



# BEARING & TOOL CENTRE



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## Our Sister Concern : RELIEF SERVICE CENTRE

Repairs, Removal of Jaw Error, Bore Gauge Extension, Instrument Modifications & Spares

### Quotation

30 | Digimatic Vernier Caliper [ Electronic ] | Least count 0. 01 mm / 0. 0005 inch

Range-mm	W	C	D %	0-150	0-200	0-300	0 - 100
Insize Rs.	12	N		2088	2922	5390	2494
Code				<b>1112 - 150</b>	<b>1112 - 200</b>	<b>1112 - 300</b>	<b>1111-100A</b>
Catalog				Page No - 5	Page No - 5	Page No - 5	Page No - 5
Insize Rs. - With data Outs Put	12	Y		2351	3238	5681	
Code				<b>1108 - 150</b>	<b>1108 - 200</b>	<b>1108 - 300</b>	
Catalog				Page No - 3	Page No - 3	Page No - 3	
Insize Rs	12	N		4675	4675	4675	
SPC Cable (7302)				<b>SPC1A</b>	<b>SPC1A</b>	<b>SPC1A</b>	
Catalog				Page No - 4	Page No - 4	Page No - 4	
Insize Rs. - Coolant Proof	12	Y		6376	9929	13618	
Code With Thumb Roller				<b>1118-150B</b>	<b>1118-200B</b>	<b>1118-300B</b>	
Catalog				Page No - 5	Page No - 5	Page No - 5	
Insize Rs. - Coolant Proof	12	Y		6376	9928	13618	
Code With Out Thumb (1118)				<b>150BW</b>	<b>200BW</b>	<b>300BW</b>	
Catalog				Page No - 5	Page No - 5	Page No - 5	
Aerospace Rs.		N	10	700	1200	1720	
Advance Rs.		N	10	1650	2090	3600	
Kristeel	-	Y	30	3100	4100	5100	
Code				<b>2916</b>	<b>2917</b>	<b>3747</b>	
Catalog				Page No - 14	Page No - 14	Page No - 14	
M & W Rs. - IP 67	6	N		4800	6500	11500	
Code (DIG67)				<b>6</b>	<b>8</b>	<b>12</b>	
Catalog				Page No - 13	Page No - 13	Page No - 13	
M & W	6	N		2600	3400	5000	
Code No. with Data Output				<b>DIG150</b>	<b>DIG200</b>	<b>DIG300</b>	
Catalog				Page No - 13	Page No - 13	Page No - 13	
Baker Rs	12	Y	15	4430	5870	7725	
Code				<b>SDN 10</b>	<b>SDN 20</b>	<b>SDN 30</b>	
Catalog				Page No - 8,9	Page No - 8,9	Page No - 8,9	
Baker Rs.- Water Proof	12	Y	15	7190	9550	11910	
Code				<b>ZD 10</b>	<b>ZD 20</b>	<b>ZD 30</b>	
Catalog				Page No - 8,9	Page No - 8,9	Page No - 8,9	
Precision Rs.	12	Y	20	3200	3800	5400	
Mitutoyo Rs.	12	Y	5	7216	8785	19453	
Code - inch & mm (IP 67)				<b>500 - 196</b>	<b>500 - 197</b>	<b>500 - 754</b>	
Catalog				Page - 9,10	Page - 9,10	Page - 9,10	
Mitutoyo Rs. - China	12	N	5	4850	6850		
Code				<b>500-144</b>	<b>500-147</b>		
Catalog				Page - 9,10	Page - 9,10		
Mitutoyo Rs.- with data output	12	Y	5			24370	
Code - inch & mm						<b>500 - 173</b>	
Catalog						Page - 10,11	

**Note:- Aerospace item once sold will not be taken back even if it is Faulty.**

\*\*\* W – Warranty , C – Certificate , D- Discount

## **Terms & Conditions –**

- Goods offered - Subject to Prior Sale
- Price Validity: "15 Days from Date of Quotation"
- C.S.T 2% extra against form C. Otherwise 5% without form C For Out of Gujarat Sales only.
- VAT 5% extra for Sales within Gujarat. Prices Ex-Godown Ahmedabad.
- Payment against Proforma Invoice, Packing, Forwarding & Freight extra.
- **Bank Detail** – Kotak Mahindra Bank Ltd.
- **Branch** – Shivranjini
- **Bank IFSC Code** - KKBK 0000 810
- **Bank Account No.** 08102 00000 2689
- Note - While making payment online do mention your Company's name.
- TIN NO 24070901229 , CST No. 24570901229
- We are looking forward to your valued orders.

