

Mitutoyo KEY PRODUCT GUIDE











Why Mitutoyo?

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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Mitutoyo Outside Micrometer

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



CODE	SIZE	
101-114	1-2" x .0001" Graduations	

Mitutoyo Outside Micrometer

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



CODE	SIZE
102-311	0-25mm x 0.001mm Graduations
102-312	25-50mm x 0.001mm Graduations
102-717	0-1" x .0001" Graduations

Mitutoyo Outside Micrometer

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



CODE	SIZE	
103-137	0-25mm x 0.01mm Graduations	
103-138	25-50mm x 0.01mm Graduations	
103-139-10	50-75mm x 0.01mm Graduations	
103-140-10	75-100mm x 0.01mm Graduations	
103-141-10	100-125mm x 0.01mm Graduations	
103-142-10	125-150mm x 0.01mm Graduations	
103-143-10	150-175mm x 0.01mm Graduations	
103-144-10	175-200mm x 0.01mm Graduations	
103-145-10	200-225mm x 0.01mm Graduations	
103-146-10	225-250mm x 0.01mm Graduations	

Mitutoyo Outside Micrometer

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



CODE	SIZE
103-177	0-1" x .001" Graduations
103-178	1-2" x .001" Graduations



CODE	SIZE	
103-179	2-3" x .001" Graduations	
103-180	3-4" x .001" Graduations	
103-181	4-5" x .001" Graduations	
103-182	5-6" x .001" Graduations	

Mitutoyo Outside Micrometer Set

- Set of 6 individual micrometers.
- Box of measuring standards included.



CODE	SIZE
103-904-10	0-6" x .001" (Set of Six)
103-913-50	0 - 150mm (Set of Six)
103-915-10	150 - 300mm (Sat of Six)

Mitutoyo Outside Micrometer Interchangeable Anvils

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



CODE	SIZE
104-135A	0 - 150mm x 0.01mm Interchangeable Anvils
104-136A	150 - 300mm x 0.01mm Interchangeable Anvils
104-137	0-6" x .001" Interchangeable Anvils
104-138	6-12" x .001" Interchangeable Anvils

Mitutoyo Outside Micrometer Interchangeable Anvils

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



CODE	E	SIZE
104-13	39A	0-100mm x 0.01mm Interchangeable Anvils
104-14	40A	100-200mm x 0.01mm Interchangeable Anvils
104-14	41A	200-300mm x 0.01mm Interchangeable Anvils
104-14	42A	300-400mm x 0.01mm Interchangeable Anvils
104-14	43A	400-500mm x 0.01mm Interchangeable Anvils
104-14	44A	500-600mm x 0.01mm Interchangeable Anvils
104-14	49	0-4" x .001" Interchangeable Anvils

Mitutoyo Digit Outside 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
193-113	50-75mm x 0.001mm

Mitutoyo Disk Micrometer

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



CODE	SIZE
223-101	0-25mm x 20mm Disk
223-102	25-50mm x 20mm Disk



Mitutoyo Digmatic Disk Micrometer

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



CODE	SIZE
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323-350-30 0-1" / 25mm x 20mm Disk

Mitutoyo Digimatic Micrometer

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



CODE

293-821-30

293-831-30

0-25mm x 0.001mm Basic Model

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

Mitutoyo Digimatic Micrometer

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



CODE SIZE 293-240-30 0-25mm x 0.001mm Coolant Proof without Data Output 293-241-30 25-50mm x 0.001mm Coolant Proof without Data Output 293-242-30 50-75mm x 0.001mm Coolant Proof without Data Output 293-243-30 75-100mm x 0.001mm Coolant Proof without Data Output 0-1" / 25mm Coolant Proof with Data Output 293-330-30 293-331-30 1-2" / 25-50mm Coolant Proof with Data Output 293-332-30 2-3" / 50-75mm Coolant Proof with Data Output 0-1" / 250mm Coolant Proof without Data Output 293-340-30 293-341-30 1-2" / 25-50mm Coolant Proof without Data Output 293-342-30 2-3" / 50-75mm Coolant Proof without Data Output 3-4" / 75-100mm Coolant Proof without Data Output 293-343-30

