Cranes

1 Terminology and graphic symbols

ISO 4306-1:1990 X
Cranes – Vocabulary – Part 1: General

ISO 4306-2:1994 X
Lifting appliances – Vocabulary – Part 2: Mobile cranes

ISO 4306-3:1991 X
Cranes – Vocabulary – Part 3: Tower Cranes

ISO 7296:1:1991 X
Cranes – Graphic symbols – Part 1: General

1.1 Safety colours, safety signs and hazard pictorials

ISO 3864:1984 X
Safety colours and safety signs

ISO 13200:1995 X
Cranes – Safety signs and hazard pictorials – General principles

2 Information to be provided

ISO 7363:1986 X
Cranes and lifting appliances – Technical characteristics and acceptance documents

ISO 9374:1:1989 X
Cranes – Information to be provided – Part 1: General

ISO 9374-4:1989 X
Cranes – Information to be provided – Part 4: Jib cranes

ISO 9374-5:1991 X
Cranes – Information to be provided - Part 5: Overhead travelling cranes and portal bridge cranes

3 Use, operation and maintenance

3.11nformation labels

ISO 9942-1:1994 X

Cranes – Information labels – Part 1: General

3.2 Manuals

ISO 9928-1:1990 X
Cranes – Crane driving manual – Part 1: General

ISO 10973-1:1995 X
Cranes – Spare parts manual

ISO 12478-1:1996 X

Cranes – Maintenance manual – Part 1: General

3.3 Training of Drivers

ISO 9926-1:1990 X
Cranes – Training of Drivers – Part 1: General

3.4 Inspections and condition monitoring

ISO 9927-1:1994 X
Cranes – Inspections – Part 1: General

ISO 12482-1:1995 X
Cranes – Condition monitoring – Part 1: General

3.5 Use and maintenance

ISO 3056:1986 X
Non-calibrated round steel link lifting chain and chain slings – Use and maintenance

ISO 4309:1990 X
Cranes – Wire ropes – Code of practice for examination and discard

ISO 4878:1981 (extract from) X
– Flat woven webbing slings made of man-made fibre

ISO 7592:1983 X
Calibrated round steel link lifting chains – Guidelines to proper use and maintenance

ISO 8792:1986 X
Wire rope slings – Safety criteria and inspection procedures for use

ISO 12480-1:1996 X
Cranes – Safe use – Part 1: General

1 Particular crane design requirements (concerning general principles for design; see section 7)

4.1 Range of maximum capacity

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Lifting appliances – Range of maximum capacities for basic models

4.2 Classification

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ISO 4301-2:1985 23
Lifting appliances – Classification – Part 2: Mobile cranes

ISO 4301-3:1993 **25**
Cranes – Classification – Part 3: Tower cranes

ISO 4301-4:1989 28
Cranes and related equipment – Classification – Part 4: Jib cranes

ISO 4301-5:1991 30
Cranes – Classification – Part 5: Overhead travelling and portal bridge cranes

4.3 Wind load assessment, stability and design principles for loads and load combinations

ISO 4302:1981 35
Cranes – Wind load assessment

ISO 4304:1987 41
Cranes other than mobile and floating cranes – General requirements for stabiltiy

ISO 4305:1991 **44**
Mobile cranes – Determination of stability

ISO 8686-1:1989 49
Cranes – Design principles for loads and load combinations – Part 1: General

ISO 8686-5:1992 78
Cranes – Design principles for loads and load combinations – Part 5: Overhead travelling and portal bridge cranes

4.4 Selection of wire ropes. Drum and sheave sizes

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Cranes and lifting appliances – Selection of wire ropes – Part 1: General

ISO 4308-2:1988 90
Cranes and lifting appliances – Selection of wire ropes – Part 2: Mobile cranes – Coefficient of utilization

ISO 8087:1995 92
Mobile cranes – Drum and sheave sizes

4.5 Tolerances for cranes and tracks

ISO 8306:1985 95
Cranes – Overhead travelling cranes and portal bridge cranes – Tolerances for cranes and tracks

