

# DIN EN ISO 13385-1:2011-12 (E)

## Geometrical product specifications (GPS) - Dimensional measuring equipment - Part 1: Callipers; Design and metrological characteristics (ISO 13385-1:2011)

---

<b>Contents</b>		<b>Page</b>
Foreword .....		3
Introduction .....		4
1	Scope .....	5
2	Normative references .....	5
3	Terms and definitions .....	6
4	Design characteristics .....	6
4.1	General design and nomenclature .....	6
4.2	Dimensions .....	8
4.3	Types of indicating devices .....	8
4.4	Measuring faces .....	11
5	Metrological characteristics .....	11
5.1	General .....	11
5.2	Effect of slider locking .....	11
5.3	Maximum permissible error of indication (limited by MPE) .....	11
5.4	MPE and MPL for a number of metrological characteristics .....	12
6	Indication in product documentation and data sheets .....	12
7	Proof of conformance with specifications .....	13
7.1	General .....	13
7.2	Measurement standards for the calibration of metrological characteristics .....	13
8	Marking .....	14
Annex A (informative) Error tests .....		15
Annex B (informative) Advice on application .....		18
Annex C (informative) Examples of different types of callipers .....		19
Annex D (informative) Examples of types of measurements .....		20
Annex E (informative) Data sheet (example) .....		21
Annex F (informative) Calibration of metrological characteristics .....		22
Annex G (informative) Relation to the GPS matrix model .....		23
Bibliography .....		2