

# Mitutoyo

**KEY PRODUCT GUIDE  
NEW ZEALAND 2023**

**HOBEC**

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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

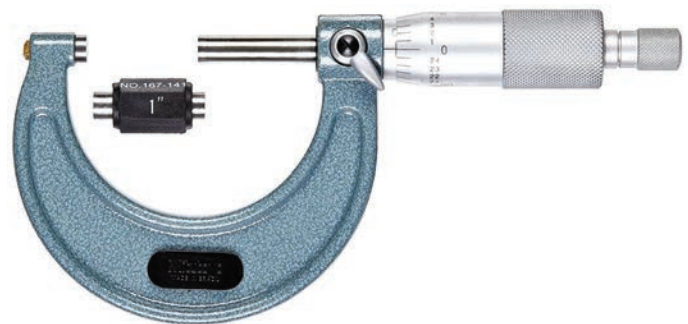
103-137  
103-138  
103-139-10  
103-140-10  
103-141-10  
103-142-10  
103-143-10  
103-144-10  
103-145-10  
103-146-10  
103-147-10  
103-148-10

### 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

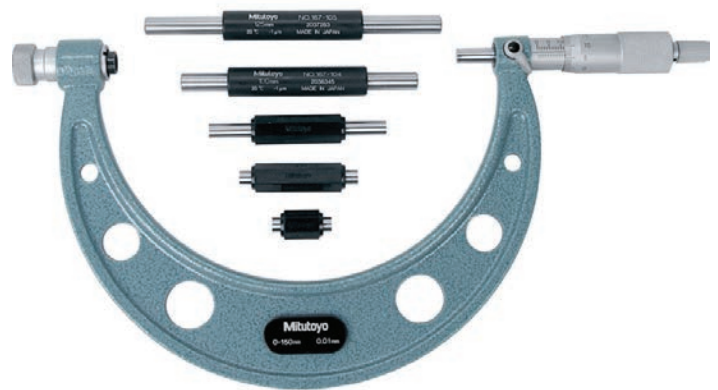
104-135A  
104-136A  
104-137  
104-138

### 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	SIZE
104-139A	0-100mm x 0.01mm Interchangeable Anvils
104-140A	100-200mm x 0.01mm Interchangeable Anvils
104-141A	200-300mm x 0.01mm Interchangeable Anvils
104-142A	300-400mm x 0.01mm Interchangeable Anvils
104-143A	400-500mm x 0.01mm Interchangeable Anvils
104-144A	500-600mm x 0.01mm Interchangeable Anvils
104-149	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	SIZE
193-101	0-25mm x 0.01mm
193-102	25-50mm x 0.01mm
193-111	0-25mm x 0.001mm
193-112	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	SIZE
123-101	Disk Micrometer 0-25mm x 0.01mm x 20mm Disk
169-202	Disk Micrometer 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  
323-351-30

### SIZE

0-1"/25mm x 20mm Disk  
1-2"/25-50mm 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	SIZE
340-351-30	0-6"/150mm Interchangeable Anvils
340-352-30	6-12"/300mm Interchangeable Anvils

## 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	SIZE
293-140-30	0 - 25mm Coolant Proof with Data Output
293-145-30	0 - 25mm Coolant Proof without Data Output
293-146-30	25 - 50mm Coolant Proof without Data Output
293-180-30	0-1"/25mm Coolant Proof with Data Output
293-185-30	0-1"/25mm Coolant Proof without Data Output

## 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	SIZE
112-213	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 0.001mm 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 fitter 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

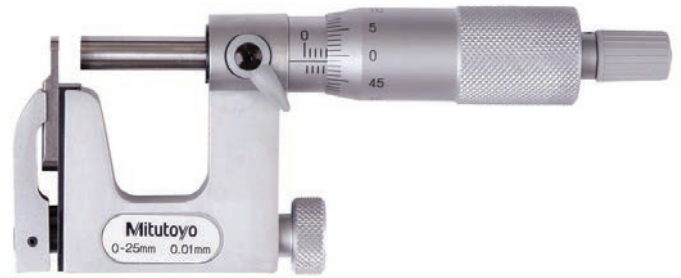
0-25mm x 0.01mm x 100mm Throat (Flat Anvils)

