
Technical product documentation — Use of main documents

*Documentation technique de produits — Utilisation des documents
principaux*



Reference number
ISO 11005:2010(E)

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Published in Switzerland

Foreword

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ISO 11005 was prepared by Technical Committee ISO/TC 10, *Technical product documentation*, Subcommittee SC 1, *Basic conventions*.

Technical product documentation — Use of main documents

1 Scope

This International Standard provides rules for the use of a main document in order to gather all the product-specifying information needed for a specific part or assembly.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 7200:2004, *Technical product documentation — Data fields in title blocks and document headers*

ISO 7573:2008, *Technical product documentation — Parts lists*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 document

fixed and structured amount of information that can be managed and interchanged as a unit between users and systems

[IEC 82045-1:2001], [ISO 11442:2006]

3.2 technical product document

means of conveying all or part of a design definition or specification of a product for manufacturing, verification, maintenance, operation and recycling purposes, etc.

3.3 main document

document containing the complete compilation of the information by which a part or an assembly is specified

NOTE The information can be given directly in the main document or by reference to complementary documents.

3.4 complementary document

document, referenced in the main document, containing specifying information

3.5

part

one piece of an assembly, or several pieces joined together which are not normally subject to disassembly without destruction

3.6

assembly

number of component parts fitted together to perform a specific function

[ISO 7573:2008]

NOTE Assembly includes any level of complexity.

3.7

compound document

document consisting of several embedded files in a specified file structure

[IEC 82045-1:2001]

3.8

aggregated document

document containing separately identified documents (parts) that are logically dependent but can be physically independently managed

NOTE An aggregated document has its own metadata.

[IEC 82045-1:2001]

3.9

document set

collection of documents that are managed together as a unit for a specific purpose

NOTE The metadata of the document set describes which documents it consists of. The set has its own metadata, but not its own content.

[IEC 82045-1:2001]

4 General

Technical product documents record the output of a design process. These documents, or parts of them, may be communicated to users such as customers, suppliers and production units. The technical product documents specify the requirements made with regard to an individual part or an assembly.

The main document is one essential part of the technical product documentation. This International Standard describes the contents of a main document and its relationship to complementary documents.

5 Main document principle

The basis of the main document principle is that each part or assembly is specified by a main document. When several documents are needed to specify a part or an assembly, one document shall be designated the main document to ensure that the information is kept together. All other documents, referred to in the main document, are considered complementary documents (see Figure 1). It is recommended that companies decide which document type(s) shall be adopted as the main document(s). This International Standard gives only a few examples of document types that may be used as main documents.

