

BATHS

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HOTPLATES

MECHANICAL MEASUREMENT

HEATING MANTLES



# MECHANICAL MEASUREMENT



**MT-1101060**

### MT-1101060, Universal Digital Calipers

#### Features:

- Universal Digital Calipers (Updatable for different measuring tasks with all kinds of attachment).
- Can measure  $\Phi 1\text{mm}$  hole.
- Can measure inside flat groove.
- Can measure very narrow grooves.
- Can measure outside dimensions.
- Can measure the center distance between two holes.
- Can measure from edge to hole center.
- Can measure stepped sections.
- Can measure outside groove.
- Can measure inside groove.
- Can measure sectioned shafts.
- Can measure tube wall thickness.
- Broad measuring faces can easily measure the diameter of steel wire rope.



Can measure stepped sections



Can measure inside groove



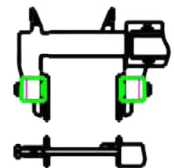
Can measure outside groove



Can measure sectioned shafts



Can measure from edge to hole center



Broad measuring faces can easily measure the diameter of steel wire rope



Can measure the center distance between two holes



Can measure tube wall thickness

#### Specifications:

Model	MT-1101060
Measuring Range	0-150mm
Resolution	0.01mm



**MT-111101G**

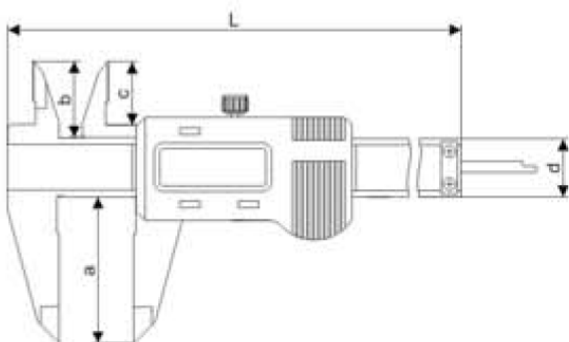
**MT-111101B**

### MT-111101G/B, Complete Titanium Coated Digital Calipers

#### Features:

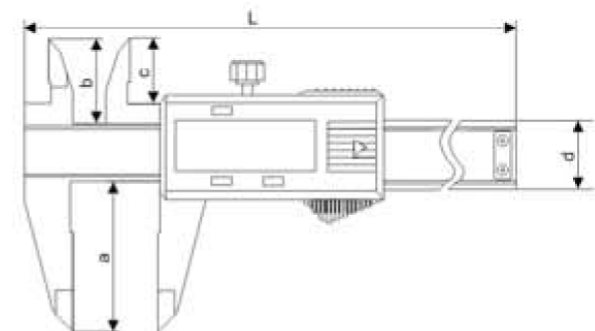
- TiAlN or TiN coating to improve greatly durability and working life.
- The internal jaws measurement accuracy can accord with DIN862.
- Zero-setting at any position.
- Inch/mm conversion.
- Data output.

Model	MT-111101G	MT-111101B
Measuring Range	0-150mm	0-150mm
Resolution	0.01mm	0.01mm
Limit Error	$\pm 0.02\text{mm}$	$\pm 0.02\text{mm}$
Color	Golden	Black
L (mm)	236	236
a (mm)	40	40
b (mm)	21	21
c (mm)	16.5	16.5
d (mm)	16	16

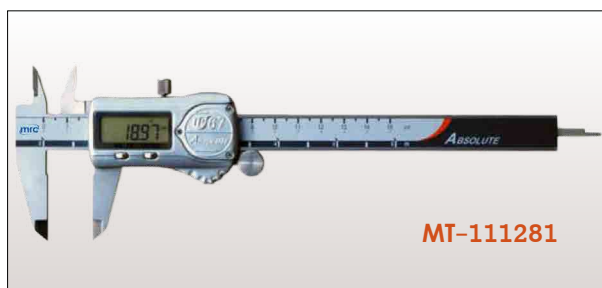
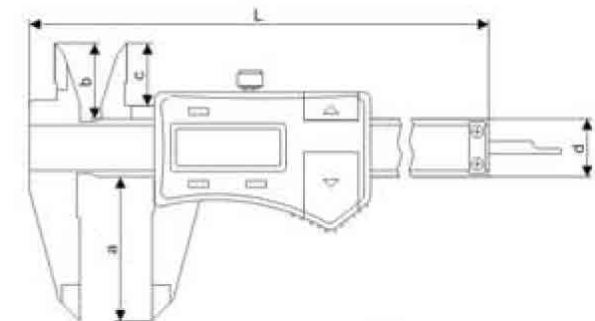




MT-11001X



MT-110051/2/3



MT-111281

and easy to operate.

- Manual / automatic power switch. automatic shutdown after 5 minutes without being used (Some models will automatically reboot at a 16-hour shutdown when the slider is moved.)
- Low-voltage alarm, high and low temperature, and other error alarm.
- Infinite response speed, no speed error.
- ABS / INC mode & metric/inch system conversion.

### MT-11001X, MT-11025X Micron Digital Calipers

#### Features:

- Resolution 0.001mm.
- Used for measuring the work piece demanding higher accuracy.
- Calibrated by master gauges, measurement can reach higher accuracy.
- Zero-setting at any position.

Model	MT-110011	MT-110012	MT-110013
	MT-110251	MT-110252	MT-110253
<b>Measuring Range</b>	0-50mm	50-100mm	100-150mm
<b>Resolution</b>	0.001mm	0.001mm	0.001mm
<b>Limit Error</b>	±0.005mm	±0.007mm	±0.009mm
<b>L (mm)</b>	236	236	236
<b>a (mm)</b>	40	40	40
<b>b (mm)</b>	21	21	21
<b>c (mm)</b>	16.5	16.5	16.5
<b>d (mm)</b>	16	16	16

### MT-110051/2/3. High Precision Digital Calipers

#### Features:

- Resolution: 0.005mm.
- The internal jaws measurement accuracy can accord with DIN862.
- Zero-setting at any position.
- Absolute and relative measurement conversion at any position.
- Data output.

Model	MT-110051	MT-110052	MT-110053
<b>Measuring Range</b>	0-150mm	0-200mm	0-300mm
<b>Resolution</b>	0.005mm	0.005mm	0.005mm
<b>Limit Error</b>	±0.015mm	±0.020mm	±0.025mm
<b>L (mm)</b>	236	286	400
<b>a (mm)</b>	40	50	60
<b>b (mm)</b>	21	24	25
<b>c (mm)</b>	16.5	19.5	20.5
<b>d (mm)</b>	16	16	17

### MT-111281/2/3, IP67 Water Proof Digital Calipers

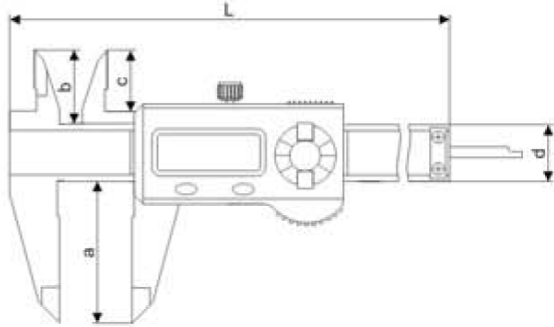
#### Features:

- This product has the high protective level IP67(CEI 60529). It can be used in workshop, exposed to coolant, water, dust or oil. Absolute encoding measuring system can avoid the loss of the measurement origin when the slider is fast moved or interfered. It can also avoid the trouble of setting origin before measurement each time. The origin won't be lost even after replacing the battery.
- Two-button design, menu prompt, simple, convenient

Model	MT-111281	MT-111282	MT-111283
<b>Measuring Range</b>	0-150mm	0-200mm	0-300mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.02mm	±0.03mm	±0.04mm



MT-111261/2/3



**MT-111261/2/3, IP54 Damp Proof Digital Calipers**

**Features:**

- Advanced design styling and high accuracy.
- Protection conforms to IP54 Level.
- Zero-setting at any position.
- Inch/mm conversion.

Model	MT-111261	MT-111262	MT-111263
<b>Measuring Range</b>	0-150mm	0-200mm	0-300mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.02mm	±0.03mm	±0.04mm
<b>L (mm)</b>	236	286	400
<b>a (mm)</b>	40	50	60
<b>b (mm)</b>	21	24	25
<b>c (mm)</b>	16.5	19.5	20.5
<b>d (mm)</b>	16	16	17



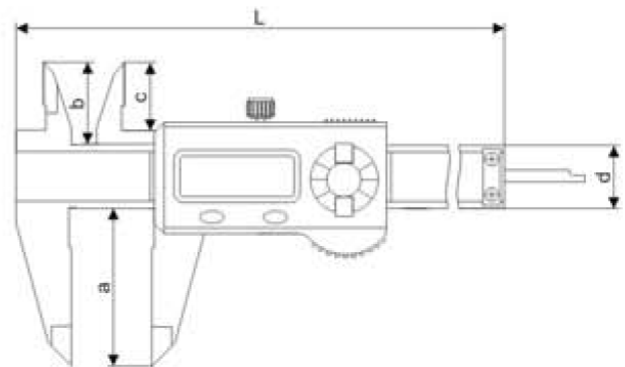
MT-111261/2/3

MT-111261/2/3

**MT-111075, MT-11110X, MT-1110XG, MT-11125X, Digital Calipers**

**Features:**

- The internal jaws measurement accuracy can accord with DIN862.
- Zero-setting at any position.
- Data output.
- Available with carbide-tipped measuring faces to improve the durability and working life.



Carbide - tipped measuring faces

Model	MT-111075	MT-111100	MT-111101	MT-111102	MT-111103
	-	-	MT-111101G	MT-111102G	MT-111103G
	-	-	MT-111251	MT-111252	MT-111253
<b>Measuring Range</b>	0-75mm	0-100mm	0-150mm	0-200mm	0-300mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.02mm	±0.02mm	±0.02mm	±0.03mm	±0.04mm
<b>L (mm)</b>	145	170	236	286	400
<b>a (mm)</b>	30.5	30.5	40	50	60
<b>b (mm)</b>	17	17	21	24	25
<b>c (mm)</b>	12.5	12.5	16.5	19.5	20.5
<b>d (mm)</b>	13	13	16	16	17

# CALIPERS

## Digital Calipers



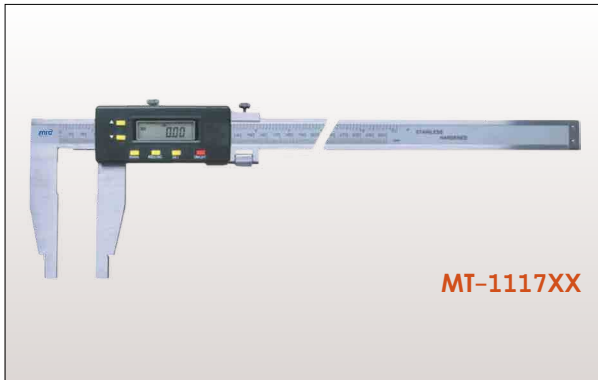
MT-11129X

### MT-11129X, Protective Digital Calipers

#### Features:

- The protective device can prevent sweat, coolant, etc. from dropping to the front main scale. Sweat and coolant have Electrolyte which can shield the sliding sensor and cause reading error.

Model	MT-111291	MT-111292	MT-111293
<b>Measuring Range</b>	0-150mm	0-200mm	0-300mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.02mm	±0.03mm	±0.04mm

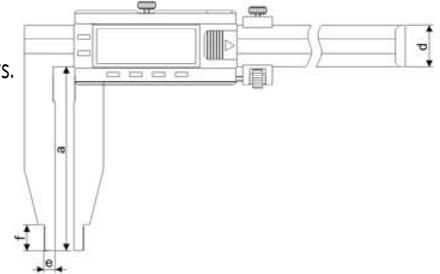


MT-1117XX

### MT-1117XX, Digital Calipers without upper jaws (Type D)

#### Features:

- With fine adjustment .
- Dual-purpose (O.D, I.D) and Tri-purpose (O.D, I.D & Steps) are available.
- Jaw ends radiused are fit for accurate inside measurement & more durable than the knife edge jaws.
- With presetting function.
- Zero-setting at any position.
- Data output.



Model	MT-111705	MT-111706	MT-111708	MT-111710	MT-111715
<b>Measuring Range</b>	0-500mm	0-600mm	0-800mm	0-1000mm	0-1500mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.04mm	±0.04mm	±0.05mm	±0.05mm	±0.08mm
<b>a (mm)</b>	100	100	125	125	150
<b>d (mm)</b>	24	24	31	42	42
<b>e (mm)</b>	10	10	10	10	10
<b>f (mm)</b>	18	24	24	24	24



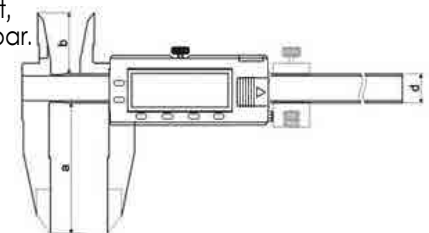
MT-1114XX

The cover is for digital calipers within 300mm range

### MT-1114XX, Digital Calipers with Knife-edge Jaws (Type B)

#### Features:

- Both upper & lower jaws are knife-edge.
- Inside readings can be read directly from the indicated reading when measuring the inside diameter with upper jaws
- Do not need to add the nib width to the indicated reading.
- With fine adjustment, but without depth bar.
- With presetting function.
- Zero-setting at any position.
- Data output.



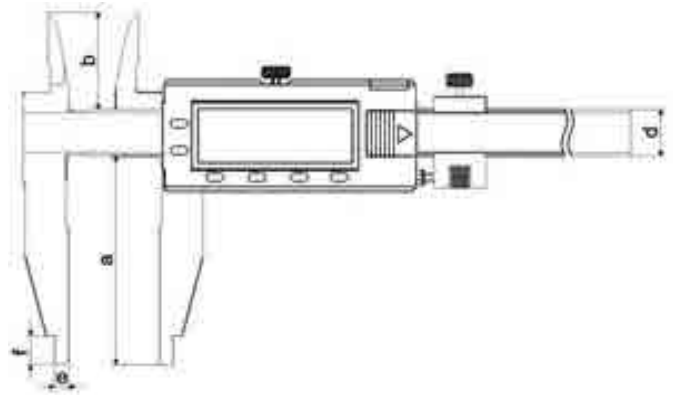
Model	MT-111405	MT-111406	MT-111408	MT-111410
<b>Measuring Range</b>	0-500mm	0-600mm	0-800mm	0-1000mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.05mm	±0.06mm	±0.07mm	±0.07mm
<b>a (mm)</b>	100	100	125	125
<b>b (mm)</b>	45	45	45	60
<b>d (mm)</b>	24	24	24	31

**MT-1116XX, Digital Calipers with Two Types of I.D Jaws (Type E)**



**Features:**

- With a fine adjustment screw.
- Round edge jaws and knife edge jaws permit higher accuracy in internal measurement.
- With presetting function.
- Zero-setting at any position.
- Data output.



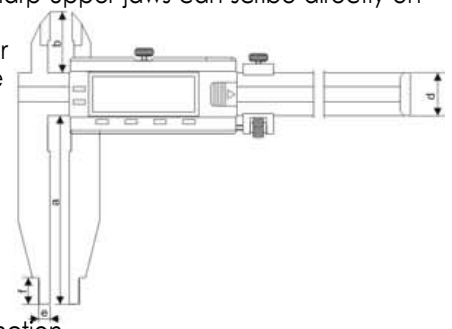
Model	MT-111602	MT-111603	MT-111605	MT-111606	MT-111608	MT-111610
<b>Measuring Range</b>	0-250mm	0-300mm	0-500mm	0-600mm	0-800mm	0-1000mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.04mm	±0.04mm	±0.05mm	±0.06mm	±0.07mm	±0.07mm
<b>a (mm)</b>	60	90	100	100	125	125
<b>b (mm)</b>	28	28	45	45	45	60
<b>d (mm)</b>	17	17	24	24	24	31
<b>e (mm)</b>	5	5	10	10	10	10
<b>f (mm)</b>	12	12	18	18	18	24

**MT-1113XX, Digital Calipers with Two Types of O.D Jaws (Type C)**



**Features:**

- With a fine adjustment.
- Two types of outside jaws are fit for accurate outside measurement.
- Knife edge and sharp upper jaws can scribe directly on the workpiece.
- The radiused lower jaws can measure the inside diam. of hole. The inside radiused measuring faces are more wear resistant than knife edge measuring faces.
- With presetting function.
- Zero-setting at any position.
- Data output.