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

## 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

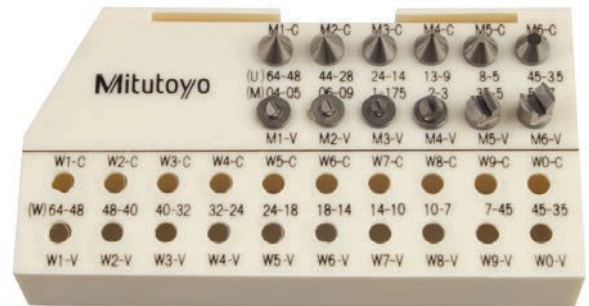
### SIZE

0-25mm x 0.01mm

25-50mm x 0.01mm

## 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

Set of interchangeable anvils/spindle tips (Metric/Unified)

## 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

## Can Seam Micrometer

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



CODE	SIZE
147-103	0-13mm (Steel)
147-105	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	SIZE
156-101-10	0-4/100mm

## Vernier Caliper

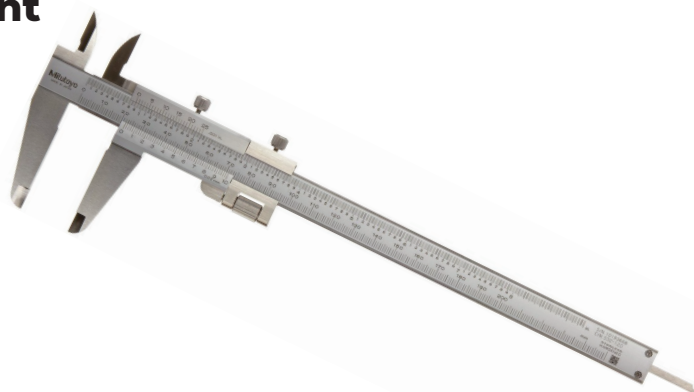
- Plain and basic design.
- Stepped graduation face prevents dust ingress between the main scale and slider.
- The small vernier face angle (14°) provides easy reading.
- Can measure outside and inside dimensions, depth, and steps.
- Decimal and fractional graduated scales (metric/inch and inch models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



CODE	SIZE
530-100	0 - 100mm x 0.05mm
530-104	6"/150mm x 1/128" / 0.05mm
530-114	8"/200mm x 1/128" / 0.05mm
530-115	12"/300mm x 1/128" / 0.05mm
530-312	6"/150mm x .001"/0.02mm
530-118	8"/200mm x .001"/0.02mm
530-119	12"/300mm x .001"/0.02mm

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

## Large Caliper

- Vernier Caliper.
- Internal and external measurement.