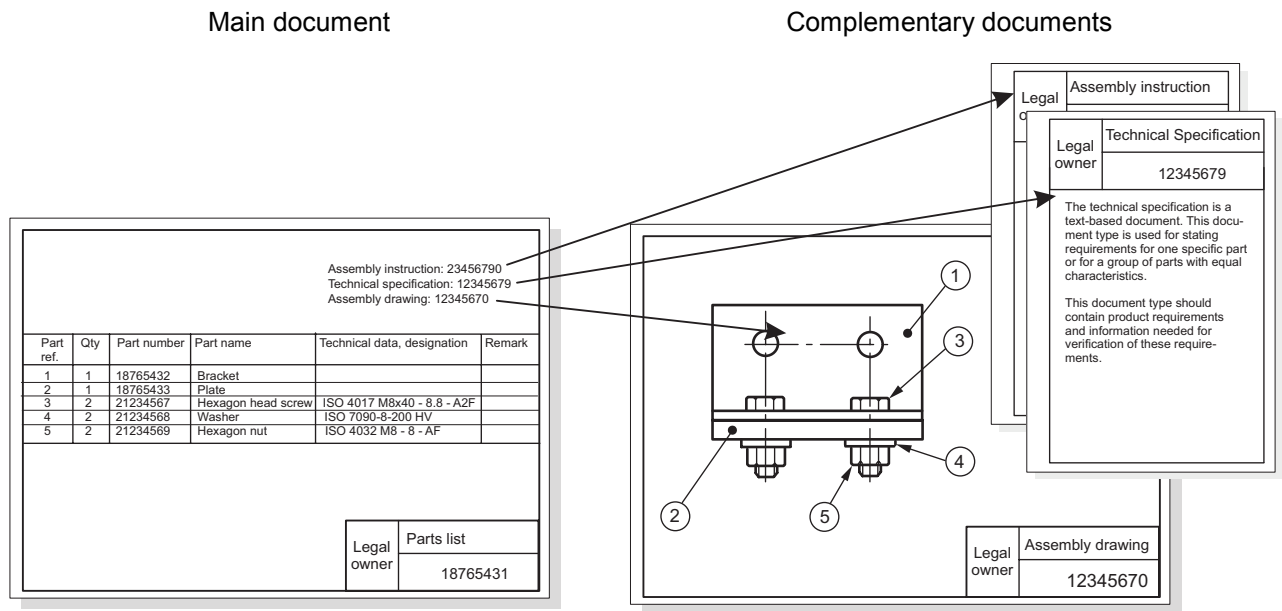


Figure 1 — Main and complementary documents relationship (example)

In order to enable cross-use and reuse of information, there shall be no references to the main document in the complementary documents. This means that complementary documents are independent and can be used in different applications. However, if cross-using or reusing of documents are not needed, and there is a one-to-one relationship between the main document and a complementary document, there could be a reference in a complementary document to a main document.

When complementary documents are revised, the connection to main document(s) shall be shown by a where-used analysis.

6 Document content

The main document shall contain the part number and references to complementary documents when used. Furthermore, the parts list (see ISO 7573:2008), graphical representation, designations, classifications, technical data, properties, etc. are recorded either in the main document itself or in complementary documents.

If the main document number and the part number are different, the part number shall be specified separately in the main document.

The main document shall contain a title block or a document header (see ISO 7200:2004).

The complementary documents could also specify separately documented requirements like geometry description, joining, dimensions, etc.

7 Relationship between main document and complementary documents

7.1 Main document

Main documents are generally based on the following document types.

One single document, e.g. a drawing (see Figure 2) including all information (no complementary documents are needed).

The complete information is available in one single document, which is therefore the main document.

Main document

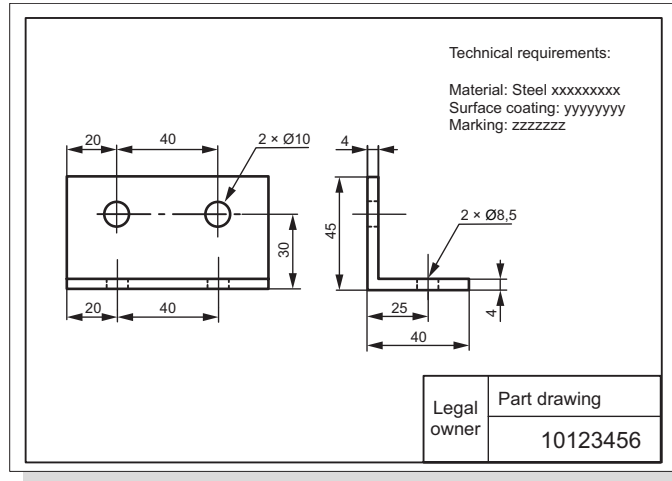
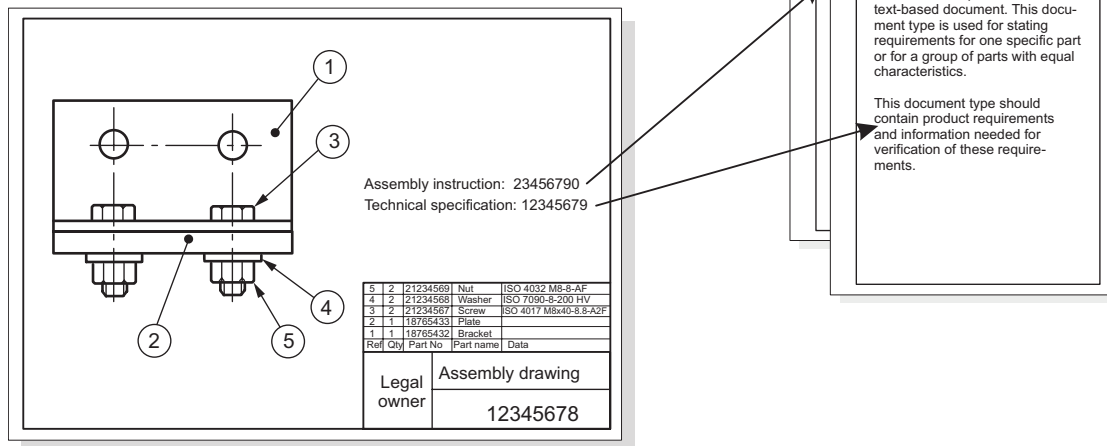