# INSIZE MAKE

DATA OUTPUT

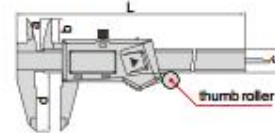


- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Meet DIN862
- Made of stainless steel
- Optional accessory: data output cable (code 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A)

## DIGITAL CALIPER (STANDARD MODEL)



1108-150



\* Supplied with manufacturer inspection certificate traceable to DKD Germany

Code	Range	Accuracy	Thumb roller	L	a	b	c	d
1108-150 *	0-150mm/0-6"	±0.03mm	with	236	21	16	16	40
1108-200 *	0-200mm/0-8"	±0.03mm	with	286	24	19	16	50
1108-300 *	0-300mm/0-12"	±0.03mm	with	400	25	20.5	17	60
1108-150W *	0-150mm/0-6"	±0.03mm	without	236	21	16	16	40
1108-200W *	0-200mm/0-8"	±0.03mm	without	286	24	19	16	50
1108-300W *	0-300mm/0-12"	±0.03mm	without	400	25	20.5	17	60

7302-SPC5A 7302-SPC5B 7302-SPC2A 7302-SPC3A 7302-SPC4



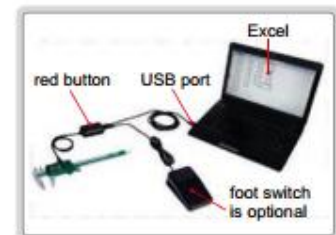
## DATA OUTPUT CABLE



7304-2

Code	Description	Remark
7302-SPC5A	cable (length 2.5m)	for digital calipers and digital depth gages (not for 1103)
7302-SPC5B	cable (length 2.5m)	for digital calipers and digital depth gages (not for 1103)
7302-SPC2A	cable (length 2.5m)	for digital micrometers (not for 3631, 3632, 3108, 3109, 3635)
7302-SPC3A	cable (length 2.5m)	for digital indicators digital protractors
7302-SPC4	cable (length 2.5m)	for digital calipers 1103 series (for 1103 only)
7304-2	foot switch with cable (length 1.5m)	optional

- Connect to USB port of computer
- Without software, data can be input as keyboard signal to Excel, Word, etc.
- Press the red button or foot switch (optional) to input data



# WIRELESS DATA TRANSFER SYSTEM

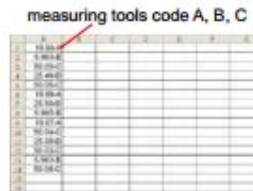
Code	Description	Applicable products
7306-1	receiver (with USB cable)	
7306-2	receiver (with RS232 cable)	
7306-20	transmitter	digital calipers and digital depth gages (not for 1103)
7306-30	transmitter	digital micrometers (not for 3631, 3632, 3108, 3109, 3635)
7306-40	transmitter	digital indicators
		digital protractors



- DATA COLLECTION:
  - Single collection: press the read button once to collect the reading from measuring tool once.
  - Multi collection: press the read button once to start collecting readings from measuring tools continuously, press the button again to stop collecting. Total collection times and interval time can be adjusted.

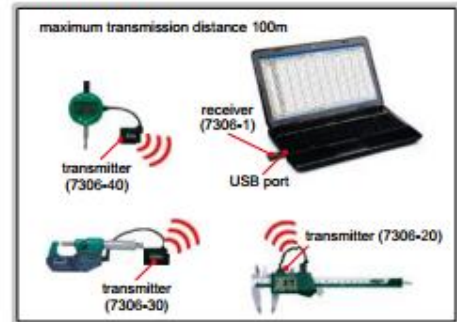


- DISPLAY: data can be input to Excel as keyboard signal.



All data are displayed in the same column. Each measuring tool can be coded such as A, B, C, etc.

- CONNECTION: one receiver can be connected to 30 transmitters.



