



ENGINEERED FOR PRECISION

Moore & Wright's
Complete Range



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Moore & Wright

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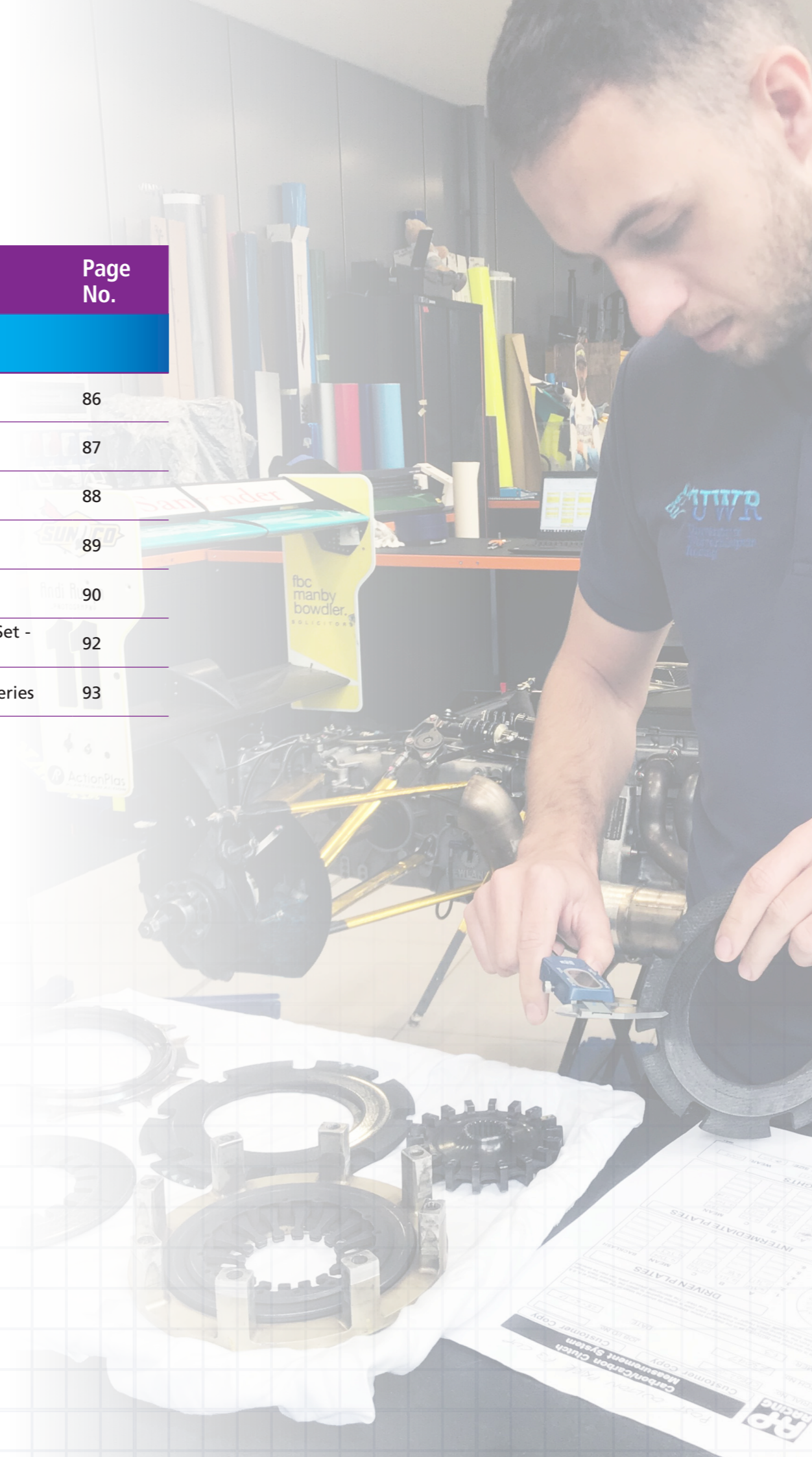
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Hand Tools




Carbon Fibre Caliper

Carbon Fibre Caliper

At a Glance

 Range up to 1500mm / 60"

 Protected from dust and low-pressure water jets to IP65 specification

Features

- Reinforced carbon fibre for reduced weight and ease of use
- Extended length caliper options for measuring larger dimensions
- Large backlit colour LCD display
- Selectable as metric or imperial display, both scales etched on beam
- Absolute and incremental functions with measurement hold
- Configurable offset, with option to switch between absolute value or offset value
- Locking screw to hold position and prevent movement
- Self power off when unused for some time
- 3V lithium battery CR2032, estimated battery life > 1 year
- IP65 ingress protection
- Supplied in a protective metal case with foam padding



The Moore & Wright range of extended length **Carbon Fibre Calipers** provide a light weight solution for measuring larger dimensions than the more traditional calipers are capable of, whilst having all the features a user would expect. The waterproof calipers are suitable for use in the presence of water, coolant or cutting oil. Lightweight, carbon fibre construction for easy handling.

The Moore & Wright Carbon Fibre Caliper is the ultimate tool for precision measurement of large dimensions of up to 1.5 meters. Crafted from lightweight reinforced carbon fibre, this caliper ensures easy handling without compromising durability.

Its waterproof design, rated IP65, makes it ideal for use in the presence of coolant or cutting oil, enhancing reliability in industrial settings.

Equipped with an advanced inductive measuring system, this caliper delivers measurements with a resolution of 0.01 mm (0.0005 inch) with a remarkable response time of 3.2 m/s.

Powered by a long-lasting CR2032 lithium battery, the Moore & Wright Carbon Fibre Caliper is a must-have for professionals seeking accuracy and efficiency in their measurement tasks.

Carbon Fibre Caliper

| Code No | Range (mm) | Range (inch) | Jaws (mm) | Resolution (mm) | Resolution (inch) | Accuracy (mm) | Accuracy (inch) | Weight (kg) |
|-------------|------------|--------------|-----------|-----------------|-------------------|---------------|-----------------|-------------|
| MW153-60DDL | 0-600 | 0-24 | 138 | 0.01 | 0.0005 | 0.05 | 0.002 | 1.27kg |
| MW153-75DDL | 0-1000 | 0-40 | 138 | 0.01 | 0.0005 | 0.06 | 0.0025 | 1.5kg |
| MW153-80DDL | 0-1500 | 0-60 | 150 | 0.01 | 0.0005 | 0.13 | 0.0055 | 2kg |

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Workshop Digital Caliper 110-DBL Series

At a Glance

- **Functions:** ABS / INC (absolute and incremental), zero setting, on/off auto power off

Features

- Functions: ABS / INC (absolute and incremental), zero setting, on/off auto power off
- Reading options: metric (mm) / imperial (inches)
- Four way measurement of inner and outer dimensions, step and depth
- All metal parts are of hardened stainless steel
- Thumb wheel for fine adjustment
- Locking screw for position hold
- Compliant with standard DIN 862
- CR2032 battery
- Supplied in a protective case



MW110-15DBL

Workshop Digital Caliper - 110-DBL Series - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) | Jaws (mm) |
|-------------|------------|-----------------|---------------|-----------|
| MW110-15DBL | 0-150 | 0.01 | 0.02 | 40 |
| MW110-20DBL | 0-200 | 0.01 | 0.03 | 50 |
| MW110-30DBL | 0-300 | 0.01 | 0.03 | 60 |

Workshop Digital Caliper - 110-DBL Series - Imperial

| Code No | Range (inch) | Resolution (inch) |
|-------------|--------------|-------------------|
| MW110-15DBL | 0-6 | 0.0005 |
| MW110-20DBL | 0-8 | 0.0005 |
| MW110-30DBL | 0-12 | 0.0005 |



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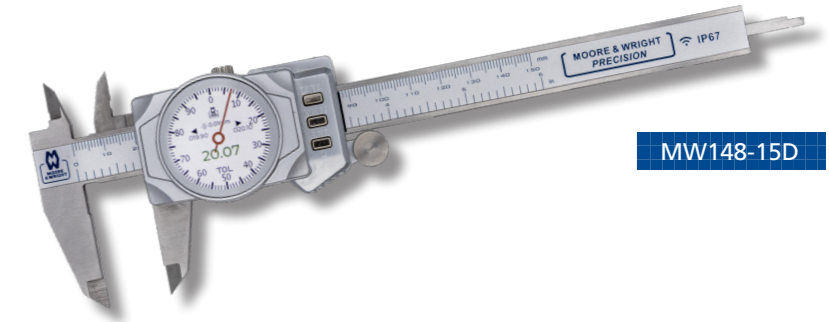
Digital Dial Caliper MW148 Series

At a Glance

- IP67 ingress protection

Features

- Large backlit colour LCD display within a metal housing
- Measurement can be displayed as a dial, as digits, or both combine
- Configuration menu including multiple brightness and time off settings
- Built in wireless data transfer directly to a Windows application (Excel, Word, Notepad)
- Tolerance settings with Go / No Go indication via green / red numeric display
- Internal lithium battery rechargeable via magnetically secured charging port to a USB supply
- Fine lapping on hardened stainless steel beam for smooth movement
- IP67 ingress protection
- Supplied in a protective case



MW148-15D

The Moore & Wright Digital Dial Caliper is a waterproof caliper featuring a circular colour LCD screen configurable as a dial display or traditional numeric display. IP67 rated, this waterproof digital dial caliper is simple to use and has built in wireless data transfer.

The inductive measuring system provides a remarkable resolution of 0.01mm / 0.0005 inch, while the durable metal housing ensures longevity. Enjoy seamless data transfer with built-in wireless data transfer capabilities, and effortlessly control measurements using the smooth thumb roller.

Digital Dial Caliper 0-150mm - Metric

| Code No. | Range (mm) | Resolution (mm) | Accuracy (mm) | Jaw Length (mm) |
|-----------|------------|-----------------|---------------|-----------------|
| MW148-15D | 0-150 | 0.01 | 0.02 | 40 |

Digital Dial Caliper 0-150mm - Imperial

| Code No. | Range (inch) | Resolution (inch) | Accuracy (inch) | Jaw Length (mm) |
|-----------|--------------|-------------------|-----------------|-----------------|
| MW148-15D | 0-6 | 0.0005/ 1/128 | 0.001 | 40 |





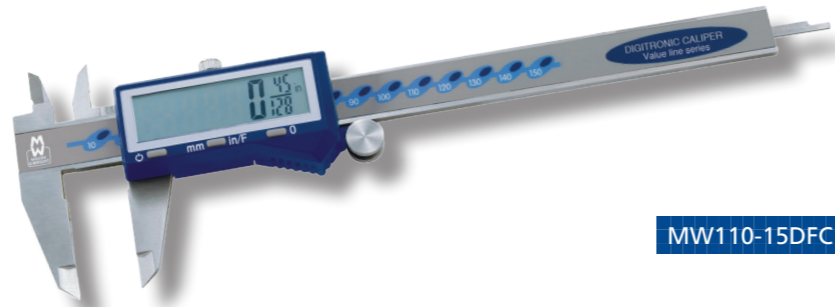
Fractional Reading Digital Caliper DFC Series

At a Glance

- Extra large, easy-to-read LCD display
- High measuring speed: 120" per second

Features

- Functions: decimal / fraction, zero setting, auto power off
- Reading options: metric (mm) / imperial (inches and fractions)
- Four way measurement of inner and outer dimensions, step and depth
- Stainless steel frame with extra smooth movements
- Thumb wheel for fine adjustment
- Locking screw for position hold
- CR2032 battery
- Supplied in a protective case



MW110-15DFC



mm

Inch

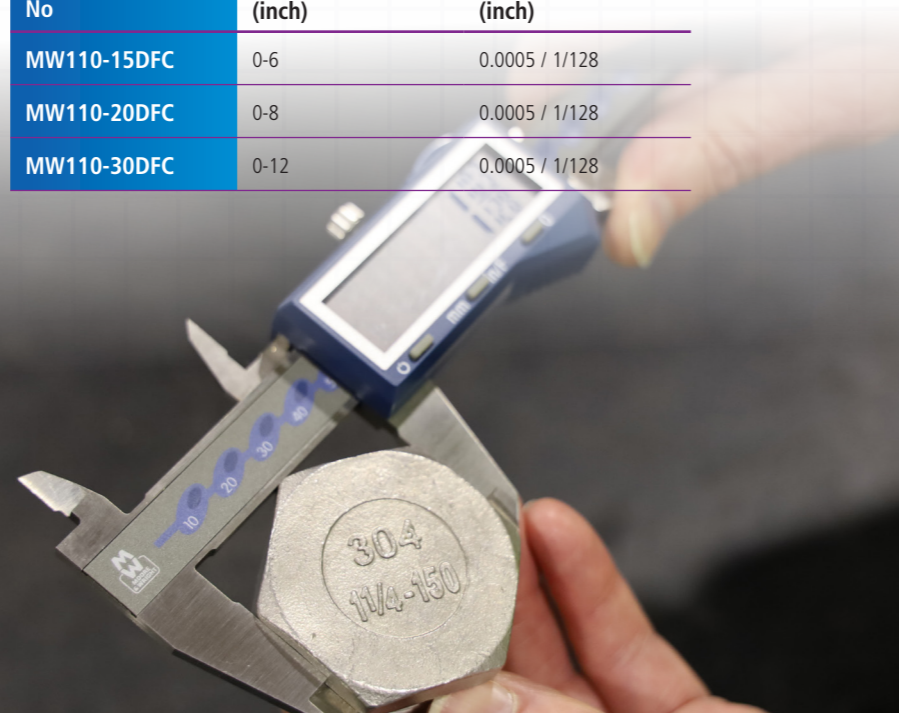
Fraction

Fractional Reading Digital Caliper - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) | Jaws (mm) |
|-------------|------------|-----------------|---------------|-----------|
| MW110-15DFC | 0-150 | 0.01 | 0.03 | 40 |
| MW110-20DFC | 0-200 | 0.01 | 0.03 | 50 |
| MW110-30DFC | 0-300 | 0.01 | 0.04 | 60 |

Fractional Reading Digital Caliper - Imperial

| Code No | Range (inch) | Resolution (inch) |
|-------------|--------------|-------------------|
| MW110-15DFC | 0-6 | 0.0005 / 1/128 |
| MW110-20DFC | 0-8 | 0.0005 / 1/128 |
| MW110-30DFC | 0-12 | 0.0005 / 1/128 |



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IP54 Water Resistant Caliper

At a Glance

- Water and dust resistant to IP54 specification
- Compliant with standard DIN 862

Features

- **Functions:** ABS / INC (absolute and incremental), zero setting, auto power off
- **Reading options:** metric (mm) / imperial (inches)
- Four way measurement of inner and outer dimensions, step and depth
- Thumb wheel for fine adjustment
- Locking screw for position hold
- CR2032 battery



MW110-15WR

IP54 Water Resistant Caliper - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) | Jaws (mm) |
|------------|------------|-----------------|---------------|-----------|
| MW110-15WR | 0-150 | 0.01 | 0.02 | 40 |
| MW110-20WR | 0-200 | 0.01 | 0.03 | 50 |
| MW110-30WR | 0-300 | 0.01 | 0.03 | 60 |

IP54 Water Resistant Caliper - Imperial

| Code No | Range (inch) | Resolution (inch) |
|------------|--------------|-------------------|
| MW110-15WR | 0-6 | 0.0005 |
| MW110-20WR | 0-8 | 0.0005 |
| MW110-30WR | 0-12 | 0.0005 |



Polycarbonate Digital Caliper

At a Glance

- **Functions:** ABS / INC (absolute and incremental), zero setting, auto power off
- Four way measurement of inner and outer dimensions, step and depth

Features

- Polycarbonate frame for light weight daily use
- Reading options: metric (mm) / imperial (inches)
- Locking screw for position hold
- CR2032 battery
- Supplied in a vinyl case



Polycarbonate Digital Caliper - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) | Jaws (mm) |
|-------------|------------|-----------------|---------------|-----------|
| MW110-15DPC | 0-150 | 0.01 | 0.2 | 40 |

Polycarbonate Digital Caliper - Imperial

| Code No | Range (inch) | Resolution (inch) | Accuracy (inch) | Jaws (inch) |
|-------------|--------------|-------------------|-----------------|-------------|
| MW110-15DPC | 0-6 | 0.0005 | 0.008 | 1.57 |



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Digital Pocket Caliper 110 Series

At a Glance

- Digital Functions: mm/inch conversion, on / off, ZERO setting
- 4-way measurement

Features

- All metal parts made of hardened steel



Digital Pocket Caliper - 110 Series

| Code No | Range (mm) | Range (inch) | Resolution (mm) | Resolution (inch) | Jaw (mm) |
|-------------|------------|--------------|-----------------|-------------------|----------|
| MW110-10DPT | 0-100 | 0-4 | 0.01 | 0.0005 | 30 |



Plastic Digital Caliper

At a Glance

- Measure outside, inside, depth and step measurement, (4 way) measurements

Features

- Plastic jaws to reduce the risk of scratching, marking or damaging delicate objects
- Standard: Factory standard
- Digital functions: mm/inch, zero setting, auto off
- Manufactured from glass reinforced nylon material
- Highly durable design
- Plastic depth rod



Plastic Digital Caliper - Metric

| Code No | Range (mm) | Accuracy (mm) | Resolution (mm) | Jaws (mm) |
|---------|------------|---------------|-----------------|-----------|
| ECP015D | 0-150 | ±0.05 | 0.01 | 40 |

Plastic Digital Caliper - Imperial

| Code No | Range (inch) | Accuracy (inch) | Resolution (inch) |
|---------|--------------|-----------------|-------------------|
| ECP015D | 0-6 | ±0.002 | 0.0005 |

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Digital Long Jaw Caliper 110-DLJ Series

At a Glance

- Digital functions: mm / inch conversion, on/off, zero-setting, ABS / zero, battery low indication

Features

- Digital functions: mm / inch conversion, on/off, zero-setting, ABS / zero, battery low indication
- Heavy duty design
- Long jaws with internal measuring nibs
- Ground micro-lapped measuring surfaces
- Thumb wheel for fine adjustment



Digital Long Jaw Caliper - 110-DLJ Series - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) | Jaws | Internal Nibs |
|-------------|------------|-----------------|---------------|------|---------------|
| MW110-15DLJ | 0-150 | 0.01 | ±0.03 | 60mm | 10 x 5mm |

Digital Long Jaw Caliper - 110-DLJ Series - Imperial

| Code No | Range (inch) | Resolution (inch) |
|-------------|--------------|-------------------|
| MW110-15DLJ | 0-6 | 0.0005 |



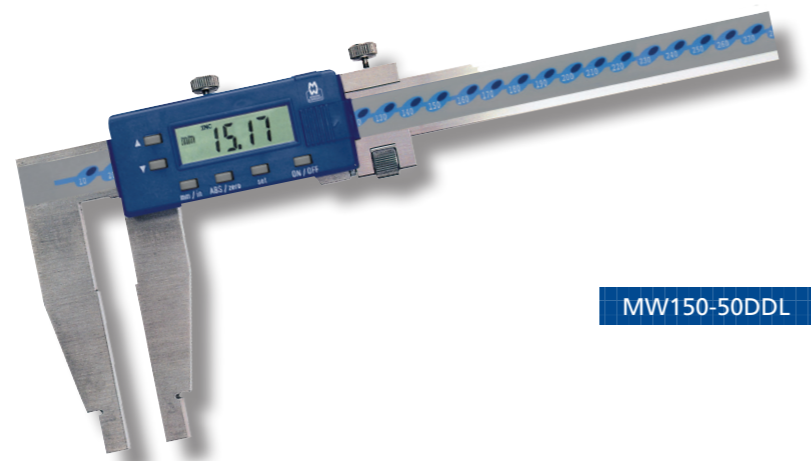
Large Digital Workshop Caliper 150 Series

At a Glance

- Digital functions: mm / inch conversion, on/off, data-output, zero-setting, ABS / zero, battery low indication

Features

- Digital functions: mm / inch conversion, on/off, data-output, zero-setting, ABS / zero, battery low indication
- Long jaws with internal measuring nibs
- Ground micro-lapped measuring surfaces
- Thumb wheel for fine adjustment



MW150-50DDL

Large Digital Workshop Caliper - 150 Series - Metric

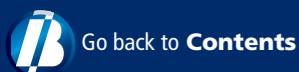
| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) | Jaws | Internal Nibs |
|-------------|------------|-----------------|---------------|-------|---------------|
| MW150-50DDL | 0-500 | 0.01 | ±0.05 | 100mm | 18 x 10mm |
| MW150-60DDL | 0-600 | 0.01 | ±0.05 | 100mm | 24 x 10mm |
| MW150-75DDL | 0-1000 | 0.01 | ±0.07 | 125mm | 24 x 10mm |

Large Digital Workshop Caliper - 150 Series - Imperial

| Code No | Range (inch) | Resolution (inch) |
|-------------|--------------|-------------------|
| MW150-50DDL | 0-20 | 0.0005 |
| MW150-60DDL | 0-24 | 0.0005 |
| MW150-75DDL | 0-40 | 0.0005 |

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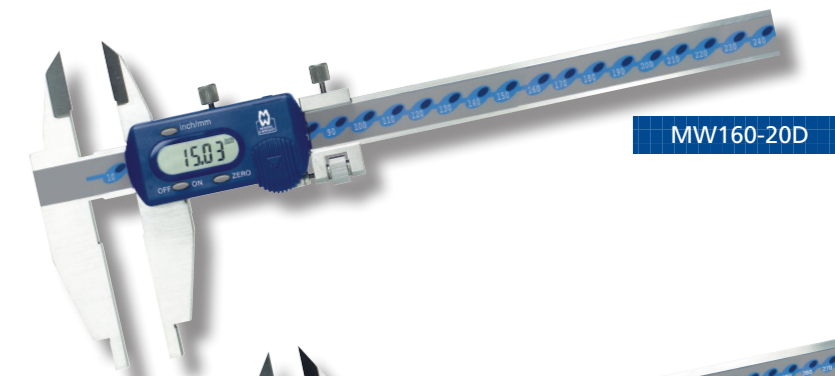
Heavy Duty Digital Workshop Caliper 160-D Series

At a Glance

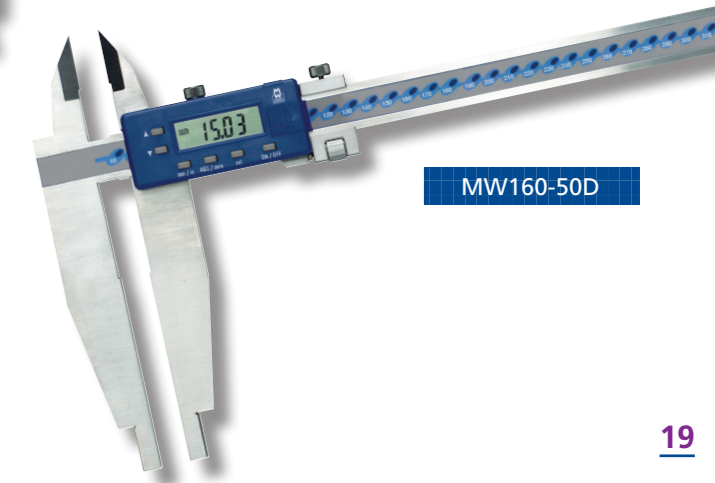
- Heavy duty design
- Digital functions: mm / inch conversion, on/off, zero-setting, battery low indication

Features

- Standard jaws with nibs for internal measuring, top knife jaws for external measuring
- Ground micro-lapped measuring surfaces
- Thumb wheel for fine adjustment



MW160-20D



MW160-50D

Heavy Duty Digital Workshop Caliper - 160-D Series - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) | Jaws (mm) | External Knife Edge (mm) | Internal Nibs (mm) |
|-----------|------------|-----------------|---------------|-----------|--------------------------|--------------------|
| MW160-20D | 0-200 | 0.01 | ±0.03 | 60 | 12 | 33.5 x 5 |
| MW160-30D | 0-300 | 0.01 | ±0.04 | 60 | 12 | 38 x 5 |
| MW160-50D | 0-500 | 0.01 | 150 | 18 | 50 x 10 | |

Heavy Duty Digital Workshop Caliper - 160-D Series - Imperial

| Code No | Range (inch) | Resolution (inch) |
|-----------|--------------|-------------------|
| MW160-20D | 0-8 | 0.0005 |
| MW160-30D | 0-12 | 0.0005 |



Digital External Groove IP54 Caliper

At a Glance



Range: 0-200mm (0-8")



IP54 Electronics (water and dust resistant)

Features

- ABS / INC (absolute or incremental measurement), zero setting
- Reading in mm or inches
- Glass scale
- Thumb wheel for fine adjustment
- Locking screw



Digital External Groove IP54 Caliper - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) |
|--------------|------------|-----------------|---------------|
| MW120-20DABS | 0-200 | 0.01 | ± 0.03 |

Digital External Groove IP54 Caliper - Imperial

| Code No | Range (inch) | Resolution (inch) | Accuracy (inch) |
|--------------|--------------|-------------------|-----------------|
| MW120-20DABS | 0-8 | 0.0005 | 0.0015 |



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BOWERS GROUP



Digital Inside Groove Caliper 125-20DABS Series

At a Glance



Range: 11-300mm (0.43- 8")



Water and dust resistant to IP54 specification

Features

- ABS / INC (absolute or incremental measurement), zero setting
- Reading in mm or inches
- Glass scale
- Thumb wheel for fine adjustment
- Locking screw



Digital External Groove Caliper - MW125-20DABS Series - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) |
|--------------|------------|-----------------|---------------|
| MW125-20DABS | 11-300 | 0.01 | ± 0.03 |

Digital External Groove Caliper - MW125-20DABS Series - Imperial

| Code No | Range (inch) | Resolution (inch) |
|--------------|--------------|-------------------|
| MW125-20DABS | 0.43-8 | 0.0005 |

Digital Caliper with Interchangeable Anvils

At a Glance

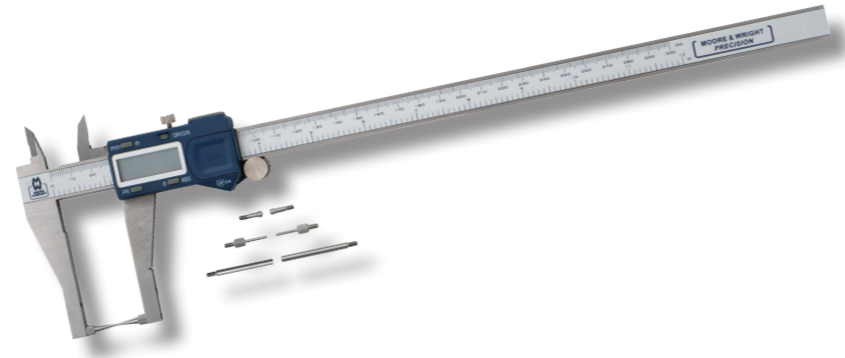
- Interchangeable anvils for internal and external groove measurements



- IP54 Electronics (water and dust resistant)

Features

- Supplied with a set of anvils (M2.5 thread)
- Glass scale
- Range up to 300mm
- ABS/INC (absolute and incremental measurement modes)
- Metric and imperial units (mm/inches)
- IP54 Ingress Protection
- Supplied in a case



Digital Caliper with Interchangeable Anvils - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) |
|--------------|------------|-----------------|---------------|
| MW127-30DABS | 0-300 | 0.01 | 0.04 |

Digital Caliper with Interchangeable Anvils - Imperial

| Code No | Range (inch) | Resolution (inch) | Accuracy (inch) |
|--------------|--------------|-------------------|-----------------|
| MW127-30DABS | 0-12 | 0.0005 | 0.0015 |

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Internal Digital Caliper

At a Glance

- For measuring bores, internal grooves and other hard to reach inside dimensions

RS232

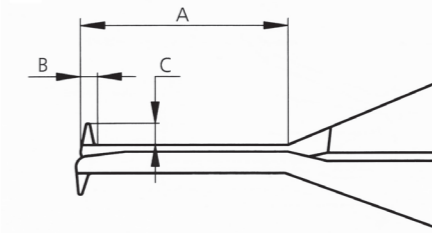
Features

- Large LCD display
- Functions: mm/inch conversion, on/off, zero setting, battery low indication
- Auto adjusting analogue display
- 0.005mm or 0.0002" resolution

Incorporating advanced electronics, these advanced gauges have the benefit of a large digital readout and an auto adjusting analogue display. These gauges are ideally suited for measuring bores, internal grooves and other hard to reach inside dimensions.



MW432-01DC



Internal Digital Caliper

| Code No | Range (mm) | Range (inch) | Accuracy (mm) | Contact Radius (mm) |
|------------|------------|--------------|---------------|---------------------|
| MW432-01DC | 5-15 | 0.2-0.6 | ±0.02 | 0.3 |
| MW432-02DC | 10-20 | 0.4-0.8 | ±0.02 | 0.3 |
| MW432-03DC | 20-30 | 0.8-1.2 | ±0.02 | 0.5 |
| MW432-04DC | 30-40 | 1.2-1.6 | ±0.02 | 0.5 |
| MW432-05DC | 40-50 | 1.6-2.0 | ±0.02 | 0.5 |

Dimensions

| Code No | A (mm) | B (mm) | C (mm) |
|------------|--------|--------|--------|
| MW432-01DC | 20.0 | 1.0 | 1.5 |
| MW432-02DC | 25.0 | 1.5 | 3.0 |
| MW432-03DC | 30.0 | 2.0 | 6.5 |
| MW432-04DC | 30.0 | 2.5 | 9.0 |
| MW432-05DC | 30.0 | 2.5 | 9.0 |

External Digital Caliper

At a Glance

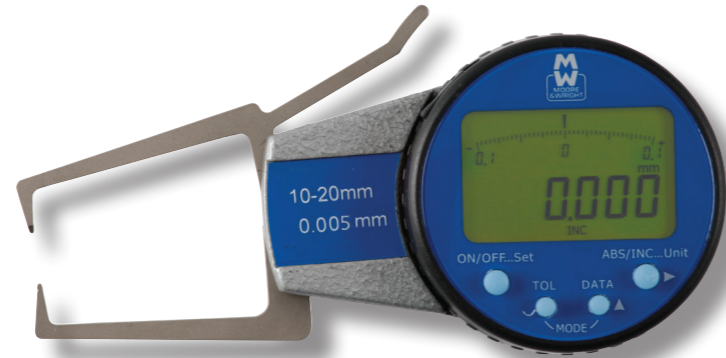
- For measuring bores, internal grooves and other hard to reach inside dimensions

RS232

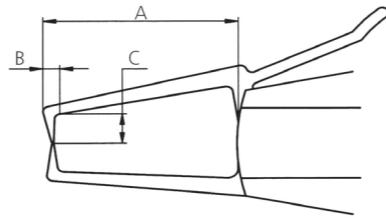
Features

- Large LCD display
- Functions: mm/inch conversion, on/off, zero setting, battery low indication
- Auto adjusting analogue display
- 0.005mm or 0.0002" resolution

Incorporating advanced electronics, these advanced gauges have the benefit of a large digital readout and an auto adjusting analogue display. These gauges are ideally suited for measuring external grooves and other hard to reach outside dimensions.