Figure 2 — One single document containing the complete information

Compound document, e.g. assembly drawing and parts list (see Figure 3) in which the graphical and/or textual representation is predominant.

Main document

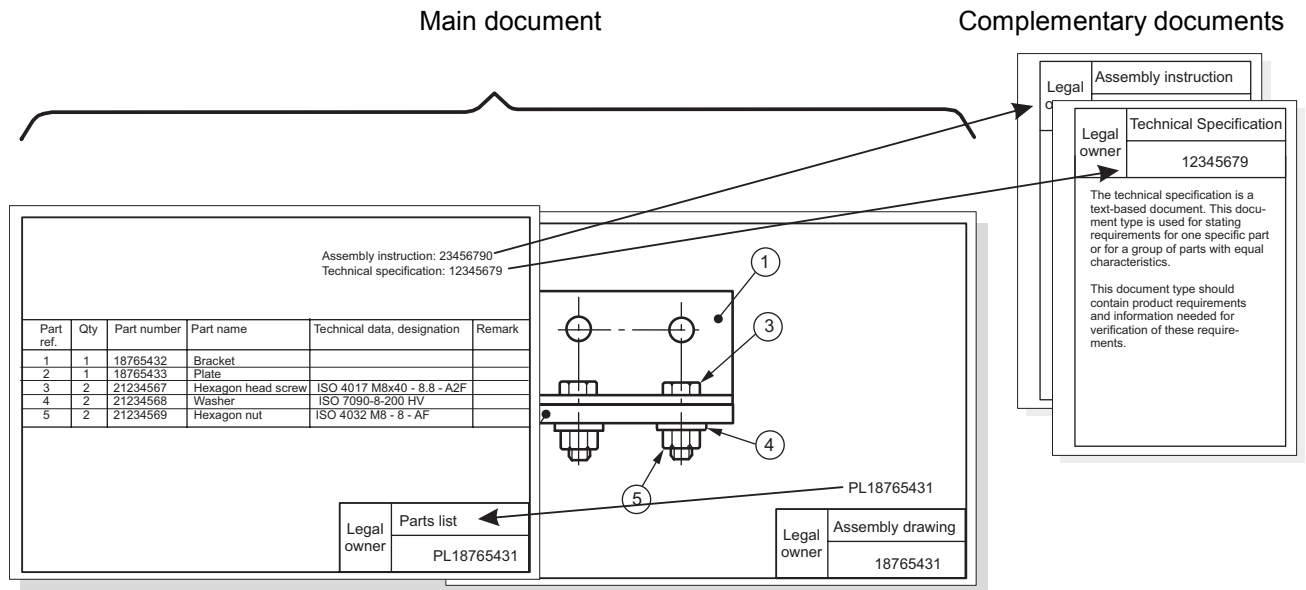
Complementary documents



NOTE The complete information is available in a document set. The main document is a compound document consisting of an assembly drawing including a parts list and a document list referring to the complementary documents.

