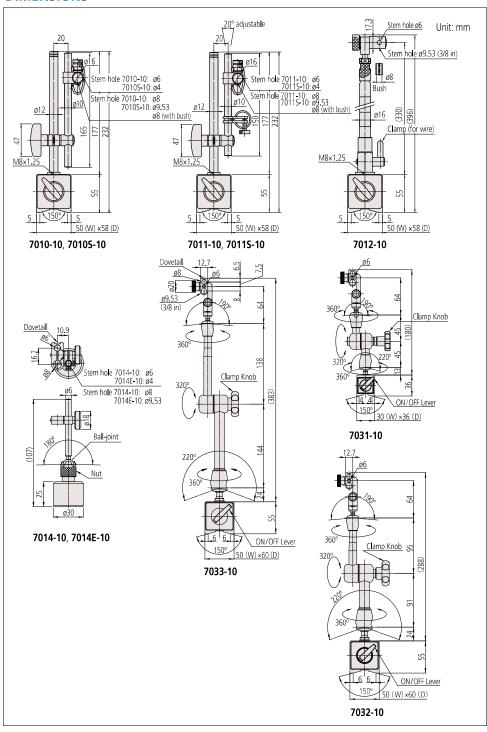
SERIES 7 — Magnetic Stands

- Mitutoyo's Magnetic Stands clamp to iron or steel surfaces with a strong magnetic force that is switchable ON or OFF to allow easy mounting and dismounting.
 Vertical/horizontal mounting holes and
- Vertical/horizontal mounting holes and bushes are available for attaching dial test indicators and dial indicators*.
- In addition, models **7014-10**, **7014E-10**, **7031-10**, **7032-10** and **7033-10** have a dovetail groove in the swivel holder for attaching dial test indicators that are equipped with a dovetail.
- * Recommended dial indicators: compact and lightweight



Comparison measuring instruments which ensure high quality, high accuracy and reliability.

DIMENSIONS



SPECIFICATIONS

51 Ech Tex (110115				
Order No.	Description	Applicable holding stem sizes	Magnetic force*1	Remarks
7010-10*2*3	Magnetic stand	ø6 mm, ø8 mm	Approx. 600 N	_
7010S-10*2*3	Magnetic stand	ø4 mm, ø8 mm, ø9.53 mm (3/8 in)	Approx. 600 N	_
7011-10 *2*3	Magnetic stand	ø6 mm, ø8 mm	Approx. 600 N	With fine adjustment
7011S-10*2*3	Magnetic stand	ø4 mm, ø8 mm, ø9.53 mm (3/8 in)	Approx. 600 N	With fine adjustment
7012-10* ⁴	Magnetic stand	ø6 mm, ø8 mm, ø9.53 mm (3/8 in)	Approx. 600 N	_
7014-10*4	Mini magnetic stand	ø6 mm, ø8 mm, with dovetail	Approx. 150 N	Without magnet ON/OFF
7014E-10*2*3	Mini magnetic stand	ø4 mm, ø9.53 mm (3/8 in)	Approx. 150 N	Without magnet ON/OFF
7031-10	Universal magnetic stand	ø6 mm, ø8 mm, ø9.53 mm (3/8 in), with dovetail	Approx. 300 N	With mechanical locking system
7032-10	Universal magnetic stand	ø6 mm, ø8 mm, ø9.53 mm (3/8 in), with dovetail	Approx. 600 N	With mechanical locking system
7033-10	Universal magnetic stand	ø6 mm, ø8 mm, ø9.53 mm (3/8 in), with dovetail	Approx. 600 N	With mechanical locking system

*1 The magnetic holding force applies to that needed for vertical separation from a thick and flat steel object.
*2 Back plunger type (**1160T**, etc.) cannot be attached.
*3 When attaching a compact dial indicator (outer frame diameter 31, 36 or 40 mm), select a back cover type with a lug.
*4 Use with a dial test indicator or SERIES 1 dial indicator (compact or lightweight type) is recommended.



• Vertical fine adjustment is available with onetouch control thanks to the parallel spring

suspension.