MW442-01DC



External Digital Caliper

| Code No | Range (mm) | Range (inch) | Accuracy (mm) | Contact Radius (mm) |
|------------|------------|--------------|---------------|---------------------|
| MW442-01DC | 0-10 | 0.2-0.4 | ±0.02 | 0.5 |
| MW442-02DC | 10-20 | 0.4-0.8 | ±0.02 | 0.5 |
| MW442-03DC | 20-30 | 0.8-1.2 | ±0.02 | 0.5 |
| MW442-04DC | 30-40 | 1.2-1.6 | ±0.02 | 0.5 |
| MW442-05DC | 40-50 | 1.6-2.0 | ±0.02 | 0.5 |

Dimensions

| Code No | A (mm) | B (mm) | C (mm) |
|------------|--------|--------|--------|
| MW442-01DC | 40.0 | 3.0 | 8.0 |
| MW442-02DC | 40.0 | 3.0 | 8.0 |
| MW442-03DC | 40.0 | 3.0 | 8.0 |
| MW442-04DC | 40.0 | 3.0 | 8.0 |
| MW442-05DC | 40.0 | 3.0 | 8.0 |

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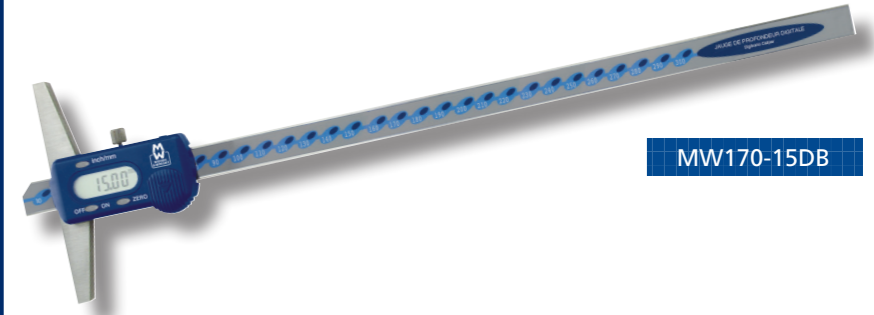
Digital Depth Gauge Caliper 170-DB Series

At a Glance

- Standard workshop model made of alloyed stainless steel

Features

- Ground micro-lapped measuring surfaces.
- Functions: mm/inch conversion, on/off, zero setting, battery low indication
- Position locking screw
- Available with or without hook
- Wide base model option



MW170-15DB

Digital Depth Gauge Caliper - Without Hook - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) | Size of Base (mm) |
|----------------|------------|-----------------|---------------|-------------------|
| MW170-15DB | 0-150 | 0.01 | 0.03 | 100 |
| MW170-20DB | 0-200 | 0.01 | 0.03 | 100 |
| MW170-30DB | 0-300 | 0.01 | 0.04 | 100 |
| MW170-30DB/100 | 0-300 | 0.01 | 0.04 | 100 |

Digital Depth Gauge Caliper - Without Hook - Imperial

| Code No | Range (inch) | Resolution (inch) | Accuracy (mm) | Size of Base (mm) |
|----------------|--------------|-------------------|---------------|-------------------|
| MW170-15DB | 0-6 | 0.0005 | 0.03 | 100 |
| MW170-20DB | 0-8 | 0.0005 | 0.03 | 100 |
| MW170-30DB | 0-12 | 0.0005 | 0.04 | 100 |
| MW170-30DB/100 | 0-12 | 0.0005 | 0.04 | 100 |



Digital Depth Gauge Caliper 170-DH Series With Hook

At a Glance

- Standard workshop model made of alloyed stainless steel

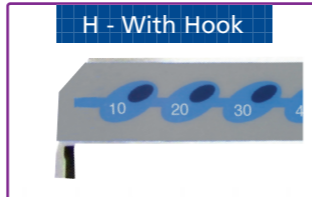
Features

- Ground micro-lapped measuring surfaces.
- Functions: mm/inch conversion, on/off, zero setting, battery low indication
- Position locking screw
- Available with or without hook
- Wide base model option



MW170-15DH

H - With Hook



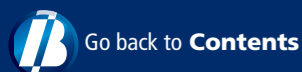
Digital Depth Gauge Caliper -With Hook

| Code No | Range (mm) | Range (inch) | Resolution (mm) | Resolution (inch) | Accuracy (mm) |
|------------|------------|--------------|-----------------|-------------------|---------------|
| MW170-15DH | 0-150 | 0-6 | 0.01 | 0.0005 | 0.03 |
| MW170-20DH | 0-200 | 0-8 | 0.01 | 0.0005 | 0.03 |
| MW170-30DH | 0-300 | 0-12 | 0.01 | 0.0005 | 0.04 |

Note: Hook width: 2mm

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Digital Engineers' Set

Features

Digital Workshop Engineers' Set

- Includes MW200-01DBL Digital micrometer and MW110-15DBL Digital caliper
- Combined set for extra value

Digital IP54 Engineers' Set

- Includes MW201-01DAB Digital micrometer and MW110-15WR Digital caliper
- Combined set for extra value

CALIPERS



MW200-SET3



MW200-SET4

Digital Workshop Engineers' Set

| Code No | Description |
|------------|---|
| MW200-SET3 | Workshop Digital Micrometer and Caliper Set |

Digital IP54 Engineers' Set

| Code No | Description |
|------------|---|
| MW200-SET4 | IP54 Digital Micrometer and Caliper Set |

Dial Caliper

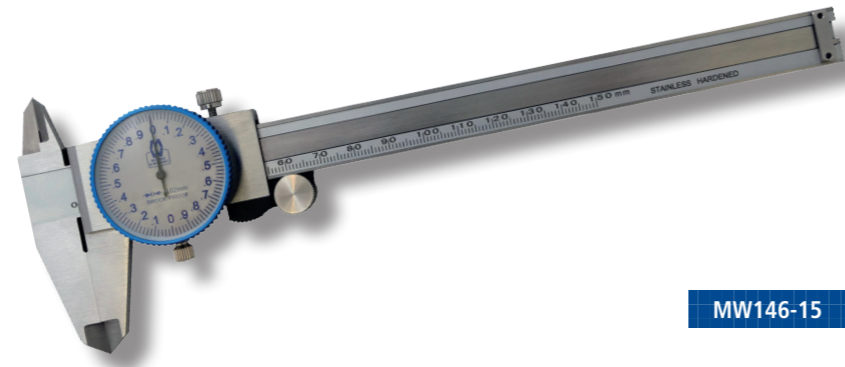
At a Glance



Range: 0-300mm (0-6")

Features

- Four way measurement of inner and outer dimensions, step and depth
- Metric: beam graduation in mm, dial resolution to 0.02mm
- Imperial: beam graduation in inches and tenths, dial resolution to 0.001inch
- Made of hardened Stainless Steel
- Adjustable dial for zero setting with screw lock
- Thumb wheel for fine adjustment
- Extra smooth movement
- Locking screw for position hold
- Blue anodized bezel
- Supplied in a case



MW146-15

Dial Caliper - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) |
|----------|------------|-----------------|---------------|
| MW146-15 | 0-150 | 0.02 | +/- 0.02 |
| MW146-20 | 0-200 | 0.02 | +/- 0.02 |
| MW146-30 | 0-300 | 0.02 | +/- 0.03 |

Dial Caliper- Imperial

| Code No | Range (inch) | Resolution (inch) | Accuracy (inch) |
|-----------|--------------|-------------------|-----------------|
| MW146-15I | 0-6 | 0.001 | +/- 0.001 |



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Workshop Vernier Caliper 100 Series

At a Glance

- Standard DIN 862
- Standard workshop model with locking screw
- Four way measurement of inner and outer dimensions, step and depth

Features

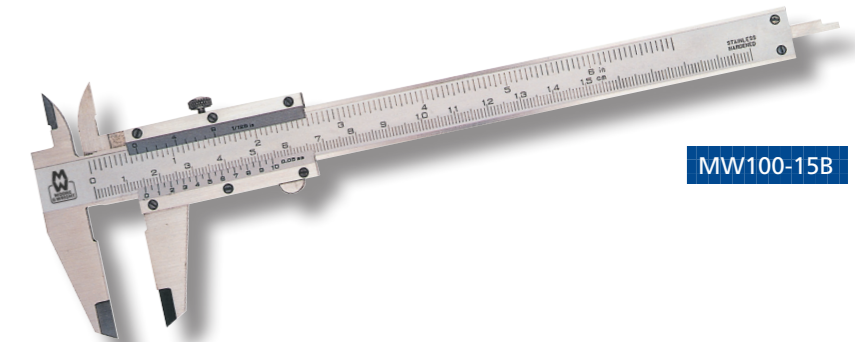
- Vernier scale for high resolution
- Chromed scale with laser engraved graduations
- Metric and imperial scales on both beam and vernier
- Locking screw for position hold
- Made of hardened alloyed Stainless Steel with micro-lapped measuring surfaces
- Supplied in a case

Model MW100-B

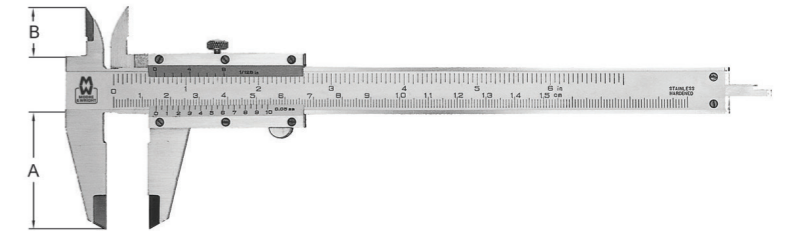
- Beam graduations in 1mm and 1/16th inches
- Vernier scale in 0.05mm and 1/128th inch

Model MW100-BI

- Beam graduations 1mm and 1/10th inch
- Vernier scale 0.02mm, 0.001 inch



MW100-15B



Workshop Vernier Caliper 100 Series - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) | A (mm) | B (mm) |
|------------|------------|-----------------|---------------|--------|--------|
| MW100-15B | 0-150 | 0.05 | ±0.05 | 40 | 16 |
| MW100-20B | 0-200 | 0.05 | ±0.05 | 50 | 20 |
| MW100-30B | 0-300 | 0.05 | ±0.08 | 55 | 20 |
| MW100-15BI | 0-150 | 0.02 | ±0.02 | 40 | 16 |
| MW100-20BI | 0-200 | 0.02 | ±0.03 | 50 | 20 |
| MW100-30BI | 0-300 | 0.02 | ±0.04 | 55 | 20 |

Workshop Vernier Caliper 100 Series - Imperial

| Code No | Range (inch) | Resolution (inch) | Accuracy (inch) | A (inch) | B (inch) |
|------------|--------------|-------------------|-----------------|----------|----------|
| MW100-15B | 0-6 | 1/128 | ±0.05 | 40 | 16 |
| MW100-20B | 0-8 | 1/128 | ±0.05 | 50 | 20 |
| MW100-30B | 0-12 | 1/128 | ±0.08 | 55 | 20 |
| MW100-15BI | 0-6 | 0.001 | ±0.02 | 40 | 16 |
| MW100-20BI | 0-8 | 0.001 | ±0.03 | 50 | 20 |
| MW100-30BI | 0-12 | 0.001 | ±0.04 | 55 | 20 |



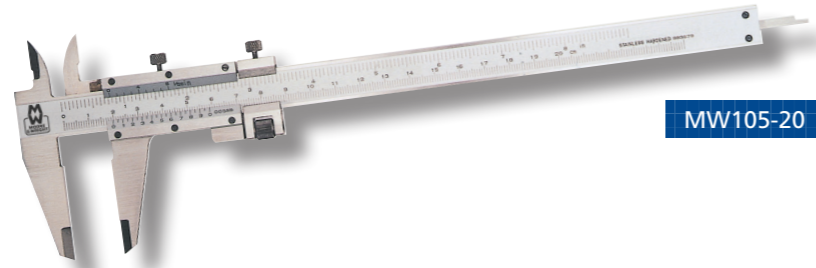
Workshop Vernier Caliper 105 Series

At a Glance

- Standard DIN 862
- Standard workshop model with locking screw
- 4-way measurement

Features

- With fine adjustment
- Made of hardened stainless steel
- Chromed scale with laser engraved graduations
- Measuring surface is micro-lapped
- Packed in plastic box



MW105-20

Workshop Vernier Caliper - 105 Series

| Code No | Range (mm) | Range (inch) | Resolution (mm) | Resolution (inch) | Jaws (mm) |
|-----------|------------|--------------|-----------------|-------------------|-----------|
| MW105-20 | 0-200 | 0-8 | 0.05 | 0.05 | 50 |
| MW105-30 | 0-300 | 0-12 | 0.05 | 0.05 | 55 |
| MW105-20I | 0-200 | 0-8 | 0.02 | 0.02 | 50 |
| MW100-30I | 0-300 | 0-12 | 0.02 | 0.02 | 55 |



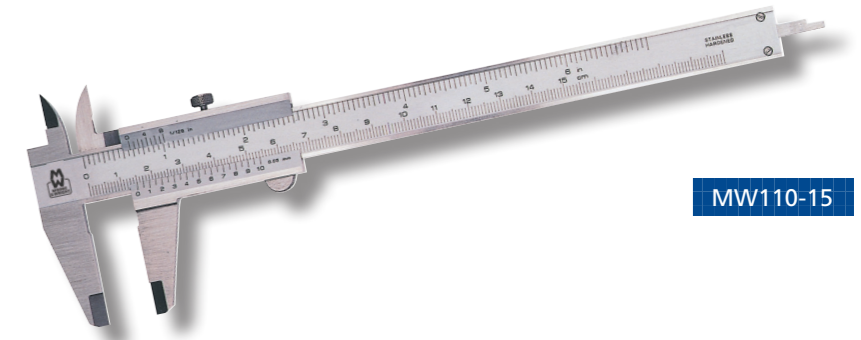
Precision Vernier Caliper 110 Series

At a Glance

- Standard DIN 862
- Extra small precision vernier caliper
- 4-way measurement

Features

- Mono block
- Made of hardened stainless steel
- Chromed scale with laser engraved graduations
- The scale shows both mm and inch value
- Measuring surface is micro-lapped
- Supplied with leather-look wallet



MW110-15

Precision Vernier Caliper - 110 Series

| Code No | Range (mm) | Resolution (mm) | Jaws |
|-----------|------------|-----------------|------|
| MW110-15 | 0-150 | 0.05 | 40mm |
| MW110-15I | 0-150 | 0.02 | 40mm |
| MW110-20 | 0-200 | 0.05 | 40mm |
| MW110-30 | 0-300 | 0.05 | 55mm |

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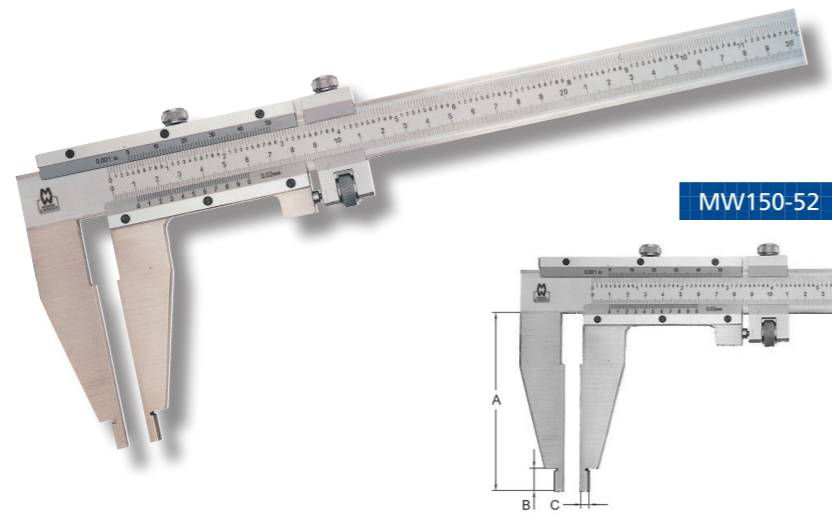
Large Workshop Vernier Caliper 150 Series

At a Glance

- Standard workshop model with locking screw
- Jaws for internal and external measurement

Features

- Standard workshop model with locking screw
- Made of hardened alloyed stainless steel
- Chromed scale with laser engraved graduations
- Measuring surface is micro-lapped
- With fine adjustment
- Supplied in wooden box



Large Workshop Vernier Caliper - 150 Series - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) | A (mm) | B (mm) | B (mm) |
|----------|------------|-----------------|---------------|--------|--------|--------|
| MW150-52 | 0-500 | 0.02 | ±0.05 | 100 | 12 | 5 |
| MW150-55 | 0-500 | 0.05 | ±0.07 | 100 | 12 | 5 |
| MW150-62 | 0-600 | 0.02 | ±0.05 | 100 | 12 | 5 |
| MW150-65 | 0-600 | 0.05 | ±0.08 | 100 | 12 | 5 |
| MW150-72 | 0-1000 | 0.02 | ±0.07 | 125 | 18 | 10 |
| MW150-75 | 0-1000 | 0.05 | ±0.10 | 125 | 18 | 10 |
| MW150-82 | 0-1500 | 0.02 | ±0.11 | 150 | 18 | 10 |
| MW150-85 | 0-1500 | 0.05 | ±0.16 | 150 | 18 | 10 |

Large Workshop Vernier Caliper - 150 Series - Imperial

| Code No | Range (inch) | Resolution (inch) | Accuracy (mm) | A (mm) | B (mm) | B (mm) |
|----------|--------------|-------------------|---------------|--------|--------|--------|
| MW150-52 | 0-20 | 0.001 | ±0.05 | 100 | 12 | 5 |
| MW150-55 | 0-20 | 1/128 | ±0.07 | 100 | 12 | 5 |
| MW150-62 | 0-24 | 0.001 | ±0.05 | 100 | 12 | 5 |
| MW150-65 | 0-24 | 1/128 | ±0.08 | 100 | 12 | 5 |
| MW150-72 | 0-40 | 0.001 | ±0.07 | 125 | 18 | 10 |
| MW150-75 | 0-40 | 1/128 | ±0.10 | 125 | 18 | 10 |
| MW150-82 | 0-60 | 0.001 | ±0.11 | 150 | 18 | 10 |
| MW150-85 | 0-60 | 1/128 | ±0.16 | 150 | 18 | 10 |

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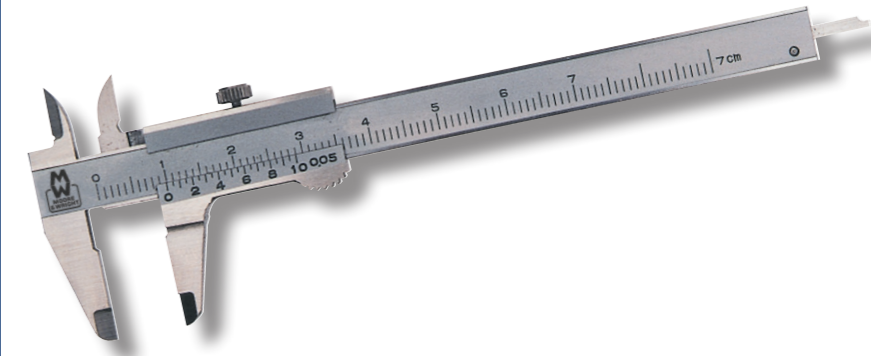
Precision Miniature Vernier Caliper 110 Series

At a Glance

- Standard DIN 862
- Extra small precision vernier caliper
- 4-way measurement

Features

- Made of hardened stainless steel
- Mono block
- Chromed scale with laser engraved graduations
- Measuring surface is micro-lapped
- Supplied with leather-look wallet



Precision Miniature Vernier Caliper - 110 Series

| Code No | Range (mm) | Resolution (mm) | Jaws (mm) |
|----------|------------|-----------------|-----------|
| MW110-07 | 0-70 | 0.05 | 20 |



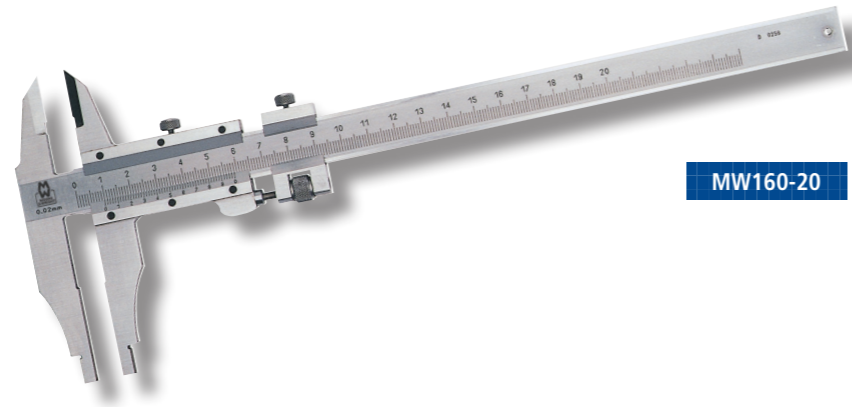
Workshop Vernier Caliper 160 Series

At a Glance

- Combination-jaw model
- Standard jaws for internal and external measurement, with top knife edge jaws for external measurement

Features

- Locking screw for locking the slider/jaws
- Made of hardened stainless steel
- Chromed scale with engraved graduations
- Measuring surface is micro-lapped
- With fine adjustment



MW160-20

Workshop Vernier Caliper - 160 Series

| Code No | Range (mm) | Resolution (mm) | Jaws (mm) |
|----------|------------|-----------------|-----------|
| MW160-20 | 0-200 | 0.05 | 60 |
| MW160-22 | 0-200 | 0.02 | 60 |
| MW160-30 | 0-300 | 0.05 | 90 |
| MW160-32 | 0-300 | 0.02 | 90 |

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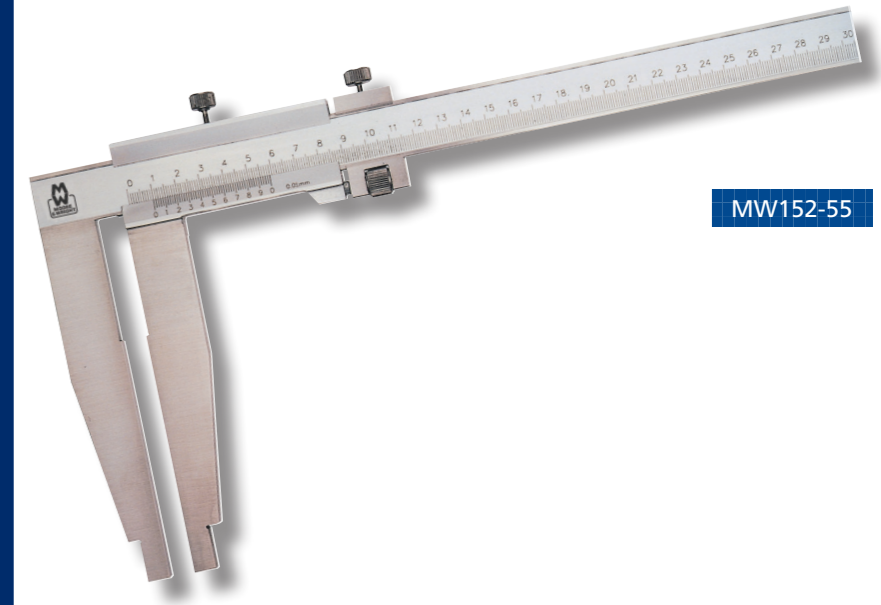
Mono Block Large Workshop Vernier Caliper 152 Series

At a Glance

- Standard workshop model with locking screw
- Jaws for internal and external measurement

Features

- Mono block solid slider
- Made of hardened alloyed stainless steel
- Chromed scale with laser engraved graduations
- Measuring surface is micro-lapped
- With fine adjustment
- Packed in wooden box



MW152-55

Mono Block Large Workshop Vernier Caliper - 152 Series

| Code No | Range (mm) | Resolution (mm) | Jaws (mm) |
|----------|------------|-----------------|-----------|
| MW152-55 | 0-500 | 0.05 | 100 |
| MW152-65 | 0-600 | 0.05 | 100 |
| MW152-75 | 0-1000 | 0.05 | 125 |



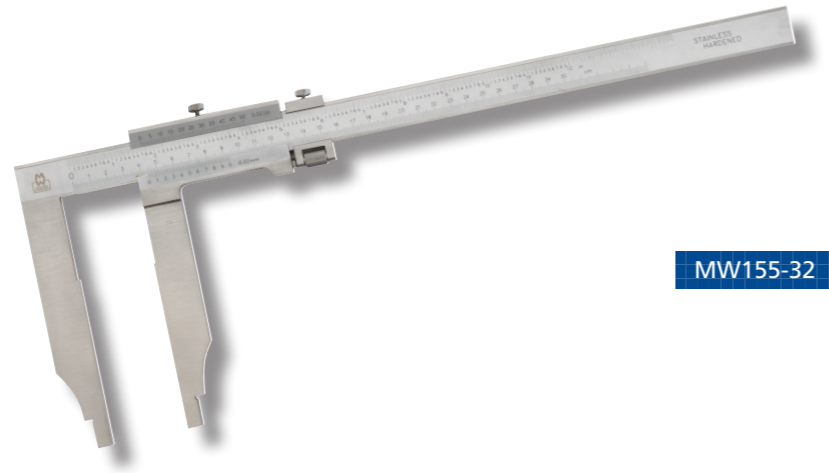
Long Jaw Vernier Caliper 155 Series

At a Glance

- With longer jaws which permit the measurement of large workpieces
- Jaws for internal and external measurement

Features

- Locking screw for locking the slider
- Made of hardened stainless steel
- Chromed scale with engraved graduations
- Measuring surface is micro-lapped
- With fine adjustment
- Locking screw



MW155-32

Long Jaw Vernier Caliper - 155 Series

| Code No | Range (mm) | Range (inch) | Resolution (mm) | Resolution (inch) | Jaws (mm) |
|----------|------------|--------------|-----------------|-------------------|-----------|
| MW155-32 | 0-300 | 0-12 | 0.02 | 0.001 | 150 |
| MW155-52 | 0-500 | 0-20 | 0.02 | 0.001 | 200 |
| MW155-62 | 0-600 | 0-24 | 0.02 | 0.001 | 300 |

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Plastic Dial Caliper

At a Glance

- 4-way measurement
- Highly durable design

Features

- Manufactured from glass reinforced nylon material
- Plastic depth rod



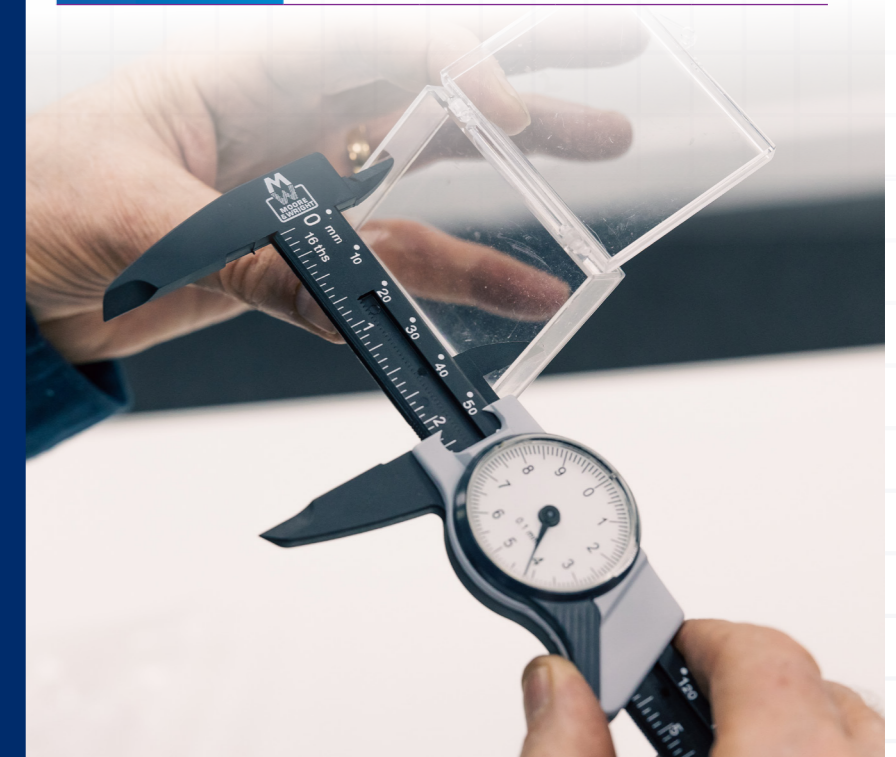
CDP15D

Plastic Dial Caliper - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) | Jaws (mm) |
|---------|------------|-----------------|---------------|-----------|
| CP150M | 0-150 | 0.1 | ± 0.1 | 40 |

Plastic Dial Caliper - Imperial

| Code No | Range (inch) | Resolution (inch) | Accuracy (inch) | Jaws (inch) |
|---------|--------------|-------------------|-----------------|-------------|
| CDP006E | 0-6 | 0.01 | ± 0.004 | 1.57 |





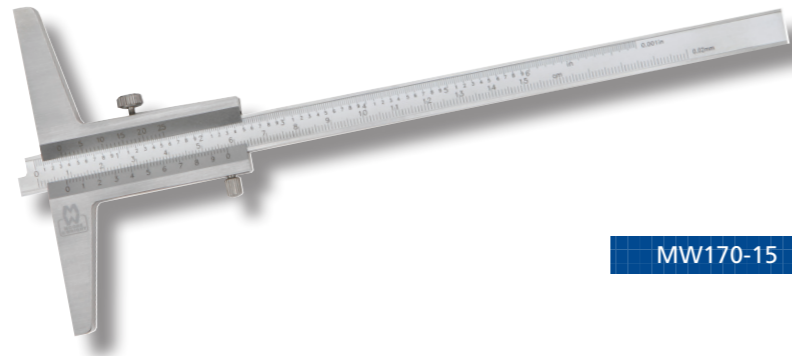
Vernier Depth Gauge 170 Series

At a Glance

- Standard workshop model made of alloyed stainless steel

Features

- Mono block with locking screw
- With laser engraved graduations
- Measuring surface is micro-lapped



MW170-15

Vernier Depth Gauge - 170 Series

| Code No | Range (mm) | Resolution (mm) | Resolution (inch) | Size of Base (mm) |
|------------|------------|-----------------|-------------------|-------------------|
| MW170-15 | 0-150 | 0.02 | 0.001 | 100 |
| MW170-15B | 0-150 | 0.05 | 1/128 | 100 |
| MW170-20 | 0-200 | 0.02 | 0.001 | 100 |
| MW170-20B | 0-200 | 0.05 | 1/128 | 100 |
| MW170-30 | 0-300 | 0.02 | 0.001 | 100 |
| MW170-30B | 0-300 | 0.05 | 1/128 | 100 |
| MW170-50B | 0-500 | 0.05 | 1/128 | 150 |
| MW170-50BI | 0-500 | 0.02 | 0.001 | 150 |

CALIPERS



Digital External Micrometer IP65

At a Glance



Range up to 300mm



Protects from dust and low-pressure water jets to IP65 specification

Features

- Large LCD display
- IP65 Ingress Protection
- Two button design for simplicity
- ABS/INC (absolute and incremental measurement modes)
- Metric and imperial units (mm/inches)
- Tungsten carbide measuring faces
- Constant force ratchet on thimble
- Locking lever
- Tapered for easier access to difficult areas
- Supplied in a case

MICROMETERS



MW203-01DABI

Digital External Micrometer IP65

| Code No | Range (mm) | Resolution (mm) | Resolution (inch) |
|--------------|------------|-----------------|-------------------|
| MW203-01DABI | 0-25 | 0.001 | 0.00005 |
| MW203-02DABI | 25-50 | 0.001 | 0.00005 |
| MW203-03DABI | 50-75 | 0.001 | 0.00005 |
| MW203-04DABI | 75-100 | 0.001 | 0.00005 |
| MW203-05DABI | 100-125 | 0.001 | 0.00005 |
| MW203-06DABI | 125-150 | 0.001 | 0.00005 |
| MW203-07DABI | 150-175 | 0.001 | 0.00005 |
| MW203-08DABI | 175-200 | 0.001 | 0.00005 |
| MW203-09DABI | 200-225 | 0.001 | 0.00005 |
| MW203-10DABI | 225-250 | 0.001 | 0.00005 |
| MW203-11DABI | 250-275 | 0.001 | 0.00005 |
| MW203-12DABI | 275-300 | 0.001 | 0.00005 |