## RS232 DATA OUTPUT CABLE



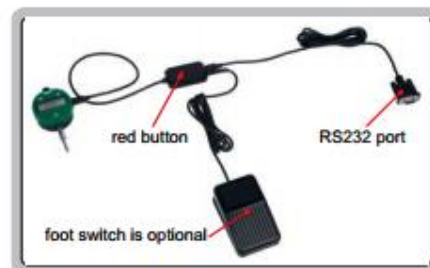
automatic judgment by setting tolerance

test result display (maximum value, minimum value, total quantity of workpiece, quantity of Go and No-Go, quantity of exceed upper tolerance and exceed lower tolerance)

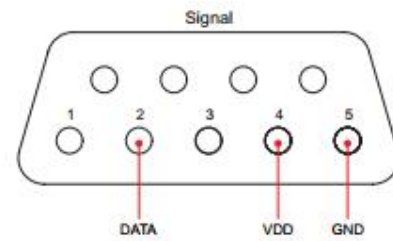
Manual sampling

Automatic sampling

set auto sampling interval and tolerance



- Manual sampling and automatic sampling
- Press manual sampling button in software or red button on cable or foot switch once to collect the reading from measuring tool once
- Can be used in Windows Hyperterminal
- Supplied with software
- Voltage required: 5-10V
- Cable length 2.5m



Code	Applicable products	
7305-SPC1A	digital indicators	digital protractors
7305-SPC2A	digital calipers and digital depth gages (not for 1103)	
7305-SPC3	digital micrometers (not for 3631, 3632, 3108, 3109, 3635)	
7304-2	foot switch with cable (length 1.5m), optional	

## DIGITAL CALIPER

DATA OUTPUT

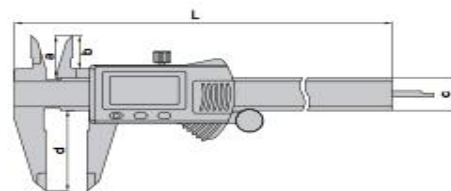
ECONOMIC MODEL



1112-150

- Resolution: 0.01mm/0.0005"
- Buttons: zero, on/off, mm/inch
- Battery SR44 or LR44
- Data output
- Meet DIN862
- Optional accessory: data output system

Code	Range	Accuracy	L	a	b	c	d
1112-150	0-150mm/0-6"	±0.03mm	236	21	16	16	40
1112-200	0-200mm/0-8"	±0.03mm	286	24	19	16	50
1112-300	0-300mm/0-12"	±0.03mm	400	25	20.5	17	60



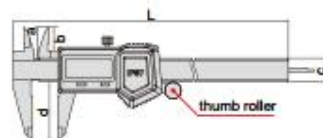
## WATERPROOF DIGITAL CALIPER

ATTENTION: IT IS NECESSARY TO SET ZERO AFTER POWER ON EACH TIME

ATTENTION: NO DATA OUTPUT

IP67 WATERPROOF

- IP67 dust/waterproof
- Resolution: 0.01mm/0.0005"
- Button function: zero, on/off, mm/inch, ABS/REL, hold
- Battery CR2032
- Meet DIN862
- Made of stainless steel



Code	Range	Accuracy	Thumb roller	L	a	b	c	d
1118-150B*	0-150mm/0-6"	±0.03mm	with	236	21	16	16	40
1118-200B*	0-200mm/0-8"	±0.03mm	with	286	24	19	16	50
1118-300B*	0-300mm/0-12"	±0.03mm	with	400	25	20.5	17	60
1118-150BW*	0-150mm/0-6"	±0.03mm	without	236	21	16	16	40
1118-200BW*	0-200mm/0-8"	±0.03mm	without	286	24	19	16	50
1118-300BW*	0-300mm/0-12"	±0.03mm	without	400	25	20.5	17	60



