

# Mitutoyo

## KEY PRODUCT GUIDE



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## Micrometer High Accuracy

- Measuring faces: Carbide
- Equipped with Ratchet Stop for constant measuring force



### CODE

102-707  
102-717

### SIZE

0-25mm x 0.001mm  
0-1" x .0001" Graduations

## Micrometer Metric

- Baked enamel finished frame.
- Measuring faces: Carbide
- Equipped with Ratchet Stop for constant measuring force



### CODE

103-137  
103-138  
103-139-10  
103-140-10  
103-141-10  
103-142-10  
103-143-10  
103-144-10  
103-145-10  
103-146-10  
103-147-10  
103-148-10

### SIZE

0-25mm x 0.01mm Graduations  
25-50mm x 0.01mm Graduations  
50-75mm x 0.01mm Graduations  
75-100mm x 0.01mm Graduations  
100-125mm x 0.01mm Graduations  
125-150mm x 0.01mm Graduations  
150-175mm x 0.01mm Graduations  
175-200mm x 0.01mm Graduations  
200-225mm x 0.01mm Graduations  
225-250mm x 0.01mm Graduations  
250-275mm x 0.01mm Graduations  
275-300mm x 0.01mm Graduations

## Micrometer Inch

- Baked enamel finished frame.
- Measuring faces: Carbide
- Equipped with Ratchet Stop for constant measuring force



### CODE

103-177  
103-178  
103-179  
103-180  
103-181  
103-182

### SIZE

0-1" x .001" Graduations  
1-2" x .001" Graduations  
2-3" x .001" Graduations  
3-4" x .001" Graduations  
4-5" x .001" Graduations  
5-6" x .001" Graduations

## Micrometer Sets

- Sets of individual micrometers.
- Box of measuring standards included.



### CODE

103-904-10  
103-913-50  
103-914-50  
103-915-10

### SIZE

0-6" x .001" (Set of 6)  
0-150mm (Set of 6)  
0-300mm (Set of 12)  
150 - 300mm (Set of 6)

## Micrometer with Interchangeable Anvils

- Measuring face of the spindle is carbide tipped (standard model).
- Equipped with Ratchet Stop for constant measuring force.
- Measuring standards included.



### CODE

104-135A  
104-136A  
104-137  
104-138

### SIZE

0 - 150mm x 0.01mm Interchangeable Anvils  
150 - 300mm x 0.01mm Interchangeable Anvils  
0-6" x .001" Interchangeable Anvils  
6-12" x .001" Interchangeable Anvils

## Micrometer with Interchangeable Anvils (100mm)

- Measuring face of the spindle is carbide tipped (standard model).
- Equipped with Ratchet Stop for constant measuring force.
- Measuring standards included.



### CODE

104-139A  
104-140A  
104-141A  
104-142A  
104-143A  
104-144A  
104-149

### SIZE

0-100mm x 0.01mm Interchangeable Anvils  
100-200mm x 0.01mm Interchangeable Anvils  
200-300mm x 0.01mm Interchangeable Anvils  
300-400mm x 0.01mm Interchangeable Anvils  
400-500mm x 0.01mm Interchangeable Anvils  
500-600mm x 0.01mm Interchangeable Anvils  
0-4" x .001" Interchangeable Anvils

## Digit Micrometer

- Mechanical digit counter with 0.01mm resolution for quick and error-free reading.
- Measuring faces: Carbide
- Equipped with Ratchet Stop for constant measuring force.



### CODE

193-101  
193-102  
193-111  
193-112

### SIZE

0-25mm x 0.01mm  
25-50mm x 0.01mm  
0-25mm x 0.001mm  
25-50mm x 0.001mm

## Disk Micrometer

- Measuring the root tangent length of spur and helical gears.
- You can measure recessed features that are difficult to reach with a standard micrometer.



### CODE

123-101  
169-202

### SIZE

0-25mm x 0.01mm x 20mm Disk  
25-50mm x 0.01mm x 20mm Disk (Non Rotating Spindle)

## Digit Disk Micrometer

- Mechanical Digit micrometer
- Ratchet stop for constant force
- Supplied with setting standard (except for 0-25mm/0-1" models)



### CODE

223-101  
223-102

### SIZE

0-25mm x 20mm Disk  
25-50mm x 20mm Disk

## Digimatic Disk Micrometer

- Ratchet stop for constant force
- Supplied with setting standard (except for 0-25mm/0-1" models)
- Always use SR44 Batteries (938882)



### CODE

323-350-30

### SIZE

0-1" / 25mm x 20mm Disk

## Digimatic Micrometer

- Measuring faces: Carbide
- Constant-force device: ratchet stop
- Always use SR44 Batteries (938882)



### CODE

293-821-30  
293-831-30

### SIZE

0-25mm x 0.001mm Basic Model  
0-1" / 0-25mm x .00005"/0.001mm Basic Model

## Digimatic Micrometer Coolant Proof

- Measuring faces: Carbide
- Constant-force device: ratchet stop
- Always use SR44 Batteries (938882)



### CODE

293-230-30  
 293-231-30  
 293-240-30  
 293-241-30  
 293-242-30  
 293-243-30  
 293-330-30  
 293-331-30  
 293-332-30  
 293-340-30  
 293-341-30  
 293-342-30  
 293-343-30

### SIZE

0-25mm x 0.001mm Coolant Proof with Data Output  
 25-50mm x 0.001mm Coolant Proof with Data Output  
 0-25mm x 0.001mm Coolant Proof without Data Output  
 25-50mm x 0.001mm Coolant Proof without Data Output  
 50-75mm x 0.001mm Coolant Proof without Data Output  
 75-100mm x 0.001mm Coolant Proof without Data Output  
 0-1" / 25mm Coolant Proof with Data Output  
 1-2" / 25-50mm Coolant Proof with Data Output  
 2-3" / 50-75mm Coolant Proof with Data Output  
 0-1" / 250mm Coolant Proof without Data Output  
 1-2" / 25-50mm Coolant Proof without Data Output  
 2-3" / 50-75mm Coolant Proof without Data Output  
 3-4" / 75-100mm Coolant Proof without Data Output

## Digimatic Micrometer Set

- Measuring faces: Carbide
- Constant-force device: ratchet stop
- Set of 4 Digimatic Micrometers
- Always use SR44 Batteries