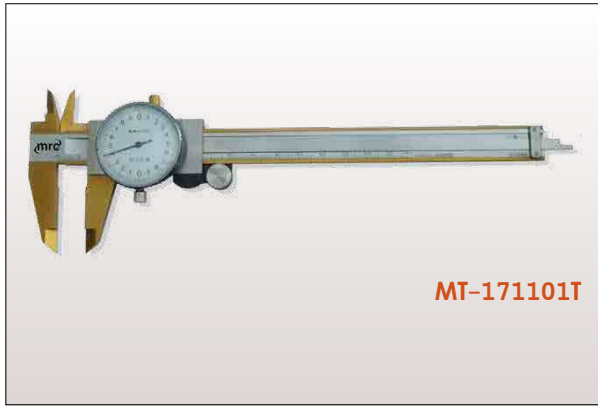


Model	MT-111305	MT-111306	MT-111308	MT-111310
<b>Measuring Range</b>	0-500mm	0-600mm	0-800mm	0-1000mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.05mm	±0.06mm	±0.07mm	±0.07mm
<b>a (mm)</b>	100	100	125	125
<b>b (mm)</b>	45	45	45	60
<b>d (mm)</b>	24	24	24	31
<b>e (mm)</b>	10	10	10	10
<b>f (mm)</b>	18	18	24	24

# CALIPERS

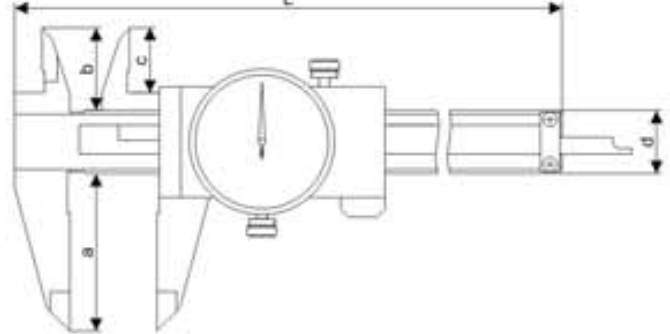
## Dial Calipers

### MT-171101T, Titanium Coated Dial Calipers



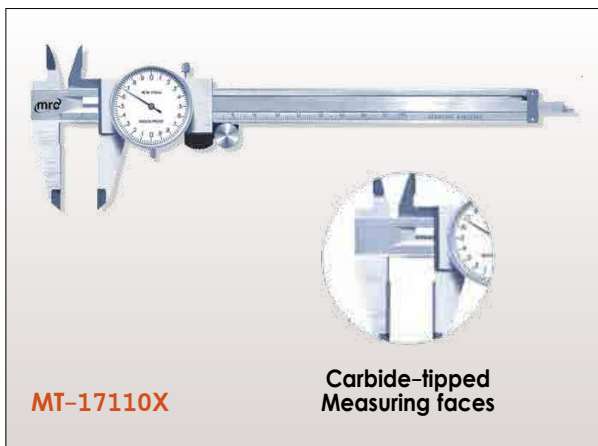
#### Features:

- TiAIN or TiN coating to improve greatly durability and working life.
- Good shockproof.
- Clear and direct reading.
- Can measure outside diameter (O.D), inside diameter (I.D), depth and steps.



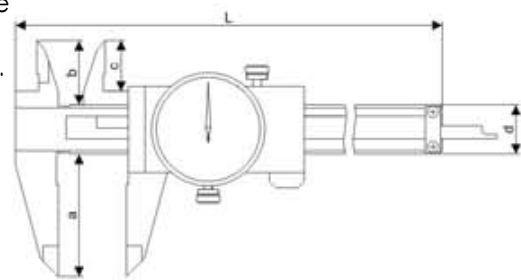
Model	MT-171101T
Measuring Range	0-150mm
Graduation	0.02mm
Range/rev.	2mm
Limit Error	±0.02mm
L (mm)	236
a/b (mm)	40/21
c/d (mm)	16.5/16

### MT-17010X/17110X, Dial Calipers



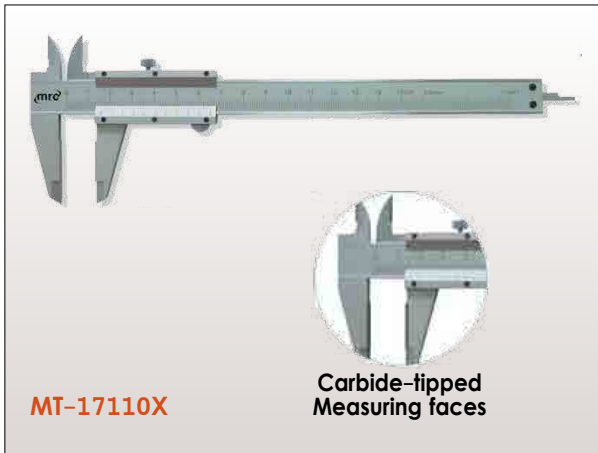
#### Features:

- Good shockproof.
- Clear & direct reading.
- Can measure outside diameter (O.D), inside diameter (I.D), depth and steps.
- Available with carbide-tipped measuring faces to improve the durability & working life.



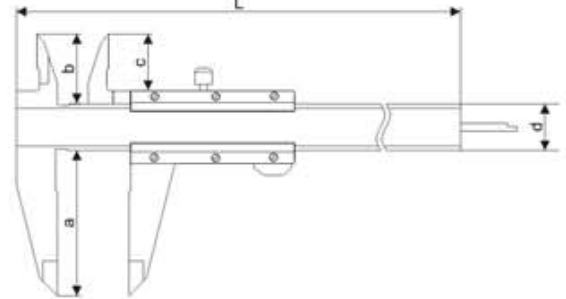
Model	MT-171101	MT-170101	MT-171102	MT-170102	MT-171103
	MT-171251	-	MT-171252	-	MT-171253
Measuring Range	0-150mm	0-150mm	0-200mm	0-200mm	0-300mm
Graduation	0.02mm	0.01mm	0.02mm	0.01mm	0.02mm
Range/rev.	2mm	1mm	2mm	1mm	2mm
Limit Error	±0.02mm	±0.02mm	±0.03mm	±0.03mm	±0.04mm
L (mm)	236	236	286	286	400
a (mm)	40	40	50	50	60
b (mm)	21	21	24	24	25
c (mm)	16.5	16.5	18.5	18.5	19.5
d (mm)	16	16	16	16	17

## MT-1411XX/14125X, Vernier Calipers



### Features:

- Traditional measuring tool with good durability.
- Can measure outside diameter (O.D), inside diameter (I.D), depth and steps.
- Available with open and close type.
- Available with carbide-tipped measuring faces.

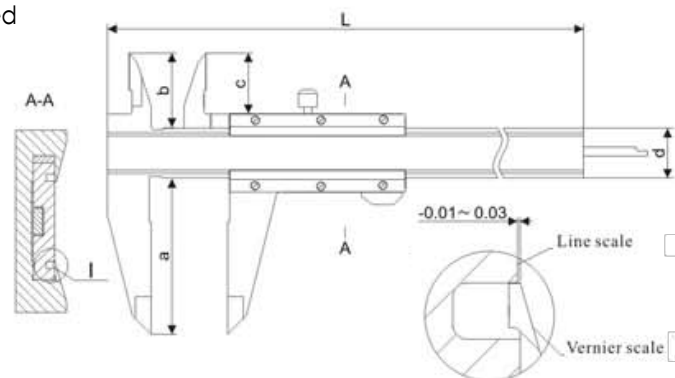
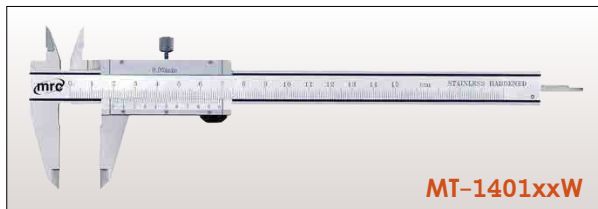


Model	MT-141100	MT-141101	MT-141102	MT-141103
	MT-141110	MT-141111	MT-141112	MT-141113
	MT-141250	MT-141251	MT-141252	MT-141253
<b>Measuring Range</b>	0-100mm	0-150mm	0-200mm	0-300mm
<b>Vernier Reading</b>	0.02mm	0.02mm	0.02mm	0.02mm
<b>Limit Error</b>	±0.02mm	±0.02mm	±0.03mm	±0.04mm
<b>L (mm)</b>	160	236	286	400
<b>a (mm)</b>	30	40	50	60
<b>b (mm)</b>	19	21	24	25
<b>e (mm)</b>	15	16.5	19.5	20.5
<b>d (mm)</b>	13	16	16	17

## MT-1401xxW, Parallax-free Plane Vernier Calipers

### Features:

- The jet black straight grooves on both sides of the master bar allow for positive alignment of graduations and flush fitting of the vernier scales to the main scale, which eliminates parallax.
- Can measure outside diameter (O.D), inside diameter (I.D), depth and steps
- Stainless steel, hardened throughout. Satin chrome finished vernier and main scale with jet black graduations for glare free reading. All graduations are marked by laser machine for accuracy.
- With depth measuring bar.



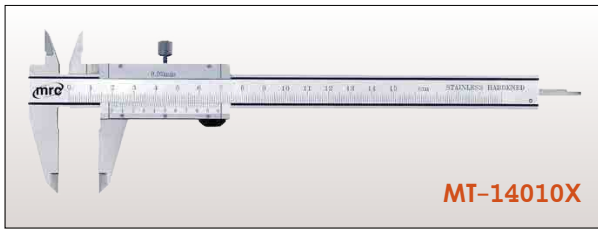
Model	MT-140101W	MT-140102W	MT-140103W
	MT-140111W	MT-140112W	MT-140113W
<b>Measuring Range</b>	0-150mm	0-200mm	0-300mm
<b>Vernier Reading</b>	0.02mm	0.02mm	0.02mm
<b>Limit Error</b>	±0.02mm	±0.03mm	±0.04mm
<b>L (mm)</b>	236	286	400
<b>a (mm)</b>	40	50	60
<b>b (mm)</b>	21	24	25
<b>c (mm)</b>	16.5	19.5	20.5
<b>d (mm)</b>	16	16	17



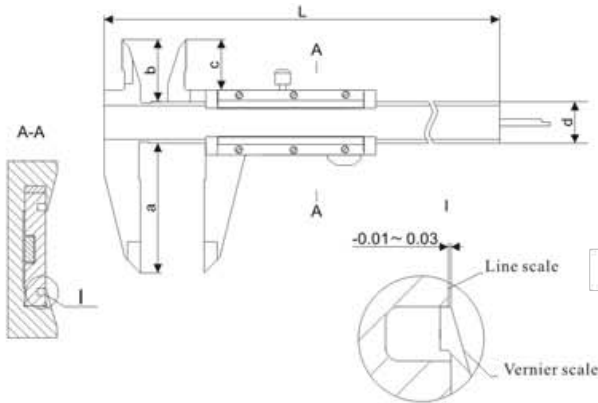
# CALIPERS

## Vernier Calipers

### MT-14010X, Master Vernier Calipers



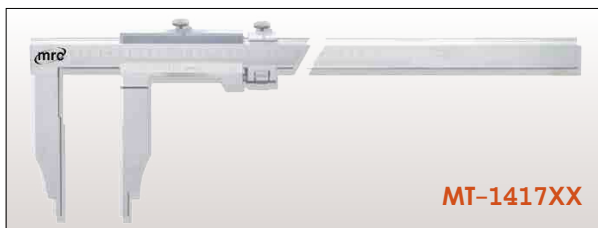
MT-14010X



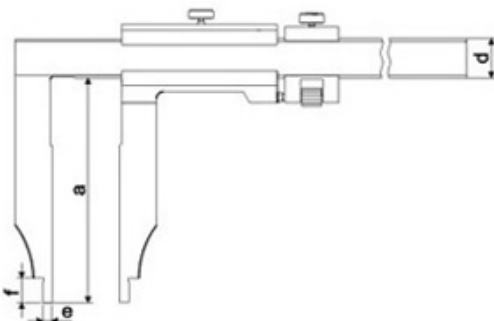
#### Features:

- Screwed vernier caliper has the fatal shortcomings that its verniers are easily budged when bumped, which causes reading error. But the screwed vernier caliper has the virtue of its repairable worn measuring faces and budged verniers and long-life.
- Monoblock vernier caliper has the fatal shortcomings that it can not be repaired due to its non-adjustable monoblock verniers when its measuring faces are worn, which is quite wasteful of resources. But the monoblock vernier caliper has the virtue of its unmovable verniers when bumped.
- Master vernier caliper has the virtues of both screwed vernier caliper and monoblock vernier caliper, but without their shortcomings, because the left part and right part of its verniers are unmovable monoblock, but the middle part of its vernier is crewed vernier.
- The jet black straight grooves on both sides of the master bar allow for positive alignment of graduations and flush fitting of the vernier scales to the main scale, which eliminates parallax.
- Can measure outside diameter (O.D), inside diameter (I.D), depth and steps
- Stainless steel, hardened throughout. Satin chrome finished vernier and main scale with jet black graduations for glare free reading. All graduations are marked by laser machine for accuracy.
- With depth measuring bar.

Model	MT-140101	MT-140102	MT-140103
Measuring Range	0-150mm	0-200mm	0-300mm
Vernier Reading	0.02mm	0.02mm	0.02mm
Limit Error	±0.02mm	±0.03mm	±0.04mm
L (mm)	236	286	400
a (mm)	40	50	60
b (mm)	21	24	25
c (mm)	16.5	19.5	20.5
d (mm)	16	16	17



MT-1417XX

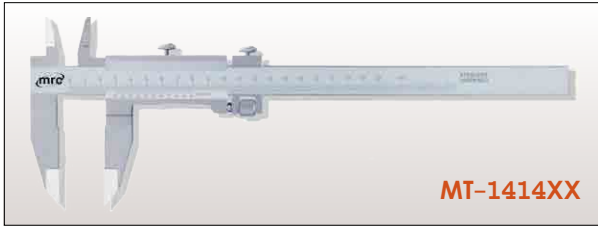


### MT-1417XX, Vernier Calipers without Upper Jaws (Mono-block Vernier, Type D)

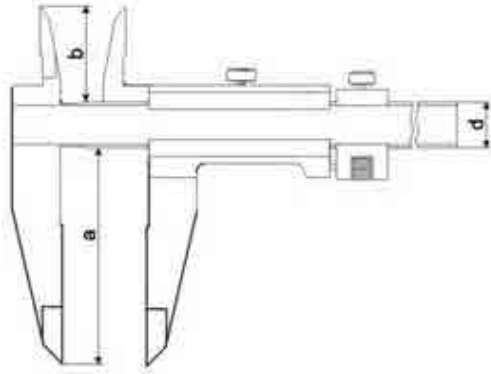
#### Features:

- Monoblock vernier won't be budged when bumped, therefore its reading is always reliable.
- The radiused measuring faces are fit for accurate inside measurement.
- Long jaws for measuring hard-to-reach portions.
- Can measure outside diameter (O.D), inside diameter (I.D), and steps.
- Stainless steel, hardened throughout. Satin chrome finished vernier and main scale with jet black graduations for glare free reading. All graduations are marked by laser machine for accuracy.
- With fine adjustment.

Model	MT-141743	MT-141745	MT-141746	MT-141748	MT-141750
Measuring Range	0-300mm	0-500mm	0-600mm	0-800mm	0-1000mm
Vernier Reading	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm
Limit Error	±0.03mm	±0.04mm	±0.04mm	±0.05mm	±0.05mm
a (mm)	65	100	100	125	125
d (mm)	20	24	24	31	31
e (mm)	5	10	10	10	10
f (mm)	12	18	18	24	24



**MT-1414XX**

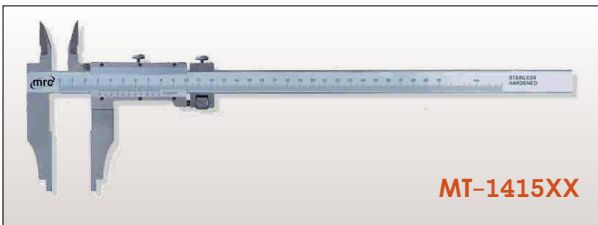


### MT-1414XX, Vernier Calipers with Knife-edge (Mono-block Vernier, Type B)

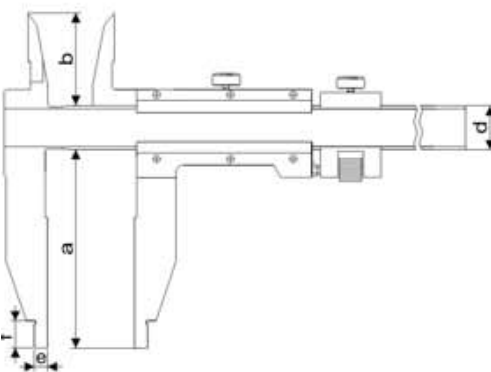
**Features:**

- Both upper & lower jaws are knife edge.
- Inside readings can be read directly from the indicated reading when measuring the inside diameter with upper jaws,
- Do not need to add the nib width to the indicated reading.
- With fine adjustment , but without depth bar.
- Can measure outside diameter (O.D), inside diameter (I.D), and steps.
- Stainless steel, hardened throughout. Satin chrome finished vernier and main scale with jet black graduations for glare free reading. All graduations are marked by laser machine for accuracy.