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Digital Absolute Snap Micrometer 202 Series

At a Glance

- Absolute Measuring System
- USB Data output
- Digital functions: mm/Inch conversion, on/off, data-output, 0...ABS

Features

- Non rotating spindle
- Constant measuring force on thimble
- Quick & repeatable measurement
- CR2032 battery



MW202-01DABS

Digital Absolute Snap Micrometer - 202 Series - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) |
|--------------|------------|-----------------|---------------|
| MW202-01DABS | 0-25 | 0.001 | 0.003 |
| MW202-02DABS | 25-50 | 0.001 | 0.003 |
| MW202-03DABS | 50-75 | 0.001 | 0.004 |
| MW202-04DABS | 75-100 | 0.001 | 0.004 |

Digital Absolute Snap Micrometer - 202 Series - Imperial

| Code No | Range (inch) | Resolution (inch) | Accuracy (inch) |
|--------------|--------------|-------------------|-----------------|
| MW202-01DABS | 0-1 | 0.00005 | 0.00015 |
| MW202-02DABS | 1-2 | 0.00005 | 0.00015 |
| MW202-03DABS | 2-3 | 0.00005 | 0.0002 |
| MW202-04DABS | 3-4 | 0.00005 | 0.0002 |

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Workshop Digital Micrometer 200 Series

At a Glance

Range up to 100mm (4")

Features

- Large LCD display
- Functions: mm/inches, ABS/INC (absolute and incremental), zero setting
- Constant force ratchet on thimble
- Locking lever
- Tungsten carbide measuring faces
- Hammertone finished frame with high quality insulated grip
- Tapered for easier access to difficult areas
- Supplied with standard setting piece with length of lower end of each range (except for MW200-01DBL)
- Supplied in a case



MW200-01DBL

Workshop Digital Micrometer - 200 Series

| Code No | Range (mm) | Range (inch) | Accuracy (mm) | Resolution (mm) | Resolution (inch) |
|-------------|------------|--------------|---------------|-----------------|-------------------|
| MW200-01DBL | 0-25 | 0-1 | +/- 0.003 | 0.001 | 0.00005 |
| MW200-02DBL | 25-50 | 1-2 | +/- 0.003 | 0.001 | 0.00005 |
| MW200-03DBL | 50-75 | 2-3 | +/- 0.004 | 0.001 | 0.00005 |
| MW200-04DBL | 75-100 | 3-4 | +/- 0.004 | 0.001 | 0.00005 |





Digital External Micrometer - 201 Series

At a Glance



Range up to 100mm (4")



Water and dust resistant to IP54 specification

Features

- Large LCD display
- Functions: mm/inches, ABS/INC (absolute and incremental), zero setting
- SPC data output
- Constant force ratchet on thimble
- Locking lever
- Tungsten carbide measuring faces
- Hammertone finished frame with high quality insulated grip
- Tapered for easier access to difficult areas
- Ball attachment included
- Supplied with standard setting piece with length of lower end of each range (except for M201-01DAB)
- Standard: DIN 863
- Supplied in a case



MW201-01DAB

Digital External Micrometer - 201 Series

| Code No | Range (mm) | Range (inch) | Accuracy (mm) | Resolution (mm) | Resolution (mm) |
|-------------|------------|--------------|---------------|-----------------|-----------------|
| MW201-01DAB | 0-25 | 0-1 | 0.003 | 0.01 | 0.0005 |
| MW201-02DAB | 25-50 | 1-2 | 0.003 | 0.01 | 0.0005 |
| MW201-03DAB | 50-75 | 2-3 | 0.004 | 0.01 | 0.0005 |
| MW201-04DAB | 75-100 | 3-4 | 0.004 | 0.01 | 0.0005 |

Data Cable

| Code No | Description |
|----------------|--|
| MW-Y100/700USB | Data Cable-USB to suit all DABS products |

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Digital Tube Micrometer 255-DDL Series

At a Glance

- Standard: DIN 863
- Digital functions: mm/inch conversion, on/off, zero-setting, battery low indication, hold, 0...ABS

Features

- Spherical anvil for measuring tube wall thickness
- Tungsten carbide measuring faces on spindle
- Chrome plated frame with high quality insulated grip
- Constant force ratchet on thimble
- Supplier with battery cover key
- Supplied in case
- IP54 rated



Tube Micrometer - 255 Series - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) |
|-------------|------------|-----------------|---------------|
| MW255-01DDL | 0-25 | 0.01 | 0.003 |

Tube Micrometer - 255 Series - Imperial

| Code No | Range (inch) | Resolution (inch) |
|-------------|--------------|-------------------|
| MW255-01DDL | 0-1 | 0.00005 |

Dimensions

| Code No | A (mm) | B (mm) |
|-------------|--------|--------|
| MW255-01DDL | 27.5 | 4.75 |





Workshop Digital Point Micrometer 270 Series

At a Glance

- Standard: DIN 863
- Large LCD display
- Digital functions: mm/inch conversion, ABS/INC, on/off, zero-setting, battery low indication



MW270-01DDL

Workshop Digital Point Micrometer - 270 Series - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) | Point Angle |
|-------------|------------|-----------------|---------------|-------------|
| MW270-01DDL | 0-25 | 0.001 | 0.004 | 30° |
| MW270-02DDL | 25-50 | 0.001 | 0.004 | 30° |
| MW270-03DDL | 50-75 | 0.001 | 0.005 | 30° |
| MW270-04DDL | 75-100 | 0.001 | 0.005 | 30° |

Workshop Digital Point Micrometer -270 Series - Imperial

| Code No | Range (inch) | Resolution (inch) | Point Angle |
|-------------|--------------|-------------------|-------------|
| MW270-01DDL | 0-1 | 0.00005 | 30° |
| MW270-02DDL | 1-2 | 0.00005 | 30° |
| MW270-03DDL | 2-3 | 0.00005 | 30° |
| MW270-04DDL | 3-4 | 0.00005 | 30° |

Features

- Pointed spindle and anvil for measuring hard to reach places like the web thickness of drills, small grooves, keyways
- Tungsten carbide measuring faces
- Hammertone finished frame with high quality insulated grip
- Tapered for easier access to difficult areas
- Constant force ratchet on thimble
- Locking lever
- Adjusting key
- Supplied with settings standard
- Supplied in case

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Traditional External Micrometer 1961 Series

At a Glance

Range: 0-25mm

Features

- Tungsten carbide measuring faces
- Pearl-chrome plated frame with insulation pads
- Standard, or vernier sleeve for higher resolution
- Speeder type ratchet
- Locking lever
- Adjusting key
- 5mm spindle diameter
- Tapered bow frame
- Standards: BS870, DIN 863/1, ISO361
- Supplied in a plastic pocket case



1961M

Traditional External Micrometer - 1961 Series

| Code No | Range (mm) | Resolution (mm) | Code No | Range (inch) | Resolution (inch) |
|---------|------------|-----------------|---------|--------------|-------------------|
| 1961M | 0-25 | 0.01 | 1961 | 0-1 | 0.001 |
| 1961MB | 0-25 | 0.002 | 1961B | 0-1 | 0.0001 |

Accuracy

| Micrometer Range Max Size up to | Measuring Faces Flatness | Screw Pitch Parallelism | Accuracy |
|---------------------------------|--------------------------|-------------------------|----------|
| 25mm | 0.001mm | 0.003mm | 0.003mm |
| 1" | 0.00005" | 0.0001" | 0.0001" |





External Micrometer 200 Series

At a Glance



Range up to 100mm

Features

- Tungsten carbide measuring faces
- Satin-chrome scale
- Hammertone finish frame with insulated grip
- Constant force ratchet on thimble
- Tapered for easier access to difficult areas
- Locking lever
- Adjusting key
- Standards: DIN 863/1
- Supplied in a case with setting standard (except for MW200-01)



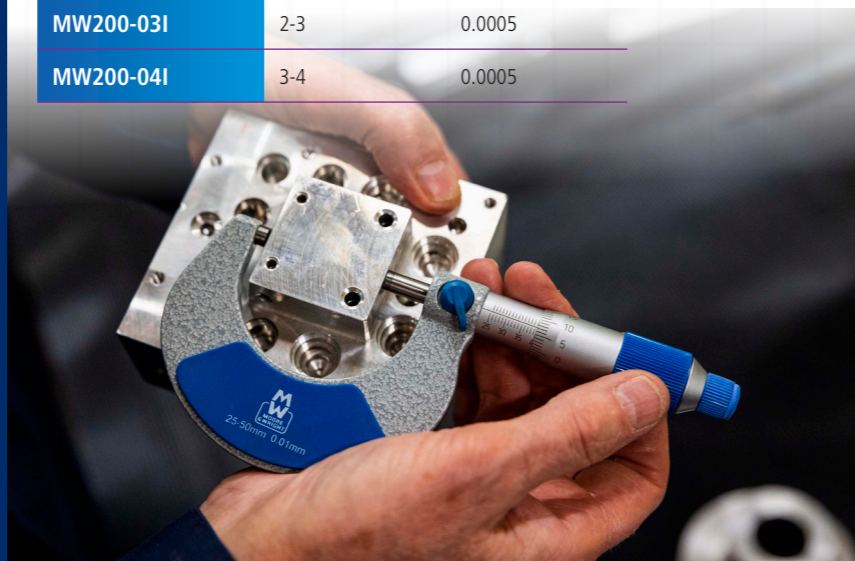
MW200-01

External Micrometer - 200 Series - Metric

| Code No | Range (mm) | Accuracy (mm) | Resolution (mm) |
|----------|------------|---------------|-----------------|
| MW200-01 | 0-25 | 0.004 | 0.01 |
| MW200-02 | 25-50 | 0.004 | 0.01 |
| MW200-03 | 50-75 | 0.004 | 0.01 |
| MW200-04 | 75-100 | 0.005 | 0.01 |

External Micrometer - 200 Series - Imperial

| Code No | Range (inch) | Resolution (inch) |
|-----------|--------------|-------------------|
| MW200-01I | 0-1 | 0.0005 |
| MW200-02I | 1-2 | 0.0005 |
| MW200-03I | 2-3 | 0.0005 |
| MW200-04I | 3-4 | 0.0005 |



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Traditional External Micrometer 1965 Series

At a Glance

- Standard: BS870, DIN 863/1, ISO361
- Tungsten carbide measuring faces
- 6.5mm spindle diameter

Features

- Blue textured tapered bow frame
- Speeder type ratchet
- Choice of standard or vernier type sleeve
- Locking lever
- Adjusting key
- Supplied in plastic pocket case



1965M

Traditional External Micrometer - 1965 Series

| Code No | Range (mm) | Resolution (mm) | Code No | Range (inch) | Resolution (inch) |
|---------|------------|-----------------|---------|--------------|-------------------|
| 1965M | 0-25 | 0.01 | 1965 | 0-1 | 0.001 |
| 1965MB | 0-25 | 0.002 | 1965B | 0-1 | 0.0001 |

Accuracy

| Micrometer Range Max Size up to | Measuring Faces Flatness | Screw Pitch Parallelism | Accuracy |
|---------------------------------|--------------------------|-------------------------|----------|
| 25mm | 0.001mm | 0.003mm | 0.003mm |
| 1" | 0.00005" | 0.0001" | 0.0001" |





Workshop External Micrometer Set 215 Series

At a Glance

- Standard: DIN 863
- Tungsten carbide measuring faces
- Satin-chrome scale

Features

- Tungsten carbide measuring faces
- Satin-chrome forged steel frame with insulated grip
- Constant force ratchet on thimble
- Tapered for easier access to difficult areas
- Locking lever
- Adjusting key
- Standards: DIN 863
- Supplied in a wooden case with setting standards



MW215-01BL

Workshop External Micrometer Set - 215 Series - Metric

| Code No | Range (mm) | Resolution (mm) | Quantity |
|------------|------------|-----------------|----------------------|
| MW215-01BL | 0-75 | 0.01 | 3 Micrometers In Set |
| MW215-02BL | 0-100 | 0.01 | 4 Micrometers In Set |
| MW215-03BL | 0-150 | 0.01 | 6 Micrometers In Set |
| MW215-04BL | 0-200 | 0.01 | 8 Micrometers In Set |

Workshop External Micrometer Set - 215 Series - Imperial

| Code No | Range (inch) | Resolution (inch) | Quantity |
|------------|--------------|-------------------|----------------------|
| MW215-01BI | 0-3 | 0.001 | 3 Micrometers In Set |
| MW215-02BI | 0-4 | 0.001 | 4 Micrometers In Set |
| MW215-03BI | 0-6 | 0.001 | 6 Micrometers In Set |
| MW215-04BI | 0-8 | 0.001 | 8 Micrometers In Set |

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Workshop Blade Micrometer 275 Series

At a Glance

- Measuring grooves, keyways etc.
- Blade 6.5mm non-rotating spindle
- Blade 1.25mm thick

Features

- Standard: DIN 863
- Satin chrome scale
- Hammertone finish frame with insulated grip
- Tapered for easier access to difficult areas
- Constant force ratchet on thimble
- Adjusting key
- Supplied in case



MW275-01

Workshop Blade Micrometer - 275 Series

| Code No | Range (mm) | Resolution (mm) |
|----------|------------|-----------------|
| MW275-01 | 0-25 | 0.01 |
| MW275-02 | 25-50 | 0.01 |
| MW275-03 | 50-75 | 0.01 |
| MW275-04 | 75-100 | 0.01 |



Traditional External Micrometers - 966 Series

At a Glance

- Complies with: BS870, DIN 863/1, ISO361
- Tungsten carbide measuring faces
- Speeder type ratchet

Features

- Tungsten carbide measuring faces
- Blue textured frame finish
- Speeder type ratchet
- Adjusting key
- Locking lever
- Standard, or vernier for higher resolution
- Spindle diameter 6.5mm
- Supplied in hard case with setting standard



Traditional External Micrometers - 966 Series

Traditional External Micrometer - Metric - 25 -150mm

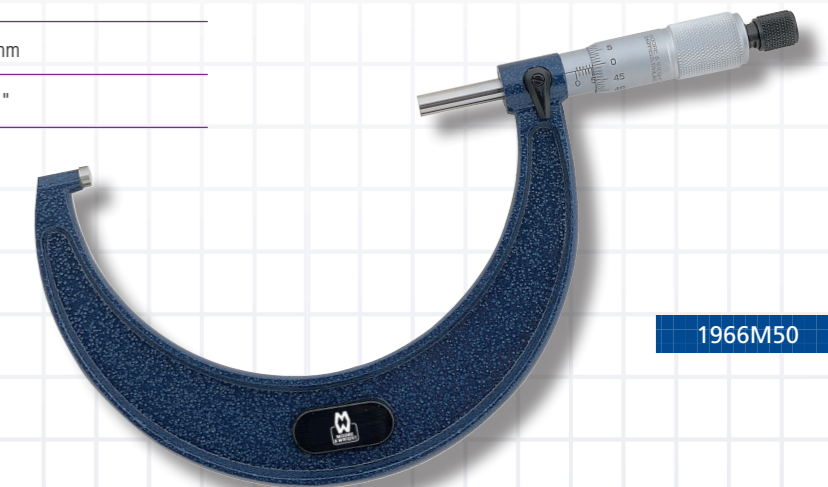
| Code No | Range (mm) | Description | Code No | Range (mm) | Description |
|----------|------------|-----------------------|-----------|------------|------------------------|
| 1966M50 | 25-50 | 0.01mm Carbide anvils | 1966MB50 | 25-50 | 0.002mm Carbide anvils |
| 1966M75 | 50-75 | 0.01mm Carbide anvils | 1966MB75 | 50-75 | 0.002mm Carbide anvils |
| 1966M100 | 75-100 | 0.01mm Carbide anvils | 1966MB100 | 75-100 | 0.002mm Carbide anvils |
| 1966M125 | 100-125 | 0.01mm Carbide anvils | 1966MB125 | 100-125 | 0.002mm Carbide anvils |
| 1966M150 | 125-150 | 0.01mm Carbide anvils | 1966MB150 | 125-150 | 0.002mm Carbide anvils |

Traditional External Micrometer - Imperial - 1-6"

| Code No | Range (mm) | Description | Code No | Range (mm) | Description |
|---------|------------|----------------------------|---------|------------|-----------------------------|
| 19662 | 1-2 | 0.001" Res, Carbide anvils | 1966B2 | 1-2 | 0.0001" Res, Carbide anvils |
| 19663 | 2-3 | 0.001" Res, Carbide anvils | 1966B3 | 2-3 | 0.0001" Res, Carbide anvils |
| 19664 | 3-4 | 0.001" Res, Carbide anvils | 1966B4 | 3-4 | 0.0001" Res, Carbide anvils |
| 19665 | 4-5 | 0.001" Res, Carbide anvils | 1966B5 | 4-5 | 0.0001" Res, Carbide anvils |
| 19666 | 5-6 | 0.001" Res, Carbide anvils | 1966B6 | 5-6 | 0.0001" Res, Carbide anvils |

Accuracy

| Micrometer Range Max Size up to | Measuring Faces | | Screw Pitch Accuracy |
|------------------------------------|-----------------|-------------|-------------------------|
| | Flatness | Parallelism | |
| 50mm | 0.001mm | 0.003mm | 0.003mm |
| 2" | 0.00005" | 0.0001" | 0.0001" |
| 150mm | 0.001mm | 0.005mm | 0.003mm |
| 6" | 0.00005" | 0.0002" | 0.0001" |



1966M50

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Micrometer with Interchangeable Anvils 217 Series

At a Glance

- Standard: DIN 863
- Features wide measuring range with interchangeable anvils

Features

- Hardened and ground spindles/anvils
- Tungsten carbide measuring faces
- Satin-chrome scale
- Strong forged steel hammertone finish frame with insulated grip
- Constant force ratchet on thimble
- Adjusting key
- Supplied with setting standards
- Supplied in wooden box



MW217-01

Micrometer with Interchangeable Anvils - 217 Series

| Code No | Range (mm) | Resolution (mm) |
|----------|------------|-----------------|
| MW217-01 | 0-100 | 0.01 |
| MW217-02 | 0-150 | 0.01 |
| MW217-03 | 100-200 | 0.01 |
| MW217-04 | 150-300 | 0.01 |
| MW217-05 | 200-300 | 0.01 |

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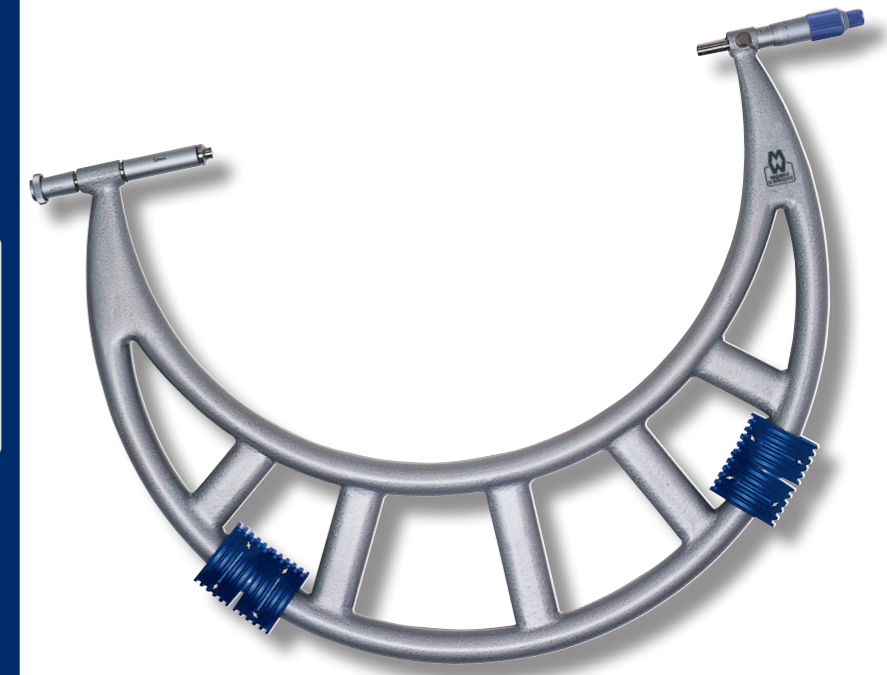
Large Adjustable External Metric Micrometer 220 Series

At a Glance

- Standard: DIN 863
- Features wide measuring range with interchangeable anvils

Features

- Low weight tubular frame with insulated grips
- Tungsten carbide measuring faces
- Hardened and ground spindles/anvils
- Satin-chrome scale
- Constant force ratchet on thimble
- Adjusting key
- Supplied with setting standards
- Supplied in wooden box



MW220-01

Large Adjustable External Micrometer - 220 Series -Metric

| Code No | Range (mm) | Accuracy (mm) | Resolution (mm) |
|----------|------------|---------------|-----------------|
| MW220-01 | 300-400 | 0.011 | 0.01 |
| MW220-02 | 400-500 | 0.013 | 0.01 |
| MW220-03 | 500-600 | 0.015 | 0.01 |
| MW220-04 | 600-700 | 0.016 | 0.01 |
| MW220-05 | 700-800 | 0.018 | 0.01 |
| MW220-06 | 800-900 | 0.020 | 0.01 |
| MW220-07 | 900-1000 | 0.022 | 0.01 |
| MW220-08 | 1000-1200 | 0.020 | 0.01 |
| MW220-09 | 1200-1400 | 0.024 | 0.01 |

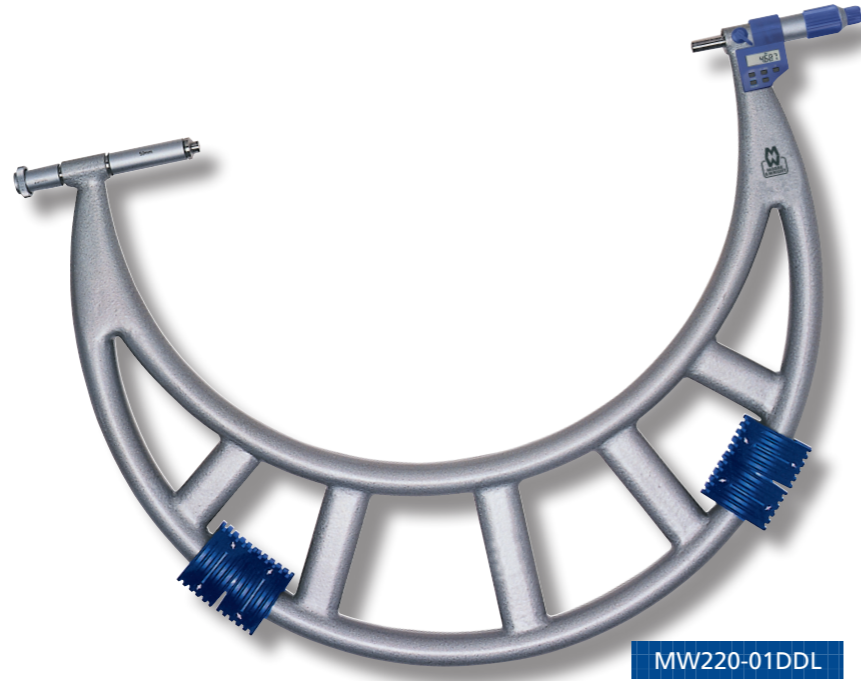
Large Adjustable External Digital Micrometer 220 Series

At a Glance

- Standard: DIN 863
- Digital functions: tolerance indication, on/off, zero-setting, battery low indication

Features

- Features wide measuring range with interchangeable anvils
- Low weight tubular frame with insulated grips
- Tungsten carbide measuring faces
- Hardened and ground spindles/anvils
- Satin-chrome scale
- Constant force ratchet on thimble
- Adjusting key
- Supplied with setting standards
- Supplied in wooden box



MW220-01DDL

Large Adjustable External Digital Micrometer - 220 Series

| Code No | Range (mm) | Range (inch) | Resolution (mm) | Resolution (inch) |
|-------------|------------|--------------|-----------------|-------------------|
| MW220-01DDL | 300-400 | 0.006 | 0.00005 | 0.00005 |
| MW220-02DDL | 400-500 | 0.007 | 0.00005 | 0.00005 |
| MW220-03DDL | 500-600 | 0.007 | 0.00005 | 0.00005 |
| MW220-04DDL | 600-700 | 0.008 | 0.00005 | 0.00005 |
| MW220-05DDL | 700-800 | 0.009 | 0.00005 | 0.00005 |
| MW220-06DDL | 800-900 | 0.01 | 0.00005 | 0.00005 |
| MW220-07DDL | 900-1000 | 0.01 | 0.00005 | 0.00005 |

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Tube Micrometer 255 Series

At a Glance

- Standard: DIN 863
- Spherical anvil for measuring tube wall thickness

Features

- Tungsten carbide measuring faces on spindle
- Satin chrome scale
- Hammertone finished frame with insulated grip
- Constant force ratchet on thimble
- Supplied in case



Tube Micrometer - 255 Series

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) |
|----------|------------|-----------------|---------------|
| MW255-01 | 0-25 | 0.01 | 0.006 |

Dimensions

| Code No | A (mm) | B (mm) |
|----------|--------|--------|
| MW255-01 | 4.75 | 27.5 |





Micrometer Stand

At a Glance

- Designed for micrometers up to 100mm

Features

- Hammertone painted
- Angle adjustable



Micrometer Stand

| Code No | Description |
|-----------|-----------------------------------|
| MW279-01A | Stand for micrometers up to 100mm |



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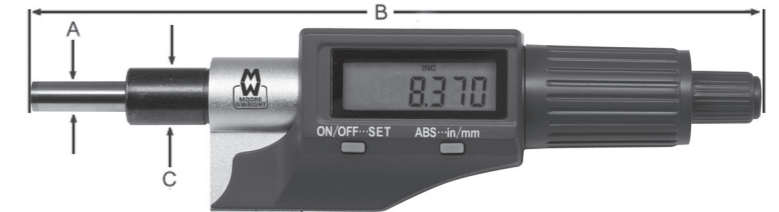
Digital Micrometer Head 312 Series

At a Glance

- Standard: DIN 862

Features

- Functions: mm/inch conversion, ABS/INC, on/off, zero-setting
- Universal micrometer head for X-Y stages or other purposes
- Large LCD display
- Constant force ratchet on thimble



Digital Micrometer Head - 312 Series

| Code No | Range (mm) | Range (inch) | Resolution (mm) | Resolution (inch) |
|-----------|------------|--------------|-----------------|-------------------|
| MW312-25D | 0-25 | 1 | 0.001 | 0.00005 |

Dimensions

| Code No | A (mm) | B (mm) | C (mm) |
|-----------|--------|--------|--------|
| MW312-25D | 6.5 | 150 | 12.0 |



Small Micrometer Head 310 Series

At a Glance



Range: 0-15mm

- Spindle diameter 5mm

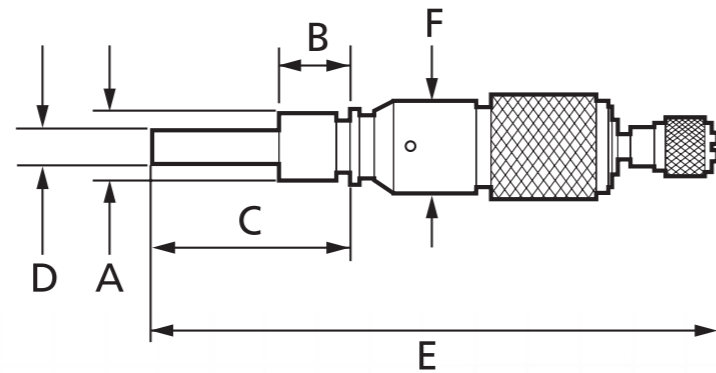
Features

- Universal micrometer head for X-Y stages or other purposes
- Satin-chrome finished body
- Laser engraved graduations



Small Micrometer Head - 310 Series

| Code No | Range (mm) | Resolution (mm) |
|----------|------------|-----------------|
| MW310-15 | 0-15 | 0.01 |



Dimensions

| Code No | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) |
|----------|--------|--------|--------|--------|--------|--------|
| MW310-15 | 9.50 | 10.50 | 24.00 | 5.00 | 59.00 | 13.50 |



Standard Micrometer Head 310 Series

At a Glance



Range: 0-25mm

- Spindle diameter 6.5mm

Features

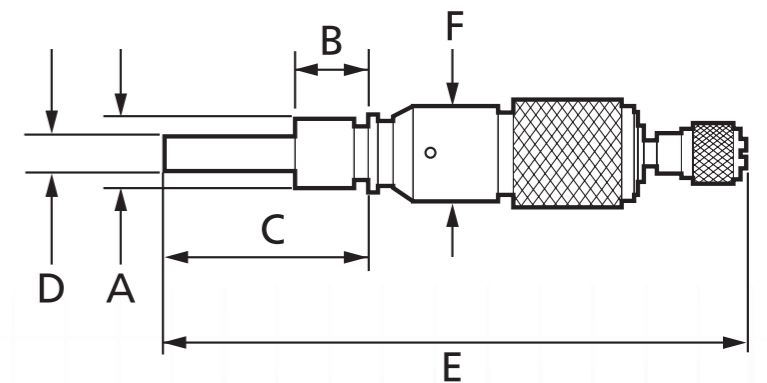
- Universal micrometer head for X-Y stages or other purposes
- Satin-chrome finished body
- Laser engraved graduations
- With constant force ratchet

Note: Flat anvil



Standard Micrometer Head - 310 Series

| Code No | Range (mm) | Note | Resolution (mm) |
|----------|------------|------|-----------------|
| MW310-25 | 0-25 | | 0.01 |



Dimensions

| Code No | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) |
|----------|--------|--------|--------|--------|--------|--------|
| MW310-25 | 12.00 | 16.00 | 46.00 | 6.50 | 115.00 | 18.00 |

58 Note: Flat anvil

59

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MW202-01DSBT Digital Micrometer/ Snap Gauge

At a Glance



Range: 0-25mm & 25-50mm

- Micrometer accuracy 0.003mm



Water and dust resistant to IP54 specification

Features

- Snap gauge operation with support bar
- Large circular, colour LCD display
- Configurable as an analogue dial, or as digital display
- Measuring system with high precision optical linear encoder
- Resolution of 0.0002mm
- Configurable tolerances, colour indication of Under, In or Over tolerance
- Wireless data comms direct to Windows applications – no need for a dongle or software
- Tungsten carbide anvils, chrome finished thimble with vernier scale
- Rechargeable internal lithium battery (USB charging cable supplied)
- Auto power off
- IP.54 Protection
- Supplied in a protective aluminium case

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MW202-01DSBT Digital Micrometer/ Snap Gauge

| Code No. | Description | Range (mm) | Resolution (mm) |
|--------------|-------------|------------|-----------------|
| MW202-01DSBT | Snap Gauge | 0-25 | 0.0002 |



BOWERS GROUP



Digital Depth Micrometer 305-DDL Series

At a Glance

- Standard: DIN 863

Features

- Digital functions: mm / inch conversion, set, on/off, zero-setting, battery low indication, hold, 0...ABS
- Interchangeable rods (spherical ends)
- Rods are hardened and spherically lapped
- Satin chrome finished base
- Constant force ratchet on thimble



MW305-01DDL

Digital Depth Micrometer - 305-DDL Series - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) | Size of Base (mm) |
|-------------|------------|-----------------|---------------|-------------------|
| MW305-00DDL | 0-25 | 0.001 | 0.004 | 100 |
| MW305-01DDL | 0-50 | 0.001 | 0.004 | 100 |
| MW305-02DDL | 0-100 | 0.001 | 0.005 | 100 |
| MW305-03DDL | 0-150 | 0.001 | 0.006 | 100 |
| MW305-04DDL | 0-200 | 0.001 | 0.007 | 100 |
| MW305-05DDL | 0-300 | 0.001 | 0.009 | 100 |

Digital Depth Micrometer - 305-DDL Series - Imperial

| Code No | Range (inch) | Resolution (inch) |
|-------------|--------------|-------------------|
| MW305-00DDL | 0-1 | 0.00005 |
| MW305-01DDL | 0-2 | 0.00005 |
| MW305-02DDL | 0-4 | 0.00005 |
| MW305-03DDL | 0-6 | 0.00005 |
| MW305-04DDL | 0-8 | 0.00005 |
| MW305-05DDL | 0-12 | 0.00005 |



Traditional Depth Micrometer

At a Glance

- Complies with BS6468:1984

Features 890 Series

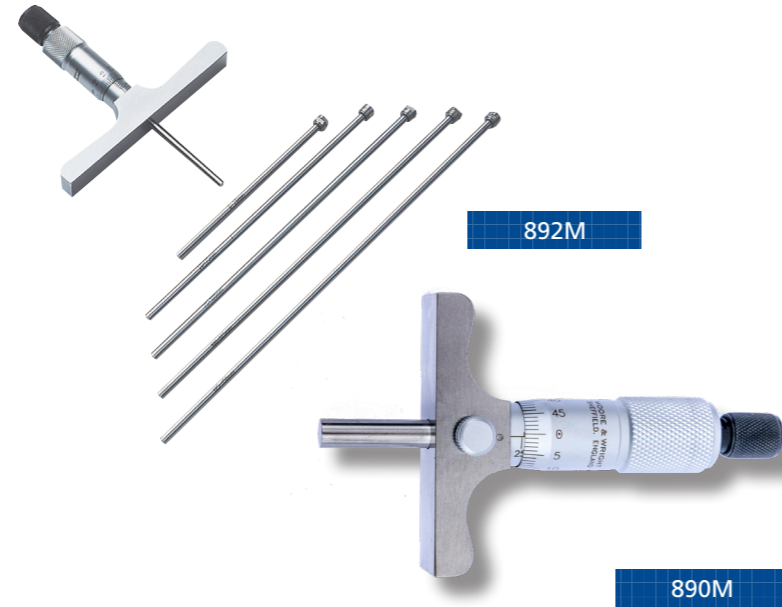
- Fixed depth rod, 6.5mm diameter
- 63.5mm / 2 1/2" base length 16mm / 0.63" width
- 'Speeder' type ratchet
- Lock screw

Features 891 Series

- Interchangeable depth rods, 4.5mm diameter
- 63.5mm / 2 1/2" base length, 16mm / 0.63" width

Features 891 Series

- As 891 Series except for: 100mm / 4" base length



| Traditional Depth Micrometer | | | |
|------------------------------|------------|---------|--------------|
| Code No | Range (mm) | Code No | Range (inch) |
| 890M | 0-25 | 890 | 0-1 |
| 891M75 | 0-75 | 8913 | 0-3 |
| 891M150 | 0-150 | 8916 | 0-6 |
| 891M300 | 0-300 | 89112 | 0-12 |
| 892M75 | 0-75 | 8923 | 0-3 |
| 892M150 | 0-150 | 8926 | 0-6 |
| 892M300 | 0-300 | 89212 | 0-12 |



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Traditional Internal Micrometers 900 Series

At a Glance

- Complies with: BS959

Features

- All models supplied in a fitted case



| Traditional Internal Micrometers - 900 Series - Metric | | | |
|--|------------|---------------|-----------------|
| Code No | Range (mm) | Accuracy (mm) | Head Range (mm) |
| 901M | 25-55 | 0.003 | 5 |
| 902M | 50-210 | 0.003 | 10 |
| 903M | 50-310 | 0.003 | 10 |
| 908M825 | 200-825 | | 25 |

| Traditional Internal Micrometers - 900 Series - Imperial | | | |
|--|--------------|-----------------|-------------------|
| Code No | Range (inch) | Accuracy (inch) | Head Range (inch) |
| 901 | 1-2 | 0.0001 | 0.25 |
| 902 | 2-8 | 0.0001 | 0.50 |
| 903 | 2-12 | 0.0001 | 0.50 |

Each model comprises a measuring head, a set of extension rods and a spacing collar to facilitate alternative measuring ranges. The smaller models (901, 902 & 903) have detachable extension handles.