Dial Gage Stands SERIES 7

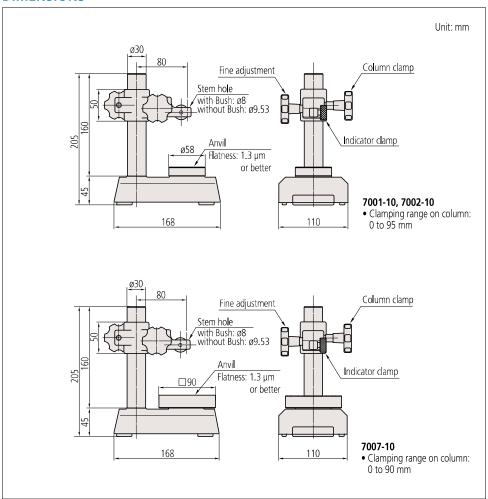
- A convenient supporting stand for enabling a dial indicator to be used for comparative height or thickness measurements.
- 90×90 mm for **7007-10**.
- Anvil: ø58 mm for **7001-10**, **7002-10**
 - Mitutoyo Mitutoyo 7001-10 7002-10 (with ø58 mm serrated anvil) (with ø58 mm non-serrated anvil)



(with 90 mm square semi-serrated anvil)

Comparison measuring instruments which ensure high quality, high accuracy and reliability.

DIMENSIONS



SPECIFICATIONS

Metric	•	
Order No.	Stem hole (mm)	Remarks
7001-10	ø8, ø9.53	With serrated anvil
7002-10	ø8, ø9.53	With flat anvil
7007-10	ø8, ø9.53	With square anvil

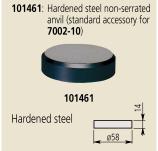
Note 1: Perpendicularity of the stem hole to the anvil is better than 0.4 mm/100 mm

Note 2: Take note that when mounting high-accuracy Linear Gages (with resolution of 0.1 µm or better) to these stands, accuracy may be affected depending on the perpendicularity of the mounting hole to the top surface of the anvil (cosine effect).

Note 3: Compact dial indicators (bezel ø31, ø36) are not suitable for use with these stands.

Accessories (for 7001-10, 7002-10)









Accessories for 215-156-10

- 21JAA329: Ø8 mm bush (standard accessory)
 21JAA330: Ø9.53 mm (3/8 in) bush (standard accessory)
 21JAA331: Ø15 mm bush (optional accessory)

SERIES 215 — Granite Base Comparator Stands

- The base is made of black granite that stays free of burrs and build-ups due to its finegrain composition.
- Easy maintenance due to the non-rusting base.
- The stability of the granite base assures long-lasting flatness accuracy.









SPECIFICATIONS

Order No	Granite base size (W×D×H) (mm)	Clamping range (mm)	Stem hole (mm)	Remarks
215-150-1	120×180×50	110	ø8, ø9.53	With fine adjustment of 1 mm range
215-151-1	150×200×50	250	ø8, ø9.53	With fine adjustment of 1 mm range
215-153-1	200×250×80	260	ø8, ø9.53	With fine adjustment of 1 mm range
215-156-1	300×250×80	275	ø8, ø9.53, ø20	With fine adjustment over entire travel

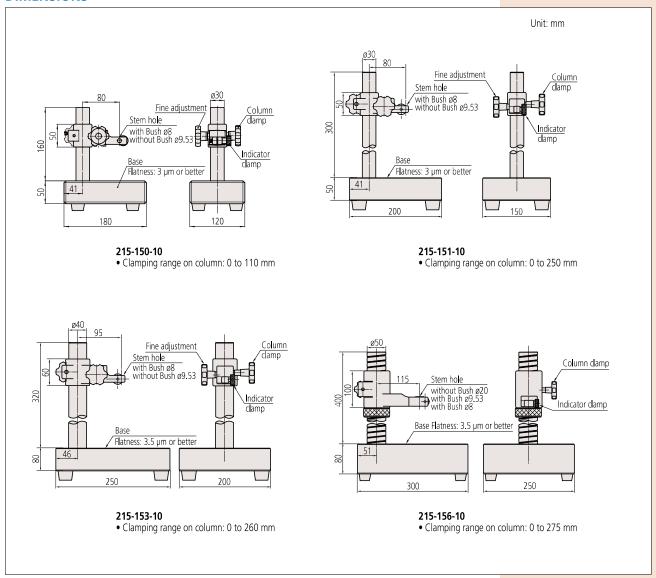
Note 1: Perpendicularity of the stem hole to the anvil is better than 0.2 mm/100 mm.

Note 2: Take note that when mounting high-accuracy Linear Gages (with resolution of 0.1 µm or better) to these stands, accuracy may be affected depending on the perpendicularity of the mounting hole to the top surface of the anvil (cosine effect). Note 3: Compact dial indicators (bezel ø31, ø36) are not suitable for use with these stands.



Comparison measuring instruments which ensure high quality, high accuracy and reliability.

DIMENSIONS



Typical application using Digimatic Indicator **ID-H**.

