i>Ergonomics of the thermal environment —Estimation of the thermal insulation and evaporative resistance of a clothing ensemble</i>
ISO 10551:1995	<i>Assessment of the influence of the thermal environment using subjective judgement scales</i>
ISO 11399:1995	<i>Ergonomics of the thermal environment —Principles and application of international standards</i>
ISO/TR 11079:1993	<i>Evaluation of cold environments —Determination of required clothing insulation (IREQ)</i>
DIS 12894	Ergonomics of the thermal environment —Medical supervision of individuals exposed to hot or cold environment
DIS 13731	Ergonomics of the thermal environment – Vocabulary and symbols
NP 13732-1	Ergonomics of the thermal environment – Method for the assessment of human responses to contact with surfaces —Human contact with surfaces at hot temperature
CD 13732-2	—Human contact with surfaces at moderate temperature.
NP 13732-3	—Human contact with surfaces at cold temperature
NP 14415	Ergonomics of the thermal environment —Application of international standards for people with special requirements
NP 14505	Ergonomics of the thermal environment in vehicles
NP 15265	Ergonomics of the thermal environment —Risk assessment of stress or discomfort in thermal working conditions
NP 15266	—Assessment of long term thermal comfort performance of indoor environments
NP 15742	—Determination at the combined effect of the thermal environment, air pollution, acoustics and illumination on humans
NP 15743	—Working practices for cold indoor environments

**SC5/WG2 Lighting environment**

ISO 8995:1989	<i>Principles of visual ergonomics – The lighting of indoor work systems</i>
CD 8995	Principles of visual ergonomics – The lighting of indoor work systems(Revision)

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

ISO 7731:1986	<i>Danger signals for workplaces – Auditory danger signals</i>
WD 7731	Danger signals for workplaces – Auditory danger signals(Revision)
ISO 9921-1:1996	<i>Ergonomic assessment of speech communication —Speech Interference level and communication distances for persons with normal hearing capacity in direct communication (SIL-method)</i>
CD 9921-2	—Assessment of speech communication by means of the Modified Articulation Index(MAI-method)
CD 9921-3	—Speech communication with electro-acoustic systems
ISO 11428:1996	<i>Ergonomics –Visual danger signals –General requirements, design and testing</i>
ISO 11429 :1996	<i>Ergonomics —System of danger and non-danger signals with sound and light</i>

表1 ISO/TC159規格、規格原案、関連JIS規格一覧(1998.5.1)(1)

**SC1 Ergonomic guiding principles**

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

CD 6385 Ergonomic principles of the design of work systems(Revision)

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

*ISO 10075-1:1991 Ergonomic principles related to mental work-load –General terms and definitions*

*JIS Z 8502:1994 人間工学 - 精神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 人間工学 - 精神的作業負荷に関する原則 - 設計の原則 (原案提出)*

WD 10075-3 Ergonomic principles related to mental work-load  
–Measurement and assessment of mental work load

**SC3 Anthropometry and biomechanics**

DIS 15534-1 Ergonomics – Access dimensions for the design of machinery  
–Principles for determining the dimensions required for openings for whole  
body access into machinery

DIS 15534-2 –Principles for determining the dimensions required for access openings

DIS 15534-3 –Anthropometric data

NP 12892 Ergonomics – Reach envelopes

NP 15537 Selection of persons for testing of anthropometric aspects of industrial products  
and designs

**SC3/WG1 Anthropometry**

*ISO 7250 Basic human body measurements for technical design*

*JIS Z 8500:1994 人間工学 - 人体寸法測定*

DIS 14738 Safety of machinery - Anthropometric requirements for the design of workstations  
at machinery

NP 15535 Anthropometric database

NP 15536 Safety of machinery – Human body measurements – Structures and dimensions of  
computer manikins for the design and evaluation of work space

**SC3/WG2 Evaluation of working postures**

CD 11226 Ergonomics – Evaluation of working postures

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

CD 11228-1 Ergonomics – Manual handling – Lifting and carrying

WD11228-2 Ergonomics – Manual handling – Pushing, pulling and holding

WD11228-3 Ergonomics – Manual handling – Handling of low loads at high frequency

**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*

NP 1503 Geometrical orientation and directions of movements(Revision)

DIS 9355-1 Ergonomic requirements for the design of displays and control actuators  
–Human interactions with displays and control actuators

DIS 9355-2            –Displays  
CD 9355-3            –Control actuators

#### **SC4/WG2 Visual display requirements**

ISO 9241-3:1992    *Ergonomic requirements for office work with 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  
CD/ISO 9241-3 : 1992/Amd 1  
Ergonomic requirements for office work with visual display terminals (VDTs)  
–Part 3: Visual display –Amendment 1:User performance test

**表1 ISO/TC159規格、規格原案、関連JIS規格一覧(1998.5.1)(2)**

ISO 9241-7:1998    *Ergonomic requirements for office work with VDTs*  
                          –Display requirements with reflections  
ISO 9241-8 :1997    – Requirements for displayed colours  
JIS Z 8521            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  
                          (原案提出)  
DIS 13406-1         Ergonomic requirements for work with visual displays based on flat panels  
                          –Introduction  
DIS 13406-2         –Ergonomic requirements for flat panel displays

