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Titolo	Machine Tool Metrology : An Industrial Handbook // by Graham T. Smith
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-25109-0
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (700 p.)
Disciplina	620
Soggetti	Automotive engineering Manufactures Physical measurements Measurement Transportation Machinery Automotive Engineering Manufacturing, Machines, Tools, Processes Measurement Science and Instrumentation Machinery and Machine Elements
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Machine Tools - an Introduction -- Laser Instrumentation and Calibration -- Optical Instrumentation for Machine Calibration -- Telescoping Ballbars and other Diagnostic Intrumentation -- Artefacts for Machine Verification -- Machine Tool Performance - Spindle Analysis; Corrosion and Oil Debris Monitoring; Thermography -- Uncertainty of Measurement and Statistical Process Control -- Machine Tool Reliability.- Total Productive Maintenance (TPM) and Reliability-centred Maintenance (RCM).
Sommario/riassunto	Maximizing reader insights into the key scientific disciplines of Machine Tool Metrology, this text will prove useful for the industrial-practitioner and those interested in the operation of machine tools. Within this current level of industrial-content, this book incorporates significant usage of the existing published literature and valid information

obtained from a wide-spectrum of manufacturers of plant, equipment and instrumentation before putting forward novel ideas and methodologies. Providing easy to understand bullet points and lucid descriptions of metrological and calibration subjects, this book aids reader understanding of the topics discussed whilst adding a voluminous-amount of footnotes utilised throughout all of the chapters, which adds some additional detail to the subject. Featuring an extensive amount of photographic-support, this book will serve as a key reference text for all those involved in the field. .

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