Mitutoyo Digimatic Micrometer

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



CODE

293-961 0-4" / 100mm Coolant Proof with Data Output

Mitutoyo Digital Outside Micrometer Interchangeable Anvils

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



CODE	SIZE	
340-351-30 340-352-30	0 - 6" / 150mm 6 - 12" / 150-300mm	

Mitutoyo QuantuMike

- Advanced pioneering technology has created the next generation of micrometer.
- Faster measurement is achieved by using a coarser thread which feeds the spindle by <u>2mm per revolution</u> 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
293-180-30	0-1" / 25mm Coolant Proof with Data Output
293-181-30	1-2" / 25-50mm Coolant Proof with Data Output
293-185-30	0-1" / 25mm Coolant Proof without Data Output
293-186-30	1-2" / 25-50mm Coolant Proof without Data Output

Mitutoyo 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	SIZE
227-211	0-15mm / .6" Adjustable Measuring Force Type

Mitutoyo 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

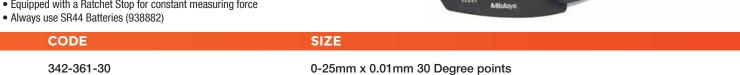
112-213

0-25mm x 0.01mm 30 Degree points



Mitutoyo 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



Mitutoyo 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	SIZE
115-115	0-25mm x 0.01mm with Spherical/Flat Anvils
115-215	0-25mm x 0.01mm with Spherical/Spherical Anvils
115-253	0-1" x .001" with Spherical/Spherical Anvils

Mitutoyo Digimatic Tube Micrometer

- IP65 water/dust protection
- · Designed to measure the wall thickness of various tubing.
- With Rachet 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	SIZE
395-371-30	0-1" / 25mm with Spherical / Spherical Anvils

Mitutoyo Sheetmetal Micrometer Depth Throat

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



CODE	SIZE
118-101	0-25mm x 0.01mm
118-118	0-25mm x 0.01mm / 150mm Deep Throat



Mitutoyo Uni-Mike

- 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	SIZE
117-101	0 - 25mm x 0.01mm

0 - 25mm x 0.01mm Graduations

Mitutoyo 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 Mitutovo Micrometers.



CODE	SIZE
126-125	0-25mm x 0.01mm Graduations
126-126	25-50mm x 0.01mm Graduations

Mitutoyo Set of Interchangeable Anvils / Spindle Tips

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



CODE	SIZE
126-800	0.4mm-7mm P / 64-3.5 TPI

Mitutoyo 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 \pm 0.8N)



CODE	SIZE
169-101	0-25mm x 0.01mm Graduations

Mitutoyo 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)



Mitutoyo 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

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

Mitutoyo Vernier Caliper with Fine Adjustment

- Vernier Caliper
- Internal and external measurement



CODE	SIZE
532-119	5" / 130mm with Fine Adjustment
532-120	7" / 180mm with Fine Adjustment
532-121	11" / 230mm with Fine Adjustment



Mitutoyo 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	SIZE	
505-730	150mm x 0.02mm Graduations	
505-731	200mm x 0.02mm Graduations	
505-745	300mm x 0.02mm Graduations	
505-742	6" x .001" Graduations	
505-743	8" x .001" Graduations	
505-749	12" x .001" Graduations	

Mitutoyo Large Caliper

- Vernier Caliper
- Internal and external measurement



CODE	SIZE
160-151	18" / 450mm x .001" /0.02mm Graduations
160-153	24" / 600mm x .001" / 0.02mm Graduations
160-155	40" / 1000mm x .001" / 0.02mm Graduations

Mitutoyo Long Jaw Caliper

- Vernier Caliper
- Internal and external measurement



CODE	SIZE
534-105 534-106	12" / 300mm with 90mm long jaws 20" / 500mm with 200mm long jaws



Mitutoyo Digital 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	SIZE
500-196-30	6" / 150mm without Data Output
500-197-30	8" / 200mm without Data Output
500-171-30	6" / 150mm with Data Output
500-172-30	8" / 200mm with Data Output
500-173	12" / 300mm with Data Output

