

DIN SPEC 91416:2021-07 (E)

Digitalisation of the shoe production process - Foot, last and shoe characteristics; Text in English

Contents	Page
Foreword	4
Introduction.....	5
1 Scope	6
2 Normative references	6
3 Terms and definitions.....	6
4 Rating and categories of data capturing	12
4.1 General	12
4.2 Categories for geometry capturing summary	12
4.2.1 General	12
4.2.2 Manual measurement with measuring tape or similar	13
4.2.3 Manual measurement with instruments.....	13
4.2.4 Digital 2D static measurement	14
4.2.5 Partial digital 3D static measurement.....	14
4.2.6 Full digital 3D static measurement	14
4.2.7 Digital 3D dynamic measurement.....	14
4.3 Categories for pressure capturing.....	14
4.3.1 General	14
4.3.2 Static contact area	15
4.3.3 Static relative pressure	15
4.3.4 Static absolute pressure.....	15
4.3.5 Dynamic contact area.....	15
4.3.6 Dynamic relative pressure.....	15
4.3.7 Dynamic absolute pressure	16
4.4 Encoding of results.....	16
5 Computing digital data	16
5.1 General	16
5.2 Orientation.....	17
6 Table and drawings	18
7 Data processing.....	27
Annex A (informative) Example for the datasheet.....	28
A.1 Example for a datasheet for foot, last and shoe data.....	28
Bibliography.....	31

Figures

Figure 1 — Dimensions foot 3 levels	21
Figure 2 — Dimensions leg sagittal planes	22
Figure 3 — Dimensions shoes including foot — horizontal plane.....	23
Figure 4 — Dimensions sagittal plane last.....	23

Figure 5 — Dimensions frontal plane lasts.....	24
Figure 6 — Dimensions shoe heel sagittal plane	24
Figure 7 — Dimensions shoe sole sagittal plane.....	25
Figure 8 — Specific shoe measurements	25
Figure 9 — Alignment of bars in the Coordinate System	26
Figure 10 — Alignment of shoe in the Coordinate System	26
Figure 11 — Longitudinal axis.....	26
Figure 12 — Origin.....	27

Tables

Table 1 — Categories for geometry capturing.....	13
Table 2 — Categories for pressure capturing	14
Table 3 — Definition of data quality sheet.....	16
Table 4 — Foot, last and shoe data.....	18
Table A.1 — Datasheet.....	28