



# PRECISION FORCE CALIPER MICROTECH

## USER MANUAL



Calibration ISO 17025:2017

ISO 9001  
BUREAU VERITAS  
Certification



ISO 9001:2015

Item No	Range		Resolution	Accuracy	Force	Protection	Display
	mm	inch					
141088152	0-150	0-6"	0,005	±10	8	IP-54	Digit 9mm
141088252	0-200	0-8"		±10	8	IP-54	
141088352	0-300	0-12"		±10	8	IP-54	

\*MAX ERROR FOR INTERNAL END DEPTH MEASUREMENTS DIN-862

## BUTTON FUNCTIONS

Switch between metric and English measurement systems

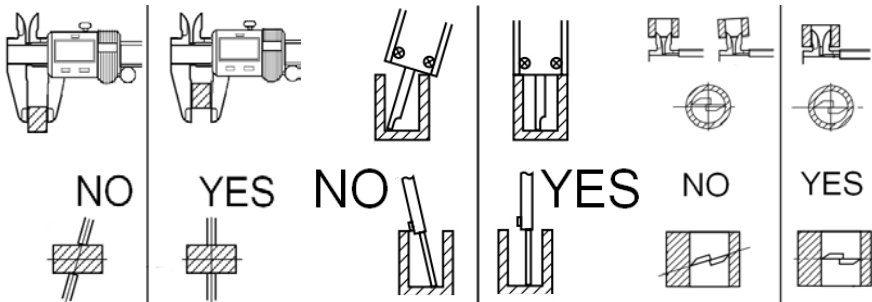


ORIGIN function after battery change (Press 5 sec)

ON/OFF function

Switching between absolute and relative measurement (display INC) or setting ZERO

## CORRECT MEASUREMENTS



# OPERATION INSTRUCTIONS

3.1 Wipe with a clean cloth, soaked in gasoline, measuring surface of the frame and gauge calipers to remove anti-corrosion oil. Then wipe them with a clean dry cloth.

3.2 If necessary, open the battery cover; insert the battery (type **CR1632**) according to the polarity of the electrodes. Blinking display information or absence suggests replacing battery.

It will be indication on display «-----» after battery chnging. Press ORIGIN button for 5 sec to start reading system.

3.3 Check the zero setting of the caliper. Sum the measuring jaws to contact with each other. Force is generated with a measuring force indication. To create the recommended force (8N) by the block adjustment and press ZERO button.

3.4 During the measurement, measuring jaws should to sum to the measured object without knocking.

3.5 During the measurement avoid warps of measuring surfaces of the instrument. Measuring surface must be fully in contact with the measurement object.

3.6 Optimal measuring force for this size caliper  $8\pm 2N$ . During a measuring process control optimal measuring force on Measuring force indication window.

3.7 After finishing work wipe the measuring surfaces of the caliper with a cloth soaked in gasoline and apply anticorrosion oil.



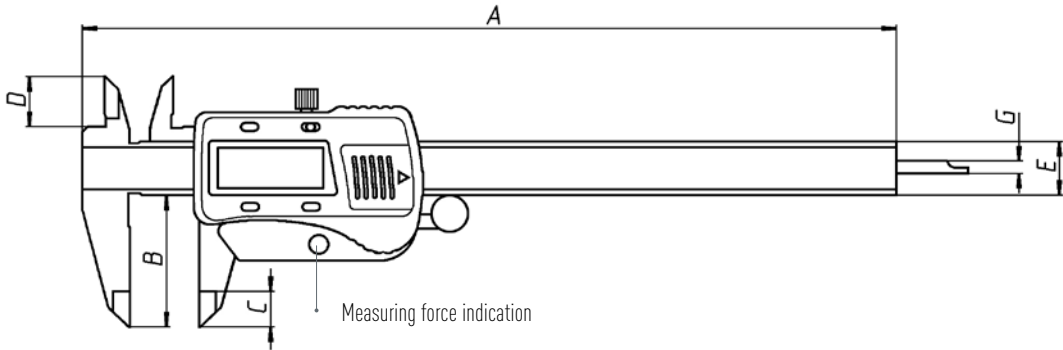
## WARNING!

**IN THE PROCESS OF WORKING WITH CALIPERS SHOULD BE AVOIDED:**

**Scratches on the measuring surfaces;**

**Measuring the size of object in the process of machining;**

**Shocks or dropping, avoid bending of rod or other surfaces.**



Item No	Dimensions						Display
	A	B	C	D	E	G	
	mm	mm	mm	mm	mm	mm	
141088152	235	40	10	16	16	4x1,4	Digit 9mm
141088252	290	50	10	18	16	4x1,4	
141088352	395	60	11	21	16	4x1,4	

**FUNCTIONS**

FORCE 8 N  
 IP54 ELECTRONICS  
 HAND FINISHED SURFACES  
 CR1632 3V BATTERY

MM/INCH  
 POSITION MEMORIZED  
 AUTO WAKE UP & SWITCH OFF

**OPTIONAL ACCESORIES**

