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 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

7010-10

7011-10

7012-10

7014-10
(magnetic clamping is non-switchable)

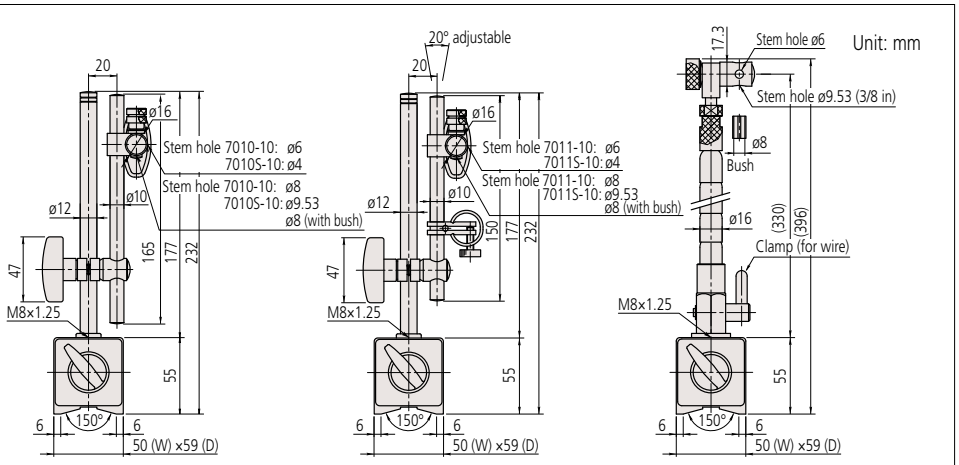
7033-10

7031-10

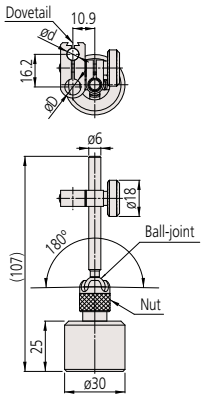
7032-10

F

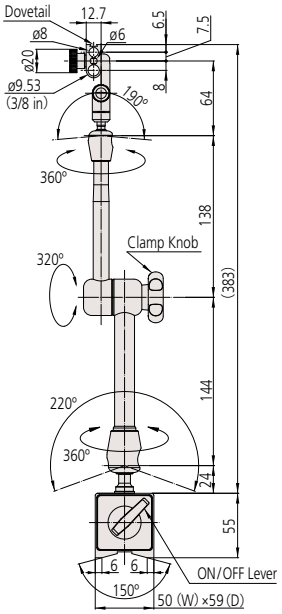
DIMENSIONS



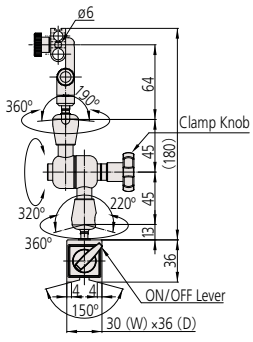
7010-10, 7010S-10 **7011-10, 7011S-10** **7012-10**



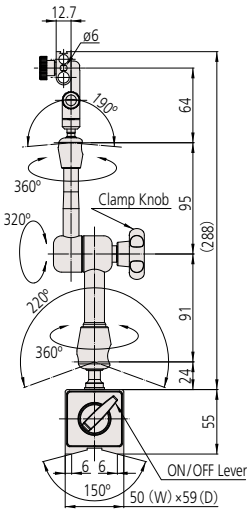
7014-10, 7014E-10



7033-10



7031-10



7032-10

Order No.	D	d
7014-10	8	6
7014E-10	9.53 (3/8 in)	4

SPECIFICATIONS

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 (**1160A**, 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.

Dial Gage Stands
SERIES 7

- A convenient supporting stand for enabling a dial indicator to be used for comparative height or thickness measurements.
- Anvil: ø58 mm for **7001-10**, **7002-10** 90×90 mm for **7007-10**.
- Vertical fine adjustment is available with one-touch control thanks to the parallel spring suspension.