Figure 3 — An assembly drawing containing a parts list and a list of complementary documents

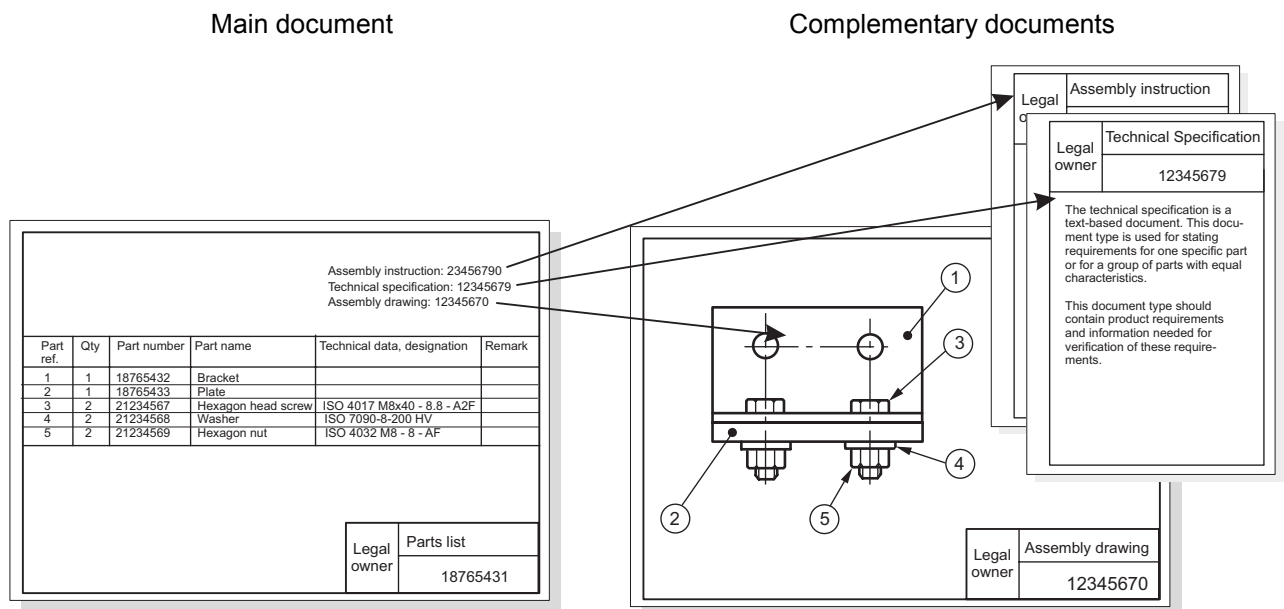
Aggregated document (see Figure 4), e.g. assembly drawing and parts list including list of complementary documents.



NOTE The complete information is available in a document set. The main document is an aggregated document consisting of an assembly drawing and a parts list that specifies constituents and all complementary documents.