### CODE

293-961-30

### SIZE

(Set of 4) 0-4"/100mm Coolant Proof with Data Output

## Digimatic Micrometer with Interchangeable Anvils

- Inch / Metric reading
- Always use SR44 Batteries (938882)
- Measuring standards included
- Six anvils included



### CODE

340-351-30  
340-352-30

### SIZE

0 - 6" / 150mm  
6 - 12" / 150-300mm

## Digimatic Quantumikes

- Advanced pioneering technology has created the next generation of micrometer.
- Faster measurement is achieved by using a coarser thread which feeds the spindle by 2mm per revolution of the thimble. This increase in thread lead has been made possible thanks to new high precision thread-cutting and testing techniques.
- Always use SR44 Batteries (938882)



### CODE

293-140-30  
293-145-30  
293-146-30  
293-180-30  
293-181-30  
293-185-30  
293-186-30  
293-188-30

### SIZE

0 - 25mm Coolant Proof with Data Output  
0 - 25mm Coolant Proof without Data Output  
25 - 50mm Coolant Proof without Data Output  
0-1" / 25mm Coolant Proof with Data Output  
1-2" / 25-50mm Coolant Proof with Data Output  
0-1" / 25mm Coolant Proof without Data Output  
1-2" / 25-50mm Coolant Proof without Data Output  
3-4" / 75-100mm Coolant Proof without Data Output

## Adjustable Force Micrometer

- Ratchet mechanism in the thimble applies constant force to workpiece
- Compact and easy to handle
- Measuring force is adjustable (in steps) to suit various kinds of workpieces
- High accuracy measurement can be performed even by unskilled operators due to the repeatability of the automatically applied measuring force
- Always use SR44 Batteries (938882)



### CODE

227-211-20

### SIZE

0-15mm/.6" Adjustable Measuring Force Type



## Point Micrometer

- Pointed spindle and anvil for measuring the web thickness of drills, small grooves, keyways, and other hard-to-reach dimensions.
- All Mitutoyo micrometers are made from the highest quality material.
- All micrometers are fitted with either ratchet or friction thimbles for constant force measuring.
- Best possible repeatability is achieved from Mitutoyo Micrometers.



**CODE**

112-213

**SIZE**

0-25mm x 0.01mm 30 Degree points

## Digimatic Point Micrometer

- Pointed spindle and anvil for measuring the web thickness of drills, small grooves, keyways and other hard to reach dimensions.
- The measuring points are carbide tipped with a 0.3mm radius
- IP65 protection rated
- Equipped with a Ratchet Stop for constant measuring force
- Always use SR44 Batteries (938882)



**CODE**

342-361-30

**SIZE**

0-1"/25mm x 0.01mm 30 Deg points

## Tube Micrometer

- All Mitutoyo micrometers are made from the highest quality material.
- All micrometers are fitted with either ratchet or friction thimbles for constant force measuring.
- Best possible repeatability is achieved from Mitutoyo Micrometers.



**CODE**

115-115

115-215

115-253

**SIZE**

0-25mm x 0.01mm (Spherical/Flat Anvils)

0-25mm x 0.01mm (Spherical Anvils)

0-1" x .001" (Spherical Anvils)

## Digimatic Tube Micrometer

- IP65 water/dust protection
- Designed to measure the wall thickness of various tubing.
- With Ratchet Stop for constant force.
- With SPC output.
- With a standard bar except 0-25mm and 0-1in model.
- Supplied in fitted case.
- Always use SR44 Batteries (938882)



**CODE**

395-371-30

**SIZE**

0-1"/ 25mm (Spherical Anvils)

## Sheetmetal Micrometer

- Spherical Anvil & Spindle Measuring Faces.
- Ideal for measuring tube wall thickness.



### CODE

118-101  
118-103  
118-118

### SIZE

0-25mm x 0.01mm x 100mm Throat (Flat Anvils)  
0-25mm x 0.01mm x 300mm Throat (Flat Anvils)  
0-25mm x 0.01mm x 150mm Throat (Spherical Anvils)

## Universal Micrometer

- Measures tubing thickness, shoulder-edge distance, rivet head height, etc., interchangeable anvils (flat anvil, rod anvil, V-anvil).
- Equipped with Ratchet Stop for constant measuring force.



### CODE

117-101

### SIZE

0 - 25mm x 0.01mm Graduations

## Thread Micrometer

- All Mitutoyo micrometers are made from the highest quality material.
- All micrometers are fitted with either ratchet or friction thimbles for constant force measuring.
- Best possible repeatability is achieved from Mitutoyo Micrometers.



### CODE

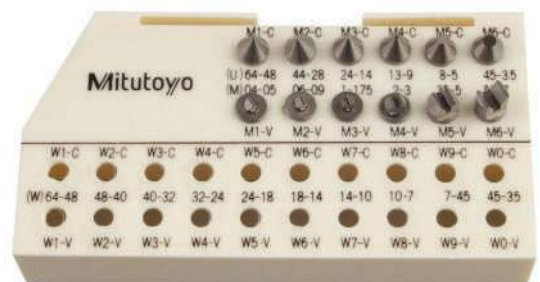
126-125  
126-126

### SIZE

0-25mm x 0.01mm Graduations  
25-50mm x 0.01mm Graduations

## Set of Interchangeable Anvils / Spindle Tips

- Interchangeable Anvil and Tip sets (60 Deg) to suit Series 126 and 326 Screw Thread Micrometers



### CODE

126-800

### SIZE

0.4mm-7mm P / 64-3.5 TPI

## Paper Thickness Micrometer

- Used for measuring the thickness of paper
- Has a non rotating spindle so no distortion of paper
- Equipped with a ratchet stop for constant measuring force (8.02N ± 0.8N)



### CODE

169-101

### SIZE

0-25mm x 0.01mm Graduations

## Can Seam Micrometer

- Measures the width, height and depth of steel can seams



### CODE

147-103

147-105

### SIZE

0-13mm (Steel)

0-13mm (Aluminium)

## Micrometer Stand

- Designed to allow benchtop use of hand micrometers or other gages which have frames suitable for gripping by the clamp.



### CODE

156-101-10

### SIZE

0-4 / 100mm

## Vernier Caliper

- Plain and basic design.
- Stepped graduation face prevents dust ingress between the main scale and slider.
- The small vernier face angle (14°) provides easy reading.
- Can measure outside and inside dimensions, depth, and steps.
- Decimal and fractional graduated scales (metric/inch and inch models only).