Model	MT-141485	MT-141486	MT-141488	MT-141490
<b>Measuring Range</b>	0-500mm	0-600mm	0-800mm	0-1000mm
<b>Vernier Reading</b>	0.02mm	0.02mm	0.02mm	0.02mm
<b>Limit Error</b>	±0.05mm	±0.05mm	±0.07mm	±0.07mm
<b>a (mm)</b>	100	100	125	125
<b>b (mm)</b>	45	45	60	60
<b>d (mm)</b>	24	24	31	31



**MT-1415XX**



### MT-1415XX, Vernier Calipers with Two Types of I.D Jaws (Type E)

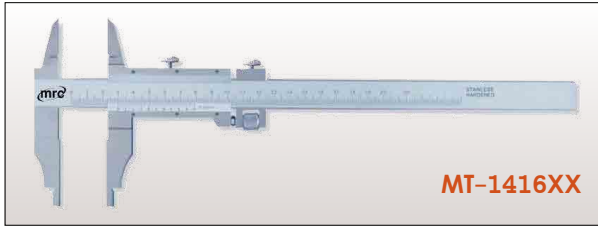
**Features:**

- Inside readings can be read directly from the indicated reading when measuring the inside diameter with upper jaws, do not need to add the nib width to the indicated reading.
- The radiused measuring faces are fit for accurate inside measurement.
- Long jaws for measuring hard-to-reach portions.
- With fine adjustment, but without depth bar.
- Can measure outside diameter (O.D), inside diameter (I.D), and steps.

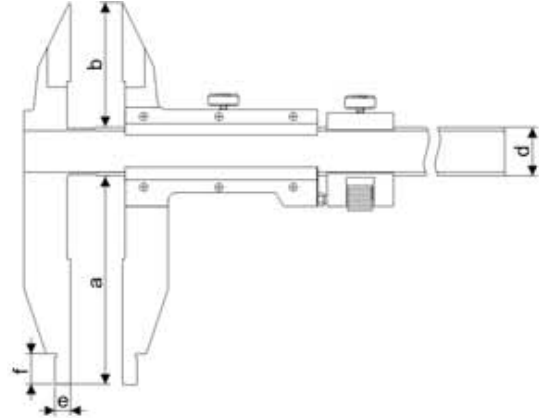
Model	MT-141565	MT-141566	MT-141568	MT-141570
	MT-141585	MT-141586	MT-141588	MT-141590
<b>Measuring Range</b>	0-500mm	0-600mm	0-800mm	0-1000mm
<b>Vernier Reading</b>	0.02mm	0.02mm	0.02mm	0.02mm
<b>Limit Error</b>	±0.05mm	±0.05mm	±0.07mm	±0.07mm
<b>a (mm)</b>	100	100	125	125
<b>b (mm)</b>	60	45	45	60
<b>d (mm)</b>	31	24	24	31
<b>e (mm)</b>	10	10	10	10
<b>f (mm)</b>	24	18	18	24

# CALIPERS

## Vernier Calipers



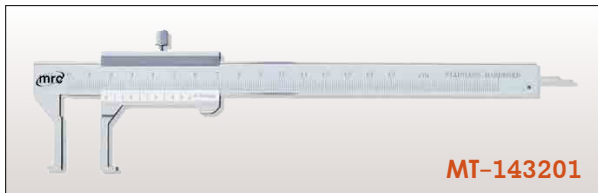
MT-1416XX, Vernier Calipers with Two Types of O.D Jaws (Type C)



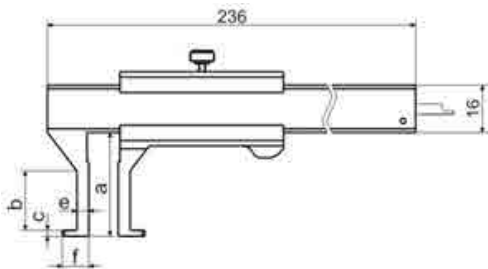
**Features:**

- Two types of outside jaws are fit for accurate outside measurement. Knife edge and sharp upper jaws can scribe directly on the workpiece.
- The radiused measuring faces are fit for accurate inside measurement.
- Long jaws for measuring hard-to-reach portions. With fine adjustment, but without depth bar.

Model	MT-141605	MT-141606	MT-141608	MT-141610
	MT-141645	MT-141646	MT-141648	MT-141650
<b>Measuring Range</b>	0-500mm	0-600mm	0-800mm	0-1000mm
<b>Vernier Reading</b>	0.02mm	0.02mm	0.02mm	0.02mm
<b>Limit Error</b>	±0.05mm	±0.05mm	±0.07mm	±0.07mm
<b>a (mm)</b>	100	100	125	125
<b>b (mm)</b>	56	56	67	67
<b>d (mm)</b>	24	24	31	31
<b>e (mm)</b>	10	10	10	10
<b>f (mm)</b>	18	18	24	24



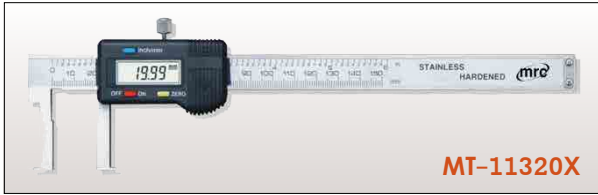
MT-143201, Inside Groove Vernier Calipers with Flat Points



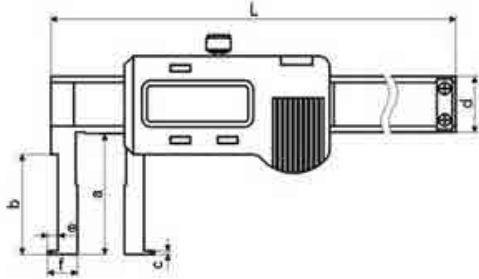
**Features:**

- Can measure narrow grooves in a hole.
- Special order requires the following data:
  - 1.The diameter of the hole
  - 2.The distance from the groove to the orifice
  - 3.The width of the groove
  - 4.The depth of each groove
  - 5.The shape of the groove bottom.

Model	MT-143201
<b>Measuring Range</b>	18-150mm
<b>Vernier reading</b>	0.02mm
<b>Limit Error</b>	±0.04mm
<b>a (mm)</b>	35
<b>b (mm)</b>	20
<b>C (mm)</b>	2
<b>e (mm)</b>	4
<b>f (mm)</b>	9



MT-11320X

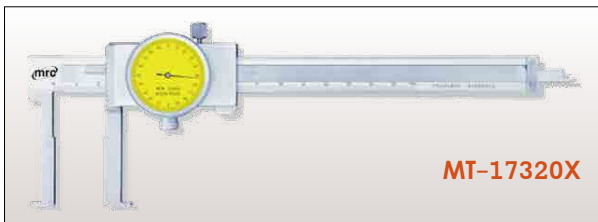


**MT-11320X, Inside Groove Digital Calipers with Flat Points**

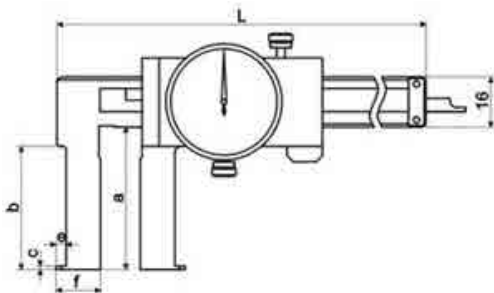
**Features:**

- Can measure narrow grooves in a hole.
- Special order requires the following data:
  - 1.The diameter of the hole
  - 2.The distance from the groove to the orifice
  - 3.The width of the groove
  - 4.The depth of each groove
  - 5.The shape of the groove bottom.

Model	MT-113201	MT-113201-1	MT-113202	MT-113202-1	MT-113203	MT-113203-1	MT-113205	MT-113205-1	MT-113205-2
<b>Measuring Range</b>	22-150mm	35-150mm	25-200mm	40-200mm	30-300mm	50-300mm	40-500mm	60-500mm	80-500mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.04mm	±0.05mm	±0.04mm	±0.05mm	±0.05mm	±0.06mm	±0.06mm	±0.07mm	±0.07mm
<b>L (mm)</b>	250	250	310	310	410	410	680	680	680
<b>a (mm)</b>	36	66	46	76	56	86	100	130	160
<b>b (mm)</b>	30	60	40	70	50	80	90	120	150
<b>C (mm)</b>	1	1.5	1	1.5	1.5	1.5	1.5	2	3
<b>d (mm)</b>	16	16	16	16	17	17	24	24	24
<b>e (mm)</b>	5	6	5	7	5	8	5	10	16
<b>f (mm)</b>	11	17.5	12.5	20	15	25	20	30	40



MT-17320X



**MT-17320X, Inside Groove Dial Calipers**

**Features:**

- Achieve narrow and small inside groove.
- Special order requires the following data:
  1. The diameter of the hole
  2. The distance from the groove to the orifice
  3. The width of the groove
  4. The depth of one-sided groove
  5. The shape of the slot base.

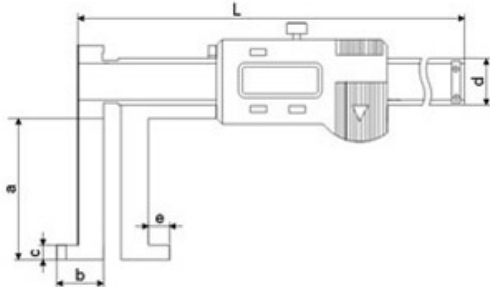
Model	MT-173201	MT-173202
<b>Measuring Range</b>	25-150mm	20-200mm
<b>Dial reading-Graduation</b>	0.02mm	0.02mm
<b>Dial reading-Range/rev.</b>	2mm	2mm
<b>Limit Error</b>	±0.04mm	±0.04mm
<b>L (mm)</b>	236	286
<b>a (mm)</b>	50	40
<b>b (mm)</b>	44	34
<b>C (mm)</b>	1.5	1.5
<b>d (mm)</b>	16	16
<b>e (mm)</b>	5	3
<b>f (mm)</b>	1.5	10

# CALIPERS

## Groove Calipers



MT-11310X



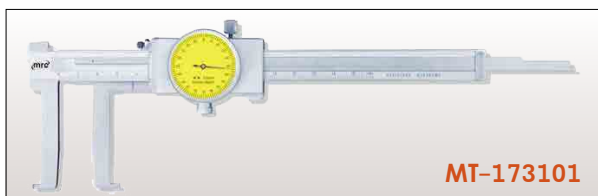
### MT-11310X, Inside Groove Digital Calipers with Flat Points

#### Features:

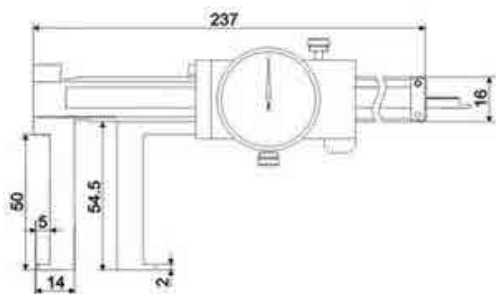
- Can measure narrow grooves in a hole.
- Special order requires the following data:
  - 1.The diameter of the hole
  - 2.The distance from the groove to the orifice
  - 3.The width of the groove
  - 4.The depth of each groove
  - 5.The shape of the groove bottom.

Model	MT-113101	MT-113101-1	MT-113101-2	MT-113102	MT-113102-1	MT-113102-2
<b>Measuring Range</b>	14-150mm	19-150mm	25-150mm	15-200mm	23-200mm	29-200mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.03mm	±0.05mm	±0.05mm	±0.04mm	±0.05mm	±0.05mm
<b>L (mm)</b>	236	236	291	290	290	347
<b>a (mm)</b>	30	60	90	40	70	100
<b>b (mm)</b>	12	17	23	13	20	27
<b>C (mm)</b>	1	2	3	1	2	3
<b>d (mm)</b>	16	16	20	16	16	20
<b>e (mm)</b>	5	6	8	5	7	10

Model	MT-113103	MT-113103-1	MT-113103-2	MT-113105	MT-113105-1	MT-113105-2
<b>Measuring Range</b>	17-300mm	16-300mm	33-300mm	25-500mm	35-500mm	47-500mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.05mm	±0.06mm	±0.06mm	±0.06mm	±0.07mm	±0.07mm
<b>L (mm)</b>	400	400	453	670	670	670
<b>a (mm)</b>	50	80	110	90	120	150
<b>b (mm)</b>	15	24	31	23	33	45
<b>C (mm)</b>	1.5	2.5	3.5	2	3	3
<b>d (mm)</b>	17	17	20	24	24	24
<b>e (mm)</b>	5	8	12	6	8	20



MT-173101



### MT-173101, Inside Groove Vernier Caliper with Flat Points

#### Features:

- Achieve narrow and small inside groove.
- Special-made required following data:
  - 1.The diameter of the hole
  - 2.The distance from the groove to the orifice
  - 3.The width of the groove
  4. The depth of one-sided groove
  5. The shape of the slot base..

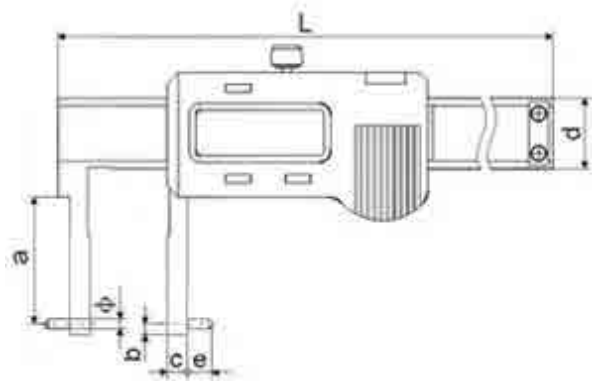
Model	MT-173101
<b>Measuring Range</b>	16-150mm
<b>Dial reading-Graduation</b>	0.02mm
<b>Dial reading-Range/rev.</b>	2mm
<b>Limit Error</b>	±0.03mm



### MT-11330X, Inside Groove Digital Calipers with Cylindrical Contacts

#### Features:

- Flat measuring surfaces or spherical measuring surfaces are optional.
- Can measure the narrow inside groove in the hole..
- Special-made orders require following specifications:
  - 1.The diameter of the hole
  - 2.The distance between the groove and the orifice
  - 3.The width of the groove
  - 4.The depth of any side of the grooves
  - 5.The shape of the groove bottom.



Model	MT-113301	MT-113301-1	MT-113301-2	MT-113302	MT-113302-1	MT-113302-2
<b>Measuring Range</b>	24-150mm	35-150mm	50-150mm	25-200mm	40-200mm	60-200mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.04mm	±0.05mm	±0.05mm	±0.04mm	±0.05mm	±0.05mm
<b>L (mm)</b>	250	250	260	310	310	310
<b>a (mm)</b>	30	60	90	40	70	100
<b>b (mm)</b>	3	3	4	3	3	3
<b>C (mm)</b>	7	11.5	17	7.5	13	20
<b>d (mm)</b>	16	16	20	16	16	20
<b>e (mm)</b>	5	6	8	5	7	10
<b>Ø</b>	2	2	3	2	3	3

Model	MT-113303	MT-113303-1	MT-113303-2	MT-113305	MT-113305-1	MT-113305-2
<b>Measuring Range</b>	30-300mm	50-300mm	60-300mm	40-500mm	60-500mm	80-500mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.05mm	±0.06mm	±0.06mm	±0.06mm	±0.07mm	±0.07mm
<b>L (mm)</b>	410	410	410	680	680	680
<b>a (mm)</b>	50	80	110	90	120	150
<b>b (mm)</b>	3	3	3	3	3	3
<b>C (mm)</b>	10	17	20	15	20	24
<b>d (mm)</b>	16	16	20	24	24	24
<b>e (mm)</b>	5	8	10	5	10	16
<b>Ø</b>	2	3	3	3	3	3

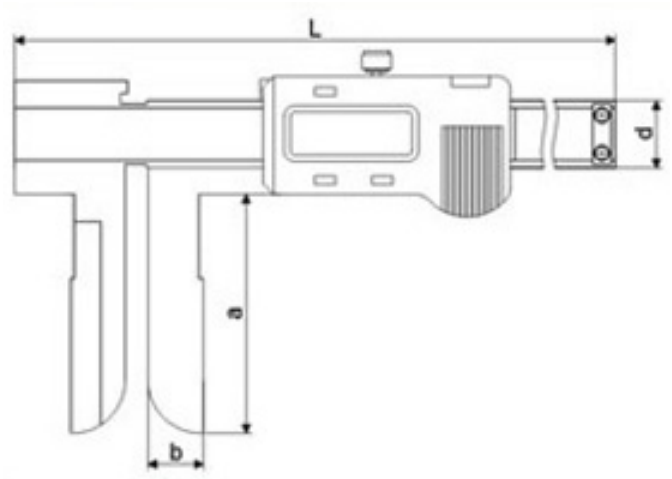
# CALIPERS

## Digital/Groove Calipers

### MT-11350X, Inside Groove Digital Calipers with Flat Points

#### Features:

- Facilitate the measurement of the inside diameter of a deeper hole.
- Zero-setting at any position.
- Data output.