Figure 4 — The main document being an aggregated document

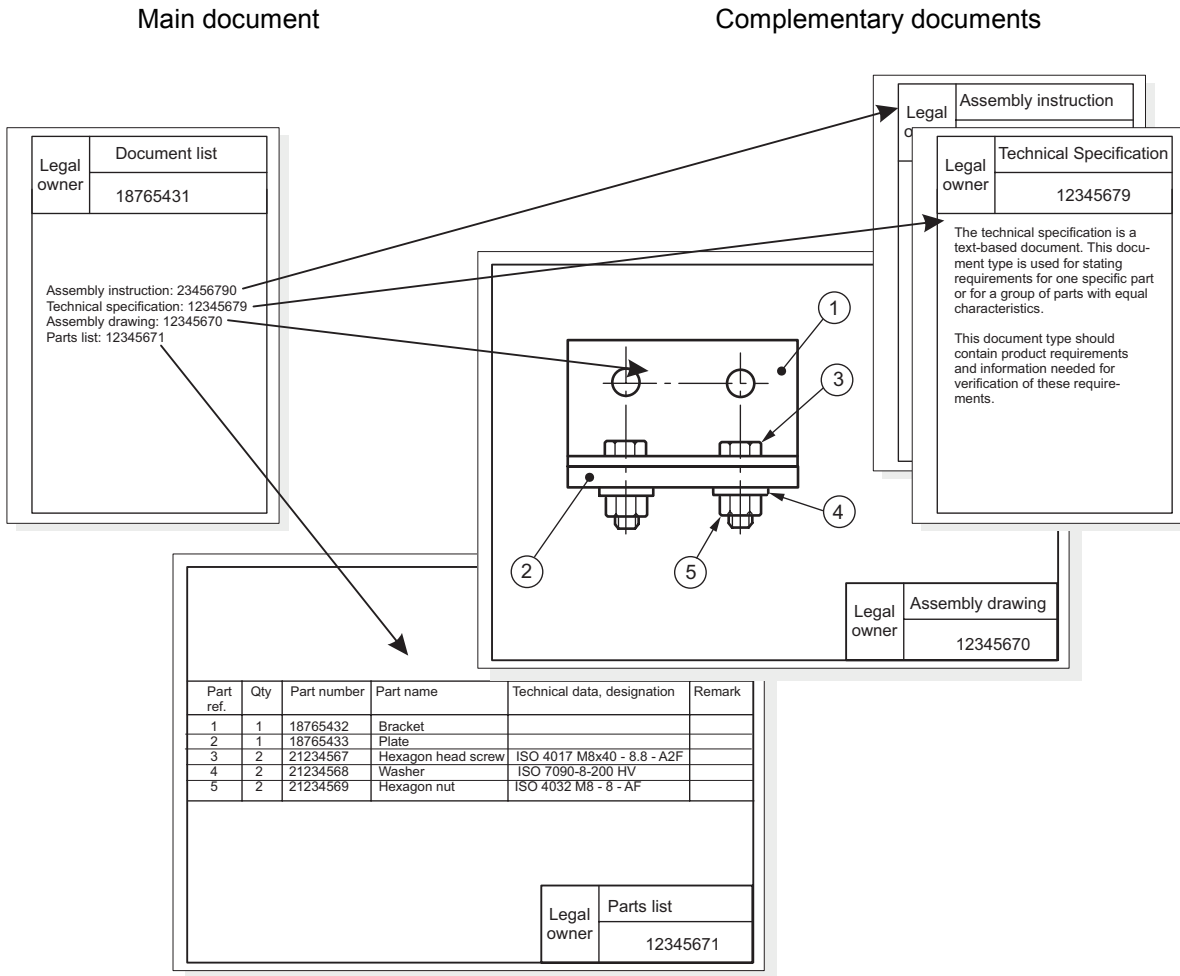
Parts list (see Figure 5), in which the parts list area is predominant.



NOTE The complete information is available in a document set. The main document is the parts list that specifies constituents and all complementary documents.

Figure 5 — Parts list including list of complementary documents

Document list (see Figure 6), in which the complementary documents area is predominant.



NOTE The complete information is available in a document set. The main document is the document list that specifies all complementary documents.

Figure 6 — Main document being a list of documents

NOTE Documents of the above types are not always main documents, since the requirements with regard to identification and referencing to the complementary documents have to be fulfilled as well.

7.2 Complementary documents

The complementary documents for a part or assembly are usually of several different document types. The kind of part or an assembly determines which document types need to be used.

Bibliography

- [1] ISO 11442:2006, *Technical product documentation — Document management*
- [2] IEC 82045-1:2001, *Document management — Part 1: Principles and methods*

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11005:2010

ICS 01.110

Price based on 7 pages