### CODE

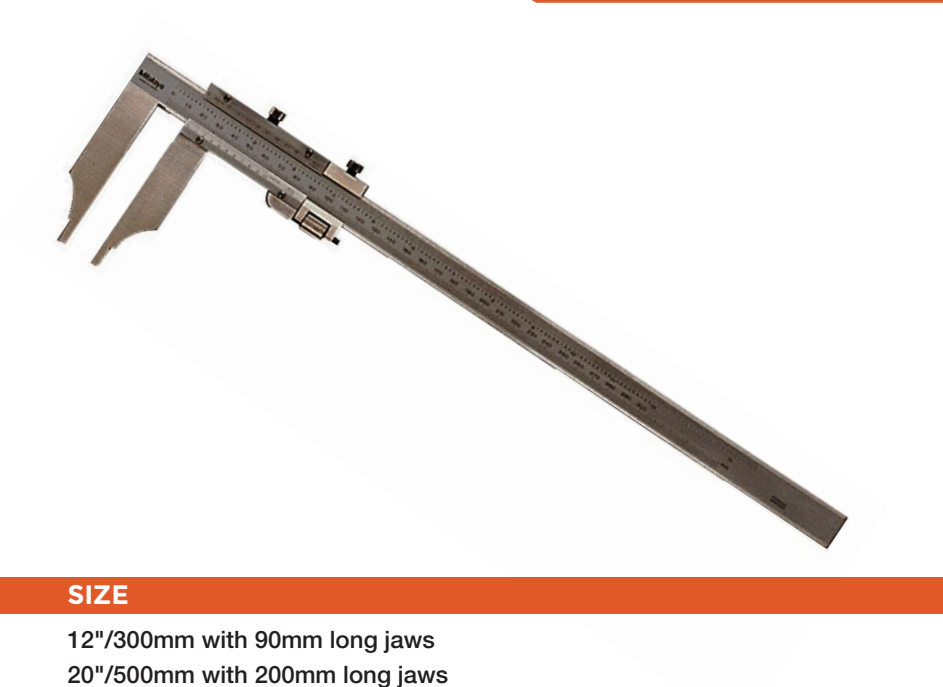
160-151  
160-153  
160-155

### SIZE

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

## Long Jaw Caliper

- Vernier Caliper.
- Internal and external measurement.



### CODE

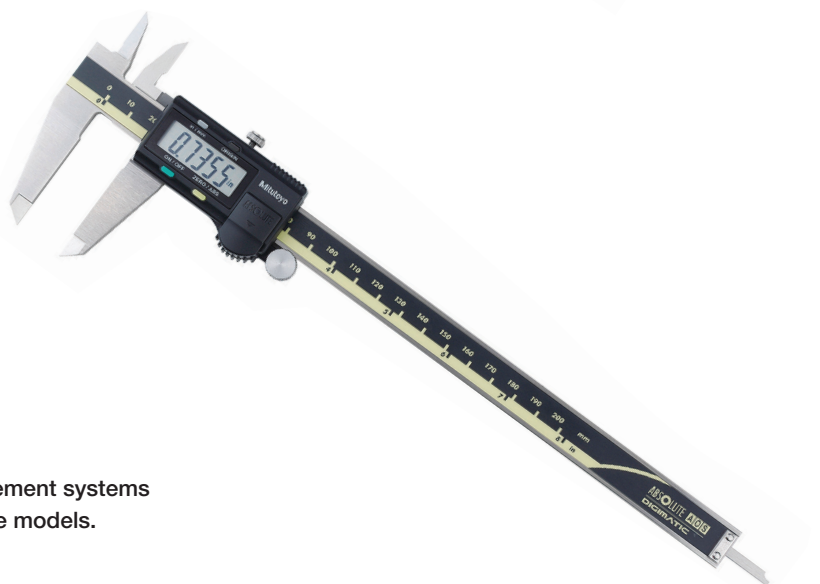
534-105  
534-106

### 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 and mass 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

1003A  
1044A  
1044AB  
1045A  
1410A  
1411A  
1411AB  
1911A-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  $\varnothing 40\text{mm}$  for restricted-space applications in gaging jigs.



### CODE

1160A

### SIZE

5mm x 0.01mm Back Plunger Type

## Dial Gauges Series 2

- Long stroke dial indicators with a  $\varnothing 57\text{mm}$  outer frame.
- 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

2046A  
2048A-10  
2050A  
2052A  
2109A-10  
2118A-10  
2952A  
2358A-10  
2414A  
2416A  
2424A-19  
2805A-10  
2904A  
2922A  
2923A-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 level (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
3052A-19	30mm x 0.01mm
3058A-19	50mm x 0.01mm
3062A-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 flat 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	.03" x .0005" Basic Set
513-402-10T	.03" x .0005" Full Set
513-404-10E	0.8mm x 0.01mm Basic Set
513-404-10T	0.8mm x 0.01mm Full Set
513-406-10E	.03" x .0005"/0.7mm x 0.01mm Basic Set
513-406-10T	.03" x .0005"/0.7mm x 0.01mm 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	SIZE
513-501-10E	0.14mm X 0.001mm Basic Set
513-515-10T	1.0mm x 0.01mm Full Set
513-517-10T	0.8mm x 0.01mm Full Set
513-518-10T	.001" x .04" 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	SIZE
543-301	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	SIZE
543-311B	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.



