

ISO 8062-3:2023-02 (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

Contents	Page
Foreword.....	iv
Introduction.....	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Abbreviated terms	3
5 Taper	3
6 Draft angles (taper)	4
7 Tolerance grades	7
7.1 General.....	7
7.2 Dimensional casting tolerance grades (DCTG).....	7
7.3 Geometrical casting tolerance grades (GCTG).....	9
7.3.1 General.....	9
7.3.2 Nominal dimensions.....	9
7.3.3 Datums.....	9
8 Surface mismatch (SMI)	12
9 Wall thickness	12
10 Required machining allowances (RMA)	12
10.1 General.....	12
10.2 Required machining allowance grades (RMAG).....	13
11 Indication on drawings	13
11.1 Indication of general DCTs.....	13
11.2 Indication of machining allowances.....	14
11.3 Indication of geometrical casting tolerances (GCTs).....	14
12 Rejection	15
Annex A (informative) Dimensional and geometrical tolerances for castings	16
Annex B (informative) Required machining allowance grades (RMAG)	19
Annex C (informative) Concept of general tolerancing of characteristics	20
Annex D (informative) Datums for general geometrical tolerances	22
Annex E (informative) Application of general geometrical tolerances for castings	26
Annex F (informative) Relation to the GPS matrix model	33
Bibliography	34