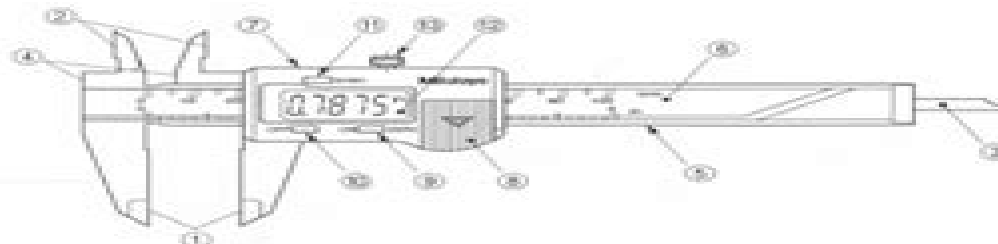


1. Nomenclature



- ① Outside Measuring Faces
- ② Inside Measuring Faces
- ③ Depth Measuring Blade
- ④ Step Measuring Faces
- ⑤ Main Blade
- ⑥ Scale Surface
- ⑦ Slider
- ⑧ Battery Lid
- ⑨ ON/ZERO Sw.
- ⑩ OFF Sw.
- ⑪ Inch/mm Conversion Sw.
- ⑫ LCD Display
- ⑬ Clamping screw

2. Precautions

- (1) Let the caliper be idle for more than one second after turning it on, because the caliper requires the start-up time for more than one second.
- (2) Keep the caliper free from water and oil. Do not dip or sink the caliper in liquid. If $E \cdot \cdot \cdot e5$ is displayed, wipe the scale surface with soft cloth. Apply a slight amount of low-viscosity oil, such as CRC3-36, to the scale surface to keep out water.
- (3) Do not apply any voltage to the caliper by such as an electric marker pen.
- (4) Do not scratch the scale surface.
- (5) Move the slider within the specified response speed. If $E \cdot \cdot \cdot e5$ is displayed, press the ON/ZERO switch to release the error.
- (6) Do not apply too much force or give any shock to the caliper.
- (7) Do not disassemble the caliper.
- (8) Use the caliper under a constant temperature level at around 20°C.
- (9) Do not use the caliper at the following places:
 - at high-humidity place
 - Where the caliper is exposed to direct sunlight.
 - at dusty place

3. Replacing Batteries

Set the provided SR44 before service referring to following because the cell was not set before shipment. Use a silver oxide cell SR44. Replace the battery as soon as possible when the message B comes on the left upper corner of the LCD display. B means that the battery is exhausted.

Set a SR44 in the battery compartment with the plus side up.



4. Specifications

4.1 General Specifications

Resolution: 0.01mm (.0005")

Measuring range: 4"/100mm • 6"/150mm • 8"/200mm

Instrumental error: $\pm 0.02\text{mm}$ ($\pm .001"$)

Repeatability: 0.01mm (.0005")

Functions: Zero setting

Inch/mm conversion

Battery: SR44 1pc.

Battery life: approx. two years under normal use
(approx. one year in continuous service)

Response speed: Up to approx. 1600mm (60") /s

Alarm and error message: B (For battery replacement.)
 $E \cdot \cdot \cdot e5$ (Overspeed)

Ambient temperature: 0 to 40°C (Operation)
-10 to 60°C (Storage)

Mitutoyo User Manual

Samuel Hilburn Ahrendes



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Applied Metrology for Manufacturing Engineering Ammar Grous, 2013-03-04 Applied Metrology for Manufacturing Engineering stands out from traditional works due to its educational aspect Illustrated by tutorials and laboratory models it is accessible to users of non specialists in the fields of design and manufacturing Chapters can be viewed independently of each other This book focuses on technical geometric and dimensional tolerances as well as mechanical testing and quality control It also provides references and solved examples to help professionals and teachers to adapt their models to specific cases It reflects recent developments in ISO and GPS standards and focuses on training that goes hand in hand with the progress of practical work and workshops dealing with measurement and dimensioning

Handbook of Optical Metrology Toru Yoshizawa, 2017-07-28 Handbook of Optical Metrology Principles and Applications begins by discussing key principles and techniques before exploring practical applications of optical metrology Designed to provide beginners with an introduction to optical metrology without sacrificing academic rigor this comprehensive text Covers fundamentals of light sources lenses prisms and mirrors as well as optoelectronic sensors optical devices and optomechanical elements Addresses interferometry holography and speckle methods and applications Explains Moir metrology and the optical heterodyne measurement method Delves into the specifics of diffraction scattering polarization and near field optics Considers applications for measuring length and size displacement straightness and parallelism flatness and three dimensional shapes This new Second Edition is fully revised to reflect the latest developments It also includes four new chapters nearly 100 pages on optical coherence tomography for industrial applications interference microscopy for surface structure analysis noncontact dimensional and profile metrology by video measurement and optical metrology in manufacturing technology

