

DIN 623-1:2020-06 (E)

Rolling bearings - Fundamental principles - Part 1: Designation, marking

Contents	Page
Foreword	4
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Designation structure	6
4.1 General	6
4.2 Nomenclature	7
4.3 Standard number	8
4.4 System of symbol groups	8
4.5 Structuring of designation	8
5 Symbols	8
5.1 Prefixes	8
5.1.1 Bearing parts	8
5.1.2 Material	9
5.2 Basic symbols	9
5.2.1 General	9
5.2.2 Bearing series	9
5.2.3 Bearing bore	9
5.3 Suffixes	10
5.3.1 General	10
5.3.2 Internal design	10
5.3.3 External shape	10
5.3.4 Cage details	12
5.3.5 Tolerance classes	13
5.3.6 Internal clearance	13
5.3.7 Dimensional stability	14
5.3.8 Lubrication	14
5.4 Supplementary symbols	14
6 Phrasing	14
7 Examples of designation	15
8 Survey of standardized bearings	17
9 Marking	27
Bibliography	28
Tables Table 1 -- Designation structure and reference to the relevant clause	7
Table 2 -- Suffixes -- External shape	10
Table 3 -- Survey of standardized bearings	17
Table 4 -- Symbols denoting the bearing bore for ball bearings, cylindrical roller bearings, tapered roller bearings, self-aligning roller bearings, needle roller bearings, angular contact ball bearings and the relevant thrust type bearings	25
Table 5 -- Basic symbols for needle cylindrical roller thrust bearings, needle thrust ball bearings, open end drawn cups, closed end drawn cups, radial needle roller and cage assemblies, thrust needle roller and cage assemblies and thrust washers	26