DIN EN ISO 17295:2023-04 (E)

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

Contents

Page

European foreword ... **3**

Foreword ... **4**

Introduction ... **5**

1 Scope ... **6**

2 Normative references ... **6**

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

4 Machine coordinate systems for additive manufacturing machines with different build directions ... **6**

4.1 General ... 6

4.2 Machine coordinate system for additive manufacturing machines with upwards Z-positive build direction ... 6

4.3 Machine coordinate system for additive manufacturing machines with downwards Z-positive build direction ... 7

5 Rule for positive direction of axes of rotation ... **8**

6 Bounding box ... **8**

7 Initial build orientation ... **9**

8 Orthogonal orientation notation ... **11**

8.1 General ... 11

8.2 Bilateral symmetry ... 12

8.3 Abbreviation of orthogonal orientation notation ... 13

9 Representation of part location and initial build orientation ... **13**

10 Representation of part location and reorientation ... **14**

Bibliography ... **17**