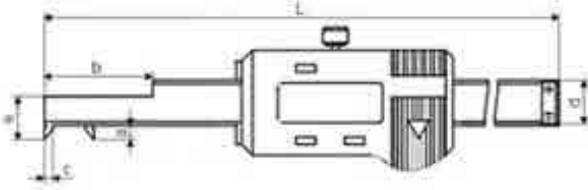


Model	MT-113501	MT-113501-1	MT-113501-2	MT-113502	MT-113502-1	MT-113502-2
<b>Measuring Range</b>	15-150mm	20-150mm	25-150mm	18-200mm	22-200mm	25-200mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.03mm	±0.04mm	±0.05mm	±0.05mm	±0.06mm	±0.07mm
<b>L (mm)</b>	250	250	250	305	305	305
<b>a (mm)</b>	60	90	150	75	100	150
<b>b (mm)</b>	12	14	22	14	17	22
<b>d (mm)</b>	16	16	24	16	16	24

Model	MT-113503	MT-113503-1	MT-113503-2	MT-113505	MT-113505-1	MT-113505-2
<b>Measuring Range</b>	20-300mm	22-300mm	25-300mm	22-500mm	25-500mm	35-500mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.05mm	±0.06mm	±0.07mm	±0.07mm	±0.08mm	±0.09mm
<b>L (mm)</b>	410	410	410	700	700	700
<b>a (mm)</b>	90	120	150	100	150	200
<b>b (mm)</b>	15	20	22	20	22	30
<b>d (mm)</b>	16	24	24	24	24	24



MT-11340X

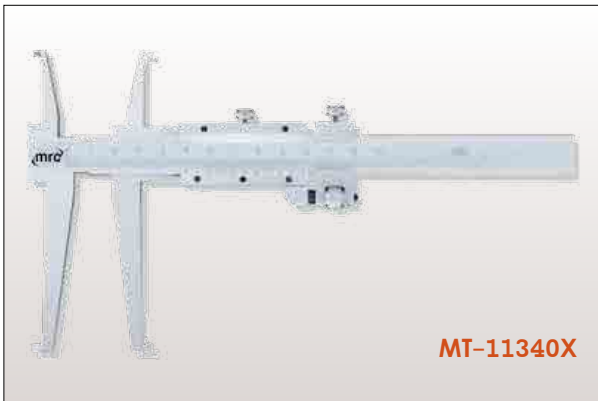
**MT-11340X, Hook Type Digital Calipers****Features:**

- Measure the width of inside groove and position of a groove.
- Zero-setting at any position.
- Data output.

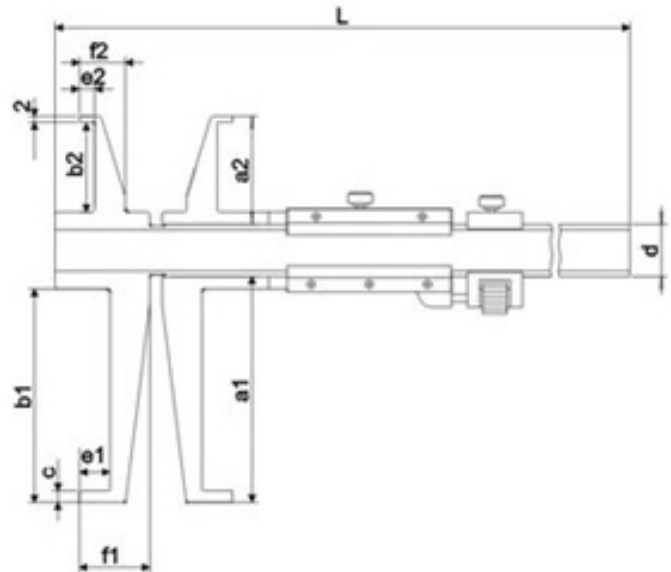
Model	MT-113502	MT-113502-1	MT-113502-2
Measuring Range	3-125mm	3-200mm	4-300mm
Resolution	0.01mm	0.01mm	0.01mm
Limit Error	±0.03mm	±0.03mm	±0.04mm
L (mm)	235	310	466
a (mm)	4	4	5
b (mm)	24	24	86
c (mm)	3	3	4
d (mm)	16	16	17
e (mm)	12	12	14

**MT-11340X, Hook Type Digital Calipers****Features:**

- Thin chisel edge contacts are convenient to measure the narrow grooves in the hole.



MT-11340X



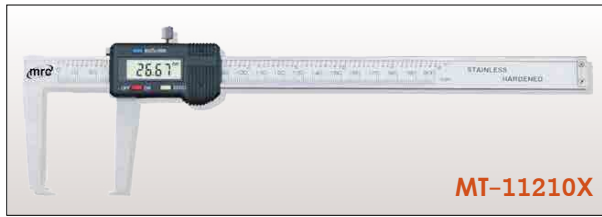
Model	MT-143200A	MT-143202A
Measuring Range	15-125mm	18-150mm
Vernier Reading	0.02mm	0.02mm
Limit Error	±0.04mm	±0.04mm
L (mm)	230	258
a1 (mm)	73.5	73.5
a2 (mm)	35.2	35.2
b1 (mm)	70.5	69.5
b2 (mm)	31.5	31.2
c (mm)	2.9	3.8
d (mm)	16	17
e1 (mm)	5	10
e2 (mm)	4	5
f1 (mm)	17	23
f2 (mm)	11	15



# CALIPERS

## Digital/Groove Calipers

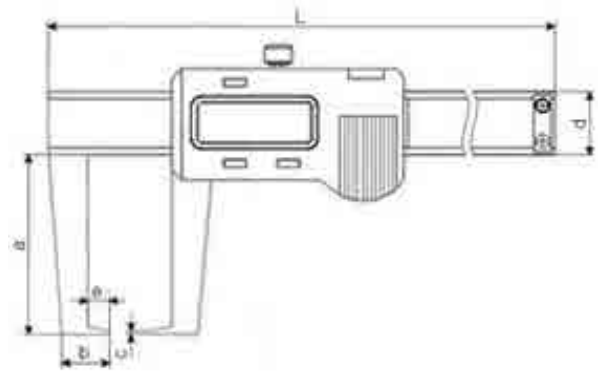
### MT-11210X, Outside Groove Digital Calipers with Flat Points



MT-11210X

**Features:**

- Can measure the diameter of the outside groove or the tube wall thickness.
- Zero-setting at any position.
- Data output.



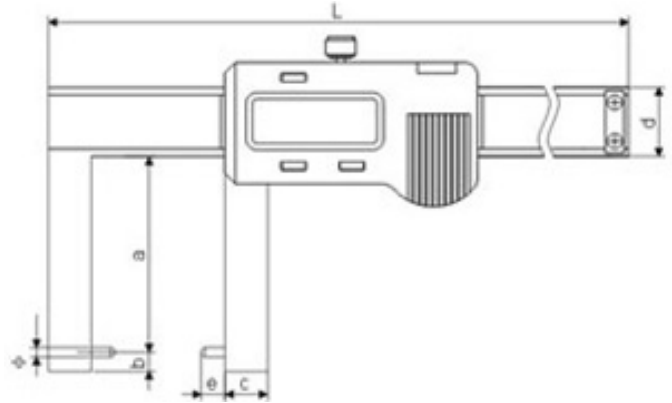
### MT-11211X, Outside Groove Digital Calipers with Round Points



MT-11211X

**Features:**

- Flat measuring surfaces or spherical measuring surfaces are optional.
- Can measure the width of outside groove or the dimension of bent surfaces.
- Zero-setting at any position.
- Data output.



Model	MT-112101	MT-112101-1	MT-112101-2	MT-112102	MT-112102-1	MT-112102-2
	MT-112111	MT-112111-1	MT-112111-2	MT-112112	MT-112112-1	MT-112112-2
<b>Measuring Range</b>	0-150mm	0-150mm	0-150mm	0-200mm	0-200mm	0-200mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.03mm	±0.04mm	±0.04mm ±0.05mm	±0.04mm	±0.04mm	±0.05mm
<b>L (mm)</b>	250	250	290	310 300	310 300	340
<b>a (mm)</b>	40	70	100	50	80	110
<b>b (mm)</b>	15 3	20 3	30 3	19 3	23 3	34 3
<b>c (mm)</b>	1 10	2 10	2 20	1 12	1.5 12	2 22
<b>d (mm)</b>	16	16	20	16	16	20
<b>e (mm)</b>	5	7 5	10	7 8	9 8	12
<b>Ø</b>	2	2	3	2.5	2.5	3

Model	MT-112103	MT-112103-1	MT-112103-2	MT-112105	MT-112105-1	MT-112105-2
	MT-112113	MT-112113-1	MT-112113-2	MT-112115	MT-112115-1	MT-112115-2
<b>Measuring Range</b>	0-300mm	0-300mm	0-300mm	0-500mm	0-500mm	0-500mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.04mm	±0.05mm	±0.05mm	±0.06mm	±0.07mm	±0.08mm
<b>L (mm)</b>	400 410	440	480	690 680	690 680	690 680
<b>a (mm)</b>	60	100	150	100	150	200
<b>b (mm)</b>	21 3	30 3	32 3	34 3	36 3	36 3
<b>c (mm)</b>	1.5 14	2 20	2 20	2 20	2 20	2 20
<b>d (mm)</b>	17	20	24	24	24	24
<b>e (mm)</b>	8 10	10	12	12	12	12
<b>Ø</b>	2.5	3	3	3	3	3

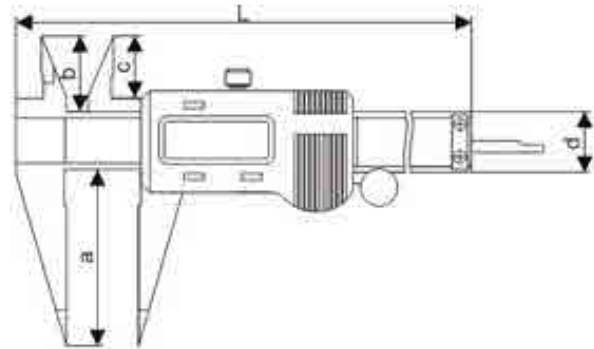


MT-11120X

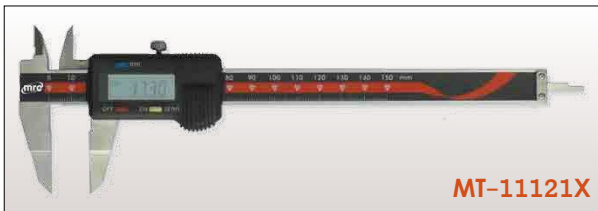
**Features:**

- Easy to measure the very narrow or small outside grooves or small holes.
- The measurement accuracy of the inside jaws can accord with DIN862.
- Zero-setting at any position.
- Data output.

MT-11120X/14120X, Pointed-jaw Digital/Vernier Calipers



Model	Digital Type				Vernier Type		
	MT-111200	MT-111201	MT-111202	MT-111203	MT-141201	MT-141202	MT-141203
<b>Measuring Range</b>	0-100mm	0-150mm	0-200mm	0-300mm	0-150mm	0-200mm	0-300mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.02mm	0.02mm	0.02mm
<b>Limit Error</b>	±0.02mm	±0.03mm	±0.03mm	±0.04mm	±0.03mm	±0.03mm	±0.04mm
<b>L (mm)</b>	170	236	286	400	236	286	400
<b>a (mm)</b>	30	40	50	60	40	50	60
<b>b (mm)</b>	17	21	24	25	21	24	25
<b>c (mm)</b>	12	16	19	20	16	19	20
<b>d (mm)</b>	13	16	16	17	16	16	17

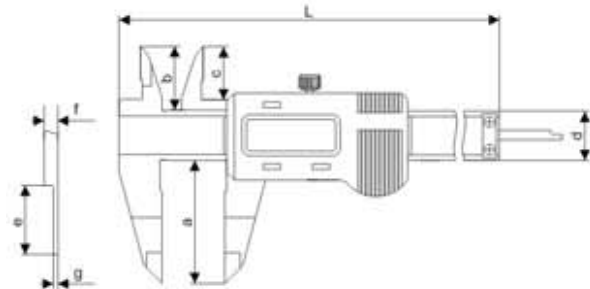


MT-11121X

**Features:**

- Thin jaws as thin as knife blade can easily reach narrow grooves for measurement.
- The measurement accuracy of the inside jaws can accord with DIN862.

MT-11121X/14121X, Blade Calipers

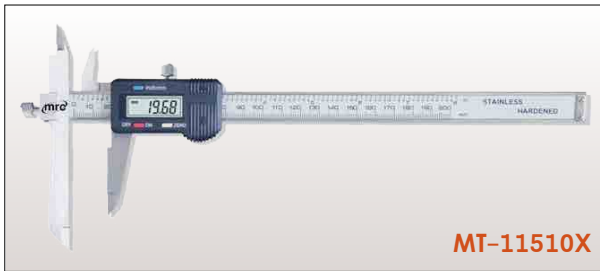


Model	Digital Type				Vernier Type		
	MT-111210	MT-111211	MT-111212	MT-111213	MT-141211	MT-141212	MT-141213
<b>Measuring Range</b>	0-100mm	0-150mm	0-200mm	0-300mm	0-150mm	0-200mm	0-300mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.02mm	0.02mm	0.02mm
<b>Limit Error</b>	±0.02mm	±0.02mm	±0.03mm	±0.04mm	±0.02mm	±0.03mm	±0.04mm
<b>L (mm)</b>	170	236	286	400	236	286	400
<b>a (mm)</b>	30	40	50	60	40	50	60
<b>b (mm)</b>	17	21	24	25	21	24	25
<b>c (mm)</b>	12	16	19	20	16	19	20
<b>d (mm)</b>	13	16	16	17	16	16	17
<b>e (mm)</b>	20	20	20	20	20	20	20
<b>f (mm)</b>	3	3.2	3.6	3.8	3.2	3.6	3.8
<b>g (mm)</b>	0.7	0.7	0.7	1	0.7	0.7	1

# CALIPERS

## Offset Calipers

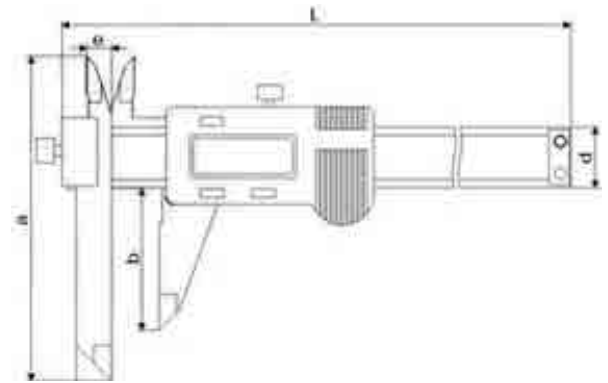
### MT-11510X, Offset Digital Calipers



MT-11510X

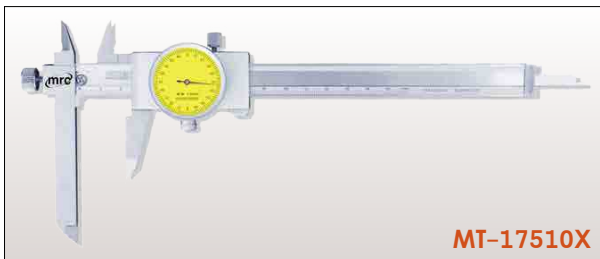
#### Features:

- Main scale jaw can be slid up and down to measure stepped sections.



Model	MT-115101	MT-115102	MT-115103	MT-115105
<b>Measuring Range</b>	0-150mm	0-200mm	0-300mm	0-500mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.04mm	±0.04mm	±0.05mm	±0.07mm
<b>L (mm)</b>	239	289	389	685
<b>a (mm)</b>	110	120	130	210
<b>b (mm)</b>	40	50	60	100
<b>c (mm)</b>	10	10	10	24
<b>d (mm)</b>	16	16	16	17
<b>e (mm)</b>	7	7	7	11

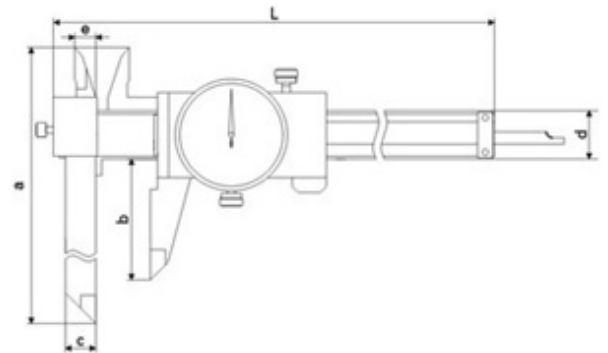
### MT-17510X, Offset Dial Calipers



MT-17510X

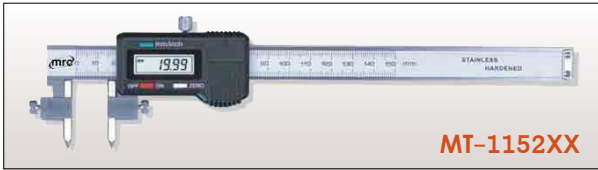
#### Features:

- The left jaw is adjustable up and down for a suitable height.
- Measure of stepped sections.