CODE	SIZE
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)
543-402B	12.7mm/.5" x 0.01mm/.0005" Flat Back (ANSI)

## Digimatic Indicators ID-C (25mm)

- Supplied as a flat 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.



CODE	SIZE
543-471B	25.4mm/1" x 0.001mm/.00005" Flat Back (JIS)
543-475B	25.4mm/1" x 0.01mm/.0005" Flat Back (JIS)

## Mitutoyo Digimatic Indicators ID-C (50mm)

- Supplied as a flat 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.



CODE	SIZE
543-731B	50.8mm/2" x 0.001mm/.00005" Flat Back (JIS)
543-495B	50.8mm/2" x 0.01mm/.0005" Flat Back (JIS)
543-496B	50.8mm/2" 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.



### CODE

543-852E  
543-854E

### SIZE

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.



### CODE

543-562E  
543-564E

### SIZE

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.



### CODE

543-571

### SIZE

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

## Digimatic Indicators ID-CNX (JIS)

- Supports bi-directional communication between the Indicator and the Computer.
- The ABS scale restores the last origin position automatically when the indicator is turned on, and realizes high reliability by eliminating over-speed errors.
- Tolerance judgement can be performed by setting upper and lower tolerance limits.
- An analogue bar indicator has been integrated to make upper and lower limit and turnover point reading more comfortable.
- CR2032 Battery life of approx 2.5 years under normal use.



### CODE

543-700B  
543-726B  
543-731B

### SIZE

12.7mm x 0.0005mm (Selectable) with flat back  
25.4mm/1.0" x 0.01mm/.0005" Standard Type with flat back  
50.8mm/2" x 0.0005mm/.00002" (Selectable) with flat back

## 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.



### CODE

543-782-10  
543-783-10  
543-783B-10  
543-790B-10  
543-791-10  
543-792B-10

### 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.



### CODE

575-123

### 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

Magnetic Stand

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

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

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

7033-10

### SIZE

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 digmatic indicator.



### CODE

7002-10

### SIZE

Dial/Digimatic Gauge Stand Flat Anvil Type

## Depth Micrometer (1"/25mm)

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



### CODE

128-101

128-102

128-105

### SIZE

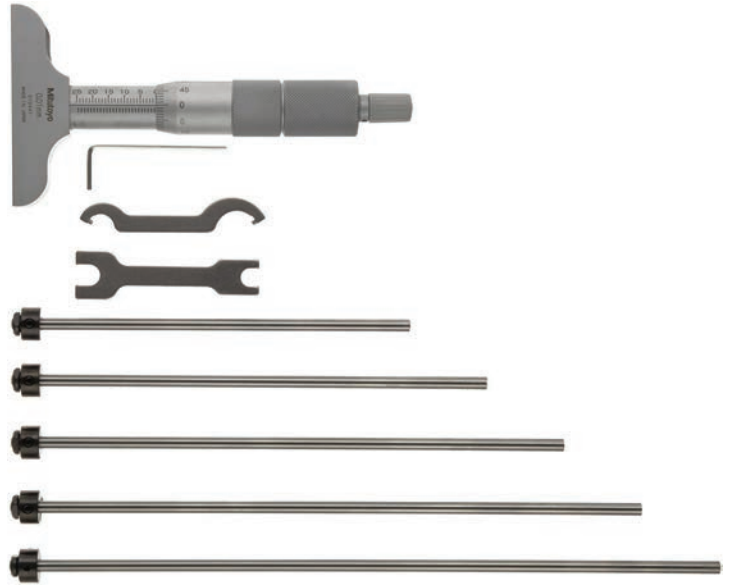
0-25mm x 63mm base

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

### SIZE

129-110	0-75mm x 63mm base
129-111	0-100mm x 63mm base
129-112	0-150mm x 63mm base
129-115	0-100mm x 100mm base
129-116	0-150mm x 100mm base
129-127	0-4" x 2.5" base
129-128	0-6" x 2.5" base
129-132	0-6" x 4" base
129-153	0-300mm x 100mm 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

