



BSI Standards Publication

## Design management systems –

Part 2: Guide to managing the design of manufactured products

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## Foreword

### Publishing information

This part of BS 7000 is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 30 September 2015. It was prepared by Subcommittee TDW/4/7, *Technical product realization – BS 8887 design for MADE*, under the authority of Technical Committee TDW/4, *Technical product realization*. A list of organizations represented on this committee can be obtained on request to its secretary.

### Supersession

This part of BS 7000 supersedes BS 7000-2:2008, which is withdrawn.

### Relationship with other publications

BS 7000 *Design management systems*, consists of the following parts:

- *Part 1: Guide to managing innovation;*
- *Part 2: Guide to managing the design of manufactured products;*
- *Part 3: Guide to managing service design;*
- *Part 4: Guide to managing design in construction;*
- *Part 6: Managing inclusive design – Guide;*
- *Part 10: Vocabulary of terms used in design management.*

Other parts may be added.

### Information about this document

This part of BS 7000 is a full revision of the standard and introduces multi-lifecycle considerations, along with the recommendations given in BS 8887-1.

### Use of this document

As a guide, this part of BS 7000 takes the form of guidance and recommendations. It should not be quoted as if it were a specification or a code of practice and claims of compliance cannot be made to it.

### Presentation conventions

The guidance in this standard is presented in roman (i.e. upright) type. Any 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.*

### 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.**

## Introduction

Creating and delivering excellent products with market appeal, and attaining high levels of customer satisfaction requires an integrated approach to design, from the board of an organization to project managers and their multi-disciplinary teams.

Excellence in design is an important differentiating factor between competing products, and can be the key to company survival in increasingly competitive world markets.

The complex intellectual challenges presented in the design of manufactured products demand that the process is managed effectively if the outcome is to be successful. The concepts, principles and quality system elements described in this standard are applicable to all forms of manufactured products. Applying the principles described facilitates the creation of products that are produced on time and within budget, meet customer and organizational requirements, and have a better chance of competing successfully in world markets.

This standard sets out the tasks and responsibilities for creating and implementing an effective design policy for:

- a) senior executives, (see Clause 4);
- b) project managers and those involved in the design process (see Clause 5).

In large organizations, these two sets of tasks and responsibilities are frequently taken on by different individuals or groups. In small organizations, they are often undertaken by a single person or small team but are, nevertheless, distinct and different. All those involved need to be aware of what is required of them.

## 1 Scope

This part of BS 7000 gives guidance on managing the design of all types of manufactured products. It deals with every stage of the design process from product concept through to delivery, use and end-of-life processing.

*NOTE 1 This standard recognizes that small enterprises or those specializing in one-off products or special purpose end-of-life equipment often need to adapt the process to suit their method of operation.*

It is intended for use by all relevant levels of management, from board level to individual project level, in all types of organizations involved in the design of manufactured products.

Guidance is given on the application of general principles and techniques to the management of design, raising awareness of management issues and emphasizing the need for an integrated approach to the design of products. This standard is not intended to define design techniques.

*NOTE 2 For many products, particularly those that are complex, an integrated multi-disciplinary approach to design is needed. Documents recommended for guidance on general management techniques are listed in the Bibliography.*

Guidance on the management of innovation, service design and construction design is given in BS 7000-1, BS 7000-3 and BS 7000-4 respectively.

*NOTE 3 Guidance on procedures needed to meet statutory requirements, such as health and safety, or product certification and liability, is not intended to be comprehensive. Reference needs to be made to other documents where appropriate.*

*NOTE 4 This standard is intended to complement BS EN ISO 9001.*