

# DIN EN ISO 17295:2023-04 (E)

## Additive manufacturing - General principles - Part positioning, coordinates and orientation (ISO 17295:2023)

---

<b>Contents</b>		<b>Page</b>
<b>European foreword</b> .....		<b>3</b>
<b>Foreword</b> .....		<b>4</b>
<b>Introduction</b> .....		<b>5</b>
<b>1 Scope</b> .....		<b>6</b>
<b>2 Normative references</b> .....		<b>6</b>
<b>3 Terms and definitions</b> .....		<b>6</b>
<b>4 Machine coordinate systems for additive manufacturing machines with different build directions</b> .....		<b>6</b>
4.1 General .....		<b>6</b>
4.2 Machine coordinate system for additive manufacturing machines with upwards Z-positive build direction .....		<b>6</b>
4.3 Machine coordinate system for additive manufacturing machines with downwards Z-positive build direction .....		<b>7</b>
<b>5 Rule for positive direction of axes of rotation</b> .....		<b>8</b>
<b>6 Bounding box</b> .....		<b>8</b>
<b>7 Initial build orientation</b> .....		<b>9</b>
<b>8 Orthogonal orientation notation</b> .....		<b>11</b>
8.1 General .....		<b>11</b>
8.2 Bilateral symmetry .....		<b>12</b>
8.3 Abbreviation of orthogonal orientation notation .....		<b>13</b>
<b>9 Representation of part location and initial build orientation</b> .....		<b>13</b>
<b>10 Representation of part location and reorientation</b> .....		<b>14</b>
<b>Bibliography</b> .....		<b>17</b>