### CODE

530-100

530-104

530-114

530-115

530-312

530-118

530-119

### SIZE

0 - 100mm x 0.05mm Graduations

6" / 150mm x 1/128"/0.05mm Graduations

8" / 200mm x 1/128"/0.05mm Graduations

12" / 300mm x 1/128"/0.05mm Graduations

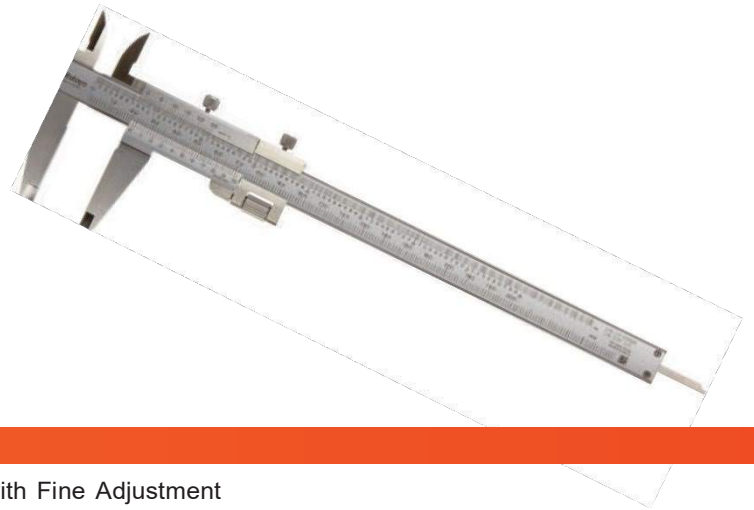
6" / 150mm x .001"/0.02mm Graduations

8" / 200mm x .001"/0.02mm Graduations

12" / 300mm x .001"/ 0.02mm Graduations

## Vernier Caliper with Fine Adjustment

- Vernier Caliper
- Internal and external measurement



### CODE

532-119  
532-120  
532-121

### SIZE

5" / 130mm with Fine Adjustment  
7" / 180mm with Fine Adjustment  
11" / 230mm with Fine Adjustment

## Dial Caliper

- Newly designed dial movement for ultra-smooth sliding and high shock protection.
- Titanium coating is applied to the sliding surfaces to enhance the durability (except for 0 - 300mm and 0 - 12" model).
- Large finger-rest aids ease-of-use.
- Jaw tips are relieved for easy measurement of thin parts.
- Can measure outside, inside, depth and steps.



### CODE

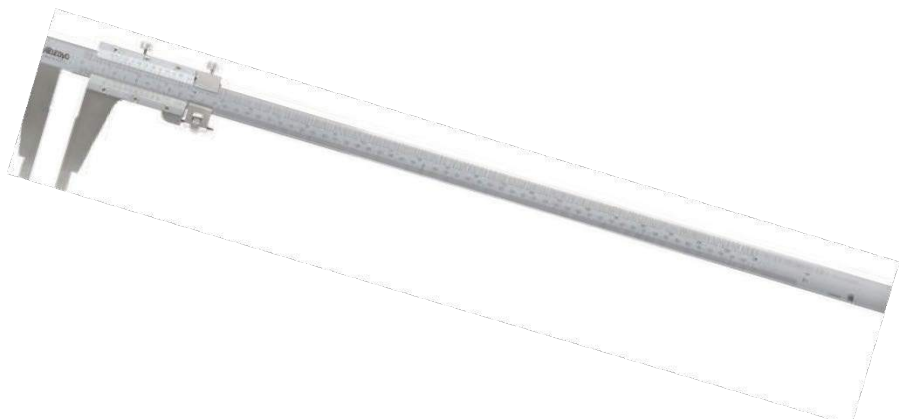
505-730  
505-731  
505-732  
505-733  
505-745  
505-740  
505-743  
505-749

### SIZE

150mm x 0.02mm Graduations  
200mm x 0.02mm Graduations  
150mm x 0.01mm Graduations  
200mm x 0.01mm Graduations  
300mm x 0.02mm Graduations  
6" x .001" Graduations  
8" x .001" Graduations  
12" x .001" Graduations

## Large Caliper

- Vernier Caliper
- Internal and external measurement



### CODE

160-151  
160-153  
160-155

### SIZE

18" / 450mm x .001" / 0.02mm Graduations  
24" / 600mm x .001" / 0.02mm Graduations  
40" / 1000mm x .001" / 0.02mm Graduations

## Long Jaw Caliper

- Vernier Caliper
- Internal and external measurement



### CODE

534-105  
534-106

### SIZE

12" / 300mm with 90mm long jaws  
20" / 500mm with 200mm long jaws

## Digimatic Caliper

- Electromagnetic induction system allows use in workshop conditions exposed to coolant, water, dust and oil."
- New ergonomic design with finger rest.
- The ZERO/ABS button allows the display to be Zero-Set at any slider position along the scale for comparison measurements. This button will also allow return to the absolute (ABS) mode and display of the true position from the origin (usually jaws closed point).
- Large and clear LCD readout.
- Smooth slider movement makes for comfortable operation.
- 18,000 hours battery life.
- Can measure outside, inside, depth and steps.
- Allows integration into statistical process control and measurement systems for models with measurement data output connector on some models.
- Always use SR44 Batteries (938882)



### CODE

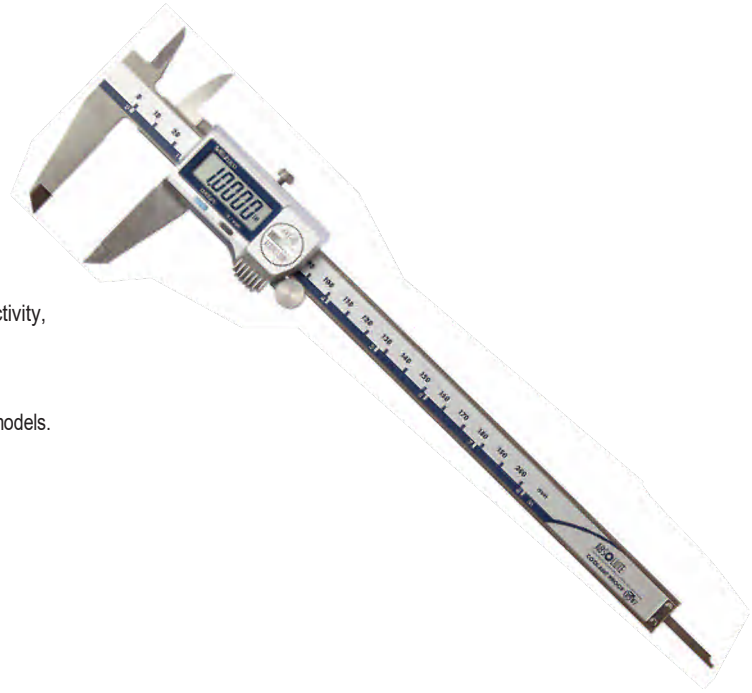
500-182-30  
500-196-30  
500-197-30  
500-193-30  
500-158-30  
500-170-30  
500-171-30  
500-172-30  
500-173-30  
500-500-10  
500-505-10  
500-506-10