Mitutoyo Coolant Proof Digital 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	SIZE	
500-752-20	6" / 150mm without Data Output	
500-753-20	8" / 200mm without Data Output	
500-754-10	12" / 300mm without Data Output	
500-762-20	6" / 150mm with Data Output	
500-763-20	8" / 200mm with Data Output	
500-764-10	12" / 300mm with Data Output	
500-500-10	18" / 450mm with Data Output	
500-505-10	18" / 450mm with Data Output	
500-506-10	24" / 600mm with Data Output	



Mitutoyo Dial Gauges Series 1

• Compact dial indicators with bezel diameters of ø40mm for restricted-space applications in gaging jigs.



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CODE	SIZE
1003T	4mm x 0.01mm with 36mm Face
1044S	5mm x 0.01mm 0-100 reading
1044SB	5mm x 0.01mm 0-100 reading with Flat Back
1045S	5mm x 0.01mm 0-50-0 reading
1410S	.25" x .001" 0-100 reading
1411S	.25" x .001" 0-50-0 reading
1411SB	.25" x .001" 0-50-0 reading with Flat Back
1911T-10	2.5mm x 0.01mm with 31mm Face

Mitutoyo Dial Gauges Series 1

• Compact dial indicators with bezel diameters of ø40mm for restricted-space applications in gaging jigs.



CODE	SIZE
1160T	5mm x 0.01mm Back Plunger Type

Mitutoyo Dial Gauges Series 2

- Long stroke dial indicators with a ø57mm outer frame. All the models are equipped with limit markers and a bezel clamp as standard.
- An 0-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	SIZE	
2046S	10mm x 0.01mm	
2048S-10	10mm x 0.01mm with Adjustable Hand	



CODE	SIZE	
2050S	20mm x 0.01mm	
2052\$	30mm x 0.01mm	
2109S-10	1mm x 0.001mm	
2118S-10	5mm x 0.001mm	
2952S	30mm x 0.01mm	
2358S-10	.5" x .0001"	
2414S	.5" x .001"	
2416S	1" x .001"	
2424S-19	2" x .001"	
2805S-10	.05" x .0001"	
2904S	1" x .001"	
2922S	.125" x .0005"	
2923S-10	.05" x .0001"	

Mitutoyo 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 0-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	
3058S-19	50mm x 0.01mm	

Mitutoyo 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 0-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	
513-402	.0005" x 0.03" Basic Set	
513-402T	.0005" x .03" Full Set	
513-404-10E	0.01mm x 0.8mm Basic Set	
513-404T	0.01mm x 0.8mm Full Set	
513-406	.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	
513-415E	1mm x 0.01mm Basic Set	
513-425E	0.6mm x 0.002mm Basic Set	
513-454-10E	0.8mm x 0.01mm Basic Set	
513-464E	0.8mm x 0.01mm Basic Set	
513-474E	0.8mm x 0.01mm Basic Set	



Mitutoyo 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 0-ring to keep out water and oil



CODE	SIZE	
513-501E	0.14mm x 0.001mm Basic Set	
513-517T	0.8mm x 0.01mm Full Set	
513-518T	.04" x .001" Full Set	

Mitutoyo Digimatic Indicator ID-C

- 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)

Mitutoyo Digimatic Indicator ID-C

- 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 annd 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)

Mitutoyo 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)



CODE	SIZE
543-390	12mm x 0.001mm (JIS)
543-390B	12mm x 0.001mm Flat Back (JIS



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)	
543-400	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)	
* . * . * =	` '	

Mitutoyo Digimatic Indicators ID-C

- · 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.
- Always use SR44 Batteries (938882)



CODE	SIZE
543-471B	25mm / 1" x 0.001mm / .00005" Flat Back (JIS)
543-474B	25mm x 0.01mm Flat Back (JIS)
543-475B	25.4mm x 0.01mm / .0005" Flat Back (JIS)

Mitutoyo Digimatic Indicators ID-C

- · 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.
- 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)

Mitutoyo 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
((()))		SI/ F

543-554E 50.8mm / 2" x Multi Resolutions (ANSI)



Mitutoyo 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
543-564E	60.9mm / 2.4" x Multi Resolutions (ANSI)

