

# DIN ISO 16792:2025-06 (E)

## Technical product documentation - Digital product definition data practices (ISO 16792:2021)

---

<b>Contents</b>		<b>Page</b>
	<b>Foreword</b> .....	<b>vi</b>
	<b>Introduction</b> .....	<b>vii</b>
<b>1</b>	<b>Scope</b> .....	<b>1</b>
<b>2</b>	<b>Normative references</b> .....	<b>1</b>
<b>3</b>	<b>Terms and definitions</b> .....	<b>2</b>
3.1	General terms and definitions .....	2
3.2	Classification codes for drawings and data sets (see <a href="#">Annex B</a> ) .....	2
<b>4</b>	<b>Data set identification and control</b> .....	<b>3</b>
4.1	General .....	3
4.2	Related data .....	4
4.3	Data management .....	4
<b>5</b>	<b>Data set requirements</b> .....	<b>5</b>
5.1	General .....	5
5.1.1	Introduction .....	5
5.1.2	Fundamental requirements .....	5
5.1.3	Design model requirement (classification codes 3, 4 and 5) .....	7
5.2	General model requirements .....	8
5.2.1	Associativity .....	8
5.2.2	Model coordinate systems .....	8
5.2.3	Applications of supplemental geometry .....	9
5.2.4	Part features not fully modelled .....	9
5.3	General method requirements .....	9
5.3.1	Data set methods .....	9
5.3.2	Model-only method .....	9
5.3.3	Model and drawing method .....	10
5.4	Management data .....	10
5.4.1	General .....	10
5.4.2	Management data in the data set .....	10
5.4.3	Management data on a model .....	11
5.5	Protection marking .....	11
5.5.1	General .....	11
5.5.2	Location on models .....	11
5.6	Saved views on models .....	11
5.6.1	General .....	11
5.6.2	Sections .....	12
<b>6</b>	<b>Design model requirements</b> .....	<b>14</b>
6.1	General .....	14
6.2	Geometric scale, units and precision .....	14
6.3	Model completeness .....	15
6.4	Assembly model completeness .....	15
6.5	Part reference numbers .....	16
6.6	Identification method .....	16
6.6.1	General .....	16
6.6.2	Colour .....	17
6.6.3	Greyscale .....	17
6.6.4	Mapping .....	17
6.6.5	Transparency .....	17
6.7	Installation model completeness .....	17

<b>7</b>	<b>Common requirements for product definition data</b>	<b>18</b>
7.1	General	18
7.2	Common requirements	18
7.3	Model requirements	21
7.3.1	General	21
7.3.2	Associativity	22
7.3.3	Attributes	24
7.3.4	Annotation planes	25
7.3.5	Leader lines	26
7.3.6	Direction-dependent specifications	27
7.3.7	Indicating of restricted area	27
7.3.8	Query types	28
7.4	Drawing requirements	33
7.4.1	General	33
7.4.2	Orthographic views	36
7.4.3	Axonometric views	36
<b>8</b>	<b>Notes and special notations</b>	<b>38</b>
8.1	Common requirements	38
8.2	Model requirements	38
8.3	Drawing requirements	39
<b>9</b>	<b>Model values and dimensions</b>	<b>39</b>
9.1	General	39
9.2	Common requirements	39
9.2.1	Model value queries	39
9.2.2	Resolved dimensions	39
9.3	Model requirements	40
9.3.1	General	40
9.3.2	Theoretically exact dimensions (TEDs)	40
9.3.3	Size values	41
9.3.4	Examples of general applications	42
9.3.5	Chamfers	42
9.3.6	Depth specification	45
9.4	Drawing requirements for axonometric views	48
<b>10</b>	<b>Datum applications</b>	<b>48</b>
10.1	General	48
10.2	Model requirements	48
10.2.1	Datum systems and model coordinate systems	48
10.2.2	Identification of datums	50
10.2.3	Identification of restricted area application	52
10.2.4	Associativity of datum features and design data	53
10.2.5	Datum target identification and attachment	53
10.2.6	Multiple features establishing a datum	55
10.3	Drawing requirements	60
<b>11</b>	<b>Geometric tolerances</b>	<b>61</b>
11.1	General	61
11.2	Drawing requirements	61
11.2.1	General	61
<b>12</b>	<b>Welds</b>	<b>62</b>
12.1	General	62
12.2	Common requirements	62
12.2.1	Application of supplemental geometry	62
12.2.2	Arrow lines	62
12.3	Model requirements	63
12.3.1	Annotation plane	63
12.3.2	Associativity	63
12.3.3	Indicating extents of the weld	63
12.3.4	Query of weld path	65

12.4	Drawing requirements.....	66
<b>13</b>	<b>Surface texture.....</b>	<b>66</b>
13.1	General.....	66
13.2	Common requirements.....	66
13.3	Model requirements.....	66
13.3.1	Display techniques.....	66
13.3.2	Associativity.....	66
<b>Annex A</b>	<b>(informative) Former practices.....</b>	<b>67</b>
<b>Annex B</b>	<b>(informative) Classification codes for drawings and data sets.....</b>	<b>69</b>
<b>Annex C</b>	<b>(informative) Examples.....</b>	<b>71</b>
<b>Bibliography</b>	.....	<b>76</b>