### SIZE

0-200mm without Data Output  
6" / 150mm without Data Output  
8" / 200mm without Data Output  
12" / 300mm without Data Output  
0-150mm with Data Output  
4" / 100mm with Data Output  
6" / 150mm with Data Output  
8" / 200mm with Data Output  
12" / 300mm with Data Output  
0-450mm with Data Output  
18" / 450mm with Data Output  
24" / 600mm with Data Output

## Coolant Proof Digimatic Caliper

- Can be used in workshop conditions exposed to coolant, water, dust or oil. Dimensions, mass and price are the same as the conventional products. Also, 100% inspection by air leak test is performed.
- Large LCD characters make the display easy to read.
- Easy to use — advanced design styling with only 1 button.
- Incorporates the absolute measurement system. No need to reset the origin.
- The automatic power-on/off function shuts down the LCD display after 20 minutes inactivity, but the ABS scale unit origin is stored. Power is restored when the slider is moved.
- Can measure outside, inside, depth and steps.
- Can be integrated into statistical process control and measurement systems on some models.
- A convenient interface input tool is available so that measurement can be converted. to keyboard signals and input directly to commercial spreadsheet.
- An inspection certificate is supplied as standard.
- Always use SR44 Batteries (938882)



### CODE

500-752-20  
500-753-20  
500-754-20  
500-762-20  
500-763-20  
500-764-10

### SIZE

6" / 150mm without Data Output  
8" / 200mm without Data Output  
12"/300mm without Data Output  
6" / 150mm with Data Output  
8" / 200mm with Data Output  
12" / 300mm with Data Output

## Dial Gauges Series 1

- Compact dial indicators with bezel diameters of  $\varnothing 40\text{mm}$  for restricted-space applications in gaging jigs.



### CODE

1003T  
1044S  
1044SB  
1045S  
1410S  
1411S  
1411SB  
1911T-10

### SIZE

4mm x 0.01mm with 36mm Face  
5mm x 0.01mm 0-100 reading  
5mm x 0.01mm 0-100 reading with Flat Back  
5mm x 0.01mm 0-50-0 reading  
.25" x .001" 0-100 reading  
.25" x .001" 0-50-0 reading  
.25" x .001" 0-50-0 reading with Flat Back  
2.5mm x 0.01mm with 31mm Face

## Back Plunger Dial Gauge

- Compact dial indicators with bezel diameters of  $\phi 40\text{mm}$  for restricted-space applications in gaging jigs.



### CODE

1160T

### SIZE

5mm x 0.01mm Back Plunger Type

## Dial Gauges Series 2

- Long stroke dial indicators with a  $\phi 57\text{mm}$  outer frame. All the models are equipped with limit markers and a bezel clamp as standard.
- An O-ring is employed to ensure air-tightness between the outer frame and the crystal case to prevent water or oil penetration.
- Both the stem and the spindle are made of high-strength quench-hardened stainless steel suitable for heavy-duty use.



### CODE

2046S  
2048S-10  
2050S  
2052S  
2109S-10  
2118S-10  
2952S  
2358S-10  
2414S  
2416S  
2424S-19  
2805S-10  
2904S  
2922S  
2923S-10

### SIZE

10mm x 0.01mm  
10mm x 0.01mm with Adjustable Hand  
20mm x 0.01mm  
30mm x 0.01mm  
1mm x 0.001mm  
5mm x 0.001mm  
30mm x 0.01mm  
.5" x .0001"  
.5" x .001"  
1" x .001"  
2" x .001"  
.05" x .0001"  
1" x .001"  
.125" x .0005"  
.05" x .0001"

## Dial Gauges Series 3

- Bezel clamp and lifting lever (optional) can be fitted on either side of indicator
- Secure adhesion between the bezel and crystal as well as the use of an O-ring prevents water and oil penetration
- The stem is made of high strength stainless steel suitable for heavy duty use
- Carbide contact point
- Stainless steel grand gear for high resistance to wear and deformation
- Highly scratch resistant crystal



### CODE

### SIZE

3052S-19	30mm x 0.01mm
3058S-19	50mm x 0.01mm
3062S-19	100mm x 0.01mm

## Dial Test Indicators

- Provides easy access to shrouded surfaces that cannot be reached with conventional dial indicators.
- No-clutch structure for automatic reversal of measuring direction.
- Resistant to water and dust thanks to the one-piece bezel and O-ring seal for the crystal.
- The glare-free fat crystal face has a scratch-resistant coating.
- High sensitivity and quick response due to low-friction jeweled bearings.



