

DIN EN ISO 8062-3:2023-05 (E)

Geometrical product specifications (GPS) - Dimensional and geometrical tolerances for moulded parts - Part 3: General dimensional and geometrical tolerances and machining allowances for castings using $\pm$ tolerances for indicated dimensions (ISO 8062-3:2023)

Contents	Page
European foreword	3
Foreword	4
Introduction	6
1 Scope	7
2 Normative references	7
3 Terms and definitions	8
4 Abbreviated terms	9
5 Taper	9
6 Draft angles (taper)	10
7 Tolerance grades	13
7.1 General	13
7.2 Dimensional casting tolerance grades (DCTG)	13
7.3 Geometrical casting tolerance grades (GCTG)	15
7.3.1 General	15
7.3.2 Nominal dimensions	15
7.3.3 Datums	15
8 Surface mismatch (SMI)	18
9 Wall thickness	18
10 Required machining allowances (RMA)	18
10.1 General	18
10.2 Required machining allowance grades (RMAG)	19
11 Indication on drawings	19
11.1 Indication of general DCTs	19
11.2 Indication of machining allowances	20
11.3 Indication of geometrical casting tolerances (GCTs)	20
12 Rejection	21
Annex A (informative) Dimensional and geometrical tolerances for castings	22
Annex B (informative) Required machining allowance grades (RMAG)	25
Annex C (informative) Concept of general tolerancing of characteristics	26
Annex D (informative) Datums for general geometrical tolerances	28
Annex E (informative) Application of general geometrical tolerances for castings	32
Annex F (informative) Relation to the GPS matrix model	39
Bibliography	40