Tubular Internal Micrometer 300 Series

At a Glance

- Standard: DIN 863
- Ideal for large diameters
- Tungsten carbide measuring faces

Features

- All measuring faces are micro-lapped
- Satin-chromed scale and body with lock screw
- Supplied with setting piece
- Supplied in a wooden box



Tubular Internal Micrometer - 300 Series

| Code No | Range (mm) | Resolution (mm) |
|----------|------------|-----------------|
| MW300-01 | 50-250 | 0.01 |
| MW300-02 | 50-600 | 0.01 |
| MW300-04 | 150-2000 | 0.01 |

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Digital Internal Micrometer

At a Glance

Range up to 2000mm

Features

- Standard: DIN 863
- Tungsten carbide measuring faces
- All measuring faces are micro-lapped
- Satin-chromed scale and body with lock screw
- Supplied with setting piece
- Supplied in a wooden box



Digital Internal Micrometer

| Code No | Range (mm) | Resolution (mm) |
|--------------|------------|-----------------|
| MW300-05DABI | 150-1000 | 0.001 |
| MW300-06DABI | 150-1500 | 0.001 |
| MW300-07DABI | 150-2000 | 0.001 |



Caliper Type Inside Micrometer 280 Series

At a Glance

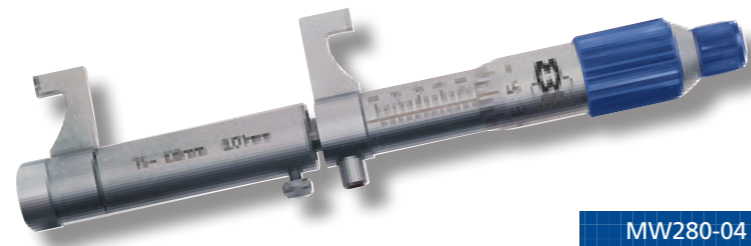
- Standard: DIN 863
- Measuring the inside of a bore or hole
- Pin diameter 2mm, length 5mm (only applicable to MW280-01)

Features

- Satin chrome finished frame
- Constant force ratchet thimble
- Locking clamp for positive locking of spindle
- Adjusting key
- Supplied in case



MW280-01



MW280-04

Caliper Type Inside Micrometer - 280 Series

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) | Setting Rings |
|----------|------------|-----------------|---------------|---------------|
| MW280-01 | 5-30 | 0.01 | 0.005 | Yes |
| MW280-02 | 25-50 | 0.01 | 0.005 | Yes |
| MW280-03 | 50-75 | 0.01 | 0.005 | No |
| MW280-04 | 75-100 | 0.01 | 0.005 | No |
| MW280-05 | 100-125 | 0.01 | 0.005 | No |
| MW280-06 | 125-150 | 0.01 | 0.005 | No |
| MW280-07 | 150-175 | 0.01 | 0.005 | No |
| MW280-08 | 175-200 | 0.01 | 0.005 | No |

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Digital Inside Micrometer 280-DDL Series

At a Glance

- Standard: DIN 863
- Digital functions: mm/inch conversion, on/off, zero-setting, battery low indication, hold, 0...ABS

Features

- Measuring the inside of a bore or hole
- Pin diameter 2mm, length 5mm (only applicable to MW280-01DDL)
- Satin chrome finished frame
- Constant force ratchet thimble
- Locking clamp for positive locking of spindle
- Setting rings (only applicable MW280-01DDL and MW280-02DDL)
- Supplied in case



MW280-01DDL



MW280-05DDL

Digital Inside Micrometer - 280-DDL Series

| Code No | Range (mm) | Range (inch) | Resolution (mm) | Resolution (inch) | Accuracy (mm) |
|-------------|------------|--------------|-----------------|-------------------|---------------|
| MW280-01DDL | 5-30 | 0.2-1.2 | 0.001 | 0.00005 | 0.003 |
| MW280-02DDL | 25-50 | 1-2 | 0.001 | 0.00005 | 0.003 |
| MW280-03DDL | 50-75 | 2-3 | 0.001 | 0.00005 | 0.004 |
| MW280-04DDL | 75-100 | 3-4 | 0.001 | 0.00005 | 0.004 |
| MW280-05DDL | 100-125 | 4-5 | 0.001 | 0.00005 | 0.005 |
| MW280-06DDL | 125-150 | 5-6 | 0.001 | 0.00005 | 0.005 |



Digital Indicator 405 Series

At a Glance

- Digital functions: Direct mm / inch conversion, ABS/ INC, zero-setting

Features

- 58mm dial face
- Lugback and 8mm stem mountings
- Also supplied with flatback



MW405-04DB

Dial Indicator - 405 Series - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) |
|------------|------------|-----------------|---------------|
| MW405-04DB | 0-12.7 | 0.01 | ±0.02 |
| MW405-06DB | 0-25.0 | 0.01 | ±0.03 |

Dial Indicator - 405 Series - Imperial

| Code No | Range (inch) | Resolution (inch) | Accuracy (inch) |
|------------|--------------|-------------------|-----------------|
| MW405-04DB | 0-0.5 | 0.0005 | ±0.0008 |
| MW405-06DB | 0-1.0 | 0.0005 | ±0.0012 |

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Digital Absolute Indicator 430-DABS Series

At a Glance

- Absolute Measuring System
- USB Data Output

Features

- Functions: tolerances, mm/inch conversion, preset capability, data-output, zero-setting, on/off
- 8mm/H7 clamping diameter
- IP54 protection
- CR2032 battery
- Supplied with lugback and flat back



MW430-01DABS

Digital Absolute Indicator - 430-DABS Series

| Code No | Range (mm) | Range (inch) | Resolution (mm) | Resolution (inch) | Accuracy (mm) | Accuracy (inch) |
|--------------|------------|--------------|-----------------|-------------------|---------------|-----------------|
| MW430-01DABS | 0-12.5 | 0-0.5 | 0.001 | 0.00005 | ±0.004 | ±0.0002 |
| MW430-02DABS | 0-25.4 | 0-1.0 | 0.001 | 0.00005 | ±0.005 | ±0.00025 |
| MW430-03DABS | 0-50.8 | 0-2.0 | 0.001 | 0.00005 | ±0.006 | ±0.0003 |

Digital Absolute Indicator - 430-DABS Series

| Code No | Description |
|----------------|--|
| MW-Y100/700USB | Data Cable-USB to suit all DABS products |



Dial Indicator 401 Series

At a Glance

- Standard: ANSI B89.1.10
- Aluminium body

Features

- With tungsten carbide contact point
- Adjustable bezel with stop screw
- Tolerance indicators



| Dial Indicator - 401 Series - Metric | | | | | |
|--------------------------------------|------------|-----------------|---------------|---------------------|--------------------|
| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) | Bezel Diameter (mm) | Stem Diameter (mm) |
| MW401-05 | 0-25.0 | 0.01 | ±0.035 | 60 | 8 |

| Dial Indicator - 401 Series - Imperial | | | |
|--|--------------|-------------------|----------------------|
| Code No | Range (inch) | Resolution (inch) | Stem Diameter (inch) |
| MW401-01 | 0-0.5 | 0.001 | 3/8 |
| MW401-02 | 0-1.0 | 0.001 | 3/8 |

Visit our Website

For more information please click here



Dial Test Indicator 420 Series

At a Glance

- Standard: ANSI B89.1.10, DIN2270
- Automatic reversal of measuring direction

Features

- High precision fully jewelled bearings
- Rotating dial
- Two dovetail clamps
- Carbide points
- Styli length: 12mm / 1/2", M1.4 thread



| Dial Test Indicator - 420 Series - Metric | | | | | |
|---|------------|-----------------|-------------------|--------------------|---------------|
| Code No | Range (mm) | Graduation (mm) | Dial Reading (mm) | Dial Diameter (mm) | Accuracy (mm) |
| MW420-03 | 0.8 | 0.01 | 0-40-0 | 25 | 0.013 |
| MW420-04 | 0.8 | 0.01 | 0-40-0 | 37 | 0.013 |

| Dial Test Indicator - 420 Series - Imperial | | | | | |
|---|--------------|-------------------|---------------------|----------------------|-----------------|
| Code No | Range (inch) | Graduation (inch) | Dial Reading (inch) | Dial Diameter (inch) | Accuracy (inch) |
| MW420-031 | 0.030 | 0.0005 | 0-15-0 | 1 | 0.0005 |
| MW420-041 | 0.030 | 0.0005 | 0-15-0 | 1 1/2 | 0.0005 |



Dial Indicator 400 Series

At a Glance

- Standard: DIN 878
- Satin-chromed body

Features

- With tungsten carbide contact point
- With double dial indicator for measuring mm stroke
- Shockproof
- Micron versions are jewelled
- Adjustable bezel with stop screw
- Packed in foam box



MW400-01



MW400-02



MW400-03



MW400-04



MW400-05



MW400-06

Dial Indicator 400 Series



MW400-06B



MW400-08



MW400-09



DIP223M

Dial Indicator - 400 Series

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) | Dial Diameter (mm) | Description |
|------------|------------|-----------------|---------------|--------------------|------------------------|
| MW400-01 | 0-1.0 | 0.001 | ±0.004 | 58 | Flat back |
| MW400-02 | 0-1.0 | 0.001 | ±0.004 | 58 | Lug back |
| MW400-03 | 0-3.0 | 0.01 | ±0.012 | 42 | Lug back and flat back |
| MW400-04 | 0-5.0 | 0.01 | ±0.014 | 42 | Lug back |
| MW400-05 | 0-10.0 | 0.01 | ±0.016 | 58 | Flat back |
| MW400-06 | 0-10.0 | 0.01 | ±0.016 | 58 | Lug back |
| MW400-06B* | 0-10.0 | 0.01 | ±0.02 | 54 | Waterproof |
| MW400-08 | 0-30.0 | 0.01 | ±0.035 | 58 | Lug back |
| MW400-09 | 0-50.0 | 0.01 | ±0.04 | 58 | Lug back |

DIP223M

| Code No | Range (mm) | Graduation (mm) | One Revolution of Pointer | Scale Reading | Bezel Diameter | Stem Diameter | Lug Back No. |
|-----------|------------|-----------------|---------------------------|---------------|----------------|---------------|--------------|
| DIP223M † | 10 | 0.01 | 1mm | 0-100 | 58mm | 8mm h6 | DIS848X |

* Waterproof † Shockproof



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Dial Test Indicator 421 Series

At a Glance

- Rotating dial and two dovetail clamp

Features

- Standard: ANSI B89.1.10, DIN2270
- Automatic reversal of measuring direction
- High precision fully jewelled bearings
- Carbide points
- Styli length: 12mm / 1/2"



MW421-01

Dial Test Indicator 421 Series - Metric

| Code No | Range (mm) | Accuracy (mm) | Dial Reading (mm) | Dial Diameter (mm) | Graduation (mm) |
|----------|------------|---------------|-------------------|--------------------|-----------------|
| MW421-01 | 0.2mm | 0.004 | 0-100-0 | 25 | 0.002 |
| MW421-02 | 0.2mm | 0.004 | 0-100-0 | 37 | 0.002 |

Dial Test Indicator 421 Series - Imperial

| Code No | Range (inch) | Accuracy (inch) | Dial Reading (inch) | Dial Diameter (inch) | Graduation |
|-----------|--------------|-----------------|---------------------|----------------------|------------|
| MW421-01i | 0.008 | 0.0002 | 0-4-0 | 1 | 0.0001 |
| MW421-02i | 0.008 | 0.0002 | 0-4-0 | 1 1/2 | 0.0001 |

Visit our Website

For more information please click here



Dial Test Indicator 422 Series

At a Glance

- Long range - twice the range of most indicators.

Features

- Standard: ANSI B89.1.10, DIN2270
- Automatic reversal of measuring direction
- High precision fully jewelled bearings
- Rotating dial
- Two dovetail clamps
- Carbide points
- Styli length: 12mm / 1/2"



MW422-01

Dial Test Indicator 422 Series - Metric

| Code No | Range (mm) | Accuracy (mm) | Dial Reading (mm) | Dial Diameter (mm) | Graduation (mm) |
|----------|------------|---------------|-------------------|--------------------|-----------------|
| MW422-01 | 1.6 | 0.013 | 0-40-0 | 37 | 0.01 |

Dial Test Indicator 422 Series - Imperial

| Code No | Range (inch) | Accuracy (inch) | Dial Reading (inch) | Dial Diameter (inch) | Graduation |
|-----------|--------------|-----------------|---------------------|----------------------|------------|
| MW422-01i | 0.060 | 0.0005 | 0-15-0 | 1 1/2 | 0.0005 |

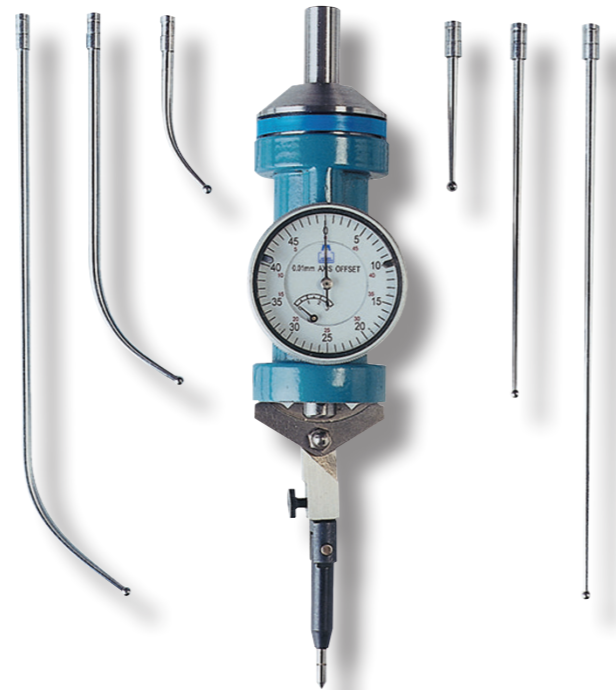
Universal Centre Finder with Indicator

At a Glance

- Universal equipment for finding the centre of a bore or to measure the concentricity of work pieces

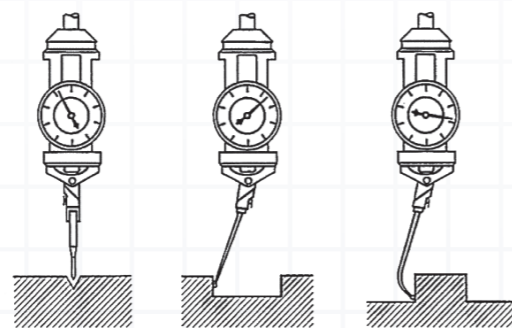
Features

- Indicator always faces operator, also when spindle runs
- With double indicator for maximum accuracy
- For vertical and horizontal use
- Includes 6 touch points for internal and external measurement



Universal Centre Finder with Indicator

| Code No | Range - Internal (mm) | Range - External (mm) | Concentricity (mm) | Accuracy (mm) | Indicator Range (mm) |
|----------|-----------------------|-----------------------|--------------------|---------------|----------------------|
| MW612-01 | 3.5-300 | 0-300 | 0.005 | 0.01 | 0-3 |



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Dial Test Indicator Accessories

INDICATORS



Dial Test Indicator Accessories

| Code No | Description |
|-----------|---|
| MW-Z40010 | Universal Holder |
| MW-Z40012 | Contact point 12mm length, 1mm steel ball |
| MW-Z40013 | Contact point 12mm length, 2mm carbide ball |
| MW-Z40014 | Contact point 12mm length, 3mm carbide ball |

Dial Test Indicator Accessories

| Code No | Description |
|-----------|--|
| MW-Z40016 | Contact point 1/2" length, 0.040" steel ball |
| MW-Z40018 | Contact point 1/2" length, 0.120" carbide ball |
| MW-Z40020 | Dovetail stem 4mm clamping diameter |
| MW-Z40022 | Dovetail stem 8mm clamping diameter |



Magnetic Indicator Stand 475 Series

At a Glance

- Magnetic force 80Kg / 175lbs

Features

- Basic type, with fine adjustment, can be used with indicators with or without lug back
- With powerful on / off magnetic base
- Accepts dial test indicators, digital indicators and normal indicators
- Extra rigid



Magnetic Indicator Stand - 475 Series

| Code No | Description |
|----------|----------------------|
| MW475-01 | With fine adjustment |

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For more information please click here



Magnetic Indicator Stand 470 Series

At a Glance

- Magnetic force 80Kg / 175 LBS

Features

- Basic type, without fine adjustment, can be used with indicators with or without lug back
- With powerful on/off magnetic base
- Accepts dial test indicators, digital indicators and normal indicators
- Extra rigid



Magnetic Indicator Stand - 470 Series

| Code No | Description |
|----------|-------------------------|
| MW470-01 | Without fine adjustment |



Flexible Magnetic Base 496 Series

At a Glance

- Magnetic force 40kg / 85lbs

Features

- Corrosion resistant chrome plated flex arm
- Holds rigidly in almost any position
- V -base for mounting on rounded surfaces



Flexible Magnetic Base - 496 Series

| Code No | Description |
|----------|-----------------------------------|
| MW496-01 | Mechanically locking flexible arm |

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For more information please click here



Hydraulic Magnetic Base 485 Series

At a Glance

- Magnetic force 80Kg / 175lbs

Features

- Features a unique hydraulic central lock for all arms and swivel positions
- Super solid model
- With fine adjustment
- With powerful on/off magnetic base
- Universal model which can be used for indicators with or without lug on back plate
- Accepts dial test indicators, digital indicators and normal indicators
- Dovetail groove for clamping a dial test indicator
- Super rigid



Hydraulic Magnetic Base - 485 Series

| Code No | Description |
|----------|--|
| MW485-01 | Universal arm with single hydraulic locking knob |



Articulating Magnetic Base with Fine Adjustment 477 Series

At a Glance

- 30kg clamp force

Features

- Versatile magnetic base that can be adjusted in almost unlimited ways
- With fine adjustment
- V-base for mounting on rounded surfaces



Articulating Magnetic Base with Fine Adjustment - 477 Series

| Code No | Description |
|----------|---------------------------------------|
| MW477-01 | Articulating arm with fine adjustment |



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Mini Magnetic Base 497 Series

At a Glance

- 1 universal ball socket

Features

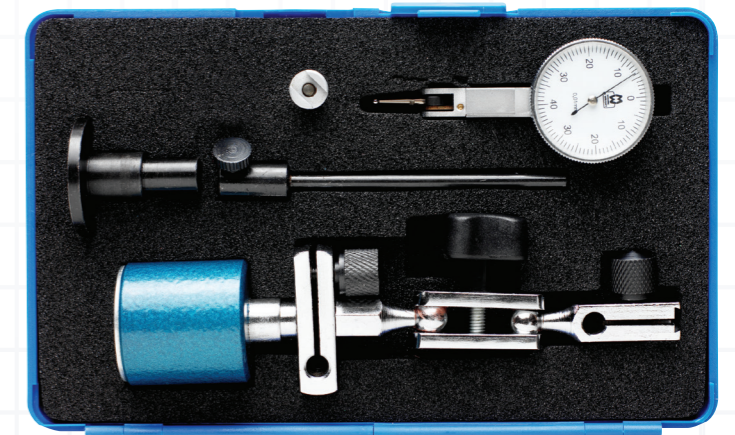
- Microfine adjustment screw
- Dovetail mounting
- Chuck adapter



MW497-01

Mini Magnetic Base - 497 Series

| Code No | Description |
|----------|---------------|
| MW497-01 | Mini mag base |





Magnetic Base and Indicator Set

At a Glance

- Includes MW475-01 magnetic base with fine adjustment and MW400-06 0-10mm/0.01mm dial indicator

Features

- Combined set for extra value



Magnetic Base and Indicator Set

| Code No | Description |
|------------|--|
| MW475-SET1 | Magnetic base with MW400-06 dial indicator |

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Magnetic Base and Indicator Set

At a Glance

- Includes MW475-01 magnetic base with fine adjustment and MW405-04DB 0-12.5mm/0.01mm digital indicator

Features

- Combined set for extra value



Magnetic Base and Indicator Set

| Code No | Description |
|------------|---|
| MW475-SET2 | Magnetic base with MW405-04DB digital indicator |



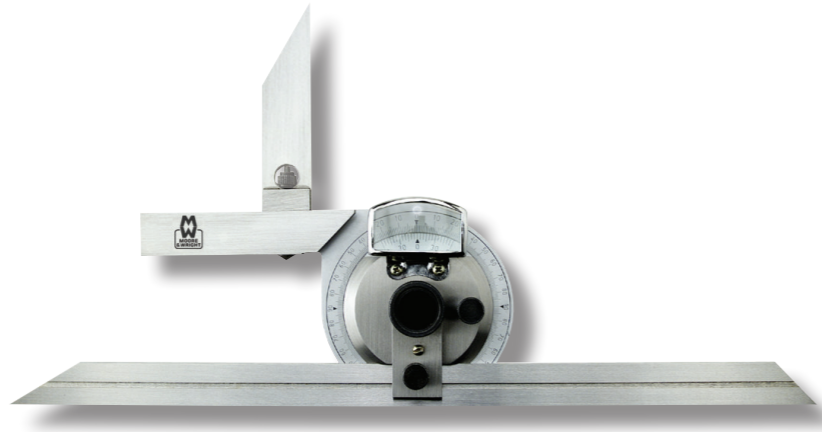
Universal Bevel Protractor

At a Glance

- Made of high quality hardened and ground stainless steel

Features

- High precision satin chromed scale
- Minimum reading 5 minutes
- Magnifying glass for easy reading
- With fine adjustment and acute angle attachment
- 300mm / 12" and 150mm / 6" rule
- Packed as set in plastic box



Universal Bevel Protractor

| Code No | Range |
|----------|-------|
| MW500-01 | 360° |

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For more information please click here



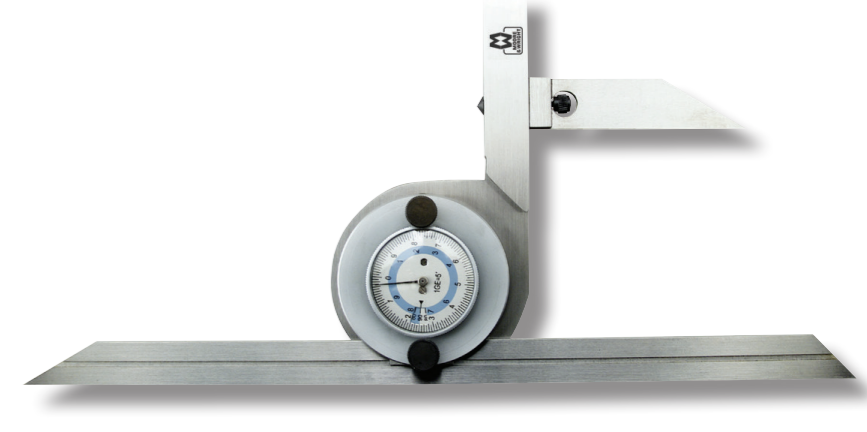
Dial Bevel Protractor

At a Glance

- Features high quality indicator
- Made of high quality hardened and ground stainless steel

Features

- High precision satin chromed scale
- Minimum reading 5 minutes
- With fine adjustment and acute angle attachment
- 300mm / 12" rule and 150mm / 6" rule
- Packed as set in plastic box



Dial Bevel Protractor

| Code No | Range |
|----------|-------|
| MW510-01 | 360° |



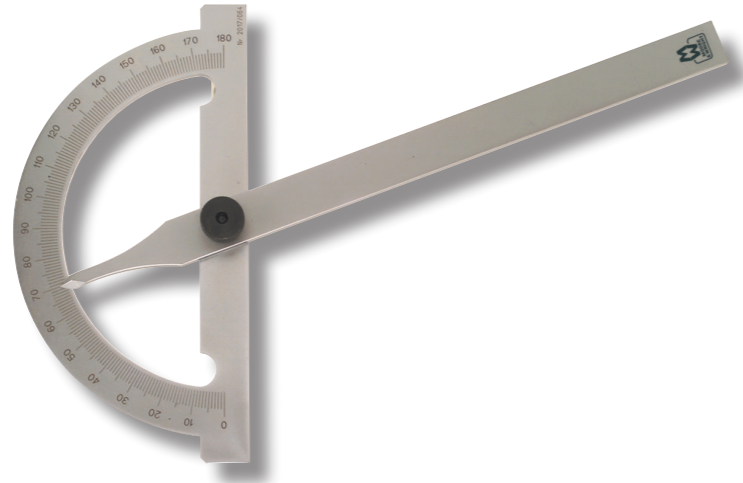
Protractor with Rule 946 Series

At a Glance

- Rule 80-200mm Diameter

Features

- Made of tool steel
- Satin chromed laser engraved scale
- Robust and durable design



MW946-01

Protractor With Rule - 946 Series

| Code No | Length (mm) | Diameter of Scale (mm) |
|----------|-------------|------------------------|
| MW946-01 | 120 | 80 |
| MW946-02 | 150 | 120 |
| MW946-03 | 200 | 150 |
| MW946-04 | 300 | 200 |



Digital Protractor

At a Glance

- Hold function
- Reversible reading

Features

- Large LCD display
- Strong magnets on all blade edges
- Easy-to-use and strong lock device

PROJECTORS & COMBINATION SETS



MW505-02

MW505-01

Digital Protractor

| Code No | Accuracy ° | Range | Size | Resolution |
|----------|------------|-------|-------------|------------|
| MW505-01 | ±0.2 | 360° | 100mm / 4" | 0.05° |
| MW505-02 | ±0.2 | 360° | 200mm / 8" | 0.05° |
| MW505-03 | ±0.2 | 360° | 300mm / 12" | 0.05° |



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Digital Combination Set 4pc

At a Glance

- Full 360° reading, accuracy 0.2° per 180°, resolution 0.05°

Features

- Digital protractor with LCD display
- Reverse reading, hold reading and display orientation functions
- Square head with 45° and 90° angles, accuracy ±0.025mm (±0.001")
- Centre head, accuracy ±0.025mm (±0.001")
- Protractor, centre and square with locking knobs
- Chrome plated stainless steel beam 305mm (12")
- Spirit level for quick reference
- Marking scribe
- Battery 3V CR2032 with auto power off
- Supplied in a durable plastic case
- Total weight, 1.4Kg including case

The **Moore & Wright Digital Combination Set** is an essential tool for precision measurement and layout in a variety of professional applications. This versatile set includes a Digital Protractor Head, a Centre Head, and a Square Head, mounted on a chrome plated Stainless Steel Beam and each designed for superior accuracy and ease of use.

The Digital Protractor Head offers a 360° reading capability, both in direct and reverse directions, with an impressive accuracy of 0.2° per 180°. It features a high-resolution digital display and multiple functions, including zeroing the reading, inverting the display, and holding readings for convenience. Its robust design also includes a spirit level and lock knobs for secure blade and protractor positioning.

The Centre Head excels at locating the centre of round or square objects with an accuracy of ± 0.025mm (0.001"), making it indispensable for tasks requiring precise alignment. Meanwhile, the Square Head ensures accurate determination of 45°, 90° angles and parallel lines, with the same ± 0.025mm (0.001") precision, perfect for checking squareness and layout consistency.