### CODE

### SIZE

513-401-10E	0.14mm x 0.001mm Basic Set
513-402-10E	.0005" x 0.03" Basic Set
513-402-10T	.0005" x .03" Full Set
513-404-10E	0.01mm x 0.8mm Basic Set
513-404-10T	0.01mm x 0.8mm Full Set
513-406-10E	.0005" x .03"/0.01mm x 0.7mm Basic Set
513-406-10T	.0005" x .03" / 0.01mm x 0.7mm Full Set
513-412-10E	.03" x .0005" Basic Set
513-415-10E	1mm x 0.01mm Basic Set
513-425-10E	0.6mm x 0.002mm Basic Set
513-454-10E	0.8mm x 0.01mm Basic Set
513-464-10E	0.8mm x 0.01mm Basic Set
513-474-10E	0.8mm x 0.01mm Basic Set



## Dial Test Indicators Pocket Type

- Jeweled bearings assure higher sensitivity and accuracy
- Indicator can be mounted by clamping the stem or the body
- Reversible measuring function
- Fully adjustable bezel/dial face
- Stylus is adjustable within 220°
- Bezel is sealed with an O-ring to keep out water and oil



### CODE

513-501E  
513-515T  
513-517T  
513-518T

### SIZE

0.14mm x 0.001mm Basic Set  
1.0mm x 0.01mm Full Set  
0.8mm x 0.01mm Full Set  
.04" x .001" Full Set

## Digimatic Indicators ID-C (Peak)

- GO / NG judgement is performed by setting the upper and lower tolerances for max., min. and runout values.
- High speed sampling ration of 50 times/s
- Employing the absolute linear encoder, the Signal ID-C always displays the spindle "Absolute Position" from the origin at power-on
- Always use SR44 Batteries (938882)



### CODE

543-301

### SIZE

12.7mm / .5" Peak Value Hold Type (JIS)

## Digimatic Indicators ID-C (Bore Gauge)

- FAST measurement frequency allows the user to increase the number of readings per second from 10 to 50
- The minimum value holding function provides the easy of detection of hole diameter.
- An analog bar indicator is integrated to enhance the intuition in reading.
- GO / NG judgment is performed by setting the upper and lower tolerances.
- Simple operation of many functions using 5 buttons and status icons
- Measurement data memory function (9 measurement results can be stored)
- Wide LCD and new analog bar graph are now standard on all models
- Always use SR44 Batteries (938882)



### CODE

543-311B

### SIZE

12.7mm / .5" x 0.001mm Bore Gauge Type Flat Back (JIS)

## Digimatic Indicators ID-C

- The ABS (ABSOLUTE) sensor restores the last origin position automatically when the indicator is turned on.
- High reliability by eliminating over speed errors.
- Large LCD display.
- Equipped with data output port that enables incorporation into measurement networking and statistical process control systems.
- Always use SR44 Batteries (938882)



543-390	12mm x 0.001mm (JIS)
543-390B	12mm x 0.001mm Flat Back (JIS)
543-392	12.7mm / .5" x 0.001mm / .00005" (ANSI)
543-392B	12.7mm / .5" x 0.001mm / .00005" Flat Back (ANSI)
543-394B	12mm x 0.001mm Low Force Type Flat Back (JIS)
543-400	12mm x 0.01mm (JIS)
543-401	12.7mm / .5" x 0.01mm / .0005" (JIS)
543-401B	12.7mm / .5" x 0.01mm / .0005" Flat Back (JIS)
543-402	12.7mm / .5" x 0.01mm / .0005" (ANSI)
543-402B	12.7mm / .5" x 0.01mm / .0005" Flat Back (ANSI)

## Digimatic Indicators ID-C (25mm)

- Supplied as a fat back.
- The ABS (absolute) sensor restores the last origin position automatically when the indicator is turned on. Thanks to Mitutoyo's ABSOLUTE Linear Encoder, reliability has been increased due to elimination of over-speed errors.
- ID-C models have a battery life of approx 7000 hours.
- Always use SR44 Batteries (938882)



CODE	SIZE
543-471B	25.4mm / 1" x 0.001mm / .00005" Flat Back (JIS)
543-475B	25.4mm / 1" x 0.001mm / .00005" Flat Back (JIS)

## Digimatic Indicators ID-C (50mm)

- Supplied as a fat back.
- The ABS (absolute) sensor restores the last origin position automatically when the indicator is turned on. Thanks to Mitutoyo's ABSOLUTE Linear Encoder, reliability has been increased due to elimination of over-speed errors.
- ID-C models have a battery life of approx 7000 hours.
- Always use SR44 Batteries (938882)



CODE	SIZE
543-491B	50mm / 2" travel x 0.001mm / .00005" Flat Back (JIS)
543-495B	50mm / 2" travel x 0.01mm / .0005" Flat Back (JIS)
543-496B	50mm / 2" travel x 0.01mm / .0005" Flat Back (ANSI)

## Digimatic Indicator ID-F

- The ABS (ABSOLUTE) sensor restores the last origin position automatically when the indicator is turned on.
- High reliability by eliminating over speed errors.
- Large LCD display.
- Equipped with data output port that enables incorporation into measurement networking and statistical process control systems.
- Always use SR44 Batteries (938882)



### CODE

### SIZE

554-552E  
543-554E

25mm/1" x Multi Resolutions (ANSI)  
50.8mm / 2" x Multi Resolutions (ANSI)

## Digimatic Indicator ID-H

- The ABS (ABSOLUTE) sensor restores the last origin position automatically when the indicator is turned on.
- High reliability by eliminating over speed errors.
- Large LCD display.
- Equipped with data output port that enables incorporation into measurement networking and statistical process control systems.
- Always use SR44 Batteries (938882)



### CODE

### SIZE

543-562E  
543-564E

30.4mm/1.2" x Multi Resolutions (ANSI)  
60.9mm / 2.4" x Multi Resolutions (ANSI)

## Digimatic Indicator ID-N

- The ABS (ABSOLUTE) sensor restores the last origin position automatically when the indicator is turned on.
- High reliability by eliminating over speed errors.
- Large LCD display.
- Equipped with data output port that enables incorporation into measurement networking and statistical process control systems.
- Always use SR44 Batteries (938882)



### CODE

### SIZE

543-571

12.7mm / .5" x 0.01mm / .0005" Slim Type IP66 (ANSI)

## Digimatic Indicator ID-B

- The ABS (ABSOLUTE) sensor restores the last origin position automatically when the indicator is turned on.
- High reliability by eliminating over speed errors.
- Large LCD display.
- Equipped with data output port that enables incorporation into measurement networking and statistical process control systems.
- Always use SR44 Batteries (938882)



### CODE

543-581

### SIZE

5mm / .2" x "0.01mm / .0005" Back Plunger Type (ANSI)

## Digimatic Indicators ID-S

- The ABS (ABSOLUTE) sensor restores the last origin position automatically when the indicator is turned on.
- High reliability by eliminating over speed errors.
- Large LCD display.
- Equipped with data output port that enables incorporation into measurement networking and statistical process control systems.
- Always use SR44 Batteries (938882)



### CODE

543-782

543-783

543-783B

543-790B

543-791

543-792B

### SIZE

12.7mm / .5" x 0.01mm / .0005" (JIS)

