ISO 25178-601:2025-02 (E)

Geometrical product specifications (GPS) - Surface texture: Areal - Part 601: Design and characteristics of contact (stylus) instruments

Contents

Page

Foreword iv

Introduction vi

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Instrument requirements 4

5 Metrological characteristics 4

6 Design features 5
6.1 General 5
6.2 Nominal values for characteristics of a contact stylus instrument 5
6.2.1 Stylus tip geometry 5
6.2.2 Static measuring force 5

7 General information 5

Annex A (informative) Principles of contact stylus instruments for areal surface topography measurement 6

Annex B (informative) Sources of measurement error for contact stylus instruments 11

Annex C (informative) Background regarding changes from ISO 3274 13

Annex D (informative) Relationship to the GPS matrix model 15

Bibliography 16