Digital Combination Set 4pc

PROJECTORS & COMBINATION SETS



MW522-01

This combination set is ideal for machinists, woodworkers, and engineers, offering unmatched versatility, durability, and precision for a wide range of measurement tasks. Whether you're marking, measuring, or aligning, the Moore & Wright Digital Combination Set ensures accuracy and reliability in every use.

Digital Combination Set 4pc

| Code No | Range | Accuracy | | | Resolution Digital Protractor Head |
|----------|-------|-------------------------|--------------------|--------------------|------------------------------------|
| | | Digital Protractor Head | Centre Head | Square Head | |
| MW522-01 | 180° | 0.2° per 180° | ±0.025mm (±0.001") | ±0.025mm (±0.001") | 0.05° |



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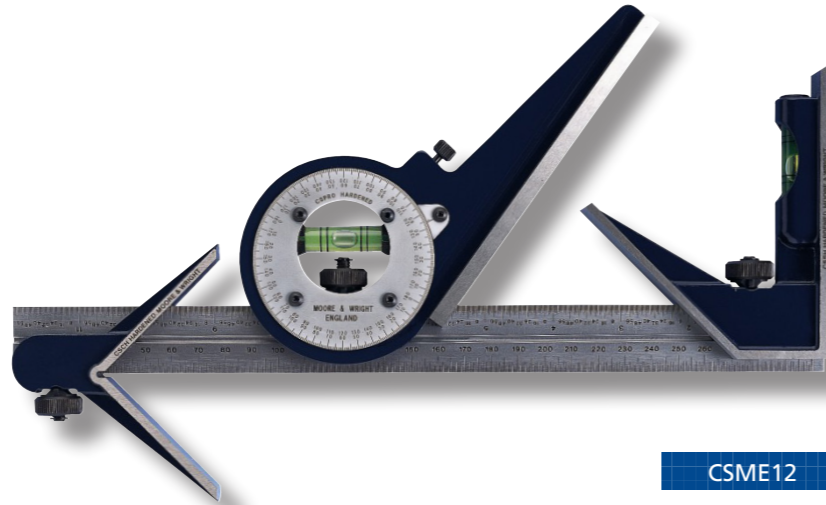
Traditional Precision Combination Set - CSME12 - Metric/Imperial

At a Glance

- Protractor has full 360° scale plate, graduated 0 - 180° - 0

Features

- Fully hardened and tempered precision rules with deeply etched graduations on both sides
- Metric/Imperial Traditional Precision Combination Set
- Fully hardened and ground datum faces to resist wear
- Centrally mounted protractor vial allows unrestricted viewing
- Satin chrome scale plate on protractor
- Unique rule clamp allows positive location and clamping
- Square head offers the following fixed angles: 15°, 30°, 45°, 60°, 75° & 90°
- Centre head offers a fixed 90° angle, for finding the centre of round bar stock up to 120mm diameter
- Clipped corner on rule to maximise capability



CSME12

Traditional Precision Combination Set - CSME12 - Metric/Imperial

| Code No | Application Range | Description |
|---------|---------------------------|---|
| CSME12 | Precision Combination Set | Full set inc. 300mm / 12" rule, Protractor head, Square head & Centre head |
| CSRME12 | Rule, 300mm / 12" | Metric graduations: in 0.5mm, numbered every 10mm Imperial graduations: 32nds and 64ths numbered every 1/8" |
| CSRME24 | Rule, 600mm / 24" | Metric graduations: in 0.5mm, numbered every 10mm. Imperial graduations: 32nds and 64ths numbered every 1/8" |

Replacement Components (To suit CSM300 & CSME12)

| | |
|----------|------------------------------|
| CSPRO | Protractor head |
| CSSH | Square head |
| CSCH | Centre head |
| RPCSCS-S | Replacement rule clamp screw |

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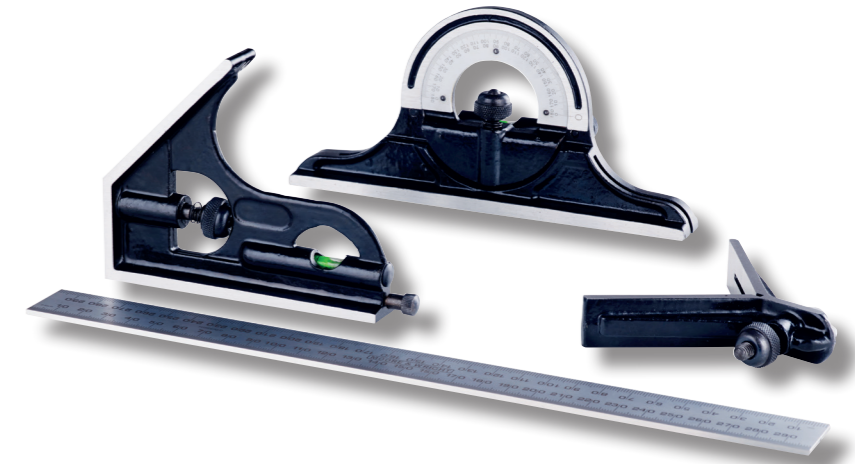
Workshop Combination Set 521 Series

At a Glance

- Square head, protractor head and centre head

Features

- Three measuring heads are attached to the 300mm / 12" stainless steel ruler, allowing versatile measurements on various types of work pieces
- For various measuring and marking applications
- Hardened and ground slide ways
- Stainless steel rule with engraved graduations; one side metric, one side imperial

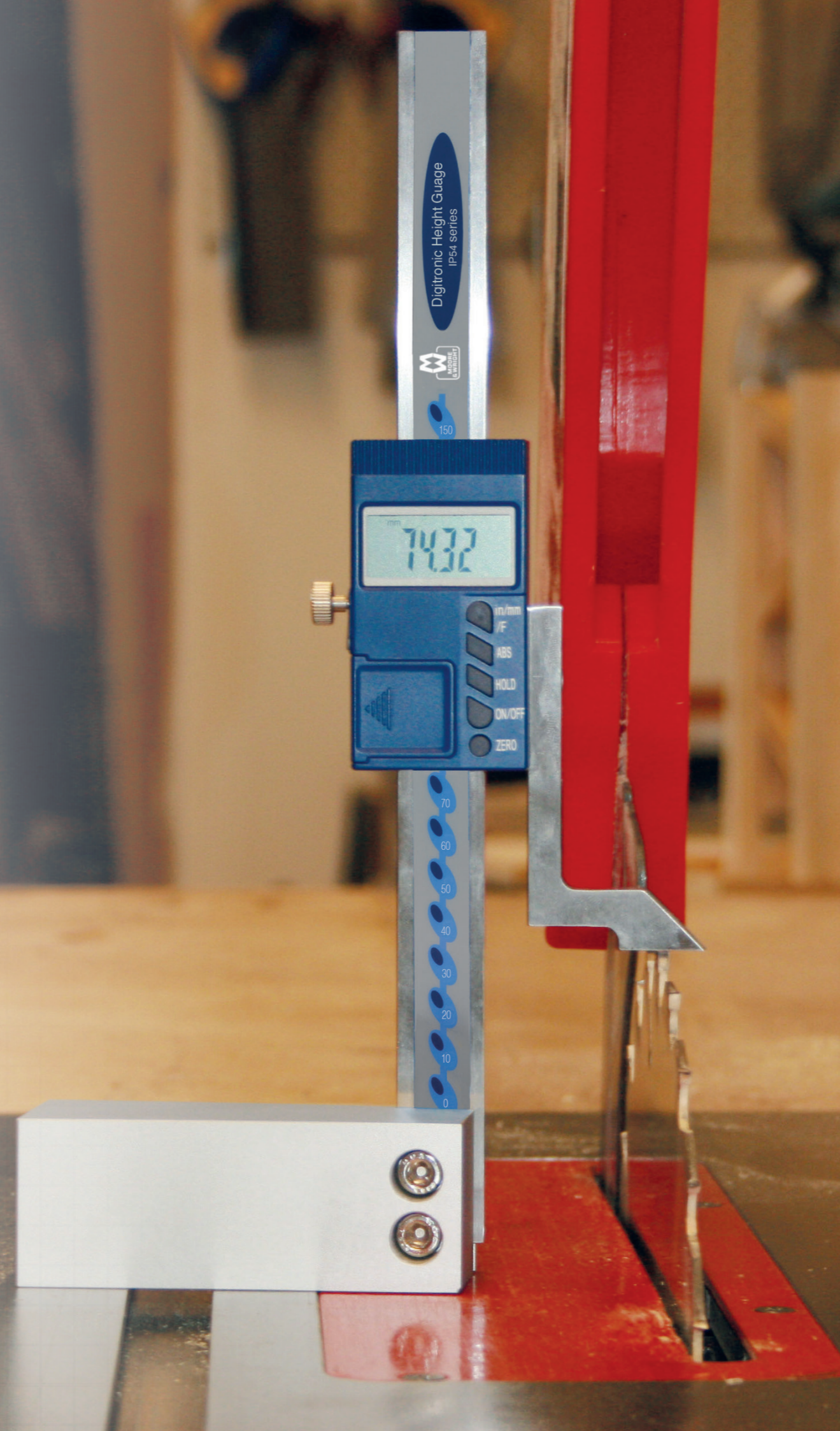


Workshop Combination Set - 521 Series

| Code No | Range | Description |
|----------|-------|----------------|
| MW521-01 | 180° | 4 items in set |

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Height Gauges



MW197 Series Digital Height Gauge

At a Glance



Range: 0-300mm (0-24")



IP40 ingress protection

Features

- Large backlit colour LCD display
- Built in wireless data transfer for data input directly to a Windows application (Excel, Word, Notepad)
- Absolute and incremental functions with measurement hold
- 1.6m/s response speed
- Tolerance setting for Go/No Go indication
- Large handwheel for fine raising and lowering of carbide tipped measuring scribe
- IP40 ingress protection
- Hard protective plastic case
- Working temperature = 0-40°C
- External Power port
- CR2450 lithium battery
- Automatic power off



MW197-30DDL

Visit our Website

For more information please click here

MW197 Series Digital Height Gauge

The Moore & Wright MW197 Digital Height Gauge is designed for accuracy and ease of use in any workshop. Featuring a large backlit colour LCD display, this gauge ensures clear visibility in various lighting conditions. The built-in wireless data transfer capability allows seamless data export directly to Windows applications such as Excel, Word, and Notepad, streamlining your workflow and eliminating manual error when recording readings.

Experience the perfect blend of functionality with both absolute and incremental measurement modes, a measurement hold feature and locking lever. The gauge's impressive response speed of 1.6 m/s enhances your efficiency, while the tolerance setting provides instant Go/No Go indication for rapid assessments.

The MW197 is equipped with a large handwheel for precise adjustments of the carbide-tipped measuring scribe, ensuring meticulous accuracy. Built with IP40 ingress protection and a hard protective case for durability.

MW197 Series Digital Height Gauge Specification

| Code No. | Range (mm/inch) | Range (inch) | Resolution (mm) | Resolution (inch) | Accuracy (mm) | Accuracy (inch) |
|-------------|-----------------|--------------|----------------------------|--------------------------------|---------------|-----------------|
| MW197-30DDL | 0-300 | 0-12 | 0.01 or 0.001 (selectable) | 0.0005 or 0.00005 (selectable) | 0.02 | 0.001 |
| MW197-60DDL | 0-600 | 0-24 | 0.01 or 0.001 (selectable) | 0.0005 or 0.00005 (selectable) | 0.04 | 0.0015 |





192 Digital Mini Height Gauge

At a Glance



Range: 0-150mm (0-6")



Water and dust resistant to IP54 specification

Features

- Large LCD display
- Solid aluminium alloy base with magnets
- Functions: ABS / INC (absolute and incremental), zero setting, on/off
- Reading options: Metric / Inches / Fractions
- Hardened stainless steel beam
- Locking screw for position hold
- CR2032 battery
- Supplied in a durable plastic case

Experience the ultimate precision in your measurements with our **Moore & Wright Digital Mini Height Gauge**. This compact and versatile measuring tool is designed to deliver accurate height measurements with ease and efficiency. Whether you need to measure the height of a workpiece, set up machinery, check drill depths, or perform quality control inspections, our adaptable height gauge delivers accurate and reliable results every time.



192 Digital Mini Height Gauge - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) |
|-----------|------------|-----------------|---------------|
| MW192-20D | 0-150 | 0.01 | 0.03 |

192 Digital Mini Height Gauge - Imperial

| Code No | Range (inch) | Resolution (inch) | Accuracy (inch) |
|-----------|--------------|-------------------|-----------------|
| MW192-20D | 0-6 | 0.0005 | 0.001 |

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190 Series Height Gauge

At a Glance



Range: 0-600mm (0-24")

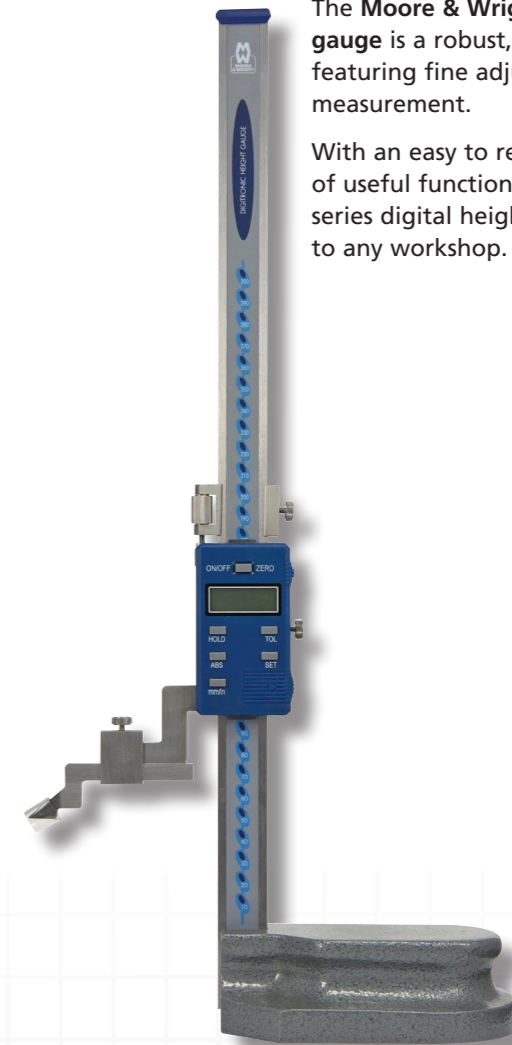
Features

- Easy to read LCD display
- Functions: mm/inch conversion, on/off, zero setting, battery low indication
- Soft keys for maximum operating comfort
- Ground micro-lapped measuring surfaces

HEIGHT GAUGES

The **Moore & Wright 190 series digital height gauge** is a robust, easy to use height gauge featuring fine adjustment for high precision measurement.

With an easy to read LCD display and range of useful functions, the Moore & Wright 190 series digital height gauge is a great addition to any workshop.



MW190-30DBL

190 Series Height Gauge (Metric)

| Code No | Range (mm) | Accuracy (mm) | Resolution (mm) | Size of base (mm) |
|-------------|------------|---------------|-----------------|-------------------|
| MW190-30DBL | 0-300 | 0.04 | 0.01 | 90 x 140 |
| MW190-50DBL | 0-500 | 0.05 | 0.01 | 120 x 180 |
| MW190-60DBL | 0-600 | 0.05 | 0.01 | 120 x 180 |

190 Series Height Gauge - (Imperial)

| Code No | Range (inch) | Accuracy (inch) | Resolution (inch) |
|-------------|--------------|-----------------|-------------------|
| MW190-30DBL | 0-12 | 0.002 | 0.001 |
| MW190-50DBL | 0-20 | 0.002 | 0.001 |
| MW190-60DBL | 0-24 | 0.002 | 0.001 |



Digital 193 Series Height Gauge

At a Glance



Range: 0-600mm

Features

- Easy to read LCD Display
- **Functions:** mm/inch conversion, on/off, zero setting, battery low indication
- Add or subtract a pre-set value
- Ground & micro lapped measuring surfaces
- Carbide tipped measuring scribe
- Hand wheel operation with positive lock
- Fine adjustment for high precision measurement
- SR44 button cell battery
- Supplied in a durable plastic case



MW193-30DDL

The Moore & Wright 193 series digital height gauge is a robust, easy to use height gauge featuring fine adjustment for high precision measurement.

With an easy to read LCD display and range of useful functions, the Moore & Wright 193 series digital height gauge is a great addition to any workshop.

Digital 193 Series Height Gauge

| Code No | Range (mm) | Accuracy (mm) | Repeatability (mm) | Resolution (mm) |
|-------------|------------|---------------|--------------------|-----------------|
| MW193-30DDL | 0-300 | +/- 0.040 | 0.01 | 0.01 |
| MW193-60DDL | 0-600 | +/- 0.050 | 0.01 | 0.01 |

CASE STUDY

Moore & Wright Offers Faith in Every Measurement for Hack Engineering



Hack Engineering has strengthened its precision measurement accuracy by investing in a large selection of Moore & Wright tools.

Originating in 2014 as a supplier of high-end performance parts for BMW, Hack Engineering's success soon led to the exponential growth of the business, seeing the opening of its first workshop, engine building facilities, part supply operations, and the creation of its own-branded machine shop.

The Moore & Wright tool portfolio is used on a daily basis throughout the business, whether in the engine build room measuring cylinder bores, in the machine shop measuring interference fit on valve guides or checking valve shim dimensions in the workshop. The ensured quality of the tools has allowed Hack Engineering to be confident in the accuracy of the work it carries out.

Research and development have been key to the Moore & Wright brand as it strives to continue the legacy started by Frank Moore. Over 200 products within its range of workshop tools complement many businesses and industries, offering highly precise measurements in an array of applications. With more than 100 years of experience in designing, manufacturing, and supplying measuring equipment, it is committed to offering the best service to customers across the globe ring equipment, it is committed to offering the best service to customers across the globe.

Alex Lester, Technical Director at Hack Engineering said.

“When trying to find those last few horsepower, precision is always going to be your friend. Availability and accuracy have always been important buying decisions when we are looking for new tooling. By using Moore & Wright, it has allowed us to have faith in every measuring process.”

Alex joined as a business partner in 2018, bringing with him a wealth of machining and engine reconditioning knowledge, forming the basis of Hack Engineering Machine Shop. By moving machine work in-house, engine-building became ever more prominent in the company's offering, and it has continued to rapidly grow ever since

The Machine Shop now caters for all machining requirements, both within the performance and simple reconditioning world. Its workshop covers a variety of day-to-day processes, such as full cylinder head overhauls, valve grinding and block boring and honing.

With a dedicated engine building room on-site, all of the specialist tooling required is readily available and has led the team at Hack Engineering to build many successful engines for fast road, forced induction, race and rally use.

“Head into the engine building department and you will see many Moore & Wright tools, some even dating back well into the early years of the last century.”

As with all engine building processes, having the correct tools is absolutely critical.”

As a big advocate of the quality of Moore & Wright products, Hack Engineering has recently added to its outfit with a special 3D printing and design studio, with a plethora of tools available to all staff throughout the business.

Visit our Website

For more information please click here

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Levelling



IP65 Magnetic Digital Level

At a Glance

 Measuring Range: 4 x 90°

 IP65 Electronics

Features

- Level measuring function
- Relative angle measuring
- Magnets on bottom measuring surface
- Built in battery with Micro USB charging
- Wireless connectivity (MW575-01WIP)
- IP65 rated



MW575-01DIP

IP65 Magnetic Digital Level

| Code No | Description | Accuracy (°) | Resolution (°) |
|-------------|-----------------------------------|--------------|----------------|
| MW575-01DIP | Magnetic Digital Level | ±0.2 | 0.05 |
| MW575-01WIP | Magnetic Digital Level (Wireless) | ±0.2 | 0.05 |



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Digital Height Pre-Setter

At a Glance

 Range: <2.5mm / <0.12"

 IP65 Electronics

Features

- Inductive measurement system
- 2.5mm travel
- 2 button design (On/Off + Set / mm/inch)
- LCD lights up when display shows 0.000
- Auto-on when measuring surface is moved
- CR2032 battery



Digital Height Pre-Setter - Metric

| Code No | Range (mm) | Resolution (mm) | Accuracy (mm) | Repeatability (mm) |
|-------------|------------|-----------------|---------------|--------------------|
| MW620-03DIP | <2.5 | 0.001 | 0.005 | 0.003 |

Digital Height Pre-Setter - Imperial

| Code No | Range (inch) | Resolution (inch) | Accuracy (inch) | Repeatability (inch) |
|-------------|--------------|-------------------|-----------------|----------------------|
| MW620-03DIP | <0.12 | 0.00005 | 0.0002 | 0.0001 |





Digital Mini-Mag Level 570 Series

At a Glance



Measuring Range: 360° (4 x 90°)

Features

- Embedded magnets on two sides
- Standard 9V battery
- Dimensions: L60mm x H60mm x W35mm
- Wireless connectivity (MW570-01W)



MW570-01W

Digital Mini-Mag Level - 570 Series

| Code No | Description | Accuracy (°) | Resolution (°) |
|-----------|-----------------------------------|--------------|----------------|
| MW570-01 | Digital Mini-Mag Level | ±0.2 | 0.05 |
| MW570-01W | Digital Mini-Mag Level (Wireless) | ±0.2 | 0.05 |



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Digital Level 580 Series

LEVELLING

At a Glance



Measuring Range: 4x90°

Features

- Precision inclinometer sensor
- CNC machined super flat edge
- Heavy duty aluminium alloy body, chrome finish
- Laser accurately extends level capabilities
- Strong magnets on underside
- Battery: standard 9V



MW580-01



MW580-02

Digital Level - 580 Series

| Code No | Size (mm) | Size (inch) | Resolution (°) |
|----------|-----------|-------------|----------------|
| MW580-01 | 150 | 6 | 0.05 |
| MW580-02 | 225 | 9 | 0.05 |
| MW580-03 | 600 | 24 | 0.05 |



Traditional Engineers' Level

At a Glance

- Main vial sensitivity of 1 minute
- Each level is fitted with a main, cross and plumb vial

Features

- Main vial protected by rotating shroud
- Vial solution maintains colour and fluidity under all workshop conditions
- Precision ground cast base with vee groove for location on cylindrical work

The **Moore & Wright Traditional Engineers' Level** is a key item in any engineer's toolkit.

Boasting a main vial sensitivity of 1 minute, the Moore & Wright Traditional Engineers' Level has a precision ground cast base with vee groove for location on cylindrical work.



ELM



ELS

Traditional Engineers' Level

| Code No | Length (mm) | Length (inch) | Width (mm) | Width (inch) | Height (mm) | Height (inch) | Resolution (mm) | Resolution (inch) |
|---------|-------------|---------------|------------|--------------|-------------|---------------|-----------------|-------------------|
| ELM | 310 | 12 | 36 | 1.42 | 58 | 2.28 | 0.3mm per metre | 0.0035" per foot |
| ELS | 165 | 6.5 | 34 | 1.34 | 46 | 1.81 | 0.3mm per metre | 0.0035" per foot |

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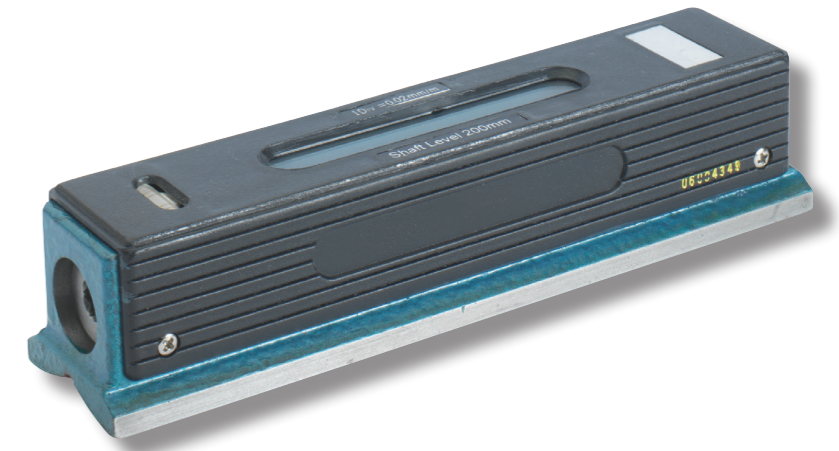
Engineers' Level 550 Series

At a Glance

- With four ground measuring faces

Features

- Features zero-point adjustment
- With V-slot on base
- Made of cast iron, solid and rigid construction
- With sub-level tube



Engineers' Level - 550 Series

| Code No | Size of Base (mm) | Sensitivity (mm/m) |
|----------|-------------------|--------------------|
| MW550-03 | Mini Level | 0.02 |

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Workshop



Traditional 'V' Blocks - Standard Pairs

Features

- Manufactured from close grained cast iron
- Ground faces
- Supplied in matched and numbered pairs

The **Moore & Wright Traditional 'V' Blocks** are supplied in matched and numbered pairs only.

Manufactured from close grained cast iron, The Moore & Wright Traditional 'V' Blocks boast ground faces and are supplied in matched and numbered pairs. Please see specification table for further product information.



213

Traditional 'Vee' Blocks - Standard Pairs - Metric

| Code No | Accuracy (mm) | Capacity (mm) | Length (mm) | Width (mm) | Height (mm) |
|---------|---------------|---------------|-------------|------------|-------------|
| 211 | 0.04 | 63 | 39 | 84 | 3.3 |
| 212 | 0.04 | 80 | 44 | 104 | 10.4 |
| 213 | 0.05 | 100 | 49 | 134 | 5.27 |
| 214 | 0.05 | 125 | 54 | 154 | 6.06 |
| 215 | 0.06 | 160 | 64 | 184 | 7.24 |
| 216 | 0.06 | 200 | 74 | 224 | 8.82 |

Traditional 'Vee' Blocks - Standard Pairs - Imperial

| Code No | Accuracy (mm) | Capacity (mm) | Length (mm) | Width (mm) | Height (mm) |
|---------|---------------|---------------|-------------|------------|-------------|
| 211 | 0.0015 | 2.48 | 1.55 | 3.3 | 2.52 |
| 212 | 0.0015 | 3.15 | 1.75 | 10.4 | 2.91 |
| 213 | 0.0020 | 3.94 | 1.95 | 5.27 | 3.7 |
| 214 | 0.0020 | 4.92 | 2.15 | 6.06 | 4.09 |
| 215 | 0.0025 | 6.30 | 2.54 | 7.24 | 5.27 |
| 216 | 0.0025 | 7.87 | 2.94 | 8.82 | 6.45 |

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Traditional 'V' Blocks & Clamps

Features

230 General Workshop Grade

- Manufactured from close grained cast iron
- Supplied in matched and numbered pairs
- One steel clamp and screw supplied per pair

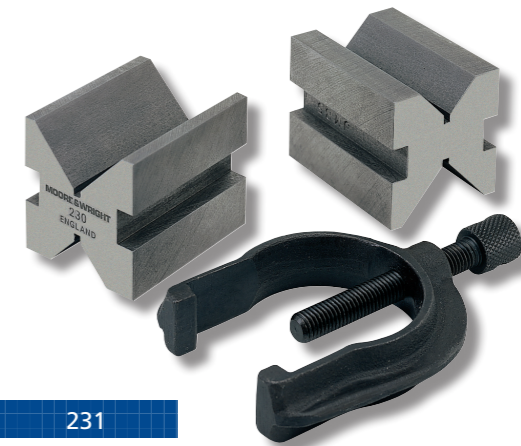
231 Precision Vee Blocks

- Manufactured to BS3731 grade B
- Manufactured from case hardened and ground mild steel
- Supplied in matched pairs only
- Two malleable iron clamps with steel screws supplied with each pair of blocks

Moore & Wright Traditional 'V' Blocks & Clamps are designed for checking precision machine parts, general workshop use, and holding stock when drilling and milling.