Model	MT-175101	MT-175102
<b>Measuring Range</b>	0-150mm	0-200mm
<b>Dial reading-Graduation</b>	0.02mm	0.02mm
<b>Dial reading-Range/rev.</b>	2mm	2mm
<b>Limit Error</b>	±0.04mm	±0.04mm
<b>L (mm)</b>	239	289
<b>a (mm)</b>	110	120
<b>b (mm)</b>	40	50
<b>c (mm)</b>	10	10
<b>d (mm)</b>	16	16
<b>e (mm)</b>	7	7

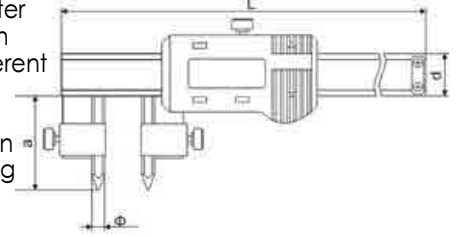
**MT-1152XX, Centerline Digital Calipers with Conical Points**



MT-1152XX

**Features:**

- Can measure the center distance between two holes.
- The conical points can be adjusted up or down to measure the center distance between two holes on different heights.
- The caliper with presetting function for easy measuring is optional.



Model	MT-115201	MT-115201-1	MT-115202	MT-115202-1	MT-115203
Measuring Range	5-150mm	10-150mm	5-200mm	10-200mm	5-300mm
Resolution	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
Limit Error	±0.03mm	±0.03mm	±0.04mm	±0.04mm	±0.05mm
L (mm)	236	236	285	285	385
a (mm)	35	40	35	40	35
d (mm)	16	16	16	16	16
∅	5	10	5	10	5

Model	MT-115203-1	MT-115205	MT-115205-1	MT-115210	MT-115210-1
Measuring Range	10-300mm	10-500mm	20-500mm	10-1000mm	20-1000mm
Resolution	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
Limit Error	±0.05mm	±0.06mm	±0.06mm	±0.08mm	±0.08mm
L (mm)	385	650	650	1200	1200
a (mm)	40	50	60	50	60
d (mm)	16	24	24	31	31
∅	10	5	5	10	20

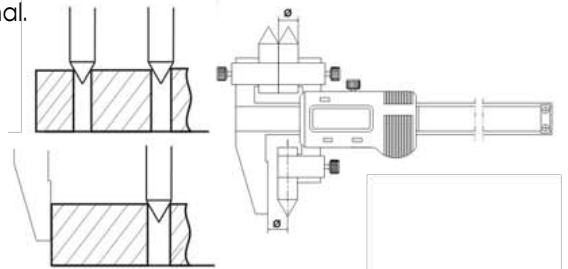
**MT-11522X, Apothem and Centerline Caliper with Conical Points**



MT-11522X

**Features:**

- Can measure the center distance between two holes.
- Can measure the distance between edge and center.
- Centerline contacts can be slid up and down to measure the center distance between stepped holes.
- The caliper with presetting function for easy measuring is optional.

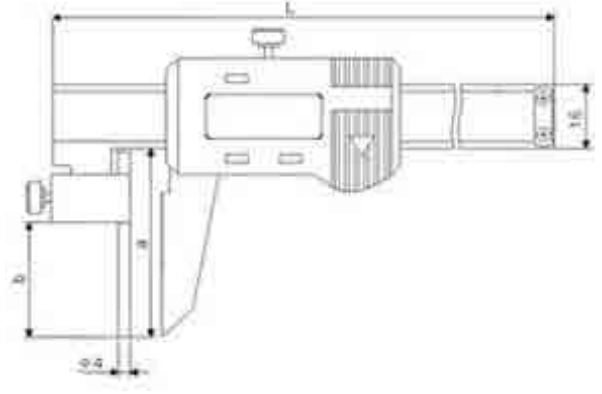


Model	MT-115221	MT-115222	MT-115223
Measuring Range	S-150mm	S-200mm	S-300mm
Resolution	0.01mm	0.01mm	0.01mm
Limit Error	±0.03mm	±0.04mm	±0.05mm
S (mm)	5/10/20	5/10/20	5/10/20

# CALIPERS

## Digital Calipers

### MT-11410X, Tube Thickness Digital Calipers

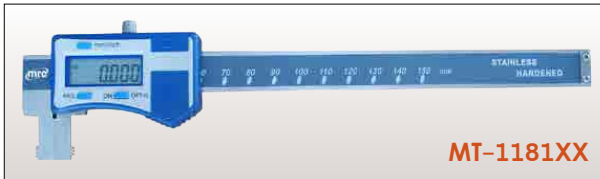


#### Features:

- According to hardness of workpieces, long anvil and short anvil are available.
- Long cavity mould anvil for measuring the soft suckers, such as plastic; and short anvil for measuring hard tubular tools including metal tubes, porcelain tubes and the like.

Model	MT-114101	MT-114102	MT-114105
<b>Measuring Range</b>	0-150mm	0-200mm	0-300mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.03mm	±0.03mm	±0.04mm
<b>L (mm)</b>	244	294	394
<b>a (mm)</b>	30	38	48
<b>b (mm)</b>	30	40	50

### MT-1181XX, Screw Thread Digital Calipers



#### Features:

- Measure the working and single pitch diameters of internal and external threads.
- Can design according to each kind of pitch for wide measuring range of pitch diameter.
- Available with Carbide-tipped jaws and the high precision electronic component.
- Calibrated by master gauge for a higher accuracy.

Model	MT-118121	MT-118122	MT-118123	MT-118125	MT-118126
<b>Measuring Range</b>	0-150mm	0-200mm	0-300mm	0-500mm	0-600mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.03mm	±0.04mm	±0.05mm	±0.06mm	±0.06mm

Model	MT-118111	MT-118112	MT-118113	MT-118000	MT-118001
<b>Measuring Range</b>	0-150mm	0-200mm	0-300mm	0-100mm	0-150mm
<b>Resolution</b>	0.005mm	0.005mm	0.005mm	0.001mm	0.001mm
<b>Limit Error</b>	±0.020mm	±0.030mm	±0.040mm	±0.007mm	±0.009mm



### MT-11280X, Rope Calipers

#### Features:

- Broadened measuring faces are mainly used for measuring the diameter of the wire rope to ensure the measurement for safe.
- Hardened measuring faces are wear resistant.
- Zero-setting at any position.
- Measuring faces dimension can be customized.

Model	MT-112801	MT-112802	MT-112803
<b>Measuring Range</b>	0-150mm	0-200mm	0-300mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.03mm	±0.04mm	±0.05mm
<b>General Measuring Faces Dimension</b>	20x30mm	20x30mm	20x30mm

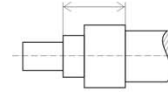


MT-11530X

**MT-11530X, Tube Thickness Digital Calipers**

**Features:**

- Rotate the jaw to easily measure the step shaft & other ends not in align.



Model	MT-115301	MT-115302	MT-115303	MT-115305
Measuring Range	0-150mm	0-200mm	0-300mm	0-500mm
Resolution	0.01mm	0.01mm	0.01mm	0.01mm
Limit Error	±0.04mm	±0.05mm	±0.06mm	±0.08mm

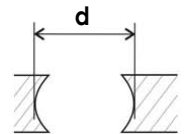


MT-11870X

**MT-11870X, Bearing Raceway Calipers**

**Features:**

- Used in the bearing industry.
- Designed for measuring the diameters of the theoretical center in large scale bearing raceway.



Model	MT-118702	MT-118703	MT-118705
Measuring Range	0-200mm	0-300mm	0-500mm
Resolution	0.01mm	0.01mm	0.01mm
Limit Error	±0.05mm	±0.06mm	±0.07mm

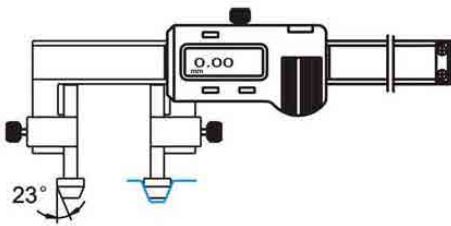


MT-11840X

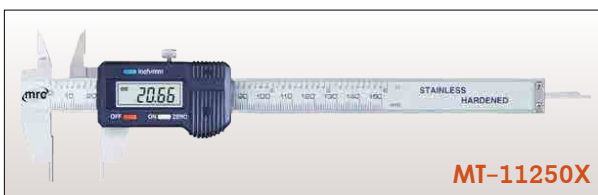
**MT-11840X, RTJ Ring Groove Digital Calipers**

**Features:**

- Used to measure the ring groove in valve flange and pipe flange.
- Can measure the outside diameter of the Rh J (Ring Type Joint) ring groove.
- With presetting function, easy for origin-setting.
- Available with conical and accurate cutting points.
- The angle of jaws: 23°.



Model	MT-118401	MT-118402	MT-118403
Measuring Range	0-150mm	0-200mm	0-300mm
Resolution	0.01mm	0.01mm	0.01mm
Limit Error	±0.03mm	±0.04mm	±0.05mm



MT-11250X

**MT-11250X, Hook Type Digital Calipers**

**Features:**

- Can measure the width of groove and reach the inside wall of holes and concave portions.
- mm/inch conversion.
- Zero-setting at any position.
- With data output.

Model	MT-112501	MT-112502	MT-112503
Measuring Range	0-150mm	0-200mm	0-300mm
Resolution	0.01mm	0.01mm	0.01mm
Limit Error	±0.03mm	±0.04mm	±0.05mm

# CALIPERS

## Digital Calipers



MT-11122X

### MT-11122X, Digital Scribing Calipers

#### Features:

- Carbide-tipped jaws for scribing.
- mm/inch conversion.
- Zero-setting at any position.
- With data output.

Model	MT-111221	MT-111222	MT-111223
Measuring Range	0-150mm	0-200mm	0-300mm
Resolution	0.01mm	0.01mm	0.01mm
Limit Error	±0.02mm	±0.03mm	±0.04mm

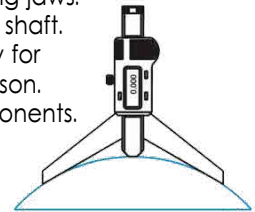


MT-11850X

### MT-11850X, Digital Scribing Calipers

#### Features:

- Designed for measuring large accurate shaft diameter.
- Can greatly reduce the measurement error of conventional caliper with extra long jaws.
- Can check the cylindricity of large shaft.
- Suitable thickness and weight, easy for independent operation of one person.
- High accuracy of electronic components.
- mm/inch conversion.
- Zero-setting at any position.
- With data output.



Model	MT-118501	MT-118502	MT-118503
Measuring Range	Φ300-1000mm	Φ1000-2000mm	Φ2000-3000mm
Resolution	0.001mm	0.001mm	0.001mm
Limit Error	±0.07mm	±0.12mm	±0.18mm

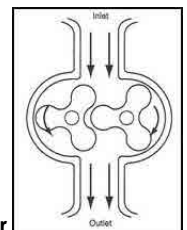


MT-11860X

### MT-11860X, V-Anvil Digital Calipers

#### Features:

- Designed to measure the diameter of workpiece with odd flutes, such as end mills, taps, reamers and the like.
- Used to measure shafts for lobe-error (out of roundness) .
- Used to measure the diameter of workpiece formed with circular arrays, such as fan blades.
- Used to measure the diameter of Roots Blower with 3 blades.
- Easy to operate with high efficiency.
- mm/inch conversion.
- Zero-setting at any position.
- With data output.



Roots Blower

Model	MT-118601	MT-118602	MT-118603	MT-118604	MT-118605	MT-118606
Measuring Range	3-50mm	50-100mm	100-150mm	150-200mm	200-250mm	250-300mm
Resolution	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
Limit Error	±0.03mm	±0.03mm	±0.03mm	±0.04mm	±0.04mm	±0.05mm

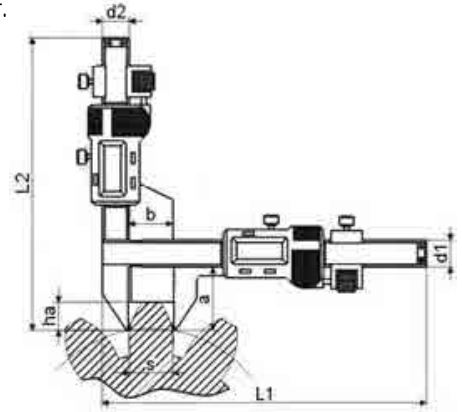


MT-11831X

**MT-11831X, Digital Gear Tooth Calipers**

**Features:**

- Facilitates measurement of gear thickness.
- mm/inch conversion.
- Zero-setting at any position.
- With data output.



Model	MT-118311	MT-118312
Measuring Range	m1-25	m5-50
Resolution	0.01mm	0.01mm
Limit Error	±0.03mm	±0.03mm
L1 (mm)	156	210
L2 (mm)	156.5	185.5
a (mm)	30.5	50.5
b (mm)	21	50.5
d1 (mm)	13	13
d2 (mm)	13	13



MT-119001

**MT-119001, Caliper Type Micrometers**

**Features:**

- High Resolution 0.001mm.
- It looks like a micrometer, accords with the Abbe's principle. It is the combination of calipers and micrometers. However it is not operating like micrometers, you just operate it in a caliper form, quick, convenient and accurate than those micrometers.
- This caliper type micrometer has higher accuracy than micron digital calipers.



Model	MT-119001
Measuring Range	0-25mm
Resolution	0.001mm
Limit Error	±0.004mm



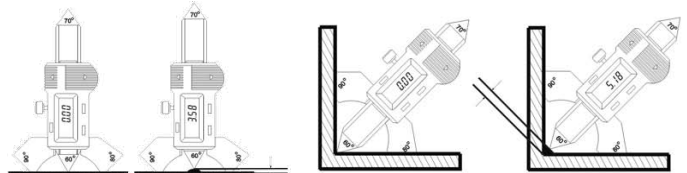




## MT-11820X, Digital Welding Gauges

### Features:

- Widely used for checking the weld of various manufacturing industries such as auto industry, shipbuilding industry, boiler industry and the like.
- Can measure the height of the weld.
- Can check the angle of the groove (The gauge has four angular templates: 60°, 70°, 80° and 90° are provided).



Model	MT-118201	MT-118202
Measuring Range	0-12.5mm	0-20mm
Resolution	0.01mm	0.01mm
Limit Error	±0.03mm	±0.03mm



## MT-3151X1, Digital Snap Gauge with Single Broad Measuring Face

### Features:

- Portable, easy to use and efficient.
- Usually used to measure dimensions of small workpieces.
- Manual power on/off.
- Inch/mm conversion at any position.
- Zero-setting at any position.
- Data output.



Model	MT-315121	MT-315111	MT-315101
Measuring Range	0-30mm	0-30mm	0-30mm
Resolution	0.01mm	0.005mm	0.001mm
Limit Error	±0.03mm	±0.020mm	±0.009mm



## MT-3152X1, Inside/Outside Digital Snap Gauges

### Features:

- Light weight, portable and easy to operate with one single hand.
- Can measure the inside and outside dimensions and easily reach the part in narrow interspace.
- Zero-setting at any position.
- Inch/ Metric conversions.



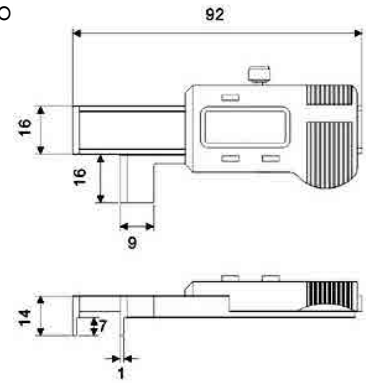
Model	MT-315221	MT-315211	MT-315201
Measuring Range	0-30mm	0-30mm	0-30mm
Resolution	0.01mm	0.005mm	0.020mm
Limit Error	±0.03mm	±0.020mm	±0.009mm

**MT-118901, Digital Gap & Step Gauge**



**Features:**

- Used for checking the mutual position of two adjacent surfaces of vehicles
- Can measure the step between two adjacent surfaces
- Can measure the gap between two adjacent surfaces.
- Portable and easy to operate.
- mm/inch conversion.
- Zero-setting at any position
- With data output.



Model	MT-118901
Measuring Range	0-12.7mm
Resolution	0.01mm
Limit Error	±0.03mm



**MT-178601, Sawtooth Profile Dial Gauge**

**Features:**

- To measure the left-right spacing of adjacent sawtooth rake.
- With magnetic disks in the bottom face, it's easily stuck on the workpieces.
- Portable and easy to use.

Model	MT-178601	MT-178602
Measuring Range	500mm	600mm
Graduation	0.01mm	0.01mm
Limit Error	±0.04mm	±0.04mm

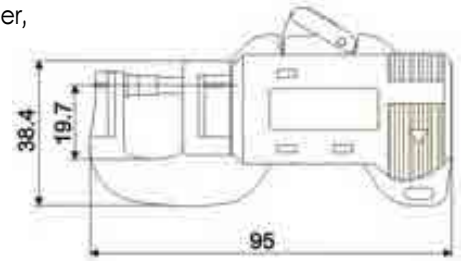
**MT-315801**



**MT-315801, Digital Thickness Gauge (Horizontal Type)**

**Features:**

- Portable, light weight, easy to operate with one single hand.
- It's fit for measuring the thickness of jewellery, leather, metal sheet, paper, film, wire, etc..



