

ISO/TS 13399-313:2019 (E)

Cutting tool data representation and exchange — Part 313: Creation and exchange of 3D models — Burrs

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Abbreviated terms
5	Starting elements, coordinate systems, planes
5.1	General
5.2	Reference system (PCS)
5.3	Coordinate system at the cutting part
5.4	Planes
6	Design of the model
6.1	General
6.2	Necessary parameters for the connection interface feature
7	Design of burrs
7.1	General
7.2	Geometry of the non-cutting part inclusively the connection
7.3	Geometry of the cutting part
7.3.1	General
7.3.2	Cylindrical burr (BTC: 01)
7.3.3	Cylindrical round-(ball-)nose burr (BTC:02)
7.3.4	Inverted cone burr (BTC: 07)
7.3.5	Spherical burr (BTC: 08)
7.3.6	Ball nose profile burr (BTC: 10, 11, 12 and 18)
7.3.7	Arch pointed nose burr (BTC: 09, 13, 14 and 17)
7.3.8	Conical burr (BTC: 15)
7.3.9	Conical round-(ball-)nose burr (BTC: 04 and 16)
7.3.10	Full rounded disc burr (BTC: 19)
7.3.11	Disc pointed nose shaped burr (BTC: 20)
7.3.12	Angular disc burr (BTC: 21)
7.3.13	Lens shaped disc burr (BTC: 22)
7.3.14	Oval burr with curved exit (BTC: 23)
7.3.15	Multi curved burr (BTC: 24)
7.3.16	Inverted concave rounded burr (BTC: 25)
7.3.17	Concave rounded burr (BTC: 26)
8	Design of details
8.1	Basis for modelling
8.2	Contact/clamping surfaces — Orientation
8.3	Chamfers, rounding, others
9	Data exchange model
Annex A	(informative) Nominal dimensions