1118-150B

\* Supplied with manufacturer inspection certificate traceable to DKD Germany

# BAKER MAKE

## CALIPERS



### DIGITAL CALIPERS

PRODUCT CODE	DESCRIPTION	UNIT RATE ₹
E62219000	BAKER Water Resistant Digital Caliper <b>Type ZD10</b> , with metric & inch capability and RS232 data output, conforming to IP67. Reading : 0.01 mm / 0.0005 inch Range : 0 - 150 mm / 0- 6 inch	7,190.00
E62229000	BAKER Water Resistant Digital Caliper <b>Type ZD20</b> , with metric & inch capability and RS232 data output, conforming to IP67. Reading : 0.01 mm / 0.0005 inch Range : 0 - 200 mm / 0 - 8 inch	9,550.00
E62239000	BAKER Water Resistant Digital Caliper <b>Type ZD30</b> , with metric & inch capability and RS232 data output, conforming to IP67. Reading : 0.01 mm / 0.0005 inch Range : 0 - 300 mm / 0 - 12 inch	11,910.00
E62211005	BAKER <b>Proximity Cable</b> for RS232 interface suitable for BAKER ZD series IP67 Digital Calipers	4,975.00
E62211004	BAKER <b>Proximity Cable</b> for USB interface suitable for BAKER ZD series IP67 Digital Calipers	4,975.00
E62189000	BAKER Digital Caliper <b>Type SDN10</b> , with metric & inch capability. Reading : 0.01 mm / 0.0005 inch Range : 0 - 150 mm / 0 - 6 inch	4,430.00
E62199000	BAKER Digital Caliper <b>Type SDN20</b> , with metric & inch capability. Reading : 0.01 mm / 0.0005 inch Range : 0 - 200 mm / 0 - 8 inch	5,870.00
E62209000	BAKER Digital Caliper <b>Type SDN30</b> , with metric & inch capability. Reading : 0.01 mm / 0.0005 inch Range : 0 - 300 mm / 0 - 12 inch	7,725.00

# DIGITAL CALIPERS



**TYPE SDN10**

TYPE	READING	MEASURING RANGE
<b>SDN10</b>	<b>0.01 mm (0.0005")</b>	<b>0-150 mm (0-6")</b>
<b>SDN20</b>	<b>0.01 mm (0.0005")</b>	<b>0-200 mm (0-8")</b>
<b>SDN30</b>	<b>0.01 mm (0.0005")</b>	<b>0-300 mm (0-12")</b>

**ACCURACY : AS PER DIN 862**

# IP67 DIGITAL CALIPERS

**WATER &  
COOLANT RESISTANCE  
WITH RS232 OUTPUT**



**TYPE ZD10**

TYPE	READING	MEASURING RANGE
<b>ZD10</b>	<b>0.01 mm (0.0005")</b>	<b>0-150 mm (0-6")</b>
<b>ZD20</b>	<b>0.01 mm (0.0005")</b>	<b>0-200 mm (0-8")</b>
<b>ZD30</b>	<b>0.01 mm (0.0005")</b>	<b>0-300 mm (0-12")</b>

**ACCURACY : AS PER DIN 862**

## 01 / ELECTRONIC DIGITAL CALIPERS



**GENERAL**

- Measures in mm, inches & fractions
- All metal construction. No plastic parts
- Least Count: 0.01 mm, 0.0005", 1/64"
- Supplied complete with calibration certificate



Metric (mm) measurement

Inch measurement

Fractional measurement



### Ordering Information

Art. Nr.	Range	Accuracy	Box Qty	Unit Price (€)
EDF-6C	0-153mm (0-6")	±0.02mm (±0.001")	5	3,150.00
EDF-8C	0-204mm (0-8")	±0.03mm (±0.0012")	5	4,305.00
EDF-12C	0-305mm (0-12")	±0.04mm (±0.0016")	5	5,355.00

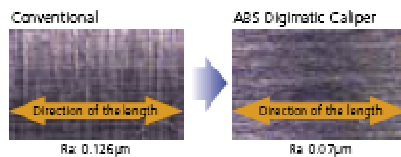
# MITUTOYO MAKE

## ABSOLUTE Digimatic Caliper

SERIES 500 — with Exclusive ABSOLUTE Encoder Technology

Mitutoyo's absolute Digimatic Caliper is the next generation of electronic calipers. It keeps track of its origin point once set. Whenever turned on, the large LCD screen displays the actual slider position ready to start measurement. No more repeated zero setting is necessary with the absolute encoder technology as well as no more care for overspeed errors.

High quality guide surface finish for smooth slider movement



### FEATURES

- Large and clear LCD readout.
- The ZERO/ABS key allows the display to be Zero-Set at any slider position along the scale for incremental comparison measurements. This switch will also allow return to the absolute (ABS) coordinate and display of the true position from the origin point (usually jaws-closed point).
- Data Hold Unit (959143) is optional.
- Carbide-tipped jaw type calipers are also available.



DIMENSION

SPC

ABSOLUTE<sup>®</sup>  
Absolute System Fabricated by MITUTOYO

(Refer to the page 9 for details.)