#### **SC4/WG3 Control, workplace and environmental requirements**

FDIS 9241-4         Ergonomics requirements for office work with VDTs  
                          –Keyboard requirements  
FDIS 9241-5         –Workstation layout and postural requirements  
DIS 9241-6.2        –Environmental requirements  
WD/ ISO 9241-6TR    –Environmental requirements Technical report  
CD 9241-9.3         –Requirements or 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手引き

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

ISO 9241-10:1996    *Ergonomics requirements for office work with VDTs - Dialogue principles*  
JIS Z 8520            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  
                          (原案提出)  
ISO 9241-11:1998    *Ergonomics requirements for office work with VDTs*  
                          –Guidance on usability(1998-03-15)  
JIS Z 8521            人間工学 - 視覚表示装置を用いるオフィス作業 - 使用性の手引き  
                          (原案提出)  
DIS 9241-12         Ergonomics requirements for office work with VDTs  
                          –Presentation of information  
FDIS 9241-13         –User guidance  
ISO 9241-14:1997    *Ergonomics requirements for office work with VDTs – Menu dialogues*  
ISO 9241-15:1997    *Ergonomics requirements for office work with VDTs – Command dialogues*  
DIS 9241-16         Ergonomics requirements for office work with VDTs  
                          –Direct-manipulation dialogues

FDIS 9241-17	-Form-filling dialogues
CD 14915-1	Multimedia User Interface Design - Software Ergonomic Requirements
	-Introduction and Framework
WD 14915-2	-Multimedia control and navigation
WD 14915-3	-Selection of media and media combination
NP 14915-4	-Domain-specific multimedia aspects

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

ISO 9241-1:1997	<i>Ergonomic requirements for office work with VDTs – General introduction</i>
JIS Z 8511	人間工学 - 視覚表示装置を用いるオフィス作業 - 総論 (原案提出)
DIS 13407	Human centred design process for interactive systems

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

CD 11064-1	Ergonomic design of control centres
	-Principles for the design of control centres
CD 11064-2	-Principles of control suite arrangement
DIS 11064-3	-Control room layout
WD 11064-4	-Workstation layout and dimensions

**表 1 ISO / TC159 規格、規格原案、関連 JIS 規格一覧 (1998.5.1) (3)**

WD 11064-5	-Displays and controls
WD 11064-6	-Environmental requirements for control centres
WD 11064-7	-Principles for the evaluation of control centres
WD 11064-8	-Ergonomics requirements for specific applications

#### **SC5 Ergonomics of physical environment**

##### **SC5/WG1 Thermal environments**

ISO 7243:1989	<i>Hot environments–Estimation of the heat stress on working man, based on the WBGT-index(wet bulb globe temperature)</i>
ISO 7726:1985	<i>Ergonomics of the thermal environment</i>
	-Instruments for measuring physical quantities
FDIS 7726	Ergonomics of the thermal environment
	-Instruments for measuring physical quantities(Revision)
ISO 7730:1994	<i>Moderate thermal environments –Determination of the PMV and PPD indices and specification of the conditions for thermal comfort</i>
ISO 7933:1989	<i>Hot environments–Analytical determination and interpretation of thermal stress using calculation of required sweat rate</i>
ISO 8996:1995	<i>Ergonomics–Determination of metabolic heat production</i>
ISO 9886:1992	<i>Evaluation of thermal strain by physiological measurements</i>
ISO 9920:1995	<i>Ergonomics of the thermal environment –Estimation of the thermal insulation and evaporative resistance of a clothing ensemble</i>
ISO 10551:1995	<i>Assessment of the influence of the thermal environment using subjective judgement scales</i>
ISO 11399:1995	<i>Ergonomics of the thermal environment</i>
	-Principles and application of international standards
ISO/TR 11079:1993	<i>Evaluation of cold environments</i>
	-Determination of required clothing insulation (IREQ)
DIS 12894	Ergonomics of the thermal environment
	-Medical supervision of individuals exposed to hot or cold environment

DIS 13731	Ergonomics of the thermal environment –Definitions, symbols and units
NP 13732-1	Method for the assessment of human responses to contact with surfaces –Human contact with surfaces at hot temperature
CD 13732-2	–Human contact with surfaces at moderate temperature.
NP 13732-3	–Human contact with surfaces at cold temperature
NP 5742	Determination at the combined effect of the thermal environment, air pollution, acoustics and illumination on humans
NP 5743	Working practices for cold environments
NP 14505	Ergonomics of the thermal environment in vehicles
NP 14415	Ergonomics of the thermal environment –Application of international standards for people with special requirements
NP 15266	Assessment of long term thermal comfort performance of indoor environments

### **SC5/WG2 Lighting environment**

ISO 8995:1989	<i>Principles of visual ergonomics – The lighting of indoor work systems</i>
CD 8995	Principles of visual ergonomics– The lighting of indoor work systems(Revision)

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

ISO 7731:1996	<i>Danger signals for workplace – Auditory danger signals</i>
WD 7731	Danger signals for workplace – Auditory danger signals(Revision)
ISO 9921-1:1996	<i>Ergonomic assessment of speech communication</i> – <i>Speech Interference level and communication distances for persons with normal hearing capacity in direct communication (SIL-method)</i>
CD 9921-2	–Assessment of speech communication by means of the Modified Articulation Index(MAI-method)
CD 9921-3	–Speech communication with electro-acoustic systems
ISO 11428:1996	<i>Ergonomics –Visual danger signals –General requirements, design and testing</i>
ISO 11429 :1996	<i>Ergonomics –System of danger and non-danger signals with sound and light</i>