Model	MT-315801
Measuring Range	0-12mm
Resolution	0.01mm
Limit Error	±0.03mm

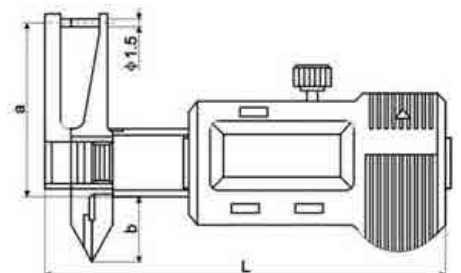
**MT-31534X**



**MT-31534X, Mini Digital Thickness Gauges**

**Features:**

- Pocket size, light weight, easy to operate with one single hand.
- For measuring small workpieces, such as jewelry, electronic components and the like.
- Zero-setting at any position.
- Inch/ Metric conversion.



Model	MT-315340	MT-315341
Measuring Range	0-15mm	0-25mm
Resolution	0.01mm	0.01mm
Limit Error	±0.03mm	±0.03mm
L (mm)	77	87
a (mm)	33.2	33.2
b (mm)	12.5	12.5

# THICKNESS

## Dial/Digital Gauges

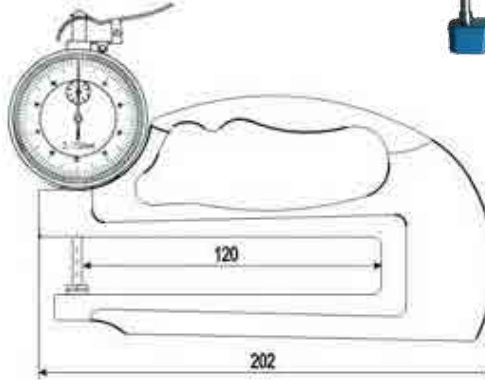


MT-326101

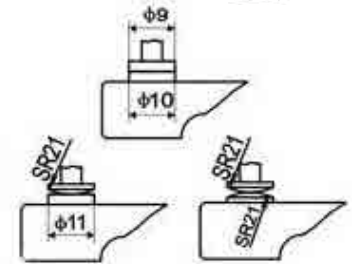
### MT-326101/326201, Dial Thickness Gauges

#### Features:

- Two types of measuring faces .
- Contact points automatically close when not using.
- Fit for measuring the thickness of paper ,film, wire, sheet metal ,jewelry, leather & similar materials.
- Various kinds of contacts can be customized.



MT-326201



Model	MT-326101	MT-326201
Measuring Range	0-10mm	0-10mm
Resolution	0.01mm	0.01mm
Limit Error	±0.02mm	±0.03mm
Probe depth	30mm	120mm

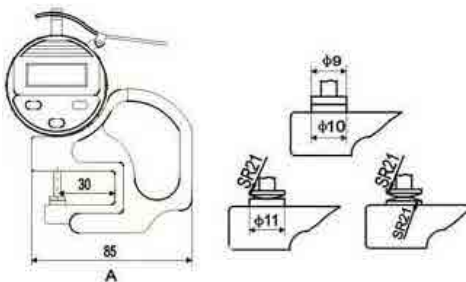


MT-316101

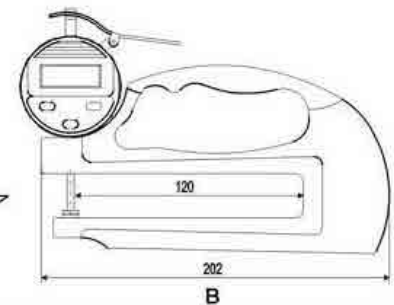
### MT-316X0X, Digital Thickness Gauges

#### Features:

- In/metric system conversion at any position.
- Zero setting at any position.
- Two types of measuring faces .
- Contact points automatically close when not using.
- Fit for measuring the thickness of paper, film, wire, sheet metal, jewelry, leather and similar materials.
- Various kinds of contacts can be customized.



MT-316202



Model	MT-316101	MT-316202	MT-316001
Measuring Range	0-10mm	0-10mm	0-10mm
Resolution	0.01mm	0.01mm	0.001mm
Limit Error	±0.02mm	±0.03mm	±0.009mm
Probe depth	30mm	120mm	30mm

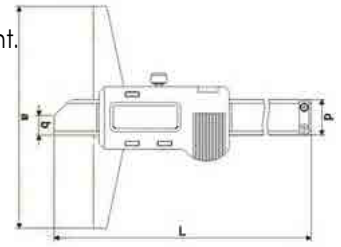
**MT-12110X**



**MT-12110X, Digital Depth Gauges**

**Features:**

- Used for depth measurement.
- Zero-setting at any position.
- Inch/mm conversion
- Data output.



Model	MT-121101	MT-121102	MT-121103	MT-121105
<b>Measuring Range</b>	0-150mm	0-200mm	0-300mm	0-500mm
<b>Vernier reading</b>	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.03mm	±0.03mm	±0.04mm	±0.05mm
<b>L (mm)</b>	230	280	380	580
<b>a (mm)</b>	100	100	100	100
<b>b (mm)</b>	8.5	8.5	8.5	7
<b>c (mm)</b>	14.5	14.5	14.5	15

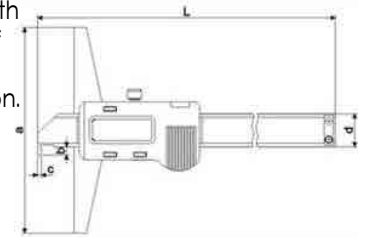
**MT-12310X**



**MT-12310X, Digital Depth Gauges (Hook Type)**

**Features:**

- Used for depth measurement.
- Can measure groove width and position dimension of a groove.
- Zero-setting at any position.



Model	MT-123101	MT-123102	MT-123103	MT-123104
<b>Measuring Range</b>	0-150mm	0-200mm	0-300mm	0-500mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.03mm	±0.03mm	±0.04mm	±0.04mm
<b>L (mm)</b>	230	280	380	580
<b>a (mm)</b>	100	100	100	100
<b>b (mm)</b>	5	5	5	8
<b>c (mm)</b>	2	2	2	3
<b>d (mm)</b>	14.5	14.5	14.5	15

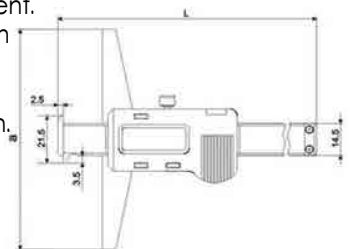
**MT-12320X**



**MT-12320X, Digital Depth Gauges (Hook Type)**

**Features:**

- Used for depth measurement.
- Can measure groove width and position dimension of a groove.
- Zero-setting at any position.



Model	MT-123201	MT-123202	MT-123203
<b>Measuring Range</b>	0-150mm	0-200mm	0-250mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.03mm	±0.03mm	±0.04mm
<b>L (mm)</b>	232.5	282.5	382.5
<b>a (mm)</b>	100	100	100

# DEPTH

## Digital/Vernier Gauges

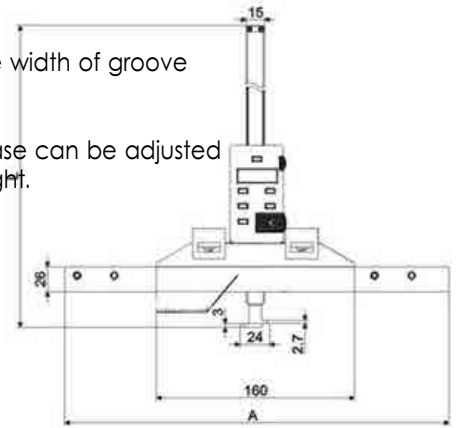


MT-12220X

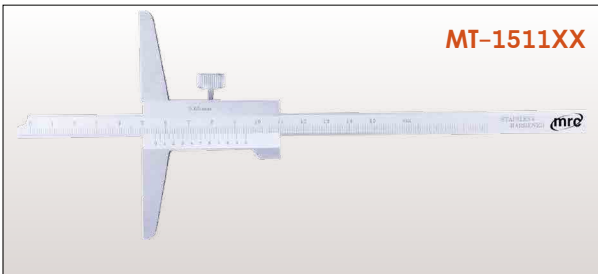
### MT-12220X, Digital Depth Gauges with Adjustable Extra Long Base

**Features:**

- Can measure the width of groove and position of groove.
- The extra long base can be adjusted to the left and right.



Model	MT-122201	MT-122202	MT-122203	MT-122204
<b>Measuring Range</b>	0-300mm	0-400mm	0-500mm	0-600mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.04mm	±0.05mm	±0.05mm	±0.07mm
<b>L (mm)</b>	460	560	660	760

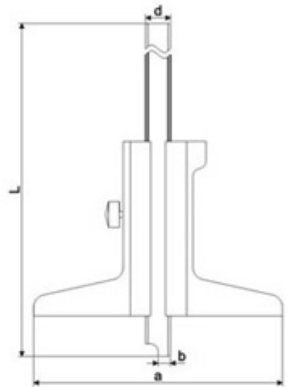


MT-1511XX

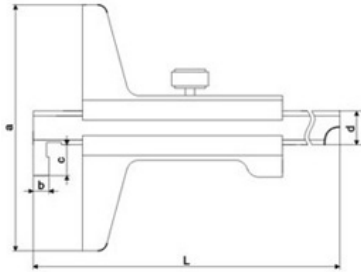
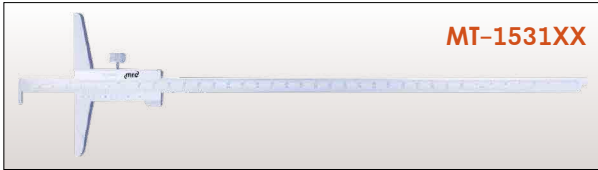
### MT-1511XX/1513XX, Vernier Depth Gauges

**Features:**

- Used for depth measurement and step measurement.
- Stainless steel. Hardened throughout. Satin chrome finished vernier and main scale with jet black graduations for glare free reading. All graduations are marked by laser machine for accuracy.



Model	MT-151100	MT-151102	MT-151104	MT-151106	MT-151108	MT-151110	MT-151112	MT-151114	MT-151116
	MT-151300	MT-151302	MT-151304	MT-151306	MT-151308	MT-151310	MT-151312	MT-151314	MT-151316
<b>Measuring Range</b>	0-150mm	0-200mm	0-250mm	0-300mm	0-400mm	0-500mm	0-600mm	0-800mm	0-1000mm
<b>Resolution</b>	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm
<b>Limit Error</b>	±0.03mm	±0.03mm	±0.04mm	±0.04mm	±0.05mm	±0.05mm	±0.07mm	±0.07mm	±0.07mm
<b>L (mm)</b>	250	300	350	400	505	605	768	968	1168
<b>a (mm)</b>	100	100	100	100	150	150	150	150	150
<b>b (mm)</b>	5	5	5	5	4	4	6	6	6
<b>d (mm)</b>	10	10	10	10	11	11	11	18	18

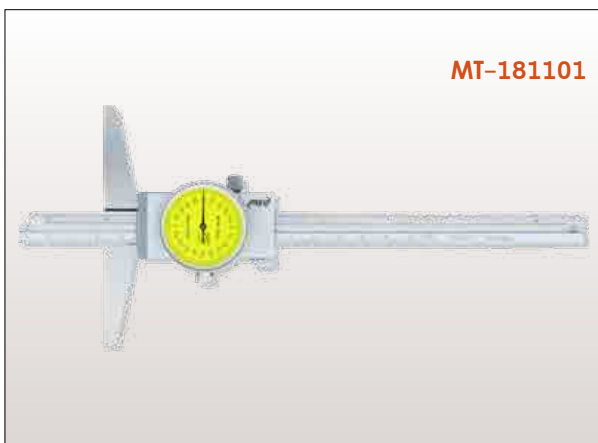


### MT-1531XX/ 1533XX, Vernier Depth Gauges (Hook Type)

#### Features:

- Used for depth measurement.
- Can measure the width of groove & position of groove.
- Stainless steel. Hardened throughout. Satin chrome finished vernier and main scale with jet black graduations for glare free reading. All graduations are marked by laser machine for accuracy.

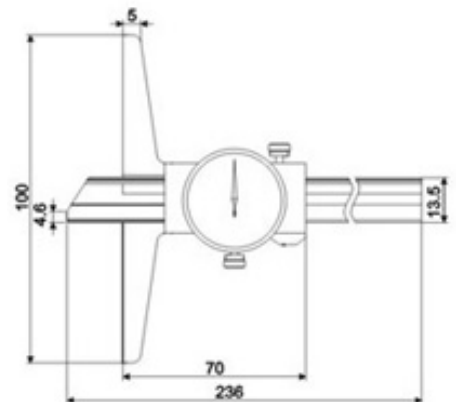
Model	MT-153100	MT-153102	MT-153104	MT-153106	MT-151108	MT-153110
	MT-153300	MT-153302	MT-153304	MT-153306	MT-153308	MT-153310
<b>Measuring Range</b>	0-150mm	0-200mm	0-250mm	0-300mm	0-400mm	0-500mm
<b>Vernier Reading</b>	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm
<b>Limit Error</b>	±0.03mm	±0.03mm	±0.04mm	±0.04mm	±0.05mm	±0.05mm
<b>L (mm)</b>	250	300	350	400	505	605
<b>a (mm)</b>	100	100	100	100	150	150
<b>b (mm)</b>	2	2	2	2	5	5
<b>c (mm)</b>	2.5	2.5	2.5	2.5	10	10
<b>d (mm)</b>	10	10	10	10	11	11



### MT-181101, Dial Depth Gauges

#### Features:

- Both the slider & beam are made of hardened stainless steel.
- Mono-block structure for more reliability.



Model	MT-181101
<b>Measuring Range</b>	0-150mm
<b>Dial reading-Graduation</b>	0.02mm
<b>Dial reading-Range/rev.</b>	2mm
<b>Limit Error</b>	±0.03mm



# DEPTH

## Dial/Digital Gauges



### MT-32710X, Dial Bore Gauges

#### Features:

- For internal measurement.
- Stainless steel contacts hardened.
- With changeable contacts, wide measuring range.
- With dial indicator.

Model	MT-327101	MT-327102	MT-327103	MT-327104	MT-327105	MT-327106	MT-327107	MT-327108	MT-327109
<b>Measuring Range</b>	10-18mm	18-35mm	35-50mm	50-100mm	50-160mm	100-160mm	160-250mm	20-200mm	250-450mm
<b>Graduation</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.012mm	±0.015mm	±0.015mm	±0.018mm	±0.018mm	±0.018mm	±0.018mm	±0.018mm	±0.018mm



### MT-32850X, Dial Depth Indicators

#### Features:

- Bottom surface of the base is hardened, ground and lapped for high degree of flatness.
- With interchangeable rods.

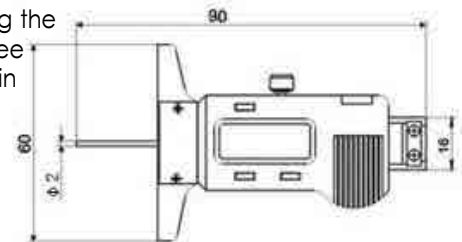
Model	MT-328501	MT-328502
<b>Measuring Range</b>	0-50mm	0-100mm
<b>Graduation</b>	0.01mm	0.01mm
<b>Limit Error</b>	±0.012mm	±0.012mm



### MT-121002, Pocket Digital Tire Thread Depth Gauges

#### Features:

- Thin and long rod, pointed contact, flat contact or spherical contact is available for different needs.
- Used for checking the tread depth to see if the wear is still in the safety area.
- Zero-setting at any position.



Model	MT-121002
<b>Measuring Range</b>	0-25mm
<b>Resolution</b>	0.01mm
<b>Limit Error</b>	±0.02mm

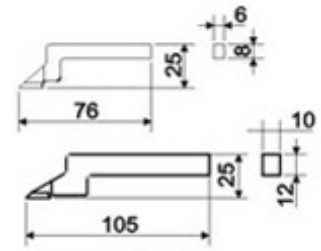


**MT-1311XX**

### MT-1311XX, Digital Height Gauges

**Features:**

- Carbide-tipped scribe.
- Can easily measure height of small workpieces.
- With fine adjustment .
- The base bottom is made of hardened stainless steel.
- With data hold function and tolerance presetting functions.
- With absolute and relative measurement functions.
- With data output port.



Model	MT-131103	MT-131105	MT-131106	MT-131110
<b>Measuring Range</b>	0-300mm	0-500mm	0-600mm	0-1000mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.04mm	±0.05mm	±0.06mm	±0.07mm



**MT-13120X**

### MT-13120X, Single-Column Digital Height Gauge with Hand Wheel

**Features:**

- Carbide-tipped scribe.
- Made of stainless steel, high rigid vertical column permits highly stable measurement.
- Fine-adjustment carriage to feed slider finely.