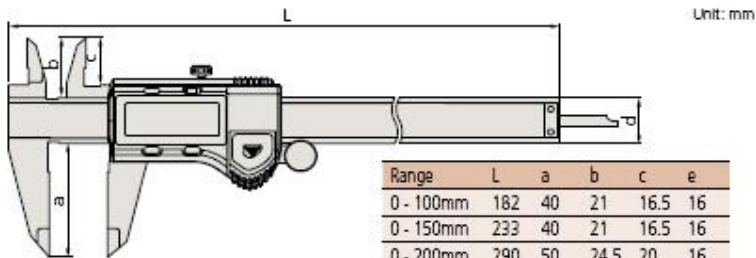


(Refer to the page 9 for details.)

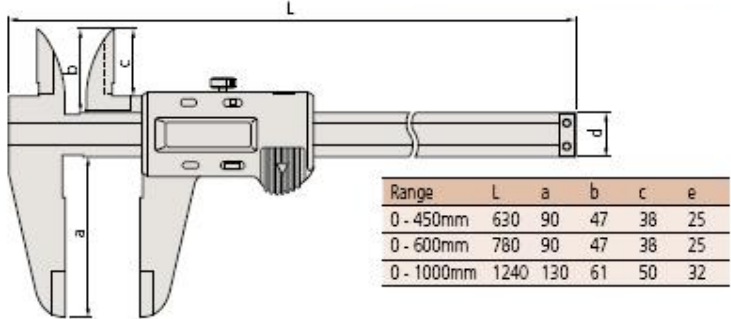
### Technical Data

Accuracy:  $\pm 0.02\text{mm}$  ( $\pm 200\text{mm}$ ),  $\pm 0.03\text{mm}$  ( $\pm 300\text{mm}$ )  
 $\pm 0.05\text{mm}$  ( $\pm 600\text{mm}$ ),  $\pm 0.07\text{mm}$  ( $\pm 1000\text{mm}$ )  
(excluding quantizing error)  
Resolution: 0.01mm or .0005"/0.01mm  
Repeatability: 0.01mm  
Display: LCD  
Length standard: ABSOLUTE electrostatic capacitance type linear encoder  
Max. response speed: Unlimited  
Battery: SR44 (1 pc.), 938882  
Battery life: Approx. 2.5 years under normal use





Range	L	a	b	c	e
0 - 100mm	182	40	21	16.5	16
0 - 150mm	233	40	21	16.5	16
0 - 200mm	290	50	24.5	20	16
0 - 300mm	403	64	27.5	22	20



Range	L	a	b	c	e
0 - 450mm	630	90	47	38	25
0 - 600mm	780	90	47	38	25
0 - 1000mm	1240	130	61	50	32

### Function

Origin-set, Zero-setting, Data output, inch/mm conversion (inch/mm models)  
 Alarm: Low voltage, Counting value composition error

### Optional Accessory

- 959143: Data hold unit
- 959149: SPC cable with data switch (1m)
- 959150: SPC cable with data switch (2m)



## SPECIFICATIONS

### Metric

Range	Order No.	Remarks (depth measuring bar / thumb roller / others)		
0 - 100mm	500-150-20	ø1.9mm rod	with thumb roller	—
0 - 100mm	500-180-20*	ø1.9mm rod	—	—
0 - 150mm	500-151-20	Blade	with thumb roller	—
0 - 150mm	500-154-20	Blade	with thumb roller	Carbide-tipped jaws for OD measurement
0 - 150mm	500-155-20	Blade	with thumb roller	Carbide-tipped jaws for OD & ID measurement
0 - 150mm	500-158-20	ø1.9mm rod	with thumb roller	—
0 - 150mm	500-181-20*	Blade	—	—
0 - 200mm	500-152-20	Blade	with thumb roller	—
0 - 200mm	500-156-20	Blade	with thumb roller	Carbide-tipped jaws for OD measurement
0 - 200mm	500-157-20	Blade	with thumb roller	Carbide-tipped jaws for OD & ID measurement
0 - 200mm	500-182-20*	Blade	—	—
0 - 300mm	500-153	Blade	with thumb roller	—
0 - 450mm	500-500-10	—	—	—
0 - 600mm	500-501-10	—	—	—
0 - 1000mm	500-502-10	—	—	—