4.6 Limiting and indicating devices

ISO 10245-1:1994 10
Cranes – Limiting and indicating devices – Part 1: General

ISO 10245-2:1994 10
Cranes – Limiting and indicating devices – Part 2: Mobile cranes

ISO 10245-5:1995 **11**
Cranes – Limiting and indicating devices – Part 5: Overhead travelling and portal bridge cranes

4.7 Controls and cabins

ISO 7752-1:1983 **11**
Lifting appliances – Controls – Layout and characteristics – Part 1: General principles

ISO 7752-2:1985 12
Lifting appliances – Controls – Layout and characteristics – Part 2: Basic arrangement and requirements for mobile cranes

ISO 7752-2:1985 12
Addendum 1: 1986 to ISO 7752-2: 1985

ISO 7752-3:1993 13
Cranes – Controls – Layout and characteristics – Part 3: Tower cranes

ISO 7752-4:1989 134
Cranes – Controls – Layout and characteristics – Part 4: Jib cranes

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ISO 8566-5:1995 154
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4.8 Access, guards and restraints

ISO 11660-2:1994 159
Cranes – Access, guards and restraints – Part 2: Mobile cranes

5 Test code and procedures, test methods

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Cranes – Test code and procedures

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Cranes and related equipment – Accuracy requirements for measuring parameters during testing

ISO 11662-1:1995 181
Mobile cranes – Experimental determination of crane performance – Part 1: Tipping loads and radii

6 Accessories

6.1 Hooks, chains and chain slings

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Short link chain for lifting purposes – General conditions of acceptance

ISO 1835:1980 199
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ISO 1837:1973 207
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ISO 2308:1972 208
Hooks for liftings, freight containers of up to 30 tonnes capacity – Basic requirements

ISO 2415:1987 210
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ISO 3075:1980 **224**
Short link chain for lifting purposes – Grade S (6), non calibrated, for chain slings, etc.
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ISO 3077:1984 241
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ISO 3266:1984 250
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ISO 4778:1981 257
Chain slings of welded construction – Grades M (4), S (6) and T (8)
ISO 4779:1986 272
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ISO 7593:1986 277
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ISO 7597:1987 292
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ISO 8539:1986 297
Forged steel lifting components for use with grade T (8) chain

6.2 Steel wire ropes and wire rope slings

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Round drawn wire for general purpose non-alloy steel wire ropes and for large diameter steel wire ropes – Specifications
ISO 2262:1984 317
General purpose thimbles for use with steel wire ropes – Specification
ISO 2408:1985 320
Steel wire ropes for general purposes – Characteristics
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Steel wire ropes for general purposes – Terms of acceptance
ISO 3189-1:1985 342
Sockets for wire ropes for general purposes – Part 1: General characteristics and conditions of acceptance
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Steel wire ropes – Fibre main cores – Specifications

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Steel wire ropes for general purposes – Lubricants – Basic requirements

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Wire rope slings for general purposes – Characteristics and specifications

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Socketing procedures for wire ropes – Molten metal socketing

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ISO 8793:1986 382
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High breaking load steel wire ropes – Specifications

6.3 Fibre ropes

ISO 9554:1991 395
Fibre ropes – General Specification

ISO 1140:1990 400
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ISO 1141:1990 404
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ISO 1346:1990 411
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ISO 1969:1990 415
Ropes – Polyethylene – Specification

6.4 Flat woven webbing slings

ISO 4878:1981 421
Flat woven slings made of man-made fibre

Safety of machinery – Basic concepts, general principles for design

ISO/TR 12100-1:1992 **437**
Safety of machinery – Basic concepts – General principles for design – Part 1: Basic terminology, methodology

ISO/TR 12100-2:1992 460
Safety of machinery – Basic concepts – General principles for design – Part 2: Technical principles and specifications