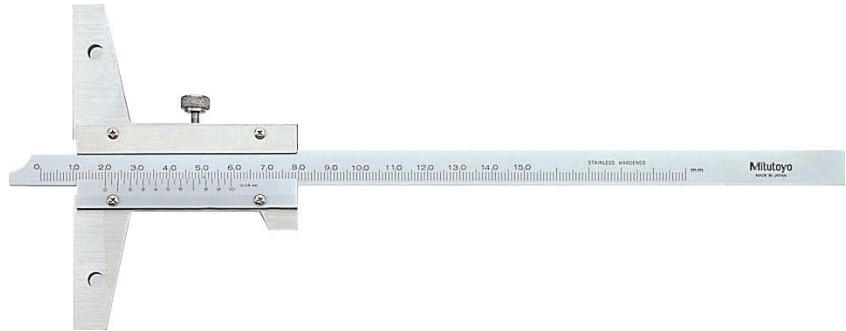
### SIZE

329-350-30	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.



### CODE

547-211A

547-217SA

### 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

150mm/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
137-212	2-12" Extension Rod Type

## Inside Micrometer

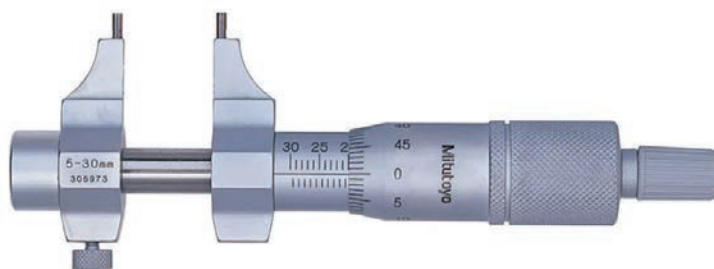
- Wide range of inside measurements possible by combining extension rods and anvils with the measuring heads
- The sleeve is rotated to adjust the index line position when setting to a length standard



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
141-102	1-2" 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

511-711-20  
511-712-20  
511-713-20  
511-721-20  
511-722-20  
511-723-20  
511-743-20  
511-753-20  
511-921-20

### SIZE

18-35mm x 0.01mm  
35-60 x 0.01mm  
50-150 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)

## 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

7301A

0-10mm x 0.01mm

7305A

0-20mm x 0.01mm

7327A

0-1mm 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

7323A

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.



### CODE

### SIZE

547-300A

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

## 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.
- High accuracy type.



### CODE

547-400A

### SIZE

12.7mm/.5" x 0.001mm/.0005" High Accuracy Type

## Quickmini Thickness Gauge

- Lightweight and palm sized.
- Set measuring force guarantees constant 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.



### CODE

700-118-30

### SIZE

12mm/.5"

## 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

155-127  
155-128  
155-129  
155-130  
155-131  
155-132  
155-905

### SIZE

8-12.7mm (AA)  
12.7-19mm (A)  
19-32mm (B)  
32-54mm C  
54-90mm (D)  
90-154mm E  
8-150mm (Set)



## Feeler Gauge Sets

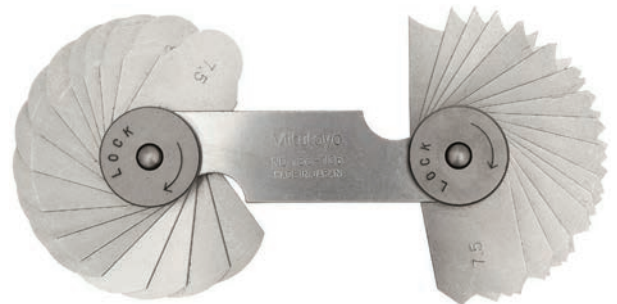
- Metric thickness gauges are available with tapered leaves.
- Each leaf is marked with its thickness.
- Each leaf is detachable if necessary.