12.7mm / .5" x 0.01mm / .0005" (ANSI)

12.7mm / .5" x 0.01mm / .0005" Flat Back (ANSI)

12.7mm x 0.001mm (JIS)

12.7mm / .5" x 0.001mm / .00005" (JIS)

12.7mm / .5" x 0.001mm / .00005" Flat Back (ANSI)

## Digimatic Indicator ID-U

- The ABS (ABSOLUTE) sensor restores the last origin position automatically when the indicator is turned on.
- High reliability by eliminating over speed errors.
- Large LCD display.
- Equipped with data output port that enables incorporation into measurement networking and statistical process control systems.
- Always use SR44 Batteries (938882)



### CODE

575-12

### SIZE

25.4mm / 1" x 0.01mm / .0005" Slim Economic Type (ANSI)

## Magnetic Base Stands (Standard)

- Mitutoyo's Magnetic Stands accept all dial indicators and dial test indicators (with stem  $\varnothing 6$  or  $\varnothing 8$ ) and clamp to iron or steel surfaces with a strong magnetic force.



### CODE

7010S-10  
7011S-10

### SIZE

Mitutoyo Magnetic Stand  
Mitutoyo Magnetic Stand with Fine Adjustment

## Magnetic Base Stands (Flexible)

- Mitutoyo's Magnetic Stands accept all dial indicators and dial test indicators (with stem  $\varnothing 6$  or  $\varnothing 8$ ) and clamp to iron or steel surfaces with a strong magnetic force.



### CODE

7012-10

### SIZE

Mitutoyo Magnetic Stand Flexible Type

## Magnetic Base Stands (Mini)

- Mitutoyo's Magnetic Stands accept all dial indicators and dial test indicators (with stem  $\varnothing 6$  or  $\varnothing 8$ ) and clamp to iron or steel surfaces with a strong magnetic force.



### CODE

7014 -10

### SIZE

Mitutoyo Magnetic Stand Mini Type

## Magnetic Base Stands (One Lock)

- Mitutoyo's Magnetic Stands accept all dial indicators and dial test indicators (with stem  $\varnothing 6$  or  $\varnothing 8$ ) and clamp to iron or steel surfaces with a strong magnetic force.



**CODE**

7033B

**SIZE**

Mitutoyo Magnetic Stand One Mechanical Lock Type

## Gauge Stand

- Fine vertical adjustment is available with one touch control
- Dial gauge stand designed for comparison measurements of size using a dial or digimatic indicator



**CODE**

7002-10

**SIZE**

Mitutoyo Dial/Digimatic Gauge Stand Flat Anvil Type

## Depth Micrometer

- General purpose depth measuring micrometer
- 4mm diameter measuring faces
- Ratchet stop for constant force



**CODE**

128-101  
128-102  
128-105

**SIZE**

0-25mm x 63mm base  
0-25mm x 100mm base  
0-1" x 2.5" base

## Depth Micrometer

- General purpose depth measuring micrometer
- 4mm diameter measuring faces
- Ratchet stop for constant force



### CODE

129-110  
129-111  
129-112  
129-115  
129-116  
129-127  
129-128  
129-132  
129-150  
129-153  
329-350-30

### SIZE

0-75mm x 63mm base  
0-100mm x 63mm base  
0-150mm x 63mm base  
0-100mm x 100mm base  
0-150mm x 100mm base  
0-4" x 2.5" base  
0-6" x 2.5" base  
0-6" x 4" base  
0-12" x 4" base  
0-300mm x 100mm base  
0-6" / 150mm x 4" base

## Digital Depth Micrometer

- With ratchet stop for constant force.
- With measuring rod clamp.
- With SPC output.
- With digit counter.
- Supplied in fitted plastic case.



### CODE

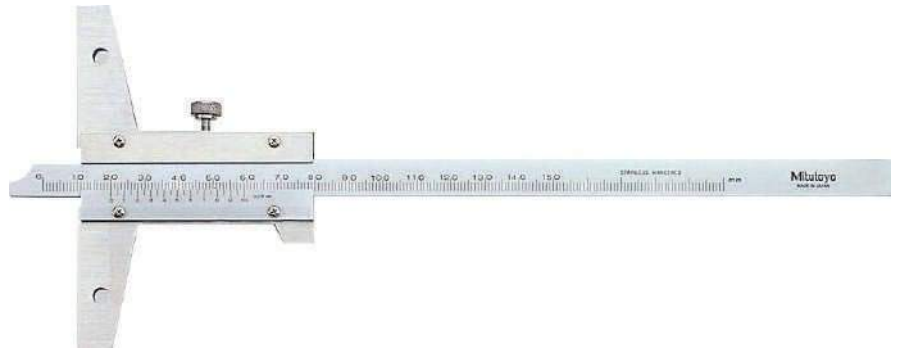
329-350-30

### SIZE

0-6"/150mm x 4" base

## Depth Gauge

- Made of hardened stainless steel.
- Base and measuring faces are hardened and micro-lapped.
- Optional wider extension base are available. (up to 450mm range models)



**CODE**

527-202

**SIZE**

0-200mm x 0.02mm

## Digimatic Depth Gauge

- Optimal tool for measuring holes, narrow grooves and step measurement
- Always use SR44 Batteries (938882)



**CODE**

547-211

547-217S

**SIZE**

0-200mm x 0.01mm

0-200mm / 8" x 0.01mm/.0005"

## Digimatic Depth Gauge (Caliper Type)

- ABSOLUTE encoder technology.
- Use only SR44 Battery (938882).  
Battery life expectation of 20,000 hours under normal use



**CODE**

571-211-30

571-212-30

**SIZE**

200mm / 6" x 0.02mm / .001"

200mm / 8" x 0.02mm / .001"



## Depth Gauge Base

- Attaching this depth gauge to the depth measurement face of the calipers can provide more accurate depth measurements



### CODE

### SIZE

050083-10

75mm

050084-10

100mm

## Inside Micrometer (Rod Type)

- Wide range of inside measurements possible by combining extension rods and anvils with the measuring heads
- The sleeve is rotated to adjust the index line position when setting to a length standard



