



BSI Standards Publication

Code of practice for safe use of cranes

Part 7: Bridge and gantry cranes including light crane systems

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Foreword

Publishing information

This Part of BS 7121 is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 30 September 2019. It was prepared by Technical Committee MHE/3/11, *Crane safety and testing*. A list of organizations represented on these committees can be obtained on request to their secretary.

Relationship with other publications

BS 7121-1 provides general recommendations for crane types. BS 7121-2 covers in-service inspection, maintenance, thorough examination and testing for the safe use of all types of crane. Other parts of BS 7121 deal with the specific crane types as follows:

- Part 3: Mobile cranes
- Part 4: Lorry loaders;
- Part 5: Tower cranes;
- Part 6: Derrick cranes;
- Part 8: High pedestal and portal jib dockside cranes;
- Part 9: Container handling cranes;
- Part 10: Rail-mounted cranes;
- Part 11: Offshore cranes;
- Part 12: Recovery vehicles and equipment;
- Part 13: Hydraulic gantry lifting systems;
- Part 14: Side boom pipelayers.

Information about this document

This is a new part to BS 7121 and is intended to be used in conjunction with other parts of BS 7121 to ensure, so far as is reasonably practicable, that lifting operations are carried out safely.

This publication can be withdrawn, revised, partially superseded or superseded. Information regarding the status of this publication can be found in the Standards Catalogue on the BSI website at bsigroup.com/standards, or by contacting the Customer Services team.

Where websites and webpages have been cited, they are provided for ease of reference and are correct at the time of publication. The location of a webpage or website, or its contents, cannot be guaranteed.

Use of this document

As a code of practice, this part of BS 7121 takes the form of guidance and recommendations. It should not be quoted as if it were a specification and particular care should be taken to ensure that claims of compliance are not misleading.

Any user claiming compliance with this part of BS 7121 is expected to be able to justify any course of action that deviates from its recommendations.

It has been assumed in the preparation of this British Standard that the execution of its provisions will be entrusted to appropriately qualified and experienced people, for whose use it has been produced.

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its recommendations are expressed in sentences in which the principal auxiliary verb is “should”.

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Where words have alternative spellings, the preferred spelling of the Shorter Oxford English Dictionary is used (e.g. “organization” rather than “organisation”).

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations

In particular, attention is drawn to the following specific regulations:

- The Health and Safety at Work etc. Act 1974 [1];
- The Lifting Operations and Lifting Equipment Regulations (LOLER) 1998 [2];
- The Provision and Use of Work Equipment Regulations (PUWER) 1998 [3];
- The Supply of Machinery (Safety) Regulations 2008 (as amended) [4];
- The Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (RIDDOR) 2013 [5];
- The Construction (Design and Management) (CDM) Regulations 2015 [6]; and
- The Management of Health and Safety at Work Regulations 1999 (as amended) [7].

NOTE Details of the Lifting Operations and Lifting Equipment Regulations 1998 [2] and the Provision and Use of Work Equipment Regulations 1998 [3], together with an HSE Approved Code of Practice and HSE Guidance, are given in HSE publications *Safe use of lifting equipment* [8] and *Safe use of work equipment* [9].

0 Introduction

Bridge cranes, gantry cranes and light crane systems are a means of lifting and transporting loads over an area.

Because of the wide variety of these cranes available, the recommendations given in this part of BS 7121 can only be of a general nature. For information specific to a particular crane, always seek the advice of the supplier and refer to the manufacturer's instructions.

1 Scope

This part of BS 7121 gives recommendations for the safe use of the following general-purpose crane types:

- a) top-running bridge crane;
- b) under-slung bridge crane;
- c) gantry crane:
 - 1) portal; and
 - 2) semi-portal;
- d) light crane systems.

For the purposes of this part of BS 7121 bridge cranes, gantry cranes and light crane systems are all included under the term "cranes". This part of BS 7121 is intended to be used in conjunction with BS 7121-1, which gives general recommendations for all types of cranes, and BS 7121-2 (all parts), which gives general guidance on inspection, testing and examination of all types of cranes.

It does not cover:

- 1) cranes permanently equipped with specialised load-lifting attachments, for example container cranes, ladle cranes and cranes equipped with vacuum or magnetic lifters;
- 2) cranes for special environments such as those for use in explosive atmospheres;
- 3) cranes covered by other parts of BS 7121;
- 4) cranes permanently installed on marine and other water-borne vessels;
- 5) any equipment used to move loads horizontally by way of winching or hauling; or
- 6) rubber-tyred gantry cranes (covered in BS 7121-2-9).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document¹. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

Standards publications

BS 7121-1:2016, *Code of practice for safe use of cranes – Part 1: General*

BS 7121-2 (all parts), *Code of practice for safe use of cranes – Part 2: Inspection, maintenance and thorough examination*

¹ Documents that are referred to solely in an informative manner are listed in the Bibliography.