



MALAYSIAN STANDARD

MS 2496:2012

Cranes - Bridge and gantry cranes

ICS: 53.020.20

Descriptors: cranes, bridge cranes, gantry cranes, safety

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Committee representation

The Industry Standards Committee on Mechanical Engineering (ISC F) under whose authority this Malaysian Standard was adopted, comprises representatives from the following organisations:

Department of Occupational Safety and Health Malaysia
Department of Standards Malaysia
Jabatan Kerja Raya Malaysia
Machinery and Equipment Manufacturers' Association
Malaysian Industrial Development Authority
Malaysian Iron and Steel Industry Federation
Ministry of International Trade and Industry
National Institute of Occupational Safety and Health
Petroleum Nasional Berhad
Science and Technology Research Institute for Defence
SIRIM Berhad (Secretariat)
SIRIM QAS International Sdn Bhd
Suruhanjaya Perkhidmatan Air Negara
Suruhanjaya Tenaga
The Institution of Engineers, Malaysia
Universiti Kebangsaan Malaysia
Universiti Malaya
Universiti Sains Malaysia
Universiti Teknologi Malaysia

The Technical Committee on Lifting Devices which supervised the adoption of the EN Standard as Malaysian Standard consists of representatives from the following organisations:

Construction Industry Development Board Malaysia
Department of Occupational Safety and Health Malaysia
Favelle Favco Cranes (M) Sdn Bhd
IKRAM QA Services Sdn Bhd
MHE-Demag Malaysia Sdn Bhd
MS Elevator Engineering Sdn Bhd
Northport (Malaysia) Berhad
SIRIM Berhad (Secretariat)
SIRIM QAS International Sdn Bhd
Southern Wire Industries (M) Sdn Bhd
Tenaga Nasional Berhad
The Institution of Engineers, Malaysia
Top Safe OSH Training Solution
Universiti Kebangsaan Malaysia

The Working Group on Cranes which recommended the adoption of the EN Standard as Malaysian Standard consists of representatives from the following organisations:

Construction Industry Development Board Malaysia
Department of Occupational Safety and Health Malaysia
Excellift Sdn Bhd
Favelle Favco Cranes (M) Sdn Bhd
Machinery and Equipment Manufacturers Association of Malaysia
Malaysian Centre for Occupational Safety and Health Sdn Bhd
MHE-Demag Malaysia Sdn Bhd
MS Elevators Engineering Sdn Bhd
Northport (Malaysia) Berhad
Persatuan Kren Menara dan Mesin Angkat Wilayah Persekutuan dan Selangor
Persatuan Pemilik Mesin Derek Bergerak Malaysia (1987)
SIRIM Berhad (Secretariat)
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Co-opted members:

Liftech Engineering (KL) Sdn Bhd
Shimba Sdn Bhd

NATIONAL FOREWORD

The adoption of the EN Standard as a Malaysian Standard was recommended by the Working Group on Cranes under the authority of the Industry Standards Committee on Mechanical Engineering.

This Malaysian Standard is identical with EN 15011:2011, *Cranes - Bridge and gantry cranes*, published by the European Committee for Standardization (CEN). However, for the purposes of this Malaysian Standard, the following apply:

- a) in the source text, “this European Standard” should read “this Malaysian Standard”;
- b) the comma which is used as a decimal sign (if any), to read as a point;
- c) Annex ZA has been removed, as this informative annex is not relevant for application in Malaysia; and
- d) reference to European/International Standards should be replaced by corresponding Malaysian Standards as follows:

<u>Referenced European/International Standards</u>	<u>Corresponding Malaysian Standards</u>
HD 60364-4-41, <i>Low-voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock</i>	MS IEC 60364-4-41, <i>Low-voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock</i>
EN 60947-5-5, <i>Low-voltage switchgear and controlgear - Part 5-5: Control circuit devices and switching elements - Electrical emergency stop device with mechanical latching function</i>	MS IEC 60947-5-5, <i>Low-voltage switchgear and controlgear - Part 5-5: Control circuit devices and switching elements - Electrical emergency stop device with mechanical latching function</i>
EN ISO 12100-1, <i>Safety of machinery - Basic concepts, general principles for design - Part 1: Basic terminology, methodology</i>	MS ISO 12100-1, <i>Safety of machinery - Basic concepts, general principles for design - Part 1: Basic terminology, methodology</i>
EN ISO 12100-2, <i>Safety of machinery - Basic concepts, general principles for design - Part 2: Technical principles</i>	MS ISO 12100-2, <i>Safety of machinery - Basic concepts, general principles for design - Part 2: Technical principles</i>
EN ISO 13732-1, <i>Ergonomics of the thermal environment - Methods for the assessment of human responses to contact with surfaces - Part 1: Hot surfaces</i>	MS ISO 13732-1, <i>Ergonomics of the thermal environment - Methods for the assessment of human responses to contact with surfaces - Part 1: Hot surfaces</i>
EN ISO 13849-1, <i>Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design</i>	MS ISO 13849-1, <i>Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design</i>

NATIONAL FOREWORD *(continued)*

Referenced European/International Standards

EN ISO 13857, *Safety of machinery - Safety distances to prevent hazard zones being reached by upper and lower limbs*

ISO 4301-1, *Cranes and lifting appliances - Classification - Part 1: General*

ISO 9926-1, *Cranes - Training of drivers - Part 1: General*

ISO 12480-1, *Cranes - Safe use - Part 1: General*

Corresponding Malaysian Standards

MS ISO 13857, *Safety of machinery - Safety distances to prevent hazard zones being reached by upper and lower limbs*

MS ISO 4301-1, *Cranes and lifting appliances - Classification - Part 1: General*

MS ISO 9926-1, *Cranes - Training of operators - Part 1: General*

MS 1544-1, *Cranes - Safe use - Part 1: General*

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 15011

January 2011

ICS 53.020.20

English Version

Cranes - Bridge and gantry cranes

Appareils de levage à charge suspendue - Ponts roulants
et portiques

Krane - Brücken- und Portalkrane

This European Standard was approved by CEN on 18 December 2010.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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Foreword

This document (EN 15011:2011) has been prepared by Technical Committee CEN/TC 147 "Cranes - Safety", the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2011, and conflicting national standards shall be withdrawn at the latest by July 2011.

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This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

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