Spare screws are available:

- 23001 - Spare Clamp and Screw for 230
- 23101 - Spare Clamp and Screw for 231



230



231

Traditional 'Vee' Blocks & Clamps - Metric

| Code No | Range (mm) | Accuracy (mm) | Length (mm) | Width (mm) | Height (mm) |
|---------|------------|---------------|-------------|------------|-------------|
| 230 | 40 | 0.05 | 50 | 40 | 40 |
| 231 | 25 | 0.01 | 42 | 32 | 32 |

Traditional 'Vee' Blocks & Clamps - Imperial

| Code No | Range (inch) | Accuracy (inch) | Length (inch) | Width (inch) | Height (inch) |
|---------|--------------|-----------------|---------------|--------------|---------------|
| 230 | 1 1/2 | 0.020 | 2 | 1 1/2 | 1 1/2 |
| 231 | 1 | 0.004 | 1 5/8 | 1 1/4 | 1 1/4 |

Steel Pin Gauge Sets

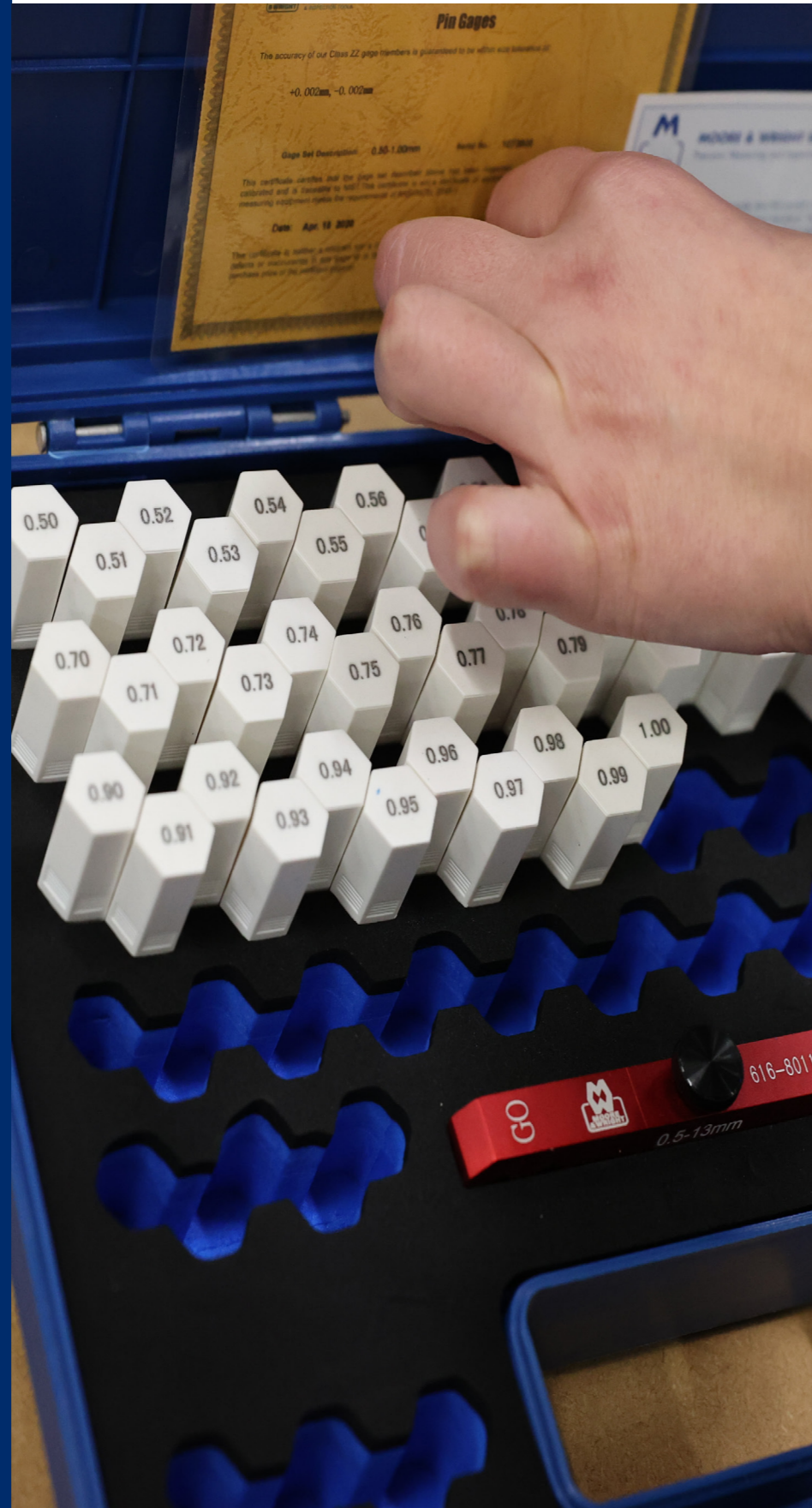
At a Glance



Manufacturing tolerance
+/- .002mm

Features

- Standard: Factory Standard
- Boxed sets complete with handle
- Each pin is laser engraved with its size
- above 1.5mm
- Each pin is stored in its own tube,
- marked with the pin size
- Pin length 50mm
- Supplied with a certificate of conformity
- Fully hardened to 60/62 HRC



Steel Pin Gauge Sets

Steel Pin Gauge Sets

| Code No | Description | |
|----------|----------------------------|--|
| MW725-01 | Steel Pin Gauge Set 51pce | 0.50-1.00x.01mm +/- 0.002mm C/W Handle |
| MW725-02 | Steel Pin Gauge Set 100pce | 1.01-2.00x.01mm +/- 0.002mm C/W Handle |
| MW725-03 | Steel Pin Gauge Set 100pce | 2.01-3.00x.01mm +/- 0.002mm C/W Handle |
| MW725-04 | Steel Pin Gauge Set 100pce | 3.01-4.00x.01mm +/- 0.002mm C/W Handle |
| MW725-05 | Steel Pin Gauge Set 100pce | 4.01-5.00x.01mm +/- 0.002mm C/W Handle |
| MW725-06 | Steel Pin Gauge Set 100pce | 5.01-6.00x.01mm +/- 0.002mm C/W Handle |
| MW725-07 | Steel Pin Gauge Set 100pce | 6.01-7.00x.01mm +/- 0.002mm C/W Handle |
| MW725-08 | Steel Pin Gauge Set 100pce | 7.01-8.00x.01mm +/- 0.002mm C/W Handle |
| MW725-09 | Steel Pin Gauge Set 100pce | 8.01-9.00x.01mm +/- 0.002mm C/W Handle |
| MW725-10 | Steel Pin Gauge Set 100pce | 9.01-10.00x.01mm +/- 0.002mm C/W Handle |



MW570-01

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Mic-Check Gauge Block Set - 715 Series

At a Glance

- For the inspection of Metric Micrometers according to DIN 863

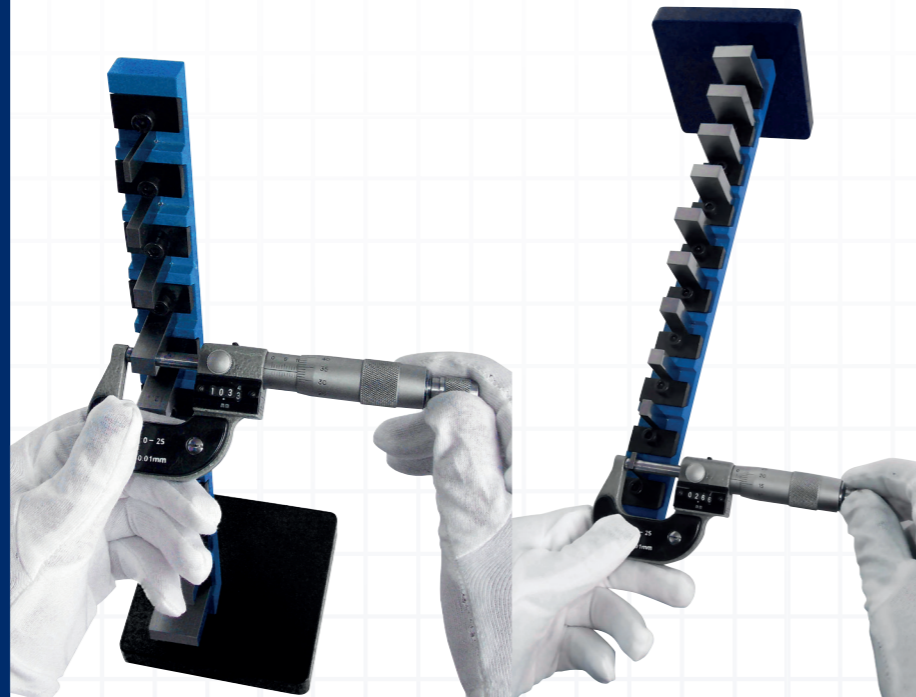
Features

- Nominal Gauge Sizes: 2.5, 5.1, 7.7, 10.3, 12.9, 15.0, 17.6, 20.2, 22.8, 25.0mm
- Inspection Grade: Grade 0
- Optical Flat: 30mm diameter, 12.0mm thick
- Supplied with a stand to conveniently hold the slip gauges
- Can be used horizontally or vertically
- Supplied in a fitted case with a M&W Calibration certificate



Mic-Check Gauge Block Set - 715 Series

| Code No | Description |
|----------|--|
| MW715-01 | 10 Piece Mic-Check Gauge Block Set plus Optical Flat |



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Dial Bore Gauge Setting Master - 720 Series

At a Glance

- For accurately setting any 2 point bore gauge up to 160mm in diameter to an accuracy of 0.01mm

Features

- Bore Gauge Setting Master Kit
- Setting master and 33 piece metric gauge block set supplied in plastic case

Setting Device

- Internal range 160mm
- Depth range 25mm
- Centraliser width 70mm
- Quick-release holder for fast adjustment

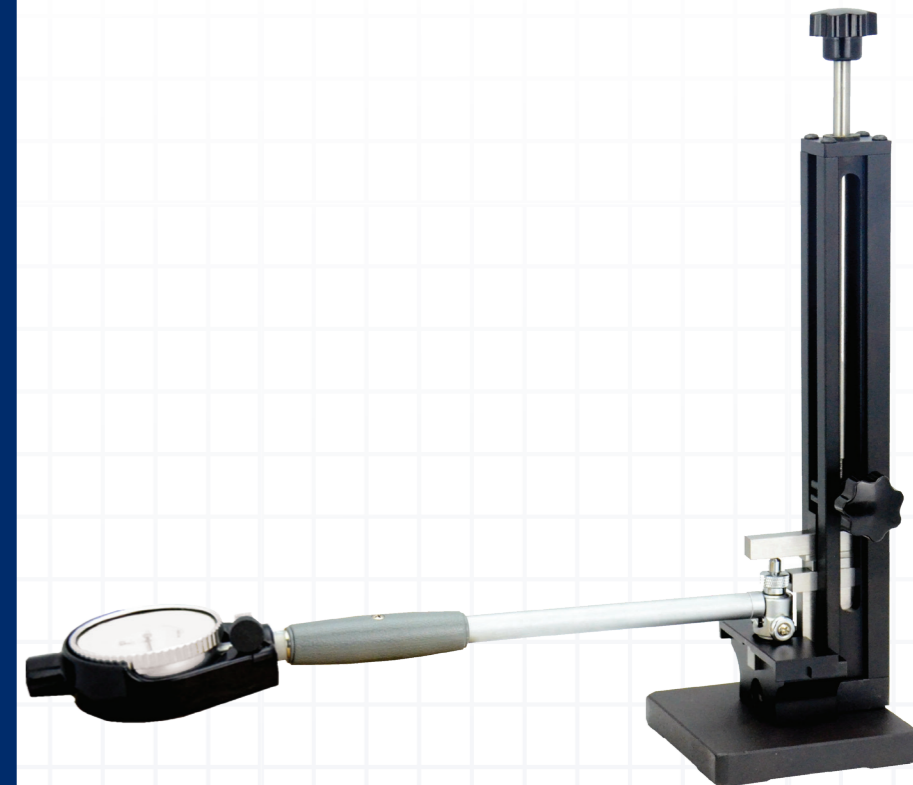
Gauge Block Set

- Accuracy to DIN 861, Grade2
- 33 piece metric steel set
- Supplied in a fitted case with a M&W Calibration certificate



Dial Bore Gauge Setting Master - 720 Series

| Code No | Description |
|----------|-------------------------------|
| MW720-01 | Bore Gauge Setting Master Kit |





126M Feeler Strip Singles - Imperial

At a Glance

- Hardened, tempered and polished steel.

Features

- Marked for easy identification
- Standard: DIN 2275
- Nominal thickness is marked on each strip
- Supplied 10pc each pack



1260001

126M Feeler Strip Singles - Imperial

| Code No | Length (inch) | Width (inch) | Thickness (inch) | Code No | Length (inch) | Width (inch) | Thickness (inch) |
|----------|---------------|--------------|------------------|---------|---------------|--------------|------------------|
| 1260001 | 12 | 0.5 | 0.001 | 1260013 | 12 | 0.5 | 0.013 |
| 12600015 | 12 | 0.5 | 0.0015 | 1260014 | 12 | 0.5 | 0.014 |
| 1260002 | 12 | 0.5 | 0.002 | 1260015 | 12 | 0.5 | 0.015 |
| 1260003 | 12 | 0.5 | 0.003 | 1260016 | 12 | 0.5 | 0.016" |
| 12600025 | 12 | 0.5 | 0.0025 | 1260017 | 12 | 0.5 | 0.017" |
| 1260004 | 12 | 0.5 | 0.004 | 1260018 | 12 | 0.5 | 0.018" |
| 1260005 | 12 | 0.5 | 0.005 | 1260019 | 12 | 0.5 | 0.019" |
| 1260006 | 12 | 0.5 | 0.006 | 1260020 | 12 | 0.5 | 0.020" |
| 1260007 | 12 | 0.5 | 0.007 | 1260021 | 12 | 0.5 | 0.021" |
| 1260008 | 12 | 0.5 | 0.008 | 1260022 | 12 | 0.5 | 0.022" |
| 1260009 | 12 | 0.5 | 0.009 | 1260023 | 12 | 0.5 | 0.023" |
| 1260010 | 12 | 0.5 | 0.01 | 1260024 | 12 | 0.5 | 0.024" |
| 1260011 | 12 | 0.5 | 0.011 | 1260025 | 12 | 0.5 | 0.025" |
| 1260012 | 12 | 0.5 | 0.012 | | | | |

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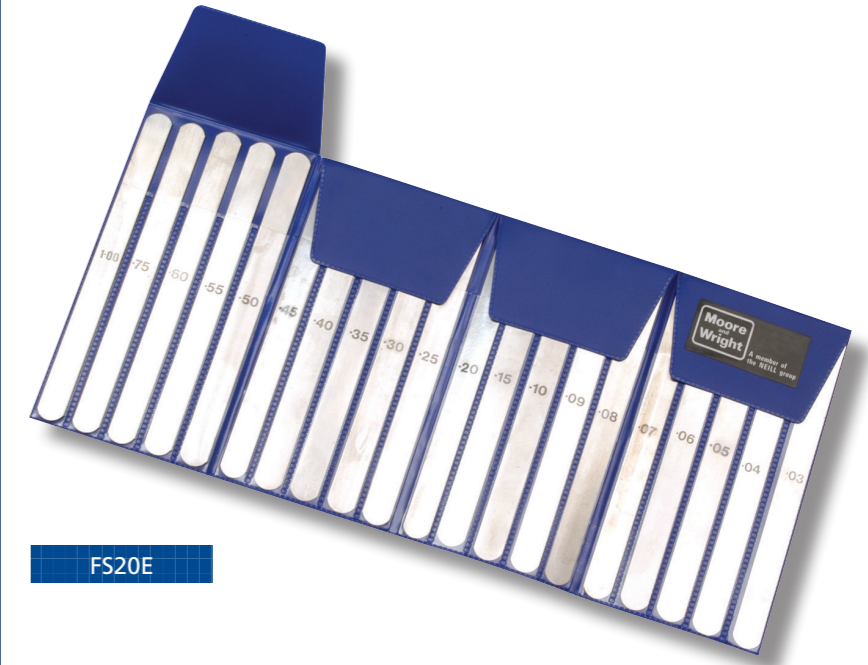
Feeler Strip Sets

At a Glance

- Hardened, tempered and polished steel.

Features

- Standard: DIN 2275
- 20 piece feeler strip in wallet
- Nominal thickness is marked on each strip
- Imperial Set: Length 6", Range 1-25 Thou
- Metric Set: Length 150mm, Range 0.03 to 1.00mm



FS20E

Feeler Strip Sets

| Code No | Description |
|---------|------------------------------------|
| FS20E | Imperial 20 Piece Feeler Strip Set |
| FS20M | Metric 20 Piece Feeler Strip Set |

Traditional Radius Gauges

At a Glance

- Accurately milled steel blades

Features

- Designed to check both internal and external radii
- Marked with nominal size on each blade
- Mounted either on a ring or in a steel sleeve



204M



206M

Traditional Radius Gauges - Ring

| Code No | Range (mm) | Range (inch) | No. of Blades | Graduation (mm) | Graduation (inch) |
|---------|------------|--------------|---------------|-----------------|-------------------|
| 204M | 0.75-5 | | 18 | 0.25 | |
| 204 | | 1/32 - 17/64 | 16 | | 1/64 |

Traditional Radius Gauges - Metric

| Code No | Description | Range (mm) | No. of Blades | Graduation (mm) |
|---------|-------------|------------|---------------|-----------------|
| 206M | Sleeve | 0.75-5 | 18 | 0.25 |
| 204MA | Ring | 5.5-13 | 16 | 0.5 |
| 206MA | Sleeve | 5.5-13 | 16 | 0.5 |

Traditional Radius Gauges - Imperial

| Code No | Description | Range (inch) | No. of Blades | Graduation (inch) |
|---------|-------------|--------------|---------------|-------------------|
| 206 | Sleeve | 1/32 - 17/64 | 16 | 1/64 |
| 204A | Ring | 9/32 - 33/64 | 16 | 1/64 |
| 206A | Sleeve | 9/32 - 33/64 | 16 | 1/64 |

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Traditional Screw Pitch Gauges

Features

- Accurately milled steel blades
- Designed to check both internal and external thread forms
- Marked with nominal size on each blade
- All blades fixed in a steel sleeve
- Screw cutting gauge included



801



804

Traditional Screw Pitch Gauges

| Code No | Description | No. of Blades | Threads per (mm) |
|---------|-----------------------|---------------|--|
| 801 | S.I. Metric | 30 | 0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8, 0.85, 0.9, 1.0, 1.1, 1.2, 1.25, 1.3, 1.4, 1.5, 1.6, 1.7, 1.75, 1.8, 1.9, 2.0, 2.5, 3.0 |
| 804 | SI Metric & Whitworth | 49 | Metric: 0.4, 0.5, 0.7, 0.75, 0.8, 0.9, 1.0, 1.25, 1.50, 1.75, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0 Imperial: 4, 4.5, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60 |
| 806 | Unified | 30 | 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 11.5, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42 |
| 809 | ISO Metric | 22 | 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 1.0, 1.25, 1.5, 1.75, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0 |

Note: SI (System International) metric blades should not be used to check ISO (International Standards Organisation) metric threads due to interference of the thread forms; but ISO metric blades can be used to check SI metric threads.

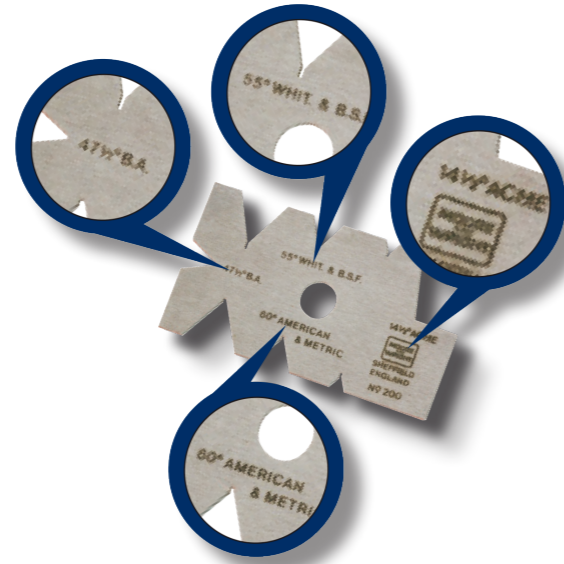
Traditional Screw Cutting Gauge

At a Glance

- Suitable for most standard metric and imperial thread forms

Features

- Accurately milled angles for precise evaluation of thread form
- Supplied in packs of 10



Traditional Screw Cutting Gauge

| Code No | Description | Pack Quantity |
|---------|--|---------------|
| 200 | Thread form: SI, ISO, US Std. 60°. Thread form: Whitworth 55°. Thread form: British Association (BA). 47.5°. Thread form: ACME. 14.5°. | 10 |

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CASE STUDY

Scottish Furniture Maker Achieves Precision and Quality with Moore & Wright Tools

Ebony Hill uses a Moore & Wright Straight Edge and Precision Engineers Square to make high quality. To assist with this process, Ebony Hill needed a quality straight edge that would be certain not to flex. In addition, an engineer's square was required as opposed to a combination square, in order to avoid fractional variations and achieve the highest levels of precision and accuracy.

Ben Lock, Managing Director and Furniture Restorer and Maker at Ebony Hill said:

“Using the Moore & Wright engineers' square is the best way for me to set the angle of the straight edge; then I know that it is perfectly square. I used to panic doing long trenches, but since buying a the spring steel straight edge from Moore & Wright I'm finding them so much easier - the straight edge is great quality and never flexes due to it being 10mm thick!

Combine that with some F-clamps and a large Moore and Wright engineers' square, and perfect accuracy is a given. I prefer to use the engineers' square as I know it will be true every time, while in my experience, a combination square may vary a fraction from time to time. Once the straight is set and clamped, I run the base of the router off that, and the result is a perfectly straight and square groove.”

Ebony Hill uses a 300mm Moore & Wright Precision Engineers' Square to set the angle of the Moore & Wright Spring Steel Straight Edge. The Moore & Wright Precision Engineers' Square meets DIN 875 tolerance of the angle, with an accuracy of 0 (µm), and is made from heat treated steel which has been precision ground and micro-lapped. The two knife-form sides have an angle of 40°.

The Moore & Wright Spring Steel Straight Edge is manufactured to DIN 866/1, with a precision ground gauging surface manufactured out of spring steel, and clear metric graduations starting 5mm in from the ends. Once the Moore & Wright Spring Steel Straight Edge is set and clamped using F-clamps, Ebony Hill runs the base of the router using the straight edge as a guide to ensure that the result is straight, accurate and precise.

Based in Edinburgh, Scotland, Ebony Hill is a small business specialising in fine furniture restoration and conservation. In addition, the business also takes commission for custom pieces of furniture including cabinets, tables and gin trolleys.

Part of Ebony Hill's ethos revolves around the understanding that pieces of furniture, and heirlooms, deserve the highest levels of attention to detail. Every piece of furniture they restore has been lovingly made by persons who share this passion for quality and craftsmanship, and every piece they make is made with the very same care.



At a Glance

- Standard: DIN 2275

Features

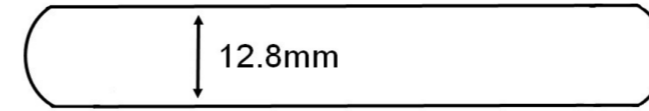
- All blades are hardened, tempered and polished
- Nominal thickness marked on each blade
- Replacement blades available

These **Feeler Gauges** by Moore & Wright are compact and perfect for measuring small gaps between parts. We offer a range of sets with varying blade counts and thicknesses, as well as two types of blade shapes. Manufactured to the DIN2275 standard, each gauge is made from hardened steel.

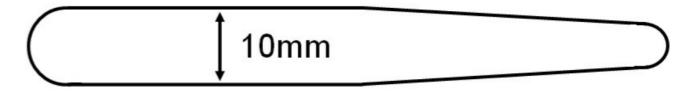
Available in two types (see table description for details):



387M-13-A



• Type A



• Type B

Feeler Gauges - Metric

| Code No | Description | No. of Blades | Blade Length (mm) | Thickness x 0.01 (mm) |
|-----------|---|---------------|-------------------|--|
| 911M-10-B | Feeler Gauge Set, Safe&Sure, Blade Type 'B' | 10 | 100 | 5, 10, 15, 20, 30, 40, 50, 60, 70, 80 |
| 388M-13-B | Feeler Gauge Set, Precision, Blade Type 'B' | 13 | 100 | 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 30, 40, 50 |
| 390M-20-B | Feeler Gauge Set, Precision, Blade Type 'B' | 20 | 100 | 5, 10, 15, 20, 25, 30, 35, 40, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100 |
| 390M-32-B | Feeler Gauge Set, Precision, Blade Type 'B' | 32 | 100 | 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 18, 20, 23, 25, 28, 30, 33, 35, 38, 40, 45, 50, 55, 60, 63, 65, 70, 75, 80, 85, 90, 100 |
| 391M-11-A | Feeler Gauge Set, Precision, Blade Type 'A' | 11 | 75 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80 |
| 387M-13-A | Feeler Gauge Set, Precision, Blade Type 'A' | 13 | 75 | 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 30, 40, 50 |
| 393M-20-A | Feeler Gauge Set, Precision, Blade Type 'A' | 20 | 75 | 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100 |
| 395M-20-A | Feeler Gauge Set, Precision, Blade Type 'A' | 20 | 150 | 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100 |
| 399M-20-A | Feeler Gauge Set, Precision, Blade Type 'A' | 20 | 300 | 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100 |

Feeler Gauges - Imperial

| Code No | Description | No. of Blades | Blade Length (inch) | Thickness x 0.001 (inch) |
|------------|---|---------------|---------------------|---|
| 911-10-B | Feeler Gauge Set, Safe & Sure, Blade Type 'B' | 10 | 4 | 1.5, 2, 3, 4, 6, 8, 10, 12, 15, 25 |
| 12-26-A | Feeler Gauge Set, Precision, Blade Type 'A' | 26 | 3 | 1.5, 2, 2.5, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21,, 22, 23, 24, 25 |
| 1246-10-A | Feeler Gauge Set, Precision, Blade Type 'A' | 10 | 6 | 1.5, 2, 3, 4, 6, 8, 10, 12, 15, 25 |
| 12412-10-A | Feeler Gauge Set, Precision, Blade Type 'A' | 10 | 12 | 1.5, 2, 3, 4, 6, 8, 10, 12, 15, 25 |

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Traditional Drill & Standard Wire Gauges

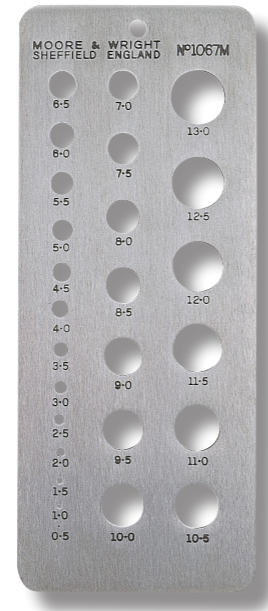
Features

Standard Wire Gauges

- Two part space saving design, with corner pivot
- Marked with nominal size of each slot
- Made from high grade tool steel, with a brushed finish
- 1067M & 1053M available in retail packs

Drill Gauges

- Made from high grade tool steel, with a brushed finish
- Marked with nominal size of each hole



Traditional Drill & Standard Wire Gauges

| Code No | No. Slots | Range of Slot Size | Graduation (mm) |
|---------|-----------|--------------------|-----------------|
| 1053M | 40 | 0.2-10.0mm | |
| 1052 | 36 | 1-36 SWG | |
| 1067M | 26 | 0.5-13.0mm | 0.5 |
| 1066M | 96 | 0.5-10.0mm | 0.1 |

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Telescopic Gauges Set

At a Glance

- For quick economical internal measurements

Features

- Spring loaded plunger that expands in the bore or groove
- Set of six gauges
- Satin-chromed body
- With auto extension and direct locking
- Measuring faces are hardened and micro-lapped



Telescopic Gauges Set

| Code No | Range (mm) |
|----------|------------|
| MW315-01 | 8-150 |



Traditional Engineers' Rules

Features

- D shaped end with hanging hole
- Satin chrome anti-glare finish
- Permanent black high definition scale markings
- Metric scales front and rear face graduations 0.5mm, 1.0mm
- Metric / Imperial scales front face graduations 1/16th, 1/32nd, 1/64th 1/10th, 1/20th, 1/50th, 1/100th of an inch
- Metric / Imperial scales rear face graduations 0.5mm, 1.0mm

Metric and imperial **Traditional Engineer's Rules** from Moore & Wright. Made from fine quality steel which has been hardened and tempered to provide the ideal balance between flexibility and durability.



ER312

Traditional Engineers' Rules

| Code No | Description | Width (mm) | Thickness (mm) |
|---------|---|------------|----------------|
| ER106 | 150mm/ 6" Engineers' Rigid Rule | 19 | 1.2 |
| ER112 | 300mm/ 12" Engineers' Rigid Rule | 25 | 1.2 |
| ER206 | 150mm/ 6" Engineers' Rigid Rule 300mm/ 12" Engineers' Rigid Rule | 12.5 | 1.2 |
| ER306 | 150mm Engineers' Rigid Rule | 19 | 1.2 |
| ER312 | 300mm Engineers' Rigid Rule | 25 | 1.2 |
| ER424 | 600mm/ 24" Engineers' Rigid Rule | 25 | 1.2 |



Precision Engineers' Bevelled Edge Square

Features

- Standard: DIN 875 Grade 0
- Precision ground and micro-lapped
- 2 knife-form sides with angle of 40°

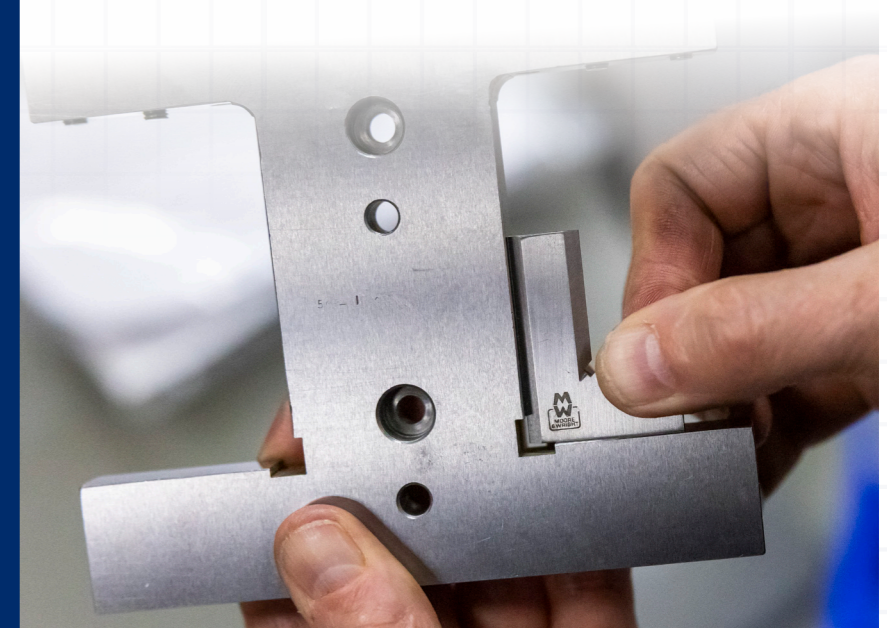


Precision Engineers' Bevelled Edge Square is made from heat treated steel for extra strength.

MW910-01

Precision Engineers' Bevelled Edge Square

| Code No | Description |
|----------|-------------|
| MW910-01 | 40 x 30mm |
| MW910-02 | 50 x 40mm |
| MW910-03 | 75 x 50mm |
| MW910-04 | 100 x 70mm |
| MW910-05 | 150 x 100mm |
| MW910-06 | 200 x 130mm |



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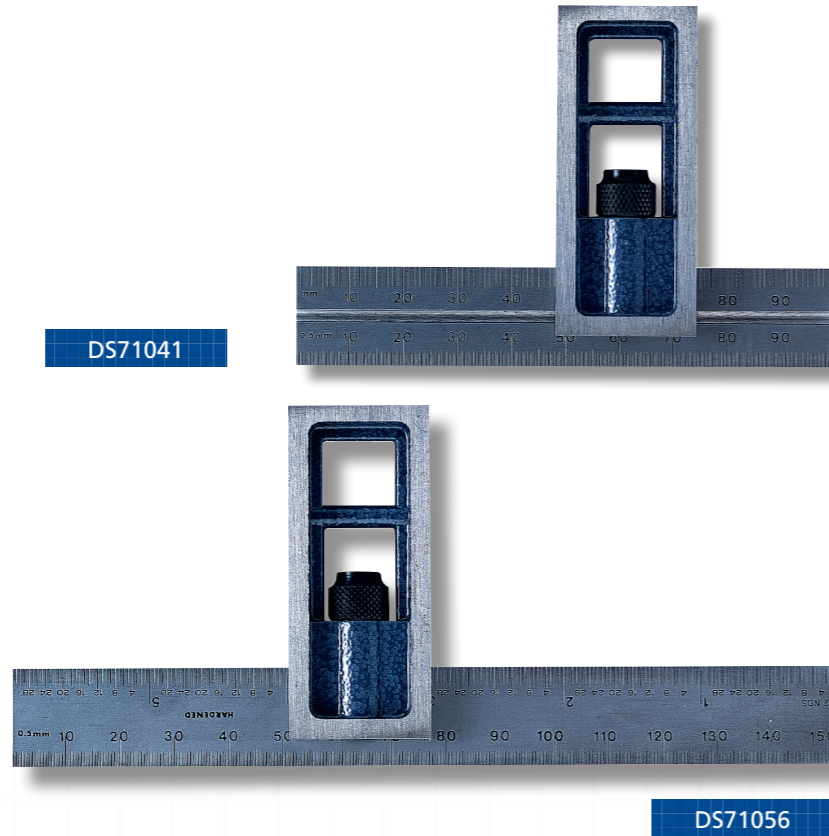
Sliding 'T' Squares

Features

- Working surfaces of the stock are ground
- Hardened and tempered blade with a satin chrome finish

The **Moore & Wright Sliding 'T' Squares** are practical, time saving tools for marking-out applications.

Suitable for use as a parallel or as a double square, the Moore & Wright sliding 'T' Squares has ground working surfaces and features a hardened, tempered blade with a satin chrome finish.



