DIN EN ISO 128-3:2022-02 (E)

Technical product documentation (TPD) - General principles of representation - Part 3: Views, sections and cuts (ISO 128-3:2020)

Contents

Page

European foreword ... **3**

Foreword ... **4**

Introduction ... **5**

1 Scope ... **6**

2 Normative references ... **6**

3 Terms and definitions ... **6**

4 Basic conventions for views ... **7**
4.1 General information on views ... 7
4.2 Choice of views ... 8
4.3 Partial views ... 8
4.4 Simplified view of symmetrical parts ... 9
4.5 First angle projection method ... 9
4.6 First angle projection method views ... 9
4.7 First angle projection graphical symbol ... 10
4.8 Third angle projection method ... 10
4.9 Third angle projection method views ... 10
4.10 Third angle projection graphical symbol ... 11
4.11 Other projection methods ... 11
4.12 Enlarged features ... 11

5 Reference indication for views and enlarged features ... **12**
5.1 General ... 12
5.2 Details of the reference indication ... 12
5.3 Examples of indication ... 13

6 General information on cuts and sections ... **14**
6.1 General ... 14
6.2 Indication of cuts and sections ... 14
6.2.1 Cutting plane ... 14
6.2.2 Identification of the cutting plane ... 14
6.2.3 Identification of the cuts and sections ... 14
6.2.4 Reference indication for cuts and sections ... 15
6.3 Sections revolved in the relevant view ... 16
6.4 Cuts/sections of symmetrical parts ... 17
6.5 Local cuts/sections ... 17

7 Basic conventions for representing areas on cuts and sections ... **18**
7.1 General information on cuts and sections ... 18
7.2 Hatching ... 18
7.3 Shading or toning ... 19
7.4 Extra-wide continuous outlines ... 20
7.5 Thin sections ... 20
7.6 Thin adjacent sections ... 20
7.7 Specific materials ... 21

Annex A (normative) **Graphical symbols** ... **22**

Annex B (informative) **Former practices** ... **25**

Annex C (normative) **Views on mechanical engineering technical drawings** ... **27**

Annex D (normative) **Sections on mechanical engineering technical drawings** ... **39**

Annex E (normative) **Projection methods in building technical drawings** ... **44**

Annex F (normative) **Representation of views, sections and cuts on construction drawings** ... **46**

Bibliography ... **53**