Model	MT-131203	MT-131205	MT-131206
<b>Measuring Range</b>	0-300mm	0-500mm	0-600mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.04mm	±0.05mm	±0.06mm



**MT-13210X**

### MT-13210X, Twin-Beam Digital Height Gauges

**Features:**

- Carbide-tipped scribe.
- With fine adjustment .
- The base bottom is made of hardened stainless steel.
- With data hold function and tolerance presetting functions.
- With absolute and relative measurement functions.
- With data output port.

Model	MT-131203	MT-131205	MT-131206
<b>Measuring Range</b>	0-300mm	0-500mm	0-600mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.04mm	±0.05mm	±0.06mm



**MT-13030X**

### MT-13030X, Digital Height Gauge with Double Datum Surfaces

**Features:**

- Both the upside and the underside of the base are datum surfaces. The slider has two jaws on its left side and right side. The jaw on the slider's left is for the bottom measuring face. The jaw on the slider's right is for the upside measuring face. (When the base is on the inspection surface plate, the surface of the plate is regarded as the extension of bottom measuring face.)
- In case the inspection surface plate is unavailable, the upside of the base can be used as an inspection surface plate.
- Measurement can still be done with the slider's right jaw.
- The range of application can be widened with some attachments.



Model	MT-130300	MT-130301	MT-130302	MT-130303	MT-130305	MT-130306
<b>Measuring Range</b>	0-125mm	0-150mm	0-200mm	0-300mm	0-500mm	0-600mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.03mm	±0.03mm	±0.03mm	±0.04mm	±0.05mm	±0.06mm

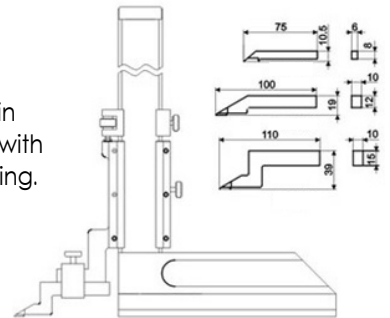


**MT-1611XX**

### MT-1611XX, Vernier Height Gauges

**Features:**

- Carbide-tipped scriber.
- With fine adjustment.
- Stainless steel, hardened throughout. Satin chrome finished vernier and main scale with jet black graduations for glare free reading.
- All graduations are marked by laser machine for accuracy.
- The base bottom is made of hardened stainless steel.



Model	MT-161101	MT-161103	MT-161105	MT-161106	MT-161110
<b>Measuring Range</b>	0-200mm	0-300mm	0-500mm	0-600mm	0-1000mm
<b>Vernier reading</b>	0.02mm	0.02mm	0.02mm	0.02mm	0.02mm
<b>Limit Error</b>	±0.03mm	±0.04mm	±0.05mm	±0.07mm	±0.07mm



**MT-19210X**

### MT-19210X, Twin-Beam Dial Height Gauges

**Features:**

- Easy reading dial.
- Carbide-tipped scriber.
- With fine adjustment wheel and lock
- Stainless steel beams.
- Bottom surface of the base is hardened, ground and lapped for maximum flatness.

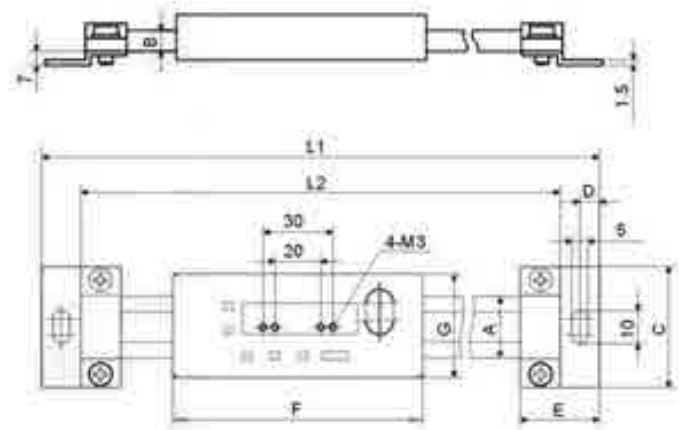
Model	MT-92103	MT-92105	MT-92106
<b>Measuring Range</b>	0-300mm	0-500mm	0-600mm
<b>Dial reading Graduation</b>	0.01mm	0.01mm	0.01mm
<b>Dial reading Range/rev.</b>	1mm	1mm	1mm
<b>Limit Error</b>	±0.04mm	±0.05mm	±0.06mm

# SCALE UNITS

## MT-8121XX, Digital Scale Units (Horizontal Type)

### Features:

- Designed to be installed on the machines and fixtures to measure the axial movement.
- Can be connected with large LCD display unit easy reading.
- Zero-setting at any position.
- Data output.



Model	MT-812100	MT-812101	MT-812102	MT-812103	MT-812104	MT-812105	MT-812106
<b>Measuring Range</b>	100mm	150mm	200mm	300mm	400mm	500mm	600mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.02mm	±0.03mm	±0.03mm	±0.04mm	±0.05mm	±0.05mm	±0.08mm

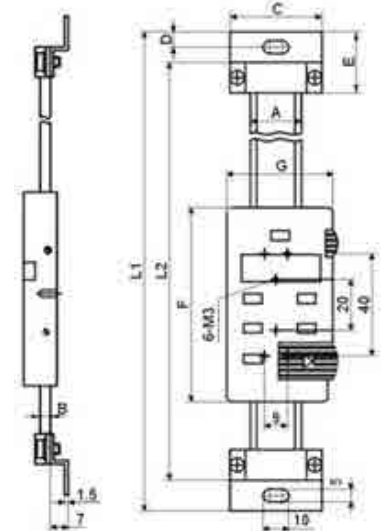
Model	MT-812107	MT-812108	MT-812109	MT-812110	MT-812112	MT-812115	MT-812120
<b>Measuring Range</b>	700mm	800mm	900mm	1000mm	1200mm	1500mm	2000mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.08mm	±0.10mm	±0.10mm	±0.10mm	±0.12mm	±0.14mm	±0.20mm

## MT-8122XX, Digital Scale Units (Vertical Type)



### Features:

- Designed to be installed on the machines and fixtures to measure the axial movement.
- Can be connected with large LCD display unit easy reading.
- Zero-setting at any position.
- Data output.



Model	MT-812200	MT-812201	MT-812202	MT-812203	MT-812204	MT-812205	MT-812206
<b>Measuring Range</b>	100mm	150mm	200mm	300mm	400mm	500mm	600mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.02mm	±0.03mm	±0.03mm	±0.04mm	±0.05mm	±0.05mm	±0.08mm

Model	MT-812207	MT-812208	MT-812209	MT-812210	MT-812212	MT-812215	MT-812220
<b>Measuring Range</b>	700mm	800mm	900mm	1000mm	1200mm	1500mm	2000mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.08mm	±0.10mm	±0.10mm	±0.10mm	±0.12mm	±0.14mm	±0.20mm



## MT-24200X/21200X, Mechanical/Digital Micrometer Heads

### Features:

- Used on machine tools, fixtures, special gauges, tooling, and other equipment where micrometer accuracy in setting and adjustment is required.
- Carbide-tipped measuring faces (excluding spherical heads).
- Applied to accurate measuring of linear displacement on XY worktable.

Model	MT-242002	MT-242003	MT-242004	MT-242005	MT-242006	MT-242007
<b>Measuring Range</b>	0-5mm	0-6.5mm	0-13mm	0-15mm	0-25mm	0-50mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.004mm	±0.004mm	±0.004mm	±0.004mm	±0.004mm	±0.005mm

Model	MT-212001	MT-212002
<b>Measuring Range</b>	0-25mm	0-50mm
<b>Resolution</b>	0.001mm	0.001mm
<b>Limit Error</b>	±0.003mm	±0.005mm



## MT-24110X, Outside Micrometers

### Features:

- Baked enamel frame.
- Carbide-tipped measuring faces.
- With ratchet stop and spindle lever lock.

Model	MT-241101	MT-241102	MT-241103	MT-241104
<b>Measuring Range</b>	0-25mm	25-50mm	50-75mm	75-100mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.004mm	±0.004mm	±0.005mm	±0.005mm



## MT-21110X, Electronic Digital Outside Micrometer

### Features:

- Extra large LCD for easy reading, Resolution: 0.001mm.
- Carbide-tipped measuring faces.
- Manual power on/off.
- Zero setting at any position.

Model	MT-211101	MT-211102	MT-211103	MT-211104
<b>Measuring Range</b>	0-25mm	25-50mm	50-75mm	75-100mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.003mm	±0.003mm	±0.004mm	±0.004mm

# MICROMETERS

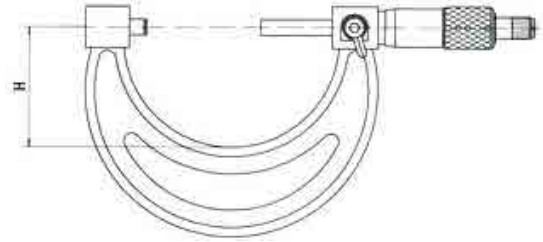


MT-24118X

## MT-24118X, Outside Micrometers

### Features:

- Baked enamel frame.
- Carbide-tipped measuring faces.



Model	MT-241181	MT-241182	MT-241183	MT-241184	MT-241185	MT-241186	MT-241187	MT-241188
Measuring Range	100-125mm	125-150mm	150-175mm	175-200mm	200-225mm	225-250mm	250-275mm	275-300mm
Reading	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
Limit Error	±0.006mm	±0.006mm	±0.007mm	±0.007mm	±0.008mm	±0.008mm	±0.009mm	±0.009mm
H (mm)	73.5	86	98.5	111	123.5	136	148.5	161

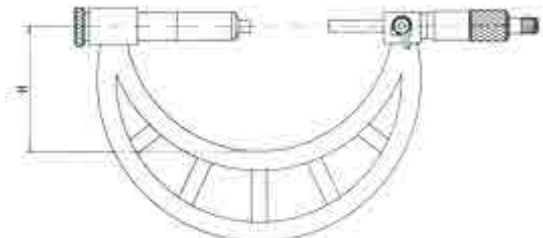


MT-24119X

## MT-24119X, Outside Micrometers

### Features:

- With interchangeable standard anvils.
- Wide measuring range, high accuracy.
- Carbide-tipped measuring faces.
- Baked enamel tubular frame, light weight, good rigidity.



Model	MT-241191	MT-241192	MT-241193	MT-241194	MT-241195	MT-241196	MT-241197
Measuring Range	300-400mm	400-500mm	500-600mm	600-700mm	700-800mm	800-900mm	900-1000mm
Reading	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
Limit Error	±0.011mm	±0.013mm	±0.015mm	±0.016mm	±0.018mm	±0.020mm	±0.020mm
H (mm)	225	275	325	375	430	480	530



MT-2119XX

## MT-2119XX, Digital Thread Micrometers

### Features:

- Pointed anvil & spindle are ideal for measuring the wall thickness of drills, small grooves & other hard-to-reach dimensions.
- Carbide-tipped measuring faces.

Model	MT-211901	MT-211904	MT-211907	MT-211911
Measuring Range	0-25mm	25-50mm	50-75mm	75-100mm
Reading	0.001mm	0.001mm	0.001mm	0.001mm
Limit Error	±0.004mm	±0.004mm	±0.004mm	±0.005mm



MT-242101

## MT-21210X/24210X, Spherical Micrometers

### Features:

- For measuring wall thickness of bearings, tubing, sleeves, rings, cylinders and from a hole an edge.

### Mechanical Type:

Model	MT-242101	MT-242102	MT-242103	MT-242104	MT-242105	MT-242106	MT-242107
Measuring Range	0-25mm	25-50mm	50-75mm	75-100mm	100-125mm	125-150mm	150-175mm
Graduation	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
Limit Error	±0.004mm	±0.004mm	±0.005mm	±0.005mm	±0.006mm	±0.006mm	±0.007mm

### Digital Type:

Model	MT-212101	MT-212102	MT-212103	MT-212104	MT-212105	MT-212106	MT-212107
Measuring Range	0-25mm	25-50mm	50-75mm	75-100mm	100-125mm	125-150mm	150-175mm
Graduation	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
Limit Error	±0.003mm	±0.003mm	±0.004mm	±0.004mm	±0.005mm	±0.005mm	±0.006mm



MT-211301

## MT-21130X/24130X, Blade Micrometers

### Features:

- Non-rotating spindle, blade anvil and spindle.
- Typically used to measure groove diameter on shafts or other narrow recess.

### Mechanical Type:

Model	MT-241301	MT-241302	MT-241303	MT-241304	MT-241305	MT-241306	MT-241307
Measuring Range	0-25mm	25-50mm	50-75mm	75-100mm	100-125mm	125-150mm	150-175mm
Graduation	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
Limit Error	±0.004mm	±0.004mm	±0.005mm	±0.005mm	±0.006mm	±0.006mm	±0.007mm

### Digital Type:

Model	MT-211301	MT-211302	MT-211303	MT-211304	MT-211305	MT-211306	MT-211307
Measuring Range	0-25mm	25-50mm	50-75mm	75-100mm	100-125mm	125-150mm	150-175mm
Graduation	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
Limit Error	±0.003mm	±0.003mm	±0.004mm	±0.004mm	±0.005mm	±0.005mm	±0.006mm



MT-211401

## MT-21140X/24140X, Deep Throat Micrometers

### Features:

- Deep throat frame for measuring thickness of sheet metal, paper and sheet plastic.
- Carbide-tipped measuring faces.

### Mechanical Type:

Model	MT-241401	MT-241402	MT-241403	MT-241404	MT-241405	MT-241406
Measuring Range	0-25mm	0-25mm	0-25mm	25-50mm	25-50mm	25-50mm
Graduation	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
Limit Error	±0.004mm	±0.004mm	±0.005mm	±0.004mm	±0.004mm	±0.005mm
Throat Depth	50mm	100mm	150mm	50mm	100mm	150mm

### Digital Type:

Model	MT-211401	MT-211402	MT-211403	MT-211404	MT-211405	MT-211406
Measuring Range	0-25mm	0-25mm	0-25mm	25-50mm	25-50mm	25-50mm
Graduation	0.001mm	0.001mm	0.001mm	0.001mm	0.001mm	0.001mm
Limit Error	±0.003mm	±0.003mm	±0.004mm	±0.003mm	±0.003mm	±0.004mm
Throat Depth	50mm	100mm	150mm	50mm	100mm	150mm

# MICROMETERS



MT-22110X

## MT-22110X, Digital Depth Micrometers

### Features:

- Wide measurements range.
- High precision measuring depth rod.

Model	MT-221101	MT-221102	MT-221104
Measuring Range	0-25mm	0-50mm	0-100mm
Reading	0.001mm	0.001mm	0.001mm
Limit Error	±0.003mm	±0.004mm	±0.005mm



MT-24310X

## MT-24310X, Inside Micrometer (Single Rod)

### Features:

- Carbide measuring faces.

Model	MT-243101	MT-243102	MT-243103	MT-243104	MT-243105	MT-243106	MT-243107	MT-243108
Measuring Range	50-75mm	75-100mm	100-125mm	125-150mm	150-175mm	175-200mm	200-225mm	225-250mm
Resolution	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
Accuracy	±0.005mm	±0.005mm	±0.006mm	±0.006mm	±0.007mm	±0.007mm	±0.008mm	±0.008mm



MT-24313X

## MT-24313X, Inside Micrometers

### Features:

- The combining of extension rods provides a wide measuring range.
- Carbide-tipped measuring faces.
- Diameter of extension rods: Φ22mm.
- Supplied with a standard caliper gage for zero setting.

Model	MT-243131	MT-243132	MT-243133	MT-243134
Measuring Range	150-175mm	150-1400mm	150-2000mm	150-2100mm
Resolution	0.01mm	0.01mm	0.01mm	0.01mm
Extension Rods	Micrometer head	25mm, 50mm(2pcs.), 100mm, 200mm, 400mm(2pcs.)	25mm, 50mm(2pcs.), 100mm, 200mm(2pcs.), 400mm(3pcs.)	25mm, 50mm(2pcs.), 100mm(2pcs.), 200mm(2pcs.), 400mm(3pcs.)





MT-243201

## MT-24320X/21320X, Inside Micrometers (Caliper Type)

### Features:

- Ideal for measuring various inside dimensions.

### Mechanical Type:

Model	MT-243201	MT-243202	MT-243203	MT-243204	MT-243205	MT-243206	MT-243207	MT-243208
<b>Measuring Range</b>	5-30mm	25-50mm	50-75mm	75-100mm	100-125mm	125-150mm	150-175mm	175-200mm
<b>Graduation</b>	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.005mm	±0.006mm	±0.007mm	±0.008mm	±0.009mm	±0.009mm	±0.010mm	±0.010mm

### Digital Type:

Model	MT-213201	MT-213202	MT-213203	MT-213204	MT-213205	MT-213206	MT-213207	MT-213208
<b>Measuring Range</b>	5-30mm	25-50mm	50-75mm	75-100mm	100-125mm	125-150mm	150-175mm	175-200mm
<b>Graduation</b>	0.001mm	0.001mm	0.001mm	0.001mm	0.001mm	0.001mm	0.001mm	0.001mm
<b>Limit Error</b>	±0.005mm	±0.006mm	±0.007mm	±0.008mm	±0.009mm	±0.009mm	±0.010mm	±0.010mm

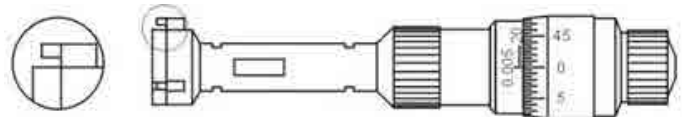


MT-2433XX

## MT-2433XX, Three Point Internal Micrometers

### Features:

- Carbide-tipped contact points and three lateral protruding fingers for highly wear- resistance.
- Measurement can be taken close to the bottom of a blind bore.
- With Ratchet Stop for constant force.
- With precision ring gauge for zero setting and re-setting.