\*without SPC data output

### Inch/Metric

Range	Order No.	Remarks (depth measuring bar / thumb roller / others)		
0 - 4"	500-170-20	ø3/40" rod	with thumb roller	—
0 - 4"	500-195-20*	ø3/40" rod	with thumb roller	—
0 - 6"	500-171-20	Blade	with thumb roller	—
0 - 6"	500-174-20	Blade	with thumb roller	Carbide-tipped jaws for OD measurement
0 - 6"	500-175-20	Blade	with thumb roller	Carbide-tipped jaws for OD & ID measurement
0 - 6"	500-178-20	ø3/40" rod	with thumb roller	—
0 - 6"	500-196-20*	Blade	with thumb roller	—
0 - 6"	500-159-20*	Blade	with thumb roller	Carbide-tipped jaws for OD measurement
0 - 6"	500-160-20*	Blade	with thumb roller	Carbide-tipped jaws for OD & ID measurement
0 - 8"	500-172-20	Blade	with thumb roller	—
0 - 8"	500-176-20	Blade	with thumb roller	Carbide-tipped jaws for OD measurement
0 - 8"	500-177-20	Blade	with thumb roller	Carbide-tipped jaws for OD & ID measurement
0 - 8"	500-197-20*	Blade	with thumb roller	—
0 - 8"	500-163-20*	Blade	with thumb roller	Carbide-tipped jaws for OD measurement
0 - 8"	500-164-20*	Blade	with thumb roller	Carbide-tipped jaws for OD & ID measurement
0 - 12"	500-173	Blade	with thumb roller	—
0 - 12"	500-167	Blade	with thumb roller	Carbide-tipped jaws for OD measurement
0 - 12"	500-168	Blade	with thumb roller	Carbide-tipped jaws for OD & ID measurement
0 - 12"	500-193*	Blade	with thumb roller	—
0 - 12"	500-165*	Blade	—	Carbide-tipped jaws for OD measurement
0 - 12"	500-166*	Blade	—	Carbide-tipped jaws for OD & ID measurement
0 - 18"	500-505-10	—	with thumb roller	—
0 - 24"	500-506-10	—	with thumb roller	—
0 - 40"	500-507-10	—	with thumb roller	—

\*without SPC data output



500-502-10

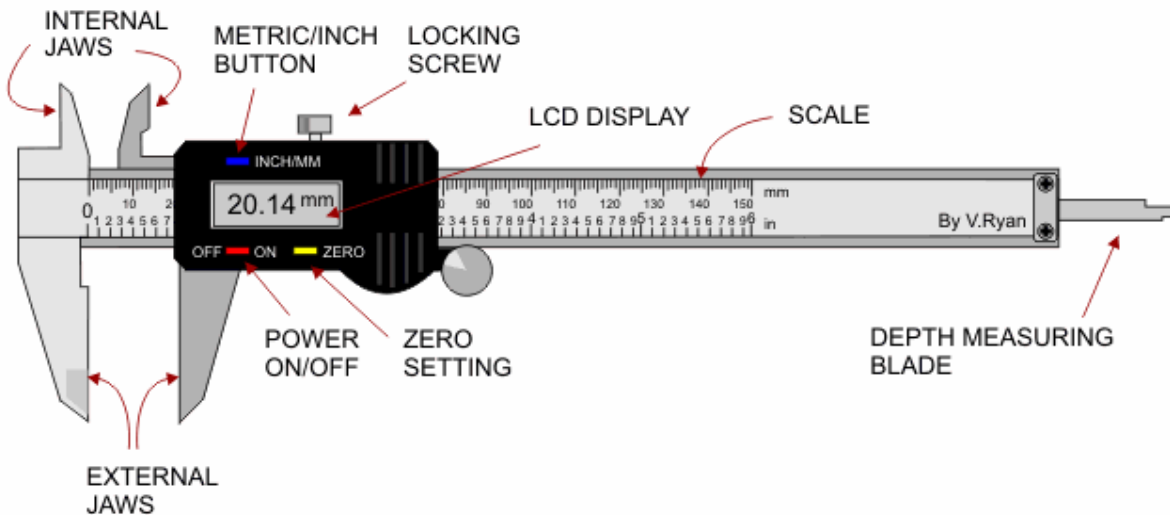
500-501-10

500-500-10

The Digital Caliper (sometimes incorrectly called the Digital Vernier Caliper) is a precision instrument that can be used to measure internal and external distances extremely accurately. The example shown below is a digital caliper as the distances/measurements, are read from a LCD display. The most important parts have been labelled.

