

ISO 25178-603:2013-10 (E)

Geometrical product specifications (GPS) - Surface texture: Areal - Part 603: Nominal characteristics of non-contact (phase-shifting interferometric microscopy) instruments

Contents		Page
Foreword		iv
Introduction		vi
1	Scope	1
2	Terms and definitions	1
2.1	Terms and definitions related to all areal surface texture measurement methods	1
2.2	Terms and definitions related to x- and y-scanning systems	8
2.3	Terms and definitions related to optical systems	10
2.4	Terms and definitions related to optical properties of the workpiece	12
2.5	Terms and definitions specific to phase-shifting interferometric microscopy	12
3	Descriptions of the influence quantities	13
3.1	General	13
3.2	Influence quantities	14
Annex A (informative) Components of a phase-shifting interferometric (PSI) microscope		16
Annex B (informative) Phase-shifting interferometric (PSI) microscope -- Theory of operation		17
Annex C (informative) Errors and corrections for phase-shifting interferometric (PSI) microscopes		22
Annex D (informative) Relation to the GPS matrix model		25
Bibliography		27