Mitutoyo 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)

Mitutoyo 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	SIZE
543-581	5mm / .2" x "0.01mm / .0005" Back Plunger Type (ANSI)

Mitutoyo 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	SIZE
543-782	12.7mm /.5" x 0.01mm / .0005" (JIS)
543-783	12.7mm /.5" x 0.01mm / .0005" (ANSI)
543-783B	12.7mm /.5" x 0.01mm / .0005" Flat Back (ANSI)
543-791	12.7mm /.5" x 0.001mm / .00005" (JIS)
543-792B	12.7mm /.5" x 0.001mm / .00005" Flat Back (ANSI)



Mitutoyo 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		SIZE

575-123

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

Mitutoyo Magnetic Stand

 Mitutoyo's Magnetic Stands accept all dial indicators and dial test indicators (with stem ø6 or ø8) and clamp to iron or steel surfaces with a strong magnetic force.



CODE		SIZ	

7010S-10

7011S-10

Mitutoyo Magnetic Stand Mitutoyo Magnetic Stand with Fine Adjustment

Mitutoyo Magnetic Stand

 Mitutoyo's Magnetic Stands accept all dial indicators and dial test indicators (with stem ø6 or ø8) and clamp to iron or steel surfaces with a strong magnetic force.



CODE		CI	-
			-

7012-10

Mitutoyo Magnetic Stand Flexible Type

Mitutoyo Magnetic Stand

 Mitutoyo's Magnetic Stands accept all dial indicators and dial test indicators (with stem ø6 or ø8) and clamp to iron or steel surfaces with a strong magnetic force.



CODE SIZE

7014-10 Mitutoyo Magnetic Stand Mini Type

Mitutoyo Magnetic Stand

 Mitutoyo's Magnetic Stands accept all dial indicators and dial test indicators (with stem ø6 or ø8) and clamp to iron or steel surfaces with a strong magnetic force.



CODE	SIZE
7033B	Mitutoyo Magnetic Stand One Mechanical Lock Type

Mitutoyo Gauge Stand

- Fine vertical adjustment us available with one touch control
- Dial guage stand designed for comparison measurements of size using a dial or digmatic indicator



CODE	SIZE
7002-10	Mitutoyo Dial/Digimatic Gauge Stand Flat Anvil Type

Mitutoyo Depth Micrometer

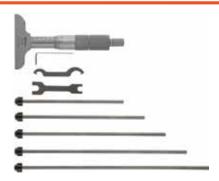
- General purpose depth measuring micrometer
- 4mm diameter measuring faces
- Ratchet stop for constant force



CODE	SIZE	
128-101 128-105	0-25mm x 63mm base 0-1" x 2.5" base	

Mitutoyo 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



CODE	SIZE	
129-116	0-150mm x 100mm base	
129-128	0-6" x 2.5" base	
129-132	0-6" x 4" base	
129-150	0-12" x 4" base	
129-153	0-300mm x 100mm base	
329-350-30	0-6" / 150mm x 4" base	

Mitutoyo 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		SIZE

527-202 0-200mm x 0.02mm

Mitutoyo Digimatic Depth Gauge

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



CODE	SIZE	
547-211	0-200mm x 0.01mm	
547-217S	0-200mm / 8" x 0.01mm/.0005"	

Mitutoyo Digimatic Depth Gauge

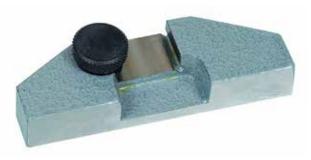
- ABSOLUTE encoder technology.
- Use only SR44 Battery (938882).
- \bullet Battery life expectation of 20,000 hours under normal use.