Sliding 'T' Squares - Metric

| Code No | Length (mm) | Stock Length (mm) | Graduation (mm) |
|---------|-------------|-------------------|-----------------|
| DS71041 | 100 | 62 | 1, 0.5 |
| DS71051 | 150 | 62 | 1, 0.5 |

Sliding 'T' Squares - Metric/Imperial

| Code No | Length (mm/inch) | Stock Length (mm) | Graduation (mm/inch) |
|---------|------------------|-------------------|----------------------|
| DS71044 | 100 / 4 | 62 | 0.5, 1 / 1/16 |
| DS71056 | 150 / 6 | 62 | 0.5, 1 / 1/16 |

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Traditional Depth Gauge

Features

Depth Gauge

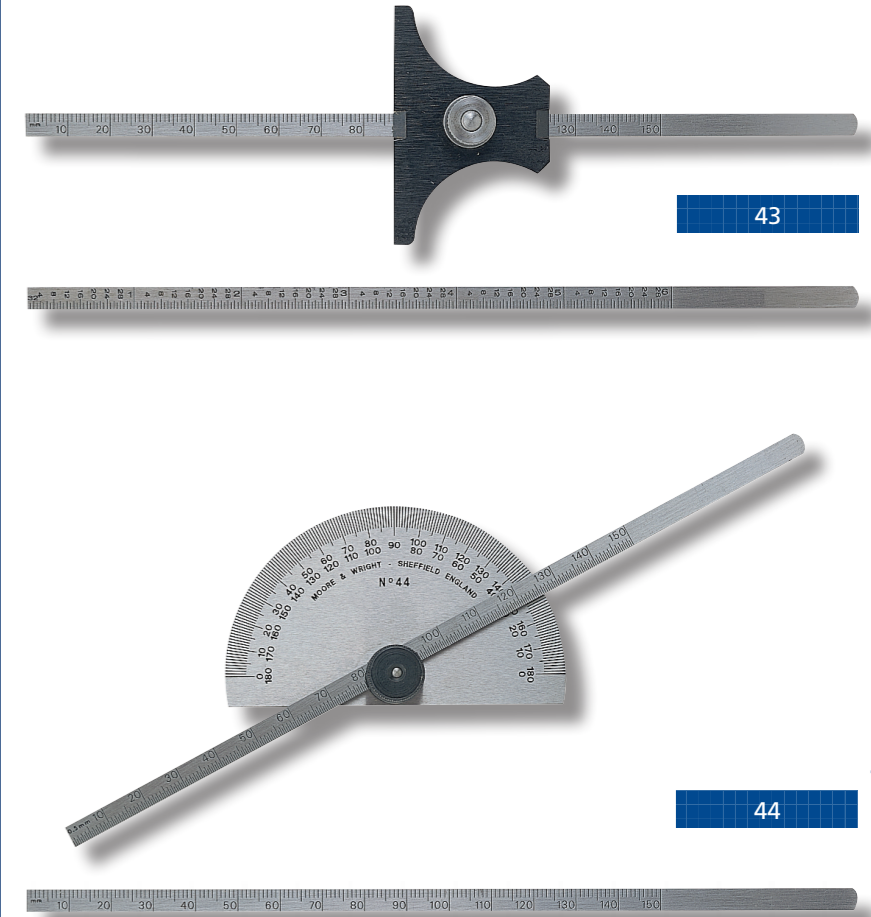
- Available with either reversible base or protractor
- Full range rule adjustment
- Readings can be fixed by means of a locknut
- Rules graduated on both sides
- Metric scales front face graduations 0.5mm, 1.0mm
- Metric scales rear face graduations 1.0mm
- Metric / Imperial scales front face graduations 1/32nd
- Metric / Imperial scales rear face graduations 1.0mm
- Length of blade 195mm / 7.68"

Reversible Base Type

- Accurately ground top and bottom faces allow base to be reversed, for use in confined spaces

Protractor Type

- Protractor plate is graduated 0° - 180° - 0° degrees
- Scale resolution 1/2 degree



Traditional Depth Gauge

| Code No | Description | Width (mm) | Width (inch) | Size of Base (mm) | Size of Base (inch) | Thickness (mm) | Thickness (inch) |
|---------|-----------------|------------|--------------|-------------------|---------------------|----------------|------------------|
| 43 | Reversible Base | 5.5 | 0.22 | 18, 56 | 0.71, 2.21 | 1.0 | 0.04 |
| 44 | Protractor | 5.5 | 0.22 | 79 | 3.11 | 1.0 | 0.04 |
| 43M | Reversible Base | 5.5 | - | 18, 56 | - | 1.0 | - |
| 44M | Protractor | 5.5 | - | 79 | - | 1.0 | - |

Traditional Inside & Outside Calipers

Outside & Inside Calipers, Firm Joint

- Standard: BS3123
- Manufactured from polished tool steel
- A large headed nut & screw assembly provides a firm & rigid friction joint, with no play
- The sizes listed are the effective leg length which is measured from the joint assembly

Note: Firm joint caliper capacities are generally 1/3 greater than the effective leg length.

Outside Calipers, Spring Joint

- Standard: BS3123
- Bow spring ensures uniform tension over working range
- Centrally mounted adjustment screw offers finer setting, than firm joint type

Inside Calipers, Spring Joint

- Standard: BS3123
 - Bow spring ensures uniform tension over working range
 - Centrally mounted adjustment screw
 - Manufactured from polished tool steel
- Note: Firm joint caliper capacities are generally 1/3 greater than the effective leg length.

Spring Dividers

- Standard: BS3123
 - Manufactured from polished tool steel
 - Points are hardened to over 550Hv
 - Bow spring ensures uniform tension over working range
 - Centrally mounted adjustment screw
- Note: The nominal size is the distance between the centre of the roller and the working ends of the legs.

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Traditional Inside & Outside Calipers

| Inside Calipers Firm Joint | | | |
|----------------------------|-----------|-------------|---------------|
| Code No | Size (mm) | Size (inch) | Pack Quantity |
| 3306R | 150 | 6 | 5 |
| 3308R | 200 | 8 | 1 |
| 33012R | 300 | 12 | 1 |

| Outside Calipers Firm Joint | | | |
|-----------------------------|-----------|-------------|---------------|
| Code No | Size (mm) | Size (inch) | Pack Quantity |
| 3316R | 150 | 6 | 5 |
| 3318R | 200 | 8 | 1 |
| 33112R | 300 | 12 | 1 |
| 33118R | 450 | 18 | 1 |
| 33124R | 600 | 24 | 1 |

| Dividers & Inside / Outside Calipers Spring Joint | | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|-----------|-------------|---------------|
| Code No | Description | Code No | Description | Code No | Description | Size (mm) | Size (inch) | Pack Quantity |
| 503R | Dividers | 513R | Inside | 523R | Outside | 75 | 3 | 5 |
| 504R | Dividers | 514R | Inside | 524R | Outside | 100 | 4 | 5 |
| 506R | Dividers | 516R | Inside | 526R | Outside | 150 | 6 | 5 |
| 508R | Dividers | 518R | Inside | 528R | Outside | 200 | 8 | 1 |
| 5010R | Dividers | 5110R | Inside | 5210R | Outside | 250 | 10 | 1 |
| 5012R | Dividers | 5112R | Inside | 5212R | Outside | 300 | 12 | 1 |





Traditional (Jenny) Calipers

Firm Joint Adjustable Point

- Manufactured from polished tool steel
- A large headed nut and screw assembly provides a firm and rigid friction joint, with no play
- The sizes listed are the effective leg length which is measured from the joint assembly
- Leg which holds the round adjustable hardened point is offset
- Model 341 has a locating spur on the straight leg

Note: Firm joint caliper capacities are generally 1/3 greater than the effective leg length.

Spring Joint

- Manufactured from polished tool steel
- The marking leg is hardened to over 550Hv at the point
- Bow spring ensures uniform tension over working range
- Centrally mounted adjustment screw offers finer setting than firm joint type



| Traditional (Hermaphrodite) Calipers | | | | |
|--------------------------------------|--------------|-----------|-------------|---------------|
| Code No | Description | Size (mm) | Size (inch) | Pack Quantity |
| 341R | Firm Joint | 125 | 5 | 5 |
| 3366R | Firm Joint | 150 | 6 | 5 |
| 56R | Spring Joint | 150 | 6 | 5 |

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Go back to **Contents**



Traditional Mini Level

Features

- Ultra compact dimensions and a single vial
- Machined from a solid block of carbon steel



Traditional Mini Level - Metric

| Code No | Length (mm) | Width (mm) | Height (mm) | Accuracy |
|----------|-------------|------------|-------------|--------------------------|
| ELT001XR | 51 | 19 | 19 | ± 1° 0.0035" per foot |

Traditional Mini Level - Imperial

| Code No | Length (inch) | Width (inch) | Height (inch) | Accuracy |
|----------|---------------|--------------|---------------|--------------------------|
| ELT001XR | 2.0 | 0.75 | 0.75 | ± 1° 0.0035" per foot |

Bowers Group | sales@bowersgroup.co.uk | www.bowersgroup.co.uk

Traditional Engineers' Square

Features

- Standard: To BS939 / Grade B
- Precision ground blade and stock
- Blind rivetted construction
- Hardened and tempered blades



4006R



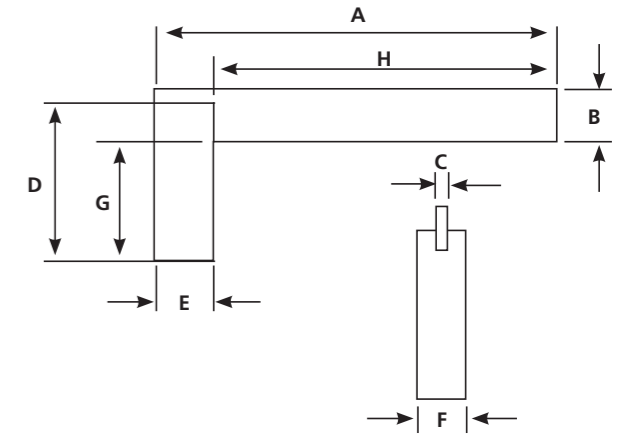
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Traditional Engineers' Square

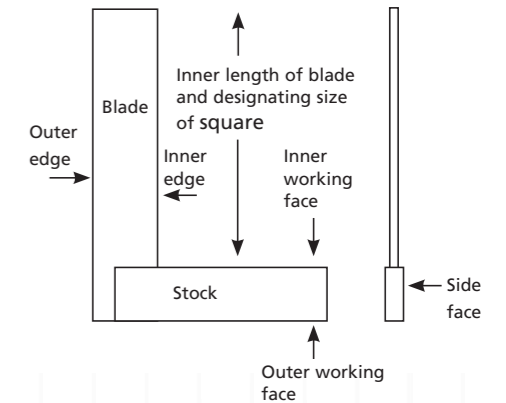
Workshop Square: Grade B

| Code No | Blade Length (mm) | Blade Length (inch) | Approx. Stock Length (mm) (inside face) |
|---------|-------------------|---------------------|---|
| 4003R | 75 | 3 | 49 |
| 4004R | 100 | 4 | 56 |
| 4006R | 150 | 6 | 82 |
| 4009R | 225 | 9 | 108 |
| 40012R | 300 | 12 | 139 |



Dimensions (mm)

| Square Size Faces (inch / mm) | Blade Length (mm) | | Stock | | | | Inner Working | |
|----------------------------------|-------------------|------|-------|-------|------|-------|---------------|--------|
| | A | B | C | D | E | F | G | H |
| 3 / 75 | 104.8 | 25.4 | 1.42 | 68.5 | 25.4 | 12.7 | 49.3 | 79.4 |
| 4 / 100 | 130.2 | 25.4 | 1.42 | 76.2 | 25.4 | 12.7 | 57.0 | 104.8 |
| 6 / 150 | 181.0 | 25.4 | 1.42 | 101.6 | 25.4 | 12.7 | 82.4 | 155.6 |
| 9 / 225 | 273.1 | 38.1 | 3.15 | 139.7 | 38.1 | 19.05 | 107.9 | 234.95 |
| 12 / 300 | 355.6 | 44.4 | 3.15 | 177.8 | 44.4 | 22.2 | 139.7 | 311.2 |



400R Series Engineers Squares Tolerances (Microns)

| | Size of Square | | | | |
|--|----------------|------------|------------|------------|-------------|
| | 3" / 75mm | 4" / 100mm | 6" / 150mm | 9" / 225mm | 12" / 300mm |
| Straightness of Blade Edges | 8 | 8 | 8 | 8 | 12 |
| Parallelism of Blade Edges | 8 | 8 | 8 | 12 | 12 |
| Flatness of Working Faces of Stock (any deviation must be concave) | 4 | 6 | 6 | 8 | 8 |
| Parallelism of Working Faces of Stock | 5 | 5 | 5 | 8 | 8 |
| Parallelism of Side Faces of Stock | 25 | 25 | 25 | 50 | 50 |
| Squareness of Side Faces of Stock to Working Faces of Stock | 57 | 57 | 75 | 114 | 134 |
| Squareness of Edges of Blade to Side Faces of Stock | 15 | 15 | 15 | 15 | 15 |
| Squareness of Edges of Blade to Working Faces of Stock | 16 | 16 | 16 | 16 | 24 |
| Lateral Squareness of Blade | 125 | 250 | 250 | 375 | 375 |

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Inspection



Video Microscope

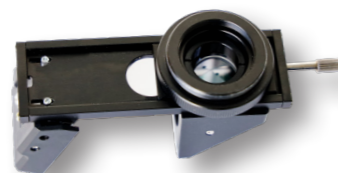
At a Glance

Real time observation on inbuilt monitor, with photo capture and video recording

- Magnification 12 x -84x

Features

- Real time observation on inbuilt monitor, with photo capture and video recording
- Overlay lines and shapes to measure distances, areas and angles, add text to images
- Magnification 12 x -84x
- Objective 0.75 x -4.5x continuous zoom, objective zoom ratio 6:4:1
- White balance and automatic exposure, gain, contrast and saturation control
- Sensor 1/2" CMOS
- Monitor 11.6" or HDMI output to alternate display
- 1920x1080p display with 60FPS frame rate
- Outputs HDMI, USB, Ethernet port
- LED light source with brightness control
- Power 100V to 240V, 50/60Hz converted to 12V supply
- An optional attachment enables panning at 45° viewing angle and 360° rotation



MWT-7100-01

Moore & Wright's Digital Video Microscope is a powerful inspection tool, enhanced with measurement capabilities and image capture. The 12-84X magnification range and 2 megapixel camera allow detailed viewing on areas as small as 2mm.

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Video Microscope



The microscope's built-in 11.6" LCD display has a frame rate of 60fps for real-time part viewing with no visible lag. With dimmable LED ring light, automatic exposure and adjustable camera settings, you can optimise inspection for every application. There are smooth handwheels to adjust focus and magnification, and internal memory for calibration at range of magnifications.

Take on-screen measurements from feature tools; create lines, arcs and more in user-defined positions or use automatic edge finding to snap features to part edges. Save and store files locally or export via network port or USB, or connect to an additional screen via HDMI.

Specification

| Code No. | Description | Magnification | Objective Lens | Zoom Ratio | Sensor | Monitor | Resolution |
|-------------|------------------|---------------|----------------------------|------------|-----------|---------|------------|
| MWT-7100 | Video microscope | 12x - 84x | 0.7x-0.45x continuous zoom | 6.4:1 | 1/2" CMOS | 11.6" | 1920x1080P |
| MWT-7100-01 | 3D attachment | | | | | | |



Videoscope

At a Glance

- High resolution 1280 x 720 pixels
- 1 metre long, 6mm diameter probe with high brightness 50,000 Lux LED

Features

- Large 4.5 inch display
- High resolution 1280 x 720p
- 1 Megapixel camera
- Lightweight for ease of use (0.7Kg including probe)
- 1 metre long, 6mm diameter probe with high brightness 50,000 Lux LED
- Joystick to guide the probe with 360° movement
- 100° Wide field of view, large depth of field (8mm to 150mm)
- USB type C and HDMI screen output
- Probe waterproof to IP68
- Images saved as Jpeg 1280 x 720p
- Video saved as MP4 1280 x 720p
- 32 Gb storage capacity and SD card compatible
- Internal rechargeable battery, with charger
- Supplied in a rigid protective carry case



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Videoscope



The **MWT-7500** handheld videoscope is equipped with a 6mm x 1m probe with 360° articulated tip, perfect for inspection in tight spaces. The 1-megapixel camera has a 100° viewing angle and 8mm to 150mm depth of field, for impressive coverage from a compact device. The probe tip's built-in high intensity LED and IP68 Waterproof rating make it suitable for even the most challenging applications. Lightweight, ergonomic design for one-handed operation of the buttons and joystick. Large 4.5" colour display with 1280 x 720p resolution to give a clear image. Images and videos can be stored as high-resolution jpeg and mp4 files. Rechargeable internal battery and supplied in a rigid protective case.

Specification

| Code No. | Display | Total Weight (kg) | Probe Dia (mm) | Probe Length (m) | LED Brightness (Lux) | Joystick (°) | Field of View (°) | Depth of field (mm) |
|----------|-------------|-------------------|----------------|------------------|----------------------|--------------|-------------------|---------------------|
| MWT-7500 | 1280 x 720p | 0.7 | 6 | 1 | 50,000 | 360 movement | 100 | 8 - 150 |



Stereo Microscope

At a Glance



Measuring Ranges: HV:50-1599;
HRC:20-68; HB:76-650; HRB:41-
105; HLD:170-960

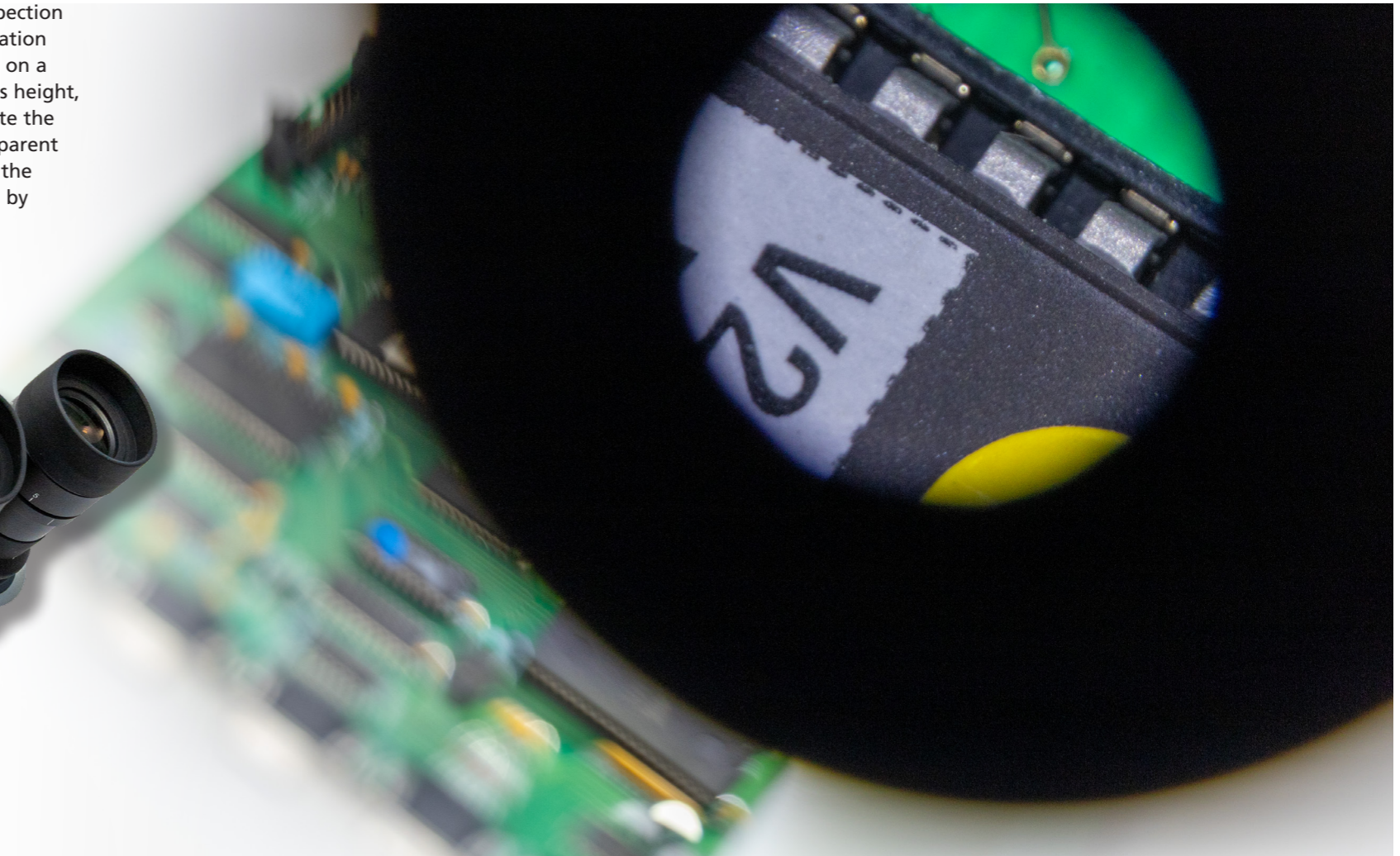
Features

- Stereo Microscope with fully rotatable binocular head with 45° incline
- Adjustable magnification 6.7 to 45X
- Upper LED illumination with adjustable angle
- LED base plate to illuminate from below
- Adjustable brightness controls
- Translucent stage plate
- Reversible black or white stage plate

The **MWT-7200 Stereo Microscope** is an essential tool for any inspection room, equipped with high quality optics and adjustable magnification from 6.7 to 45X. The microscope's 45° binocular head is mounted on a secure stand with smooth handwheels to adjust tension and focus height, with click stop and magnification lock for easier control. Illuminate the part from above and below with dual LED lighting, use the transparent stage plate and LED base to shine light through a sample, or use the reversible plate in black or white for increased contrast. Powered by mains adapter (100-240Vac) or AAA batteries for flexibility.



Stereo Microscope



Specification

| | |
|-------------------------------|---|
| Eyeiece | PLN10X22mm, with adjustable dioptre |
| Optical Head | Binocular and fully rotatable head with 45° incline |
| Magnification | 0.67 - 4.5X |
| Working Distance (mm) | 110 |
| Interpupillary Distance (mm) | 52 - 76 |
| Upper and Lower Light Sources | Brightness independently adjustable |
| Light Source | LED with colour temperature 5700K-6500K, brightness 20-22LM |
| Pillar Height (mm) | 260 |
| Stage Plate Diameter (mm) | 100mm |
| External Wide Voltage | AC adaptor, input 100V-240Vac, with option to use rechargeable batteries. |
| Operating Environment | 0°C to 40°C, maximum RH 85% |

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Brix Refractometer

At a Glance

- 0-20 °Bx scale
- Automatic temperature compensation

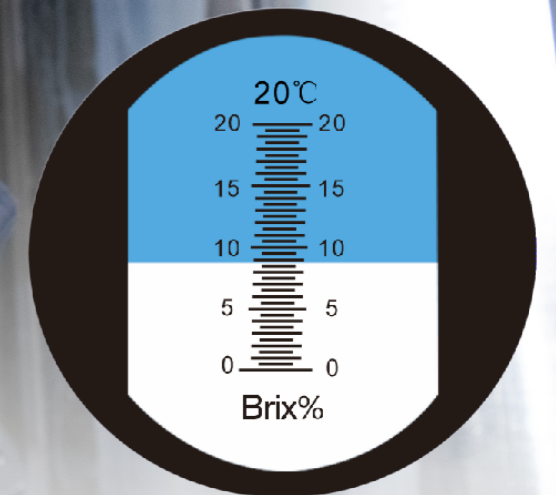
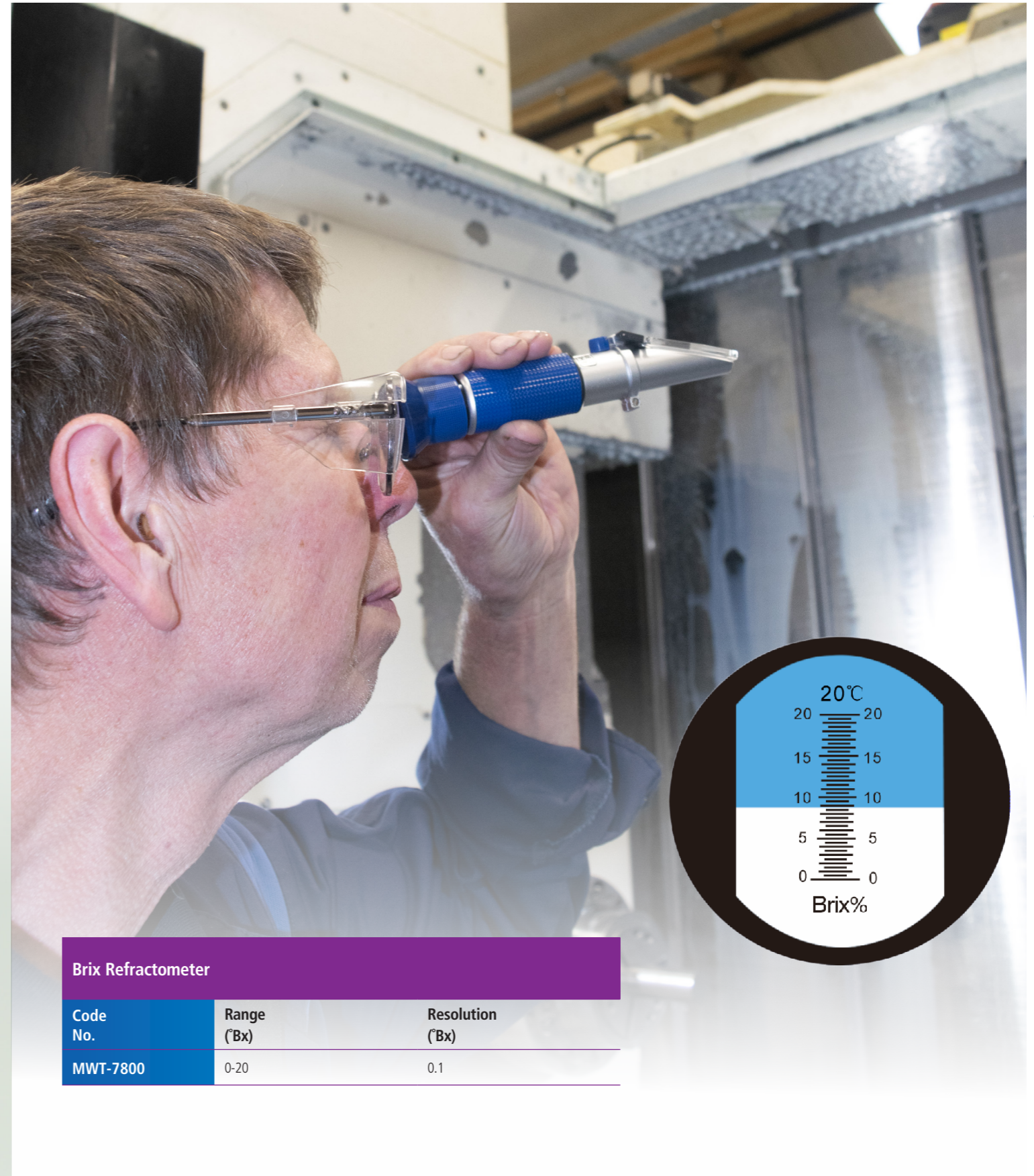
Features

- 0-20 °Bx scale
- Calibration (zero point) adjustment screw
- Automatic temperature compensation
- Adjustable focus
- Supplied with a pipette and cleaning cloth
- Includes a screwdriver to adjust the calibration screw
- Packed in a protective hard plastic case

Moore and Wright's **MWT-7800 Refractometer** is designed to measure the concentration of coolant and cutting fluids to maintain peak machine performance. This handheld device uses the refractive index of a fluid to deflect light onto a scale at the eyepiece, giving instant concentration readings from 0-20 °Bx. This simple process gives fast, reliable readings for easy maintenance of correct dilution levels, ensuring ideal lubrication and corrosion protection for machine tools.



Brix Refractometer



| Brix Refractometer | | |
|--------------------|-------------|------------------|
| Code No. | Range (°Bx) | Resolution (°Bx) |
| MWT-7800 | 0-20 | 0.1 |

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Material Testing

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Motorised Ultrasonic Hardness Tester

At a Glance



Measuring Ranges: HV:50-1599; HRC:20-68; HB:76-650; HRB:41-105; HLD:170-960

Features

- Large colour display with configurable brightness control
- Multiple units displayed simultaneously
- Menu for configuration and calibration
- Hardness scales: Rockwell C (HRC), Vickers (HV), Brinell (HBW), Rockwell A (HRA), Rockwell B (HRB), Megapascals (MPa)
- Measuring ranges: HRC: 20-68, HV:100-1500, HBW: 76-650, HRA:60-85, HRB:55-100,
- Accuracy: HR: $\pm 1.5\%$ HR, HV: $\pm 3\%$ HV, HBW: $\pm 3\%$ HBW
- Resolution: HR:0.1, HV:1, HBW:1, MPa:1
- Configurable averaging over user defined number of measurements
- Data storage of up to 1000 values
- Magnetic base for stable hand-free measurements
- Languages: English, French, Spanish, German, Italian and Chinese
- Internal battery, rechargeable via cable and adapter supplied, 10 hours between charges
- Standards: ASTM A1038-2017; DIN50159-2009; GB/T 34205-2017
- Supplied with a calibrated test piece in a rigid plastic case



Motorised Ultrasonic Hardness Tester

The **MWT-3200** is a handheld Hardness Tester which uses the **Ultrasonic Contact Impedance** method to accurately measure material hardness with no visible indentation mark. Featuring one-touch operation, the motorised probe applies a force of 20N with the diamond Vickers indenter for results in 6 seconds with an accuracy of $\pm 3\%$ HV. Automatic testing with the motorised probe removes operator influence and improves repeatability of results. The magnetic base allows for stable, hands-free measurements eliminating the risk of operator handshake and reducing hand strain from repetitive measurements. A large colour display shows results in (HRC), Vickers (HV), Brinell (HBW), Rockwell A (HRA), Rockwell B (HRB) or Megapascals (MPa) with data storage of up to 1000 values. Choose to report individual results or an average from a set of readings. Selectable languages of English, French, Spanish, German, Italian and Chinese.

Specification

| Code No. | Hardness Scales | Measuring Ranges | Accuracy | Resolution | Standards |
|----------|--|---|--|---------------------------|---|
| MWT-3200 | Rockwell C (HRC), Vickers (HV), Brinell (HBW), Rockwell A (HRA), Rockwell B (HRB), Megapascals (MPa) | HRC: 20-68, HV:100-1500, HBW: 76-650, HRA:60-85, HRB:55-100 | HR: $\pm 1.5\%$ HR, HV: $\pm 3\%$ HV, HBW: $\pm 3\%$ HBW | HR:0.1, HV:1, HBW1, MPa:1 | ASTM A1038-2017; DIN50159-2009; GB/T 34205-2017 |



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Manual Ultrasonic Hardness Tester

At a Glance



Measuring Ranges: HV:50-1599;
HRC:20-68; HB:76-650;
HRB:41-105; HLD:170-960

Features

- Large colour display
- Multiple units displayed simultaneously
- Menu for configuration and calibration
- Hardness scales: Rockwell C (HRC), Vickers (HV), Brinell (HBW), Rockwell A (HRA), Rockwell B (HRB), Megapascals (MPa)
- Measuring ranges: HRC: 20-68, HV:100-1500, HBW: 76-650, HRA:60-85, HRB:55-100,
- Accuracy: HR: $\pm 1.5\%$ HR, HV: $\pm 3\%$ HV, HBW: $\pm 3\%$ HBW
- Resolution: HR:0.1, HV:1, HBW:1, MPa:1
- Configurable averaging over user defined number of measurements
- Data storage of up to 1000 values
- Languages: English, French, Spanish, German, Italian and Chinese
- Internal battery, rechargeable via cable and adapter supplied, 10 hours between charges
- Standards: ASTM A1038-2017; DIN50159-2009; GB/T 34205-2017
- Supplied with a calibrated test piece in a rigid plastic case

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The **MWT-3250** is a handheld **Hardness Tester** using the Ultrasonic Contact Impedance method to accurately measure material hardness with no visible indentation mark. With a manual probe for simple operation, press and hold to apply the diamond Vickers indenter for non-destructive testing in 2 seconds. The slimline probe is ideal for testing in narrow spaces or where access is more limited. A large colour display shows results in (HRC), Vickers (HV), Brinell (HBW), Rockwell A (HRA), Rockwell B (HRB) or Megapascals (MPa) with data storage of up to 1000 values. Choose to report individual results or an average from a set of readings. Selectable languages of English, French, Spanish, German, Italian and Chinese.