Accessories for 215-505-10

- 21JAA329: ø8 mm bush (standard accessory)
- 21JAA330: ø9.53 mm (3/8 in) bush (standard accessory)
- 21JAA331: ø15 mm bush (optional accessory)

SERIES 215 — Cast Iron Base Comparator Stands

- These stands have a very stable cast-iron base that enables precise measurement.
 With an integrated indicator mounting section and arm, the bracket for BSC-3
- The semi-serrated anvil prevents very flat workpieces from wringing to it and the 2.3 µm flatness (or better) promotes accurate measurement.
- With an integrated indicator mounting section and arm, the bracket for BSC-30HX provides further improved rigidity, making it easy to adjust parallelism.
- BSB-20X uses a square 110 mm×110 mm serrated anvil while BSC-30HX uses a square
 150 mm×150 mm serrated anvil.



SPECIFICATIONS

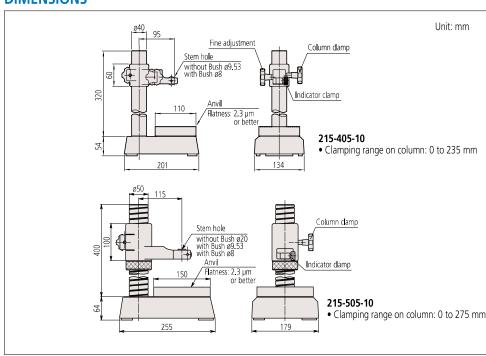
Order No.	Anvil	Micromotion mechanism (Adjustment range)	Stem hole (mm)
215-405-10	Square semi-serrated anvil (110×110 mm)	Vertical fine adjustment (1 mm)	ø9.53, ø8 with Bush
215-505-10	Square semi-serrated anvil (150×150 mm)	Micromotion screw	ø20, ø9.53 with Bush, ø8 with Bush

Note 1: Perpendicularity of the stem hole to the anvil is better than 0.4 mm/100 mm.

Note 2: Take note that when mounting high-accuracy Linear Gages (with resolution of 0.1 µm or better) to these stands, accuracy may be affected depending on the perpendicularity of the mounting hole to the top surface of the anvil (cosine effect).

Note 3: Compact dial indicators (bezel ø31, ø36) are not suitable for use with these stands.

DIMENSIONS





Comparison measuring instruments which ensure high quality, high accuracy and reliability.

SERIES 519 — Transfer Stands

• Transfer Stands are designed for comparison measurements of size using a dial indicator or Digimatic Indicator.



SPECIFICATIONS

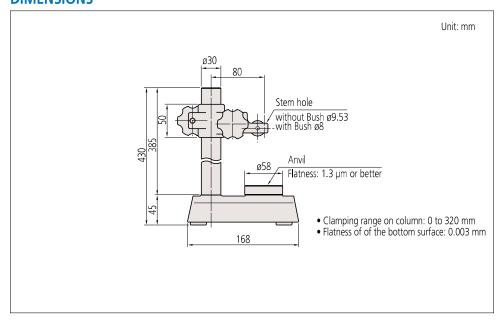
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Order No.	Clamping range on column (mm)	Micromotion adjustment range (mm)	Stem hole (mm)
519-109-10	0 to 320	1	ø9.53. ø8 with Bush

Note 1: Perpendicularity of the stem hole to the anvil is better than 0.4 mm/100 mm.

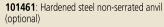
Note 2: Take note that when mounting high-accuracy Linear Gages (with resolution of 0.1 μm or better) to these stands, accuracy may be affected depending on the perpendicularity of the mounting hole to the top surface of the anvil (cosine effect). Note 3: Compact dial indicators (bezel ø31, ø36) are not suitable for use with these stands.

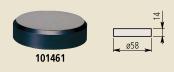
DIMENSIONS



Accessories







101463: Hardened steel domed anvil (optional)



Accuracy			
	Mitutoyo	Reference JIS B 7540 Grade 1,100 mm or shorter	
Bottom-surface flatness	2 µm or better	10 µm or better	
V-surface flatness	2 µm or better	10 µm or better	
Parallelism between the bottom-surface and a cylinder on the V-surface	7.5 µm or better	10 µm or better	
Inclination of the V-anvil against the bottom-surface	10 µm or better	10 µm or better	
Parallelism between the side surface and a cylinder on the V-surface	7.5 µm or better	20 µm or better	
Difference in the height of a pair of V-Blocks	9 µm or better	10 µm or better	

Optional Accessory 101462 Serrated anvil (standard accessory)

V-Block Set SERIES 181



SPECIFICATIONS Metric

Order No.	Max. workpiece dia. (mm)	Remarks
181-902-10	25	A set of two blocks and clamps

DIMENSIONS