### CODE

### SIZE

137-011

50-63mm Extension Rod Type

137-201

50-150mm Extension Rod Type

137-202

50-300mm Extension Rod Type

137-203

50-500mm Extension Rod Type

137-204

50-1000mm Extension Rod Type

137-205

50-1500mm Extension Rod Type

137-212

2-12" Extension Rod Type

## Inside Micrometer

- Wide range of inside measurements possible by combining extension rods and anvils with the measuring heads
- The sleeve is rotated to adjust the index line position when setting to a length standard



### CODE

### SIZE

141-101

25-50mm Interchangeable Anvil Type

141-025

50-63mm Interchangeable Anvil Type

141-205

50-200mm Interchangeable Anvil Type

141-206

50-300mm Interchangeable Anvil Type

141-118

200-1000mm Interchangeable Anvil Type

141-102

1-2" Interchangeable Anvil Type

141-026

2-2.5" Interchangeable Anvil Type

141-208

2-8" Interchangeable Anvil Type

141-233

2-12" Interchangeable Anvil Type

## Inside Micrometer Caliper Type

- Carbide Measuring faces
- Fitted with ratchet stop for constant force
- An inside length standard is required for accurately setting the micrometer



### CODE

145-185

### SIZE

5-30mm

## Bore Gauge

- This model reduces the influence of heat from the operators hand by 50% by increasing the grip size and making the grip hollow-structured, thereby retaining high-accuracy measurement.
- Optional extension rods can be attached for measuring deep holes
- Now offers a longer plunger stroke while maintaining original accuracy
- Carbide is used for the contact point ensuring high durability and wear resistant



### CODE

511-711  
511-712  
511-713  
511-721  
511-722  
511-723  
511-743  
511-753  
511-921

### SIZE

18-35mm x 0.01mm  
35-60mm x 0.01mm  
50-150mm x 0.01mm  
18-35mm x 0.001mm  
35-60mm x 0.001mm  
50-150mm x 0.001mm  
2-6" x .0005"  
2-6" x .0001"  
18-150mm x 0.01mm (3 Probes)

## Digimatic Bore Gauge

- This model reduces the influence of heat from the operators hand by 50% by increasing the grip size and making the grip hollow-structured, thereby retaining high-accuracy measurement.
- Optional extension rods can be attached for measuring deep holes
- Now offers a longer plunger stroke while maintaining original accuracy
- Carbide is used for the contact point ensuring high durability and wear resistant
- Always use SR44 Batteries (938882)



CODE	SIZE
511-521	45-100mm / 1.8-4"

## Thickness Gauge

- Digital thickness gauges can quickly measure the thickness of thin products such as paper and felt
- Contact point and anvil are both made of Ceramic (except 543-400 series)
- Integrated moulding of the bezel and crystal ensures protection against water and oil penetration via the front face
- Standard accuracy type



CODE	SIZE
7300S	0-4" x .001"
7301	0-10mm x 0.01mm
7305	0-20mm x 0.01mm
7327	0-1 mm x 0.001mm High Accuracy Type

## Thickness Gauge (Deep Throat)

- Digital thickness gauges can quickly measure the thickness of thin products such as paper and felt
- Contact point and anvil are both made of Ceramic (except 543-400 series)
- Integrated moulding of the bezel and crystal ensures protection against water and oil penetration via the front face
- Standard accuracy type



CODE	SIZE
7323	0-20mm x 0.01mm Deep Throat Type

## Digimatic Thickness Gauge

- Digital thickness gauges can quickly measure the thickness of thin products such as paper and felt
- Contact point and anvil are both made of Ceramic (except 543-400 series)
- Integrated moulding of the bezel and crystal ensures protection against water and oil penetration via the front face
- Standard accuracy type
- Always use SR44 Batteries (938882)



**CODE**

**SIZE**

547-300S

10mm / .4" x 0.01mm / .0005"

## Digimatic Thickness Gauge (Tube Type)

- Digital thickness gauges can quickly measure the thickness of thin products such as paper and felt
- Contact point and anvil are both made of Ceramic (except 543-400 series)
- Integrated moulding of the bezel and crystal ensures protection against water and oil penetration via the front face
- Standard accuracy type
- Always use SR44 Batteries (938882)



**CODE**

**SIZE**

547-360

10mm x 0.01mm Tube Type

## Digimatic Thickness Gauge (High Accuracy)

- Digital thickness gauges can quickly measure the thickness of thin products such as paper and felt
- Contact point and anvil are both made of Ceramic (except 543-400 series)
- Integrated moulding of the bezel and crystal ensures protection against water and oil penetration via the front face
- Standard accuracy type
- Always use SR44 Batteries (938882)



**CODE**

**SIZE**

547-400S

12.7mm / .5" x 0.001mm / .00005" High Accuracy Type

## Digimatic Thickness Gauge (Deep Throat)

- Digital thickness gauges can quickly measure the thickness of thin products such as paper and felt
- Contact point and anvil are both made of Ceramic (except 543-400 series)
- Integrated moulding of the bezel and crystal ensures protection against water and oil penetration via the front face
- Standard accuracy type
- Always use SR44 Batteries (938882)



**CODE**

547-321

**SIZE**

10mm x 0.01mm Deep Throat Type

## Quickmini Thickness Gauge

- Lightweight and palm sized.
- Set measuring force guarantees consistent results.
- Highly suitable for quick dimensional inspection of small, thin and delicate objects.
- Application examples include: Pearls, jewels, shims for engine tappets and screws.
- Measurement of thin objects: printing paper, polyethylene bags etc.
- Always use SR44 Batteries (938882)



**CODE**

700-118-30

**SIZE**

12mm/.5"

## Small Hole Gauge Set

- Extra long for gaging deep and shallow holes, slots, and similar workpiece features.
- Two sprung leaves are fully expanded inside a feature so that its size can be measured with an outside micrometer after extraction.



**CODE**

154-902

**SIZE**

3-13mm

## Telescopic Gauges

- A spring-loaded plunger expands within a bore (or groove) and is locked in place, allowing measurement of diameter (or width) with an outside micrometer after extraction.