Manual Ultrasonic Hardness Tester

Specification

| Code No. | Hardness Scales | Measuring Ranges | Accuracy | Resolution | Standards |
|----------|--|--|--|----------------------------|---|
| MWT-3250 | Rockwell C (HRC), Vickers (HV), Brinell (HBW), Rockwell A (HRA), Rockwell B (HRB), Megapascals (MPa) | HRC: 20-68, HV:100-1500, HBW: 76-650, HRA:60-85, HRB:55-100, | HR: $\pm 1.5\%$ HR, HV: $\pm 3\%$ HV, HBW: $\pm 3\%$ HBW | HR:0.1, HV:1, HBW:1, MPa:1 | ASTM A1038-2017; DIN50159-2009; GB/T 34205-2017 |





Coating Thickness Gauge - Non Ferrous

At a Glance



Range up to 1250µm / 50 mil

Features

- Non-destructive coating thickness measurement
- Uses the eddy current principle in accordance with ISO 2360, ASTM B244, GB/T 4957, JB/T 8393
- Ideal for finishing industries using paints, enamels, electroplating and more
- Measuring modes of single and continuous
- Backlit LCD display showing present reading and selected measuring parameters
- Measuring range of up to 1250µm
- Memory storage of up to 500 readings
- Automatic power off
- Test and calibration foils included

The **Moore & Wright Coating Thickness Gauge** is an easy-to-use electronic gauge ideal for taking accurate measurements of non magnetic coatings on non ferrous materials.

Durable, easy to use, and portable.



Coating Thickness Gauge - Non Ferrous

Coating Thickness Gauge Non-Ferrous

| Code No. | Description | Application | Range (µm) |
|----------|-------------------------|-------------------------|------------|
| MWT-2105 | Coating thickness gauge | Non - Ferrous materials | 0-1250 |

Specification

| | |
|----------------------------|---|
| Test Method | Eddy Current |
| Measuring Range (µm) | 0-1250µm (0-50 mil) |
| Resolution (µm) | 0 - 999µm: 0.1 ≥1000µm: 1 |
| Accuracy (µm) | 0~100µm: ±2.0 101 - 1250µm: ≤ 2.5 % |
| Data Memory | 500 readings |
| Display | Backlit LCD display |
| Power Supply | 3 x 1.5V AAA batteries |
| Operating Temperature (°C) | 0~50 |
| Dimension (mm) | 128 x 51 x 30 (digital gauge) 220 x 120 x 70 (in case) |
| Weight (g) | 110 (digital gauge) 250 (in case) |
| Matrix | Aluminium substrate |



The **Moore & Wright Coating Thickness Gauge** for non-ferrous material is specifically designed for the non-destructive measurement of coating and paint thickness. This durable coating digital thickness gauge is an essential tool for material surface treatment and widely used in the manufacturing industry, metal-processing industry, chemical industry, and commodity inspection.

Visit our Website

For more information please click here



Coating Thickness Gauge - Ferrous

At a Glance



Range up to 1250µm / 50 mil

Features

- Non-destructive coating thickness measurement
- Uses the principle of magnetic induction in accordance with ISO 2178, ASTM B499, GB/T 4956, JB/T 8393
- Ideal for finishing industries using paints, enamels, electroplating and more
- Measuring modes of single and continuous
- Backlit LCD display showing present reading and selected measuring parameters
- Measuring range of up to 1250µm
- Memory storage of up to 500 readings
- Automatic power off
- Test and calibration foils included

The **Moore & Wright Coating Thickness Gauge** is durable, easy to use, and portable, without the need for calibration and adjustment.



Coating Thickness Gauge - Ferrous

Coating Thickness Gauge - Ferrous

| Code No. | Description | Application | Range (µm) |
|----------|-------------------------|-------------------|------------|
| MWT-2100 | Coating thickness gauge | Ferrous materials | 0-1250 |

Specification

| | |
|----------------------------|--|
| Test Method | Magnetic induction |
| Measuring Range (µm) | 0-1250 (0 - 50 mil) |
| Resolution (µm) | 0 - 999µm: 0.1 ≥1000µm: 1 |
| Accuracy (µm) | 0~100µm: ±2.0 101~1250µm: ≤ 2.5 % |
| Data Memory | 500 readings |
| Display | Graphic LCD with backlight |
| Power Supply | 3 x 1.5V AAA batteries |
| Operating Temperature (°C) | 0~50 |
| Dimension (mm) | 128 x 51 x 30 (digital gauge) 220 x 120 x 70 (in case) |
| Weight (g) | 110 (digital gauge) 250 (in case) |
| Accessories | Thickness gauge, substrate, certification foils set, user manual, manufacturer certificate |



The **Moore & Wright Coating Thickness Gauge** is designed for the non-destructive measurement of coating thickness including paint, enamel, plastic, epoxy, etc on iron or steel.

The easy-to-perform zero-point correction feature provides accurate measurement results even for applications with minimal changes in shape and substrate material. The one-point calibration function allows for adaption in cases of severe changes in shape or substrate material, enabling high-precision measurements in selected measurement ranges.

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For more information please click here



Electromagnetic Ultrasonic Thickness Gauge

At a Glance



Measuring Ranges: HV:50-1599; HRC:20-68; HB:76-650; HRB:41-105; HLD:170-960

Features

- Large coloured 2.4 inch 320x 240 LCD display
- Suitable for thickness measurements of aluminium, copper, iron, carbon steel, cast steel, alloy steel, stainless steel, titanium alloy and other metal materials
- No acoustic coupling gel needed
- Accurate measurement through paint, rust and other coatings
- Measuring modes to suit the application: Single echo(I-E), Dual echo(E-E)
- Data storage of 520 files, each with 240 sets of values, totalling 120,000 sets
- Communication via USB2.0
- Auto freeze, auto gain, auto sleep mode
- Ultrasound waveform display to inspect and verify results
- Two internal rechargeable (and replaceable) li-ion batteries
- Battery life between charges: 5 hours
- Recharging via supplied USB charger
- Includes two sample reference blocks
- Supplied in a rigid plastic carry case
- High temperature probe available as an additional accessory

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For more information please click here



The main purpose of the gauge is to give a highly accurate measurement of material length, whilst it can also be used to assess material integrity, detect corrosion, erosion, or wear. It will work on coated, hot, or moving surfaces where conventional ultrasonic gauges struggle.

Applications are widespread in industries such as oil and gas, power generation, aerospace, shipbuilding, and manufacturing. It is particularly valuable for inspecting pipelines, storage tanks, pressure vessels, and structural components.

The **Moore & Wright MWT-2600 Ultrasonic Thickness Gauge** is a highly accurate electromagnetic ultrasonic thickness gauge used to measure the thickness of conductive materials without requiring direct contact or coupling gels. It uses electromagnetic interaction to generate ultrasonic waves at the material's surface and analyses the echoes after they travel through the material and back to the surface.

An optional high temperature probe extends the possible range of applications.

Specification

| Code No. | Range (mm) | Accuracy (mm) | Temperature Range (°C) |
|--------------------------------|-------------|---------------|------------------------|
| MWT-2600 (with standard probe) | 1.0 to 2000 | ±0.01 | 0 - 40 |
| MWT-2600 -01 (HT probe only) | 1.0 to 200 | ±0.01 | 0 - 800 |





Ultrasonic Thickness Gauge

At a Glance

- Accuracy: Up to $\pm 0.05\text{mm}$ accuracy

Features

- Use of ultrasound to determine coating thickness
- High accuracy measurement over a wide range
- Three measuring modes, P-E, I-E, Test
- Fully configurable test parameters
- Metric or imperial, selectable resolution of 0.1 or 0.01mm
- Test function for the purity of precious metals
- Backlit LCD display with adjustable contrast
- Supplied with 10mm diameter 5MHz probe
- Storage of 500 time stamped data groups
- Durable plastic case



Ultrasonic Thickness Gauge



The **Moore & Wright Ultrasonic Thickness Gauge** offers highly accurate thickness measurements with the ability to measure through coatings.

Suitable for measuring the thickness of various materials and equipped with a test function to identify the purity of precious metals, the Moore & Wright Ultrasonic Thickness Gauge enables fast and accurate measurement of a variety of plates and processed parts.

Ultrasonic Thickness Gauge

| Code No | Description | Frequency (MHZ) | Diameter of Contact Area (mm) | Measuring Range (steel) (mm) | Allowable Contact Temperature (°C) |
|----------|-------------|-----------------|-------------------------------|------------------------------|------------------------------------|
| MWT-2500 | Universal | 5 | 10 | 1.0~300.0 | -10~60 |

Specification

| | | | |
|----------------------|---|--|--------------------------------------|
| Working Principle | Ultrasonic | Compatible Coating Thickness (μm) | 500 μm |
| Measurement Mode | PE/ IE/ Test | Measurement Range (mm) | 1 - 300 (steel) |
| Accuracy (mm) | H<10 ± 0.05 H $\geq 10 \pm (0.05+H/100)$ | Probe Diameter (mm) | 10 |
| Resolution (mm) | 0.01 / 0.1 | Display Screen Size | 2" FSTN (128 x 6) with LED backlight |
| Measurable Materials | Steel, iron, glass, plastic, aluminium, etc | Sound Velocity Range (m/s) | 1000 - 9999 |
| Storage Capacity | 500 sets of data | Units of Measurement | Metric / Imperial |
| Language Supported | English/ Spanish/ Chinese | Working Temperature (°C) | 0 - 50 |
| Environment Humidity | Relative humidity less than 90% | Power Supply | 2 x 1.5V AA battery |
| Dimensions (mm) | 150 x 71 x 33 | Product Weight (g) | 200 |

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Leeb Hardness Tester

At a Glance



Range: 170-960HLD

Features

- Can be used on steel and cast steel, alloy tool steel, grey cast iron, ductile iron, cast aluminium alloy, copper zinc alloy (brass), copper tin alloy (bronze), pure copper
- The indication error is less than $\pm 6\text{HLD}$ (when $\text{HLD} = 760 \pm 30$); the repeatability error is less than 6 Error HLD (when $\text{HLD} = 760 \pm 30$)
- Full-format display with all hardness standards displayed simultaneously
- Leeb hardness shock wave display for additional diagnostics
- Hardness test block included as standard
- Compact & portable
- Suitable for harsh operating environments
- Anti-vibration, impact and electromagnetic interference
- High-performance ARM processor & digital signal processing for fast accurate readings
- Power supply: 2 AA alkaline batteries
- Automatic shutdown and other power-saving functions
- Supplied in rigid plastic case

Leeb Hardness Tester

Perfect for measuring the hardness of common metal materials, the **Moore & Wright Leeb Hardness Tester** features a unique full system display enabling easy switching from Leeb (HL), Brinell (HB), Rockwell A (HRA), Rockwell B (HRB), Rockwell C (HRC), Vickers (HV) and Shore (HS).

The Moore & Wright Leeb Hardness Tester is suitable for use in both laboratory and shop floor enabling testing of a variety of metal materials. Widely used in a range of industries, this tester features a shock wave display which can determine the effectiveness of testing and impact device working conditions, recognising both probe wear and debris in the casing.



Leeb Hardness Tester

| Code No. | Range | Power | Weight (g) |
|----------|------------|---------------------------|---|
| MWT-3100 | 170-960HLD | 2 x AA alkaline batteries | 330g (hardness gauge) 3880g (as supplied with sample including case) |

Leeb Hardness Tester Specification

| | |
|-----------------------|---|
| Measurement Range | 170~960HLD |
| Error | The indication error is less than $\pm 6\text{HLD}$ (when $\text{HLD} = 760 \pm 30$); the repeatability error is less than 6 Error HLD (when $\text{HLD} = 760 \pm 30$) |
| Measurement Direction | Support 360 degrees (vertical down, oblique down, horizontal, oblique up, vertical up) |
| Screen Display | Colour screen LCD display with adjustable brightness |
| Test Materials | Steel and cast steel, alloy tool steel, grey cast iron, ductile iron, cast aluminium alloy, copper zinc alloy (brass), copper tin alloy (bronze), pure copper |
| Power Supply | 2 x AA batteries |
| Data Storage | 100 groups |
| Size (mm) | 152 x 77 x 36 |
| Weight (g) | 330 (Gauge only) 3880 (Inc. case and test block) |

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Digital Force Gauge

At a Glance



Range up to 1000N

- Accuracy: $\pm 0.2\%$ F.S.
- Overload capacity: 150% of F.S. (LCD blinks beyond 110%)



Features

- User friendly touch keypad & digital display
- Compact and durable metal housing
- For both tensile and compressive forces
- Selectable units of N, gf, kgf, ozf, and lbf
- Supplied with a selection of measuring heads
- Easily mountable to an external frame
- Display automatically rotates to match device orientation
- Mechanical overload protection
- Includes charger and cable
- Calibration certificate included
- Supplied in a hard plastic case to house all accessories



Digital Force Gauge

This compact and user-friendly handheld digital push pull force gauge from Moore & Wright features an intuitive and clear digital display, as well as an advanced microprocessor ensuring high accuracy compressive and tensile force testing.

Featuring a compact durable metal housing with threaded holes for mounting to a frame. Models cover a variety of different ranges and resolutions. Each is supplied with a selection of measuring heads to contact the object under test, including a hook and extension shaft.



Accessories



Test stand available
MWT-8100-01

Digital Force Gauge

| Code No. | Range (N) | Resolution (N) |
|----------|-----------|----------------|
| MWT-8130 | 0-100 | 0.01 |
| MWT-8140 | 0-200 | 0.05 |
| MWT-8150 | 0-500 | 0.05 |
| MWT-8160 | 0-1000 | 0.1 |

Digital Force Gauge Specification

| | | | |
|---------------------|--|-----------------------|---|
| Accuracy | $\pm 0.2\%$ F.S. | Battery Life | Approx. 14 hours per charge |
| Display | 160 x 128 dot matrix LCD (2.8 inch) with Backlight | Charger / Adaptor | Charge via supplied USB cable |
| Overload Capacity | 150% of F.S. (LCD blinks beyond 110%) | Operating Environment | Temperature: -10 to 40°C Relative Humidity: 20 to 80% |
| Display Update Rate | 10 Hz | Dimension (mm) | 145 x 75 x 35 (digital gauge) 285 x 120 x 60 (in case) |
| Memory | 1000 data | Accessories | DC 5V 1A power adapter and charging cable. |
| Power | 3.6VDC 800mAh Ni-Mh rechargeable batteries | | |
| Weight (g) | 700 (gauge only) 1200 (in case) | | |

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Force Gauge Stand

At a Glance

- Capacity up to 125kg (250 lbf, 1200 N)
- Precision manual handwheel - one revolution gives 3mm of travel

Features

- Mounting plate with holes to secure the MWT-8100 range of force gauges
- Stand used in either vertical or horizontal orientation
- Force gauge may be positioned for compressive (push) or tensile (pull) forces
- Precision manual handwheel - one revolution gives 3mm of travel
- Capacity up to 125kg (250lbf, 1200N)
- Digital measuring scale 0 - 200mm
- Zero, absolute, incremental, and hold functions
- CR2032 replaceable battery
- Optional chucks available to grip test piece for tensile tests

The Moore & Wright MWT-8100-01 Force Gauge Stand is for use with Moore & Wright's MWT-8100 range of Force Gauges. The stand provides highly stable mounting of the gauge with an electronic scale showing vertical displacement for both tensile and compressive tests. Chucks are available to secure samples for tensile tests.



Specifications

| Code No. | Description | Range (mm) | Capacity (kg) |
|-------------|-----------------------------|------------|---------------------|
| MWT-8100-01 | Force gauge stand | 0 - 200 | 125 (250lbf, 1200N) |
| MWT-8100-06 | Tensile grip chuck (single) | | 0.15 |

NOTE: MWT-8100 force gauge to be ordered separately

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Profilometer (with Microsoft Tablet)

At a Glance

- With 50mm stroke length
- Sensor Range: $\pm 1000\mu\text{m}$

Features

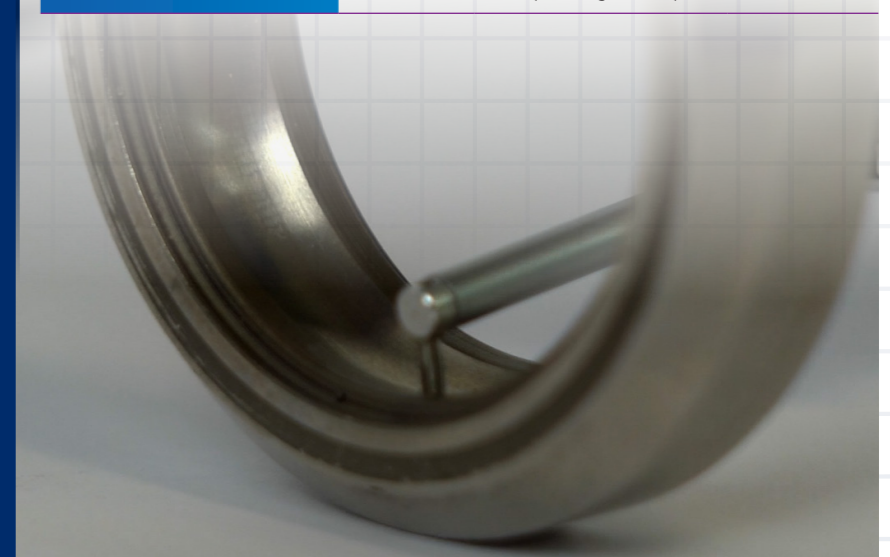
- Roughness and Waviness Profilometer
- With 10" colour touchscreen Microsoft tablet
- Dedicated software for control, data analysis, and data export
- Wired, or wireless WiFi communication for remote operation
- High precision linear rail, with stroke length up to 50mm
- Sensor range $\pm 1000\mu\text{m}$
- Measures the material profile with filtering and analysis to give Roughness and Waviness profiles, display Abbott curve, Amplitude Profiles and Fast Fourier transforms
- Configurable for metric or imperial units
- Sensor can be mounted in-line with the movement arm, or perpendicular to the axis to measure deep grooves from the side without access being limited by the stylus length
- Data storage via external USB or micro SD card
- Reports saved as CSV files for convenient export
- Supplied with standard test block for recalibration



The Moore & Wright MWT-1300 Profilometer is a powerful, portable tester for customisable surface form measurements. The tablet runs dedicated software to configure and initiate measurements, with live test data shown on-screen as it measures. Data is automatically processed and plotted to show the part's surface profile, roughness, and waviness, with additional Abbott Curve, Fast Fourier Transform, and Amplitude Distribution graphs for advanced analysis. Suitable for reporting to GB, DIN, ISO, ASME, and JIS standards, with over 100 parameter options. Measurements can be saved on the tablet or conveniently exported as .csv files onto the supplied SD card or via USB.

Profilometer Specification

| Code No. | Range (μm) | Resolution (μm) | Accuracy (%) |
|----------|-------------------------|--|--------------|
| MWT-1300 | ± 1000 | 0.0016 μm (Range $\pm 100\mu\text{m}$) 0.016 μm (Range $\pm 1000\mu\text{m}$) | ± 6 |



Surface Roughness Tester

At a Glance

Measuring Range (µm): Ra: Rq: 0.05 - 10.0, Rz: Rt: 0.1 - 50

Features

- Digital signal processing for high accuracy measurement
- Bright LCD display for wide angle viewing
- Selectable measuring parameters, sample distance and units
- Internal storage of 500 data points
- Wireless data transfer and device control with supplied dongle and software
- Create an Excel report of measurement data with analysis
- Aluminium housing for high durability and protection from electromagnetic interference
- Powered by a single AA battery
- Supplied with a reference standard block for test and calibration

The **Moore & Wright Portable Surface Roughness Tester** is our most compact device in our latest generation of roughness testers.

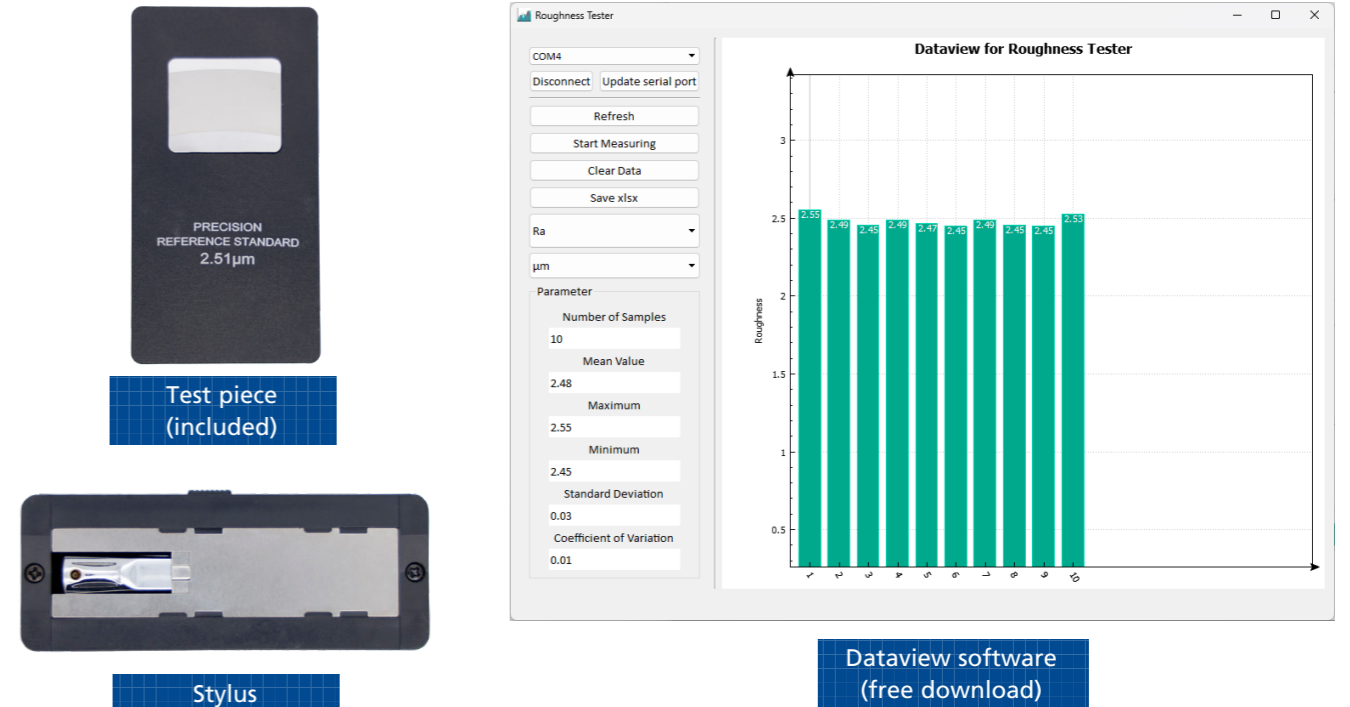
It is highly accurate with a wide measuring range, simple operation with the benefit of being small, hand-held, and portable. Interfaces with a PC for data analysis and reports.



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Surface Roughness Tester

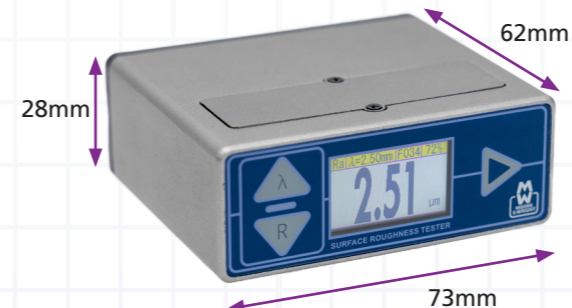


Surface Roughness Tester

| Code No. | Stroke Length (mm) | Sampling Length (mm) | Evaluation Length (mm) | Measuring Range (µm) | Weight (g) |
|----------|--------------------|----------------------|------------------------|---|------------|
| MWT-1100 | 5.6 | 0.25, 0.80, 2.50 | 1.25, 4.0, 5.6 | Ra: Rq: 0.05 - 10.0 Rz: Rt: 0.1 - 50 | 165 |

Specification

| | | | |
|---|--|-----------------------------------|--|
| Indication Variability | <6% | Power Supply | 1.5V battery |
| Indication Error | ±10% | Static Force of Sensor Stylus (N) | ≤0.016 |
| Arc Radius and Angle of Sensor Stylus Tip | Tip arc radius: 10 µm±1 µm Angle: 90° | Working Environment Conditions | Temperature: 0°C -40°C Relative humidity: < 90% |
| Parameter (µm) | Ra, Rz, Rq, Rt | | No vibration and corrosive medium around |



The software and dongle provide allow wireless interface with a PC in order to collect data from the tester. The data can then be displayed in a graph, and results can be exported to Excel including measurement statistics. Can also remotely initiate a test from the PC.



Surface Roughness Tester High Precision

At a Glance

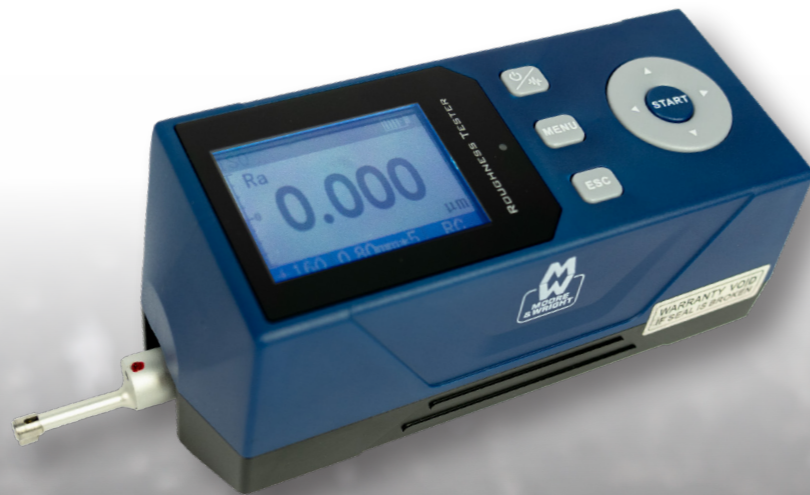
- Measuring parameters: Ra, Rq, Rz, Rt, Rp, Rv, RS, RSm, Rsk, Rku, Rpc, Ry, Rmax, R3z
- Extended probe to access internal bores or surfaces



Features

- Small, compact and simple to use
- Text and waveforms on a bright 2" LCD
- Compatible with ISO, DIN, ANSI, JIS standards
- Supports waveform and Abbott curve display
- Configurable measuring range and distance
- Large capacity data storage: 500 sets of raw data and waveforms
- Data transfer via wired connection to dedicated software (free download)
- Software enables configuration, control, graphical display and data transfer to Excel
- Low-power ARM microprocessor and ADC for improved measurement accuracy and calculation speed
- The stylus is surrounded by a protective shroud and may be removed for storage or transportation
- Internal 1000mAh lithium-ion rechargeable battery with external power adapter
- Automatic shutdown options for power saving
- Includes a precision reference standard
- Ingress Protection IP67
- Supplied in a tough protective carry case

The MWT-1200 Surface Roughness Tester is an advanced hand-held, portable roughness tester with an external probe to access tricky internal features. With a high-precision inductive sensor, wide range of roughness parameters and on-screen waveforms for analysis directly on the device. The dedicated application software can be used to drive the roughness tester, display waveforms, print reports and export readings to Excel.



Surface Roughness Tester High Precision

The stylus of the sensor is drawn across the measurement surface at a constant speed, the roughness of the surface causes a vertical displacement of the sensor. This in turn causes a change in inductance to coils which is then amplified. The resulting output signal is proportional to the material roughness. This signal undergoes digital processing by the ARM processor for filtering and calculating the various parameters. The results are displayed on the LCD screen or accessed via the application software and can then be stored, printed or exported to Excel.

Specification

| Code No | Resolution | Accuracy |
|----------|------------------------|----------------|
| MWT-1200 | 0.001µm | < ± 10% |
| | Measuring Range | |
| | Ra, Rq | 0.005µm - 32µm |
| | Rz, Ry, Rt, Rp, Rm | 0.02µm - 320µm |
| | Rs, Rsm | 1mm |

Extended probe to access internal bores or surfaces



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Shore A Digital Durometer 0-100HA

The MWT-3600 is a self-contained, hand-held, Digital Shore Durometer for the measurement of material hardness. This Shore A durometer is ideal for softer materials such as silicone, vinyl and rubbers. (For harder materials see Moore & Wright's MWT-3610).



The Shore A durometer is ideal for silicone and rubbers. It is recommended that the test piece is at least 6mm thick.

| Specification | | | |
|---------------|---------|------------|----------|
| Code No. | Range | Resolution | Accuracy |
| MWT-3600 | 0-100HA | 0.5HA | ±2HA |



At a Glance

 Range: 0-100 HA (Shore A)

Ideal for softer materials such as silicone, vinyl and rubbers




Features

- Large LCD display
- Range of measurement: 0-100 HA (Shore A)
- Ingress protection IP40
- Battery: CR2032
- Durometers are supplied in a hard plastic case

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For more information please click here

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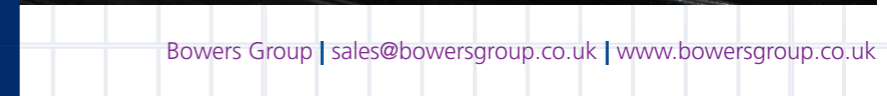
Shore D Digital Durometer 0-100HD

The MWT-3610 is a self-contained, hand-held, Digital Shore Durometer for the measurement of material hardness. This Shore D durometer is ideal for soft metals. (For softer materials, such as silicone and rubbers, see Moore & Wright's MWT-3600).



The Shore D durometer is best suited to harder rubbers or soft metals. It is recommended that the test piece is at least 6mm thick.

| Specification | | | |
|---------------|---------|------------|----------|
| Code No. | Range | Resolution | Accuracy |
| MWT-3610 | 0-100HD | 0.5HD | ±2HD |



At a Glance

 Range: 0-100 HA (Shore A)

Ideal for softer materials such as silicone, vinyl and rubbers



Features

- Large LCD display
- Range of measurement: 0-100 HD (Shore D)
- Ingress protection IP40
- Battery: CR2032
- Durometers are supplied in a hard plastic case

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Bore Gauging

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Dial / Digital Bore Gauge Sets - 316 Series

At a Glance

- With interchangeable contact points
- Set of carbide tipped contact points included

Features

- Unique self centring device
- Supplied with dial indicator, resolution 0.01mm
- Packed as set with all necessary accessories to measure the complete range as shown

Digital Bore Gauge Sets

- Supplied with digital indicator with bar graph and numerical display



Dial / Digital Bore Gauge Sets - 316 Series

Boasting interchangeable contact points, the **Moore & Wright Dial Bore Gauge Sets** include the full set of carbide tipped contact points and are supplied with a dial indicator with a resolution of 0.01mm.

Digital bore gauge sets are supplied with a digital indicator featuring a bar graph and numerical display.

Dial / Digital Bore Gauge Sets - 316 Series

| Code No | Range (mm) | Resolution (mm) |
|----------|------------|-----------------|
| MW316-01 | 6-10 | 0.01 |
| MW316-02 | 10-18 | 0.01 |
| MW316-03 | 18-35 | 0.01 |
| MW316-04 | 35-50 | 0.01 |
| MW316-05 | 50-160 | 0.01 |
| MW316-06 | 160-250 | 0.01 |

Dial / Digital Bore Gauge Sets - 316 Series

| Code No | Range (mm) | Resolution (mm) | Resolution (inch) | Measuring Depth (mm) | Measuring Depth (inch) |
|-----------|------------|-----------------|-------------------|----------------------|------------------------|
| MW316-12D | 35-160 | 0.001 | 0.0005 | 150 | 6 |



MW316-05



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Find Out More

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