Accurate measurements in a production environment using dynamic length metrology (DLM) - DTU Orbit (28/03/2019)

This paper gives an update on current work concerning the development of the method of Dynamic Length Metrology (DLM) to obtain accurate traceable measurements directly in the production. Three case studies are described dealing with diameter measurements with sub-micrometer uncertainty on metallic parts, and dimensional measurements on polymer parts, where the achievable uncertainty of after molding predictions is of a few micrometers.

General information
State: Published
Organisations: Department of Mechanical Engineering, Manufacturing Engineering, Metrologic ApS
Pages: 343-348
Publication date: 2018
Peer-reviewed: Yes

Publication information
Journal: Procedia CIRP
Volume: 75
ISSN (Print): 2212-8271
Ratings:
BFI (2019): BFI-level 1
Web of Science (2019): Indexed yes
BFI (2018): BFI-level 1
Scopus rating (2017): CiteScore 1.5 SJR 0.668 SNIP 0.982
Scopus rating (2016): CiteScore 1.6 SJR 0.719 SNIP 1.374
Scopus rating (2015): SJR 0.605 SNIP 1.075
Scopus rating (2014): SJR 0.755 SNIP 1.4
Scopus rating (2013): SJR 0.53 SNIP 1.373
ISI Indexed (2013): ISI indexed no
Original language: English
Keywords: Metrology, Low uncertainty, Production environment
Electronic versions:
De_Chiffre_et_al_Accurate_Measurements_in_a_production_environment.pdf
DOIs:
10.1016/j.procir.2018.04.074
Source: RIS
Source-ID: urn:702290635997A2C4B80BC9B159887A41
Research output: Research - peer-review » Conference article – Annual report year: 2018