CODE	SIZE	
571-211-30	200mm / 6" x 0.02mm / .001"	
571-212-30	200mm / 8" x 0.02mm / .001"	

Mitutoyo 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	

Mitutoyo 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



0005	CITE	
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	

Mitutoyo 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



Mitutoyo 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	SIZE	
145-185	5-30mm	

Mitutoyo 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	SIZE
511-711	18-35mm x 0.01mm
511-712	35-60mm x 0.01mm
511-713	50-150mm x 0.01mm
511-721	18-35mm x 0.001mm
511-722	35-60mm x 0.001mm
511-723	50-150mm x 0.001mm
511-743	2-6" x .0005"
511-753	2-6" x .0001"
511-921	18-150mm x 0.01mm (3 Probes)

Mitutoyo Digmatic 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"	

Mitutoyo 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	0-1mm x 0.001mm High Accuracy Type

Mitutoyo 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
7323	0-20mm x 0.01mm Deep Throat Type

Mitutoyo 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"

Mitutoyo 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



Mitutoyo 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

547-400S

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

Mitutoyo 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

547-321 10mm x 0.01mm Deep Throat Type

Mitutoyo Quickmini Thickness Gauge

- Lightweight and palm sized.
- · Set measuring force guarantees consistant 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 SIZE

700-118-20 12.7mm / .5"

Mitutoyo 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 3-13mm

Mitutoyo 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	8-150mm

Mitutoyo 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

Mitutoyo Radius Gauge Sets

- · Radius size stamped on each leaf
- \bullet 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	
186-901	1 / 64"-1 / 2"	
186-902	0.5mm-13mm	



Mitutoyo Thread Pitch Gauge Sets

- Thread pitch is stamped on each leaf
- Metric, Unified and Whitwoth 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	

Mitutoyo Protractor

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



CODE	SIZE	
187-901 187-552	300mm 12"	

Mitutoyo 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)	

Mitutoyo 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	SIZE	
506-205	10" / 250mm	

Mitutoyo 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
570-312	12" / 300mm x .0005" / 0.01mm Resolutions
570-313	18" / 450mm x .0005" / 0.01mm Resolutions
570-314	24" / 600mm x .0005" / 0.01mm Resolutions

Mitutoyo 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)

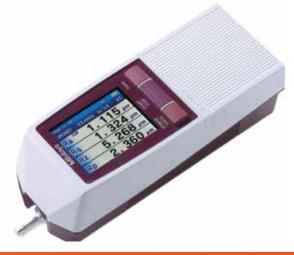


CODE	SIZE
192-630-10 192-670-10	12" / 300mm x Multi Resolutions 12" / 300mm x Multi Resolutions



Mitutoyo 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 stlyi available



CODE	SIZE
178-561-01E	SJ-210 0.75mN Type
178-561-02E	SJ-210 4mN Type

Mitutoyo Pocket Comparator

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



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

Mitutoyo Illuminator

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



CODE

950757 Mitutoyo Illuminator for Pocket Comparator



Mitutoyo Pocket Magnifier

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



CODE	SIZE
183-201	Mitutoyo Pocket Magnifier 25x
183-202	Mitutoyo Pocket Magnifier 25x with stand
183-203	Mitutoyo Pocket Magnifier 50x

Mitutoyo Pocket Magnifier

• Series 183 Clear Loupe



SIZE
Mitutoyo Clear Loupe 15x Magnification
Mitutoyo Clear Loupe 10x Magnification

Mitutoyo 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		SIZE

174-183E 174-185E Mitutoyo KA Digital Read Out Counter 2 Axis Mitutoyo KA Digital Read Out Counter 3 Axis



Mitutoyo Linear Scales

• Uses an Absolute® electromagnetic induction system to achieve IP67 environmental resistance

 \bullet 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	
539-803	200mm Coolant Proof	
539-804	250mm Coolant Proof	
539-805	300mm Coolant Proof	
539-806	350mm Coolant Proof	
539-807	400mm Coolant Proof	
539-808	450mm Coolant Proof	
539-809	500mm Coolant Proof	
539-811	600mm Coolant Proof	
539-813	700mm Coolant Proof	
539-815	800mm Coolant Proof	
539-816	900mm Coolant Proof	
539-817	1000mm Coolant Proof	
539-819	1200mm Coolant Proof	
539-820	1300mm Coolant Proof	
539-822	1500mm Coolant Proof	
539-825	1800mm Coolant Proof	
539-860	2000mm Coolant Proof	
539-866	3000mm Coolant Proof	





For more product information visit www.hobeca.co.nz