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
187-901-10	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)

## 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	SIZE
570-412	12"/300mm
570-413	18"/450mm
570-414	24"/600mm

## 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

192-670-10

### SIZE

12"/300mm with Data Output

## 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

178-562-11E

### SIZE

0.75mN Type

## 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

KA Digital Read Out Counter 2 Axis

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

### SIZE

539-802R	150mm Coolant Proof
539-803R	200mm Coolant Proof
539-804R	250mm Coolant Proof
539-805R	300mm Coolant Proof
539-806R	350mm Coolant Proof
539-807R	400mm Coolant Proof
539-808R	450mm Coolant Proof
539-809R	500mm Coolant Proof
539-811R	600mm Coolant Proof
539-813R	700mm Coolant Proof
539-815R	800mm Coolant Proof
539-816R	900mm Coolant Proof
539-817R	1000mm Coolant Proof
539-819R	1200mm Coolant Proof
539-820R	1300mm Coolant Proof
539-822R	1500mm Coolant Proof
539-825R	1800mm Coolant Proof
539-860R	2000mm Coolant Proof

## SPC Data Cables

- SPC Data Cables are used in conjunction with USB Input Tools, DP-1VA Data Logger, MUX Multiplexer etc.
- More information on cable selection can be found in the main Mitutoyo catalogue.



CODE	SIZE
905338	SPC Data Cable 1m
905409	SPC Data Cable 1m
959149	SPC Data Cable 1m
959150	SPC Data Cable 2m
965013	SPC Data Cable 1m
965014	SPC Data Cable 1m
937387	SPC Data Cable 1m
05CZA624	SPC Data Cable 1m
05CZA625	SPC Data Cable 2m
05CZA663	SPC Data Cable 2m
06AGL011	SPC Data Cable 1m
06AGL021	SPC Data Cable 2m

## Input Tool

- An input tool allows the easy inputting of measurement data from a Mitutoyo gauge (with data output feature) into a PC.
- More information on Input Tools can be found in the main Mitutoyo catalogue.



CODE	SIZE
264-020	Digimatic USB Input Tool

## USB Direct Cables

- Data USB Input Data Cable converts data from the caliper to be read directly in Microsoft Excel via a USB port.
- Data can be further enhanced by using Mitutoyo USB-ITPAK Software.
- More information on USB Direct Cables can be found in the main Mitutoyo catalogue.



CODE	SIZE
06AFM380A	USB Input Tool Direct Cable for Coolant Proof Calipers
06AFM380B	USB Input Tool Direct Cable for Coolant Proof Micrometers
06AFM380C	USB Input Tool Direct for Non Coolant Proof Digimatic Calipers
06AFM380D	USB Input Tool Direct for ID-H, ID-F style Digimatic Indicators
06AFM380E	USB Input Tool Direct for Non Coolant Digimatic Micrometers and Hardness Testers
06AFM380F	USB Input Tool Direct for ID-CX, ID-C, ID-SS, ID-SX Digimatic Indicators
06AGQ001F	USB Input Tool Direct for ID-C/ID-F Digital Indicators



## Footswitch

- Used in conjunction with USB Input Tool or USB Direct Cables for Data output of Digimatic Tools.
- More information on Footswitches can be found in the main Mitutoyo catalogue.



### CODE

937179T

### SIZE

Footswitch

## Data Logger

- Palm size printer used to print measurement data from Digimatic gauges or to perform statistical analysis.
- The versatile DP-1VR printer not only prints measurement data, but performs a variety of statistical analysis, draws Histograms and D-charts.
- More information on Data Loggers can be found in the main Mitutoyo catalogue.