Earlier versions of this type of measuring instrument had to be read by looking carefully at the imperial or metric scale and there was a need for very good eyesight in order to read the small sliding scale. Manually operated vernier calipers can still be bought and remain popular because they are much cheaper than the digital version. Also, the digital version requires a small battery whereas the manual version does not need any power source.

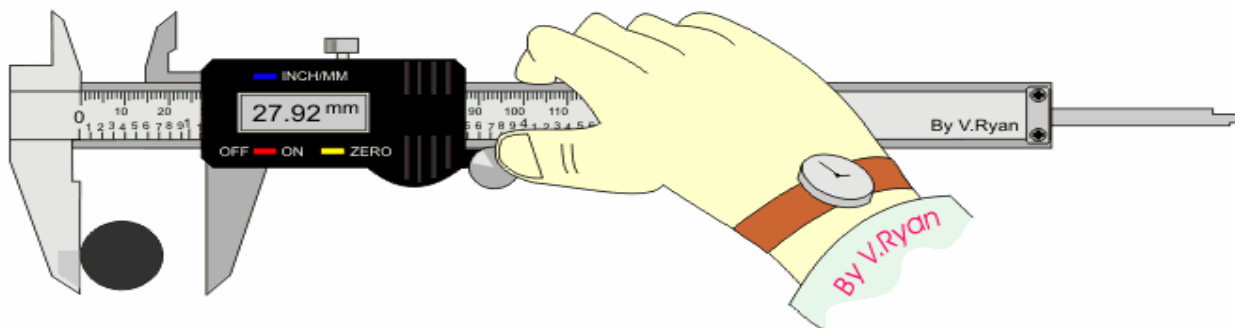
Digital calipers are easier to use as the measurement is clearly displayed and also, by pressing the inch/mm button the distance can be read as metric or imperial.



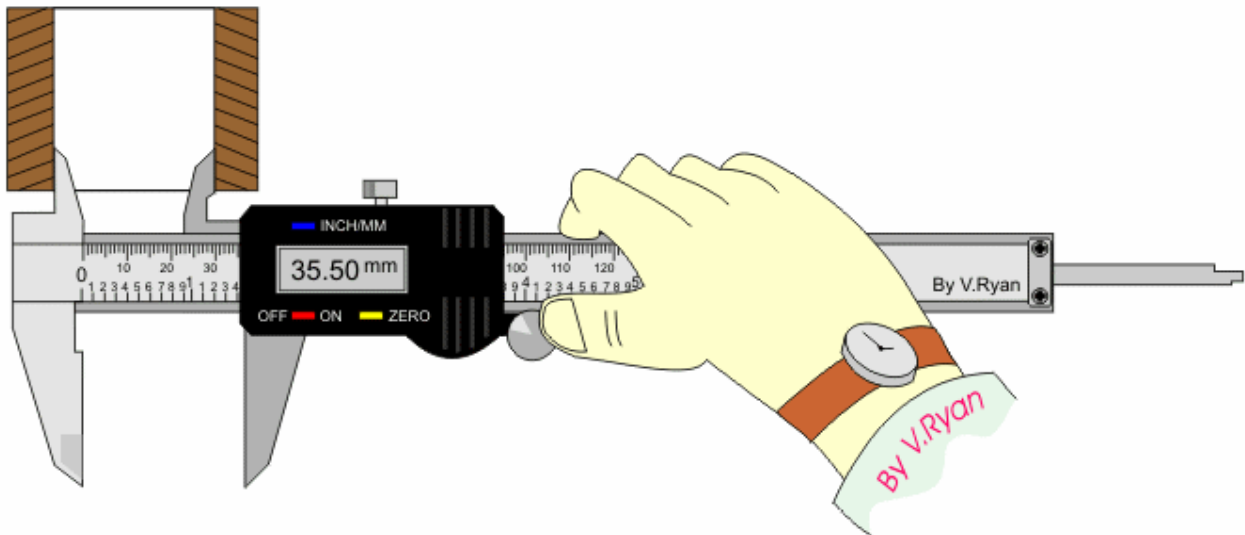
The display is turned on with the on/off button. The external jaws should then be brought together until they touch and the zero button should be pressed. The digital caliper can then be used to measure distances. Always go through this procedure when turning on the display for the first time.