Model	MT-243301	MT-243302	MT-243303	MT-243304	MT-243305
<b>Measuring Range</b>	6-8mm	8-10mm	10-12mm	12-16mm	16-20mm
<b>Graduation</b>	0.001mm	0.001mm	0.001mm	0.005mm	0.005mm
<b>Limit Error</b>	±0.004mm	±0.004mm	±0.004mm	±0.004mm	±0.004mm

Model	MT-243306	MT-243307	MT-243308	MT-243309	MT-243310
<b>Measuring Range</b>	20-25mm	25-30mm	30-40mm	40-50mm	50-63mm
<b>Graduation</b>	0.005mm	0.005mm	0.005mm	0.005mm	0.005mm
<b>Limit Error</b>	±0.004mm	±0.004mm	±0.004mm	±0.004mm	±0.004mm



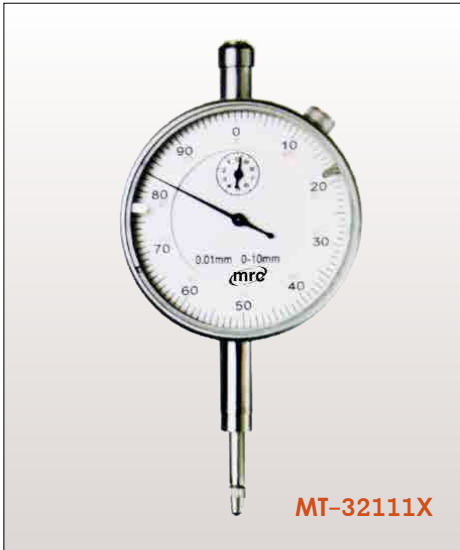
MT-21330X

## MT-21330X, Digital Three Point Internal Micrometers

### Features:

- Self-centering with 3 points, fit for accurate measurement of blind holes and through holes.
- Can measure deep holes by attaching an extension rod (optional).
- Carbide-tipped contact points.

Model	MT-213301	MT-213302	MT-213303
<b>Measuring Range</b>	6-8mm	8-10mm	10-12mm
<b>Graduation</b>	0.001mm	0.001mm	0.001mm
<b>Limit Error</b>	±0.004mm	±0.004mm	±0.004mm



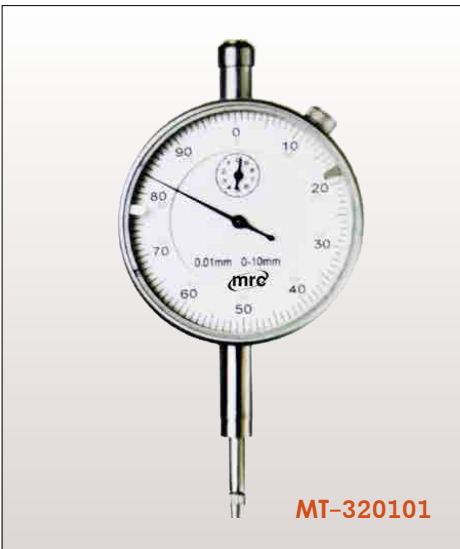
MT-32111X

### MT-32111X, Dial Indicators

#### Features:

- The main moving components are made of stainless steel and have been heat treated, which have good performance in anti-rust and wear-resistance.
- With lock screw for locking the bezel.
- Shock-proof type uses jeweled bearing for good sensitiveness.
- Back cover with lug is optional.

Model	MT-321111	MT-321112	MT-321113
<b>Measuring Range</b>	0-3mm	0-10mm	0-30mm
<b>Graduation</b>	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.014mm	±0.020mm	±0.030mm



MT-320101

### MT-320101, Dial Micron Indicators

#### Features:

- Used for more accurate measurement.
- To measure errors and relative position deviations of geometric shapes.
- With anti-dirt cap on the upper end of the measuring spindle.
- With tolerance indicator.
- With lock screw for locking the bezel.
- Back cover with lug is optional.

Model	MT-320101
<b>Measuring Range</b>	0-1mm
<b>Graduation</b>	0.001mm
<b>Limit Error</b>	±0.005mm

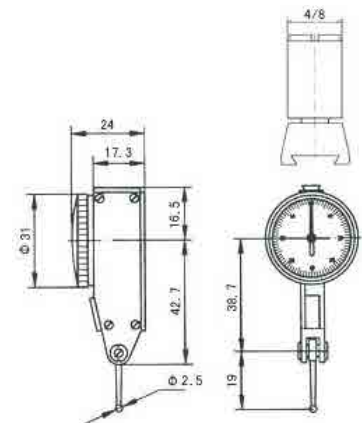


MT-323201

### MT-323201, Dial Test Indicators

#### Features:

- Small and lightweight.
- Can easily and accurately measure the long-narrow or concave portions and the inside and outside diameters which are hard to reach.
- High sensitivity and quick response.
- Steel and ruby styli are optional.



Model	MT-323201
<b>Measuring Range</b>	0-0.8mm
<b>Graduation</b>	0.01mm
<b>Limit Error</b>	±0.013mm



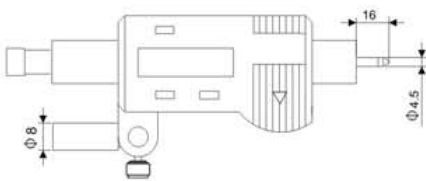
### MT-31210X/31210X-D, Digital Indicators

#### Features:

- Hand/auto power off
- Preplace started position value
- Direction switch
- mm/in conversion
- Absolute and relative measurement
- Set zero at any position.

Model: With flat back	MT-312101	MT-312102	MT-312103
Model: With lug back	MT-312101D	MT-312102D	MT-312103D
<b>Measuring Range</b>	0-12.7mm	0-25.4mm	0-50.8mm
<b>Graduation</b>	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.02mm	±0.02mm	±0.04mm

### MT-311XXX, Rectangle Digital Indicators



#### Features:

- Easy & convenient to clamp.
- Wide measuring range.
- Zero-setting at any position.
- Data output.

Model	MT-311101	MT-311102	MT-311103	MT-311104
<b>Measuring Range</b>	0-10mm	0-20mm	0-30mm	0-50mm
<b>Resolution</b>	0.01mm	0.01mm	0.01mm	0.01mm
<b>Limit Error</b>	±0.02mm	±0.03mm	±0.03mm	±0.04mm

Model	MT-311105	MT-311011	MT-311012	MT-311013
<b>Measuring Range</b>	0-100mm	0-10mm	0-25mm	0-50mm
<b>Resolution</b>	0.01mm	0.001mm	0.001mm	0.001mm
<b>Limit Error</b>	±0.05mm	±0.007mm	±0.009mm	±0.012mm

# ANGLE/INCLINE

# Inclinometers/Bevel Boxes



MT-451101



MT-451101A



MT-451101W



MT-451101WM



MT-451101V



MT-451101M

- MT-451101: Stainless steel measuring faces.
- MT-451101H: Stainless steel measuring faces with small screw thread bottom outlets holes in the bottom panel.
- MT-451101M: Stainless steel measuring faces with magnetic disks in bottom panel.
- MT-451101W: Stainless steel measuring faces with large measuring face in bottom panel.
- MT-451101WM: Stainless steel measuring faces with large and magnetic disks in the bottom panel.
- MT-451101VM: Stainless steel measuring faces with V-type measuring face in bottom panel.
- MT-451101A: Aluminum-alloy measuring faces with up and down large measuring base.
- MT-451101AM: Large Aluminum flame measuring faces with magnetic bottom panel.

## MT-451102 Series, Bevel Boxes

### Features:

- Large LCD display for easy reading.
- Small size, light weight, easy to carry and operate.
- With magnetic disks in the bottom measuring face, it can be stuck to the workpiece to be measured.

Model	MT-451102 Series
<b>Measuring Range</b>	±180.00°
<b>Resolution</b>	0.1°
<b>Repeatability</b>	0.2°
<b>Water Proof</b>	IP54
<b>Power</b>	3V CR2032 Lithium battery
<b>Working current</b>	<100µA
<b>Dimension</b>	2"×2"×1.3"
<b>Measuring plane containing disk magnet can stick to the surface to be measured</b>	



MT-451102



MT-451102M



MT-451102W



MT-451102WM

- MT-451102: Bevel Box (Plastic frame house).
- MT-451102W: Bevel Box (Plastic frame house with bubble).
- MT-451102M: Bevel Box (Metal frame house).
- MT-451102WM: Bevel Box (Metal frame house with bubble).

# ANGLE/INCLINE

# Inclinometers/Bevel Boxes

**MT-431112, Angle Gauge**

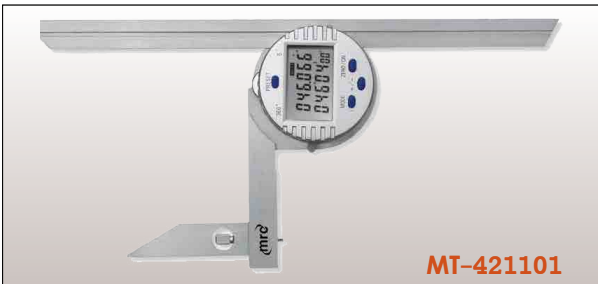


Model	MT-431112
Measuring Range	360°
Working Current	<80μA
Work temperature	+5°C~+45°C
Work humidity	<85%RH
Resolution	0.05°/3'
Accuracy	0.2°
Length	254mm
Water Proof	IP54
Power/Battery Life	3V CR2032 Lithium battery/ more than 2000 hours

- Easy to measure all kinds of angles and draw lines.
- Absolute and relative conversion.
- Display always reads upright, no matter which way is turned.
- Easy calibration and zero setting.
- Analogue quadrant showing for easy reading.
- High accurate level bubble for measuring horizontal and vertical levels easily.
- Type MT-431112 can lock the movable blade at any angle.

**MT-421101, Digital Universal Bevel Protractor**

- With presetting function.
- Removable blade.
- Blades can be rotated to the desired angle.
- Three modes of measurement : 1×360°, 2×180° and 4×90° (four-quadrant).



Model	MT-421101
Measuring Range	0-360°
Resolution	30"
Accuracy	± 5'
Material	Stainless steel throughout
The blade	0.05°/3'
Accuracy	150mm, 200mm, 300mm
Contact force	1.5N or less
Operating temp.	0-40°C
Power/Battery Life	3V LR2032/approx. 1 years



**MT-423101, Universal Bevel Protractors**

**Features:**

- Made of stainless steel, by perfect heat treatment and surface treatment, this Universal Bevel Protractors are featured in high accuracy, long working life, rust resistant, easy to use and wide use, etc..
- Used for measuring inside and outside angles in machining.

Model	MT-423101
Measuring Range	0-320°
Reading Value	2'
Limit Error	±2'

**MT-423111, Universal Bevel Protractors with Fine Adjustment**



- Made of stainless steel, by perfect heat treatment and surface treatment, this Universal Bevel Protractors are featured in high accuracy, long working life, rust resistant, easy to use and wide use, etc..
- Used for measuring inside and outside angles in machining.

Model	MT-423111
Measuring Range	0-360°
Reading Value	5'
Limit Error	±5'



**MT-723101/723102/723104, Magnetic Stands**

**Features:**

- Widely used in the manufacturing industry.
- Used for clamping dial indicators, micron dial indicators and dial test indicators , etc. It can scribe on workpiece if it's attached with a scriber.
- Can be adjusted to any angle needed. It's an ideal checking device.
- This strong stand is with ON/OFF switch.



- MT-723101: Magnetic Stand with Fine Adjustment.
- MT-723102: Universal Mechanical Arm Magnetic Stand.
- MT-723104: Flexible Stem Magnetic Stand.

Model	MT-723101/723102/723104
Magnetic force	60kg/588N



**MT-723111/723112, Micrometer Stands**

**Features:**

- This micrometer stands is specially designed for clamping micrometers and other measuring tools.
- MT-723111: Conventional type.
- MT-723112: Adjustable type.



**MT-74111X, Granit Measuring Stands**

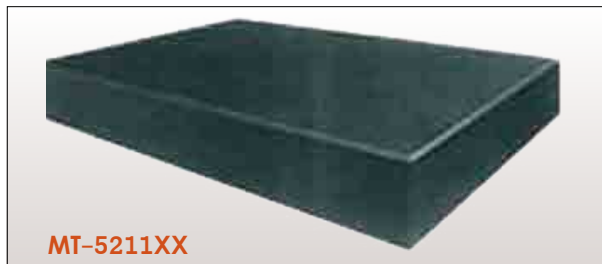
**Features:**

- This granite measuring stand is specially designed for clamping dial indicators and other measuring tools.

Model	MT-741111	MT-741112	MT-741113
Measuring Range	0-100mm	0-200mm	0-250mm
Flatness	0.002mm	0.002mm	0.002mm
Size (LxWxH)mm	150x100x40	200x150x50	300x200x50

# ACCESSORIES

## Plates/Gauges/Interfaces



MT-5211XX

### MT-5211XX, Granite Inspection Surface Plate

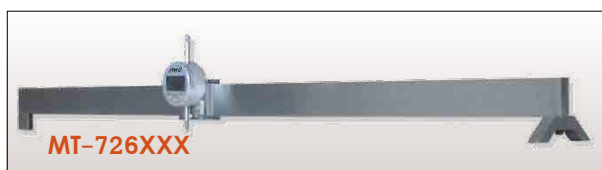
#### Features:

- With high hardness, stable function, long working life.
- Less susceptible to corrosion, non-distorted, minimal changes in dimension due to temperature changes.
- No burrs or protrusions can form on its surface. Its flatness remains high even though it has been used for a long time. It causes no damage to work pieces or instruments.

Model	MT-521101	MT-521102	MT-521103	MT-521103-1	MT-521104	MT-521104-1	MT-521104-2	MT-521105
Size (mm)	150x100x40	160x160x50	250x160x50	250x250x50	300x200x50	300x200x80	300x300x70	350x300x100
Grade 00 precision (µm)	2.5	2.5	3	3	3	3	3	3
Grade 0 precision (µm)	5	5	5.5	5.5	5.5	6	6	6

Model	MT-521106	MT-521106-1	MT-521107	MT-521107-1	MT-521108	MT-521110	MT-521110-1	MT-521110-2
Size (mm)	400x250x70	400x400x100	630x400x100	630x630x100	800x500x130	1000x630x150	1000x750x150	1000x1000x150
Grade 00 precision (µm)	3	3.5	3.5	4	4	4.5	5	5
Grade 0 precision (µm)	6	6.5	7	8	8	9	9	10

Model	MT-521116	MT-521120	MT-521116-1	MT-521120-1	MT-521125	MT-521130	MT-521140	MT-521160
Size (mm)	1600x1000x200	2000x1000x250	1600x1600x300	2000x1600x300	2500x1600x300	3000x2000x500	4000x2000x500	6000x2000x700
Grade 00 precision (µm)	6	6.5	6.5	7	8	9	11	15
Grade 0 precision (µm)	12	13	14	15	16	18	22	30



MT-726XXX

### MT-726XXX, Strightness Gauges

#### Features:

- Used for measuring the flatness and straightness of the workpieces.
- Direct reading without using any feeler gauges.

Model	MT-726106	MT-726108	MT-726110	MT-726112	MT-726115
Measuring Range	600mm	800mm	1000mm	1200mm	1500mm
Resolution	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm

Model	MT-726006	MT-726008	MT-726010	MT-726012	MT-726015
Measuring Range	600mm	800mm	1000mm	1200mm	1500mm
Resolution	0.001mm	0.001mm	0.001mm	0.001mm	0.001mm

### MT-71120X, Computer Interfaces

#### Features:

- Special connecting cable for electronic digital measuring tools, used to connect the tools with computers.
- Interface Protocol: 9600 bps, 1 start bit, 8 data bits, 1 stop bit, no parity bit.
- Tranferred with ASCII code data format . Press the Enter key to end a measured value. Transfers are done continuously and initiatively.



## MT-461101, Digital Levels



### Features:

- 4×90° measurement.
- Widely used in angle measurement in auto industry, building industry and drilling machinery, etc.
- Display always reads upright, no matter which way the level is turned.
- Simple calibration requires no special fixtures.
- Versatile measuring tool, angle finder, protractor and level three in one.
- One 3V Cr2032 lithium battery.

Model	MT-461101
Measuring Range	4×90° (0 ~ 360°)
Work temperature	+5°C ~ +40°C
Work humidity	≤85%RH
Resolution	0.1°
Accuracy	0.2°
Power	CR2032 3V lithium battery