### SIZE

264-505E  
06AFZ050

DP-1VA Data Processor/Logger  
USB Cable for Data Logger (A-microB)

## Data Management Software

- Measurement Data Collection Software.
- Excel input settings.
- 3 methods of measurement selection: Sequential, Batch and Individual Measurement.
- Software protected by a USB Dongle requirement.
- Version 3.0 USB-ITPAK software only supports 32 and 64 bit platform.
- More information on ITPAK Software can be found in the main Mitutoyo catalogue.



### CODE

06AGR543

### SIZE

USB-ITPAK V3.0

## U Wave Wireless Data Management Cables

- The Mitutoyo U-WAVE system enables easy wireless data communication from a measuring tool to a PC using the Digimatic protocol.
- Measurement workability is improved by eliminating the long and cumbersome data cables usually required and the user-friendly interface allows data to be loaded into any software product that accepts keyboard input, such as Excel\* or Notepad.
- More information on U Wave cables can be found in the main Mitutoyo catalogue.



CODE	SIZE
02AZD790A	U-Wave Cable CP Caliper Type
02AZD790B	U-Wave Cable CP Micrometer Type
02AZD790C	U-Wave Cable Digimatic Caliper Type
02AZD790D	U Wave Cable for ID-H and ID-F Digital Indicators
02AZD790F	U-Wave Cable Plain Type for ID-CX, ID-C, ID-U, ID-SS and ID-SX Indicators
02AZG011	U Wave T Dedicated Connection Cable
02AZG021	U Wave T Dedicated Connection Cable with Foot Switch option

## U Wave Transmitters

- Transmits the measurement data displayed on the instrument to the U-Wave receiver.
- More information on U Wave Transmitters can be found in the main Mitutoyo catalogue



CODE	SIZE
02AZD730G	U Wave Transmitter (IP67 Type)
02AZD880G	U Wave Transmitter (Buzzer Type)

## U Wave Fit Transmitters including Bluetooth

- U-Wave/TM Fit transmitter.
- Transmits the measurement data displayed on the instrument to the U-Wave receiver.
- Compact Cableless design provides a better fit with the digimatic instrument and provides better operability.
- More information on U Wave Transmitters can be found in the main Mitutoyo catalogue



CODE	SIZE
264-620	U Wave/TC Fit Transmitter (IP67) for Calipers
264-621	U Wave/TC Fit Transmitter Buzzer Type for Calipers
264-622	U Wave/TM Fit Transmitter (IP67) for Micrometers
264-623	U Wave/TM Fit Transmitter Buzzer Type for Micrometers
264-624	U Wave-TCB Bluetooth Transmitter for Digital Caliper
264-626	U Wave-TMB Bluetooth Transmitter for Digital Micrometers

## Connection Units

- Connection unit used in conjunction with a Transmitter to connect the Transmitter to the Measuring Tools.
- More information on Transmitter Connectors can be found in the main Mitutoyo catalogue.



CODE	SIZE
02AZF300	Connection Unit Standard Type
02AZF310	Connection Unit Waterproof Type
02AZF700	Connection Unit for ID-C/ID-F Digital Indicator

## Mounting Accessories

- Installation Kit to fit Transmitters to Digital Tools



CODE	SIZE
02AZE200	U-Wave Installation Kit
02AZF670	Mounting Plate for ID-C/ID-F Digital Indicator

## U Wave Receiver and Software

- This receiver receives the data sent from the transmitters and sends to a PC or Laptop.
- Capable of receiving data from 100 individual tools.
- Applicable software is included.
- More information on U Wave Receivers can be found in the main Mitutoyo catalogue