### MEASURING EXTERNAL DISTANCES

The material to be measured is placed between the external jaws and they are carefully brought together. The locking screw is tightened so that the jaws do not move apart. The digital display can then be read. The distance can be read by in metric and imperial by pressing the inch/mm button.

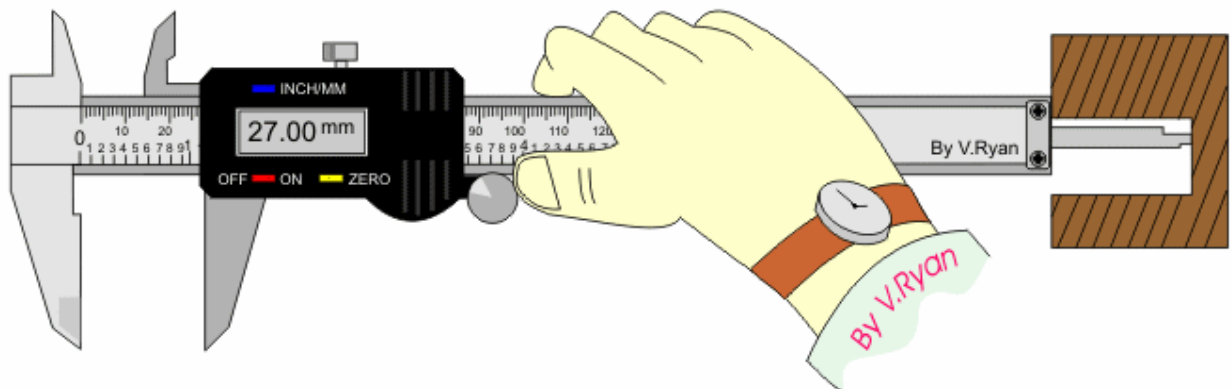


The example below shows a digital caliper being used to measure the internal diameter of a piece of copper tube. The internal jaws are adjusted carefully until they touch the internal 'sides'. The locking screw is tightened so that an accurate measurement can be made even if the jaws are 'knocked' against the sides as the jaws are removed from the hole. The measurement is shown on the LCD display.



### MEASURING DEPTHS

Measuring the depth of a hole can be very difficult. However, using a digital caliper makes this task easy. The base of the vernier caliper rests on the top of the hole and the depth measuring blade is adjusted until it touches the bottom of the hole. The locking screw is tightened and the measurement can be read on the LCD display.



# M&W MAKE



Professional Measuring Instruments

**INTRODUCING DIGITAL VERNIER  
HAVING BEST 'ABSOLUTE' TECHNOLOGY  
& 'REPEATABILITY' IN THE WORLD...**



AVAILABLE IN THREE SIZES

CODE	RANGE	PRICE
DIG 150	0-150 mm / 6"	2,600/-
DIG 200	0-200 mm / 8"	3,400/-
DIG 300	0-300 mm / 12"	5,000/-



ALSO AVAILABLE DATA CABLE TO  
CONNECT YOUR VERNIER DIRECTLY  
TO YOUR COMPUTERS.



[www.mgwprecision.com](http://www.mgwprecision.com)

# KRISTEEL MAKE

**KRISTEEL - Shinwa**<sup>®</sup>  
AN ISO 9001 COMPANY

**Made in India**

**Digital Vernier Caliper**

Measuring Range :- 0-150mm, 0-200mm  
Resolution :- 0.01mm / 0.0005"  
Power :- SR 44, One 1.55v Button Cell

Features :-

1. Internal Measuring Jaws
2. Inch/metric conversion available
3. Locking Screw
4. Hold Button
5. LCD Display
6. External Measuring Jaws
7. Power on/off Button
8. Zero Setting
9. Battery Cover
10. Depth Measuring Blade
11. Step-Measuring Faces
12. Supplied with Calibration Certificate

## A. DIGITAL VERNIER CALIPER

Model No.	Range
2916	150mm (6")
2917	200mm (8")
3747	300mm (12")

Least Count – 0.01mm/0.0005"

Features:-

- 1) Internal & External Measuring Jaws.
- 2) LCD Display.
- 3) Inch/Metric Conversion table.
- 4) Locking Screw, On/Off Button & Battery cover.
- 5) Zero Setting & Hold Button.
- 6) Depth Measuring blade & Step- measuring faces.
- 7) Supplied with Calibration Certificate.