

ISO 129-1:2004-09 (E)

Technical drawings - Indication of dimensions and tolerances - Part 1: General principles

Contents		Page
Foreword		iv
1 Scope	1	1
2 Normative references		1
3 Terms and definitions		2
3.1 Features		2
3.2 Lines of dimensioning		2
3.3 Dimensions		3
3.4 Arrangement of dimensions		3
4 Principles of dimensioning and of indication of tolerances		4
4.1 General principles		4
4.2 Positioning of dimensions		4
4.3 Units of dimensions		5
5 Elements of dimensioning		6
5.1 General		6
5.2 Dimension line		6
5.3 Terminators and origin indication		9
5.4 Extension line		9
5.5 Leader line		11
5.6 Dimensional values (basic dimensions)		11
5.7 Letters representing dimensions		14
5.8 Tabular dimensioning		14
6 Elements of indication of tolerances		15
6.1 General rules		15
6.2 Limit deviations		15
6.3 Limits of dimension		16
7 Indications of special dimensions		16
7.1 Arrangement of graphical and letter symbols with dimensional values		16
7.2 Diameters		17
7.3 Radii		18
7.4 Spheres		18
7.5 Arcs, chords and angles		18
7.6 Squares		20
7.7 Equally spaced and repeated features		20
7.8 Symmetrical parts		24
7.9 Indication of levels		25
7.10 Dimensions of out-of-scale represented features		25
7.11 Auxiliary dimensions		25
8 Arrangements of dimensions		25
8.1 General		25
8.2 Parallel dimensioning		25
8.3 Running dimensioning		26
8.4 Chain dimensioning		27
8.5 Coordinate dimensioning		28

8.6	Combined dimensioning	30
Annex A (normative)	Relations and dimensions of graphical symbols	31
Bibliography		33