CODE	SIZE
02AZD810D	U-Wave Receiver and Software



# HOBECATool SCHOOL

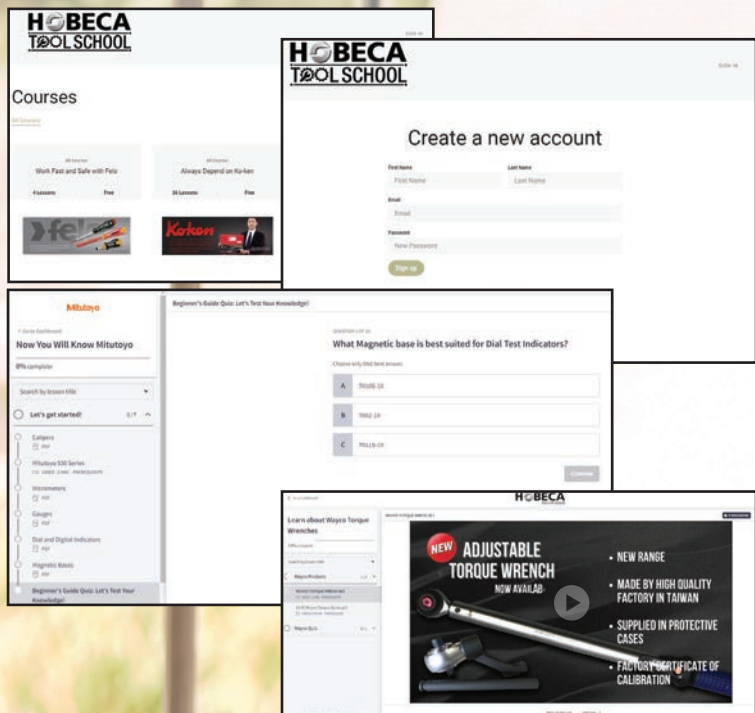
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## This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



Lined area for notes.

## This image shows a full page of blank, lined paper. It features approximately 28 evenly spaced horizontal grey lines across its entire width, providing a template for handwriting practice or general note-taking. The margins are consistent on all sides.



[illegible]

Lined area for notes.

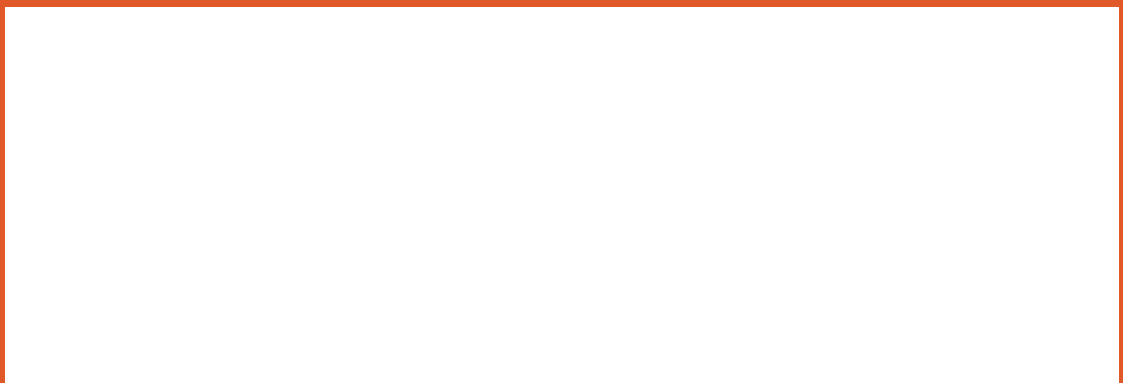


Established in 1934 Mitutoyo has grown to become a world leader in the Manufacture and Sales of Precision Measuring Instruments. The Quality, Integrity and Reliability of Mitutoyo products is second to none in New Zealand. When it comes down to measuring to tolerances of 10 microns and below you need to trust your results.

Ask us about **ABSOLUTE** Linear Scale Technology on our Digital Tools and understand why this is imperative in maintaining accuracy and integrity during measurement.

“After 40 years I am still using the Mitutoyo Tools I bought during my apprenticeship.”

Stephen Browne  
*Product Manager*  
*Hobeca*



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