High-speed Machining of Titanium with PCD Tools Samuel Hilburn Ahrendes, 2000

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Grainger ,1996 Machinery Buyers' Guide ,2003 *Window and Dome Technologies and Materials* ,1999

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Xiaobing Luo,Run Hu,Bin Xie,2024-08-12 A systematic guide to the theory applications and design of thermal management for LED packaging In *Thermal Management for Opto electronics Packaging and Applications* a team of distinguished engineers and researchers deliver an authoritative discussion of the fundamental theory and practical design required for LED product development Readers will get a solid grounding in thermal management strategies and find up to date coverage of heat transfer fundamentals thermal modeling and thermal simulation and design The authors explain cooling technologies and testing techniques that will help the reader evaluate device performance and accelerate the design and manufacturing cycle In this all inclusive guide to LED package thermal management the book provides the latest advances in thermal engineering design and opto electronic devices and systems The book also includes A thorough introduction to thermal conduction and solutions including discussions of thermal resistance and high thermal conductivity materials Comprehensive explorations of thermal radiation and solutions including angular and spectra regulation radiative cooling Practical discussions of thermally enhanced thermal interfacial materials TIMs Complete treatments of hybrid thermal management in downhole devices Perfect for engineers researchers and industry professionals in the fields of LED packaging and heat transfer *Thermal Management for Opto electronics Packaging and Applications* will also benefit advanced students focusing on the design of LED product design *Plastic Tests Plastics* Richard Moser,2015-06-25 Richard Moser shows how to use and upgrade toy bricks for the construction of a lightweight low cost and easy to reproduce tensile testing setup Tailored for the characterization of elastomers and stretchable electrodes the setup is capable of performing stress strain studies along with resistance strain measurements Based on the underlying theory of material deformation and rubber elasticity the author applies the setup to mechanically characterize polydimethylsiloxane PDMS with different grades of stiffness The versatility of the device is highlighted with the electromechanical characterization of stretchable thin film metal electrodes on PDMS Applications of the author s setup range from using it as an educational tool in practical physics and engineering courses over being showcase in scientific exhibitions to its utilization as an inexpensive and reliable laboratory tool X Latin American Conference on Biomedical Engineering Fabiola M. Martinez-Licon, Virginia L. Ballarin, Ernesto A. Ibarra-Ramírez, Sandra M. Pérez-Buitrago, Luis R. Berriere, 2025-04-29 This book reports on the latest research and developments in Biomedical Engineering with a special emphasis on technologies transforming health in Latin America This second volume of a 2 volume set covers advances in the development of assistive therapeutic and diagnostic devices and cutting edge methods for biological signal acquisition and analysis Throughout the book a special emphasis is given to low cost affordable technologies and to their development for and applications in clinical settings Based on the X Latin American Conference on Biomedical Engineering CLAIB 2024 held on October 2 5 2024 in Panama City Panama this book provides

researchers and professionals in the biomedical engineering field with extensive information on new technologies and current challenges for their clinical applications Industrial Engineering ,1986 *Conventional and Powder Mixed Electro-Discharge Machining* Ahmad Majdi Abdul-Rani,Masdi Muhammad,T V V L N Rao,Saeed Rubaiee,Anas Ahmed,Mohd Danish,2024-09-02 This book presents the evolution of the electro discharge machining EDM process from conventional EDM to powder mixed EDM with emphases on biomedical applications It discusses the theory behind each process and their applications in the field of biomedical research and presents a brief background to various EDM processes current research challenges and detailed case studies of powder mixed EDM of various materials It also includes a state of the art review of the EDM process Features Focuses on biomedical implant and device manufacturing using commercialization of powder mixed electro discharge machining PM EDM technology Discusses surface modification of biomaterials through the PM EDM process Reviews processing of the metallic biomaterials for biomedical applications Explores optimization of the process factors for achieving optimal responses using NSGA II Includes comprehensive mechanism and application details of the PM EDM process This book is aimed at graduate students and researchers in manufacturing production materials and biomedical engineering **Quality Today** ,2003 *Materials World* ,2006 American Machinist & Automated Manufacturing ,1987

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