CODE	SIZE
155-127	8-12.7mm (AA)
155-128	12.7-19mm (A)
155-129	19-32mm (B)
155-130	32-54mm C
155-131	54-90mm (D)
155-132	90-154mm E
155-905	Set 8-150mm

## Feeler Gauge Sets

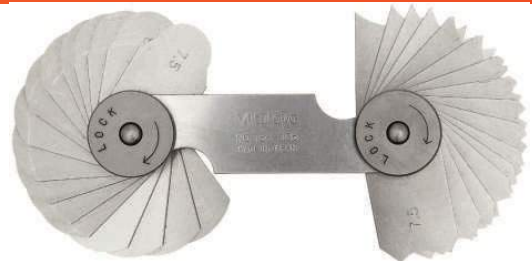
- Metric thickness gauges are available with tapered leaves
- Each leaf is marked with its thickness
- Each leaf is detachable if necessary



CODE	SIZE
184-303S	0.05-1.0mm 28 Pc Long Leaf
184-304S	0.05-1.0mm 13 Pc
184-305S	0.05-1.0mm 20 Pc Long Leaf

## Radius Gauge Sets

- Radius size stamped on each leaf
- Each leaf comprises an internal and an external radius gauge of the same size
- Each set includes a locking clamp



CODE	SIZE
186-101	1 / 32" - 1 / 4"
186-103	1 / 32" - 17 / 64"
186-104	9 / 32" - 33 / 64"
186-105	1-7mm
186-106	7.5-15mm
186-107	15.5-25mm
186-110	0.4-6mm
186-902	0.5mm-13mm

## Thread Pitch Gauge Sets

- Thread pitch is stamped on each leaf
- Metric, Unified and Whitworth form gauges available



CODE	SIZE
188-101	4-42 TPI 55 Deg
188-102	4-60 TPI 55 Deg
188-111	4-42 TPI 60 Deg
188-122	0.4-7mm 60 Deg
188-151	0.4-7mm / 4-42 TPI 60 Deg

## Protractor

- High precision instrument for accurate angle measurement on machines, moulds and jigs
- Can be attached to height gauges
- Graduations 5 secs



CODE	SIZE
187-501	150mm Digital
187-502	300mm Digital
187-901	300mm

## Digital Protractor

- Full 360° range (90° x 4)
- Machined Aluminium Frame
- Alternative reference
- Reading hold
- Simple calibration requiring no special fixtures



CODE	SIZE
950-317	0.1 degree (PRO360)
950-318	0.01 degree (PRO3600)

## Height Gauge

- Fits comfortably in the hand.
- Moves easily on the surface plate.
- Large locking knobs.
- Large main scale enlarging for fatigue free working.
- Inch / Metric Reading.



### CODE

514-103

### SIZE

12"/300mm Vernier Type

## Digimatic Height Gauge

- Slide adjustment wheel for smooth elevation.
- Large slider clamp lever ensures positive and accurate clamping actions.
- Absolute scale function
- Data output facility
- Always use SR44 Batteries (938882)



### CODE

570-312

570-313

570-314

### SIZE

12" / 300mm x .0005" / 0.01mm Resolutions

18" / 450mm x .0005" / 0.01mm Resolutions

24" / 600mm x .0005" / 0.01mm Resolutions



## Digimatic Height Gauge

- Easy-to-use standard type.
- Double-column structure ensures high measuring accuracy.
- Ergonomic base fits comfortably in the hand.
- Bidirectional touch-trigger probe is available as an optional accessory.
- Character height of the LCD display has been increased (10mm to 11mm) and a high-contrast LCD display unit adopted, so that the readability is improved.
- Inclined handle improves slider ergonomics.
- Allows integration into statistical process control and measurement systems.
- Always use SR44 Batteries (938882)



CODE	SIZE
192-670-10	12" / 300mm x Multi Resolutions

## Surftest

- Easy operation surface roughness tester
- Used in quality control rooms or the factory floor
- Very portable with battery or mains power options
- Range of styli available



CODE	SIZE
178-561-01E	SJ-210 0.75mN Type

## Pocket Comparator

- By replacing optional reticles, dimensional, angle and other types of measurement can be performed
- Used in conjunction with series 183 Pocket Comparatror
- An optional illuminator is also available (950757)



CODE	SIZE
183-131	10x Magnification
183-103	Reticle to suit
183-104	Reticle to suit
183-105	Reticle to suit
183-108	Reticle to suit
183-109	Reticle to suit

## Illuminator

- Optional Illuminator to be used with 183-101, 183-121 and 183-131 Pocket comparators



### CODE

950757

### SIZE

Mitutoyo Illuminator for Pocket Comparator

## Pocket Magnifier

- Series 183 Pocket Magnifier Pen Type
- Suitable for checking metal surfaces
- Also ideal for checking carbide insert wear



### CODE

183-201

183-202

183-203

### SIZE

Mitutoyo Pocket Magnifier 25x

Mitutoyo Pocket Magnifier 25x with stand

Mitutoyo Pocket Magnifier 50x

## Clear Loupe

- Series 183 Clear Loupe



### CODE

183-302

183-303

### SIZE

10x Magnification

15x Magnification

## Digital Read Outs

- High performance, low cost 2 axis digital counter
- The KA style counter has both mill and lathe functions, as well as standard functions
- RS232 interface (optional) is available as an external interface
- Now lighter and takes less space



### CODE

174-183E  
174-185E

### SIZE

Mitutoyo KA Digital Read Out Counter 2 Axis  
Mitutoyo KA Digital Read Out Counter 3 Axis

## Linear Scales

- Uses an Absolute® electromagnetic induction system to achieve IP67 environmental resistance
- Detects and outputs the absolute position - no reference point setup needed at each power on
- Abnormal calculations do not occur as a result of electronic noise
- Very suitable scale for mounting on lathes and milling machines and other machining tools with difficult mounting positions
- Consult technical manual for overall lengths and mounting details



### CODE

539-802  
539-803  
539-804  
539-805  
539-806  
539-807  
539-808  
539-809  
539-811  
539-813  
539-815  
539-816  
539-817  
539-819  
539-820  
539-822  
539-825  
539-860

### SIZE

150mm Coolant Proof  
200mm Coolant Proof  
250mm Coolant Proof  
300mm Coolant Proof  
350mm Coolant Proof  
400mm Coolant Proof  
450mm Coolant Proof  
500mm Coolant Proof  
600mm Coolant Proof  
700mm Coolant Proof  
800mm Coolant Proof  
900mm Coolant Proof  
1000mm Coolant Proof  
1200mm Coolant Proof  
1300mm Coolant Proof  
1500mm Coolant Proof  
1800mm Coolant Proof  
2000mm Coolant Proof



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06 758 5133

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07 847 4994

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