ISO 13385-1:2019 (E)

Geometrical product specifications (GPS) — Dimensional measuring equipment — Part 1: Design and metrological characteristics of callipers

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Design characteristics

- 4.1 General design and nomenclature
- 4.2 Dimensions

5 Metrological characteristics

- 5.1 General
- 5.2 Rated operating conditions
- 5.3 Reference point
- 5.4 Test methods
- 5.5 Partial surface contact error, E (limited by EMPE)
- 5.6 Shift error, S (limited by SMPE)
- 5.6.1 General
- 5.6.2 Shift error — Internal measuring faces
- 5.6.3 Shift error — Crossed knife-edge internal measuring faces
- 5.6.4 Shift error — Depth or step measuring faces
- 5.7 MPE values
- 5.8 Special cases

6 Determination of conformity to specifications

- 6.1 General
- 6.2 Measurement uncertainty
- 6.3 Decision rule

7 Marking

Annex A (informative) Calibration guidelines for metrological characteristics

- A.1 General
- A.2 Line contact error

Annex B (normative) Default MPE values for metrological characteristics

Annex C (informative) Relation to the GPS matrix model

- C.1 General
- C.2 Information about this document and its use
- C.3 Position in the GPS matrix model
- C.4 Related International Standards

Page count: 14