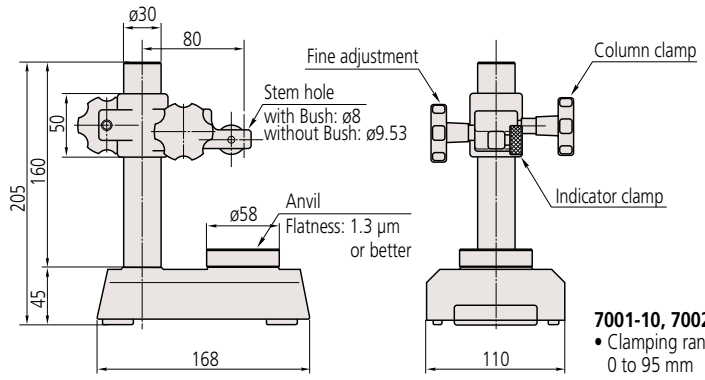
7001-10
(with ø58 mm serrated anvil)

7002-10
(with ø58 mm non-serrated anvil)

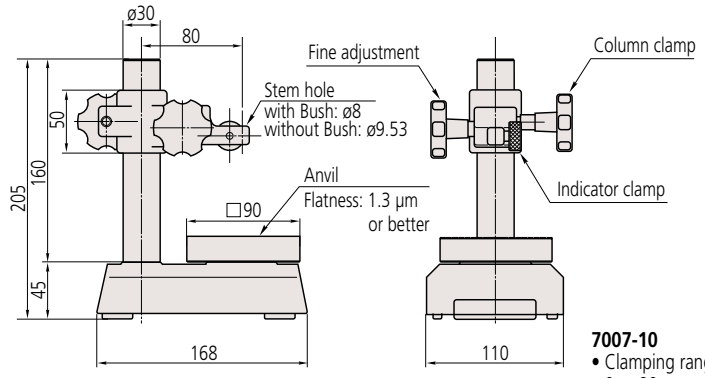
7007-10
(with 90 mm square semi-serrated anvil)

DIMENSIONS

Unit: mm



7001-10, 7002-10
- Clamping range on column: 0 to 95 mm



7007-10
- Clamping range on column: 0 to 90 mm

SPECIFICATIONS

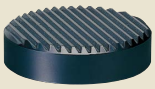
Metric

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.

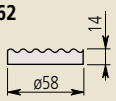
Accessories (for 7001-10, 7002-10)

101462: Hardened steel serrated anvil (standard accessory for **7001-10**)

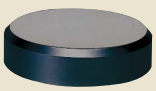


101462

Hardened steel

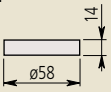


101461: Hardened steel non-serrated anvil (standard accessory for **7002-10**)



101461

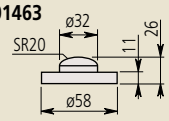
Hardened steel



101463: Hardened steel domed anvil*
* Not available for **7007-10**. (optional)

101463

Hardened steel



F

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 fine-grain composition.
- Easy maintenance due to the non-rusting base.
- The stability of the granite base assures long-lasting flatness accuracy.

215-150-10

215-151-10

215-153-10

215-156-10

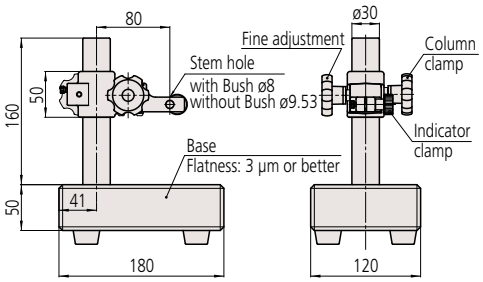
SPECIFICATIONS

Order No.	Granite base size (W×D×H) (mm)	Clamping range (mm)	Stem hole (mm)	Remarks
215-150-10	120×180×50	110	ø8, ø9.53	With fine adjustment of 1 mm range
215-151-10	150×200×50	250	ø8, ø9.53	With fine adjustment of 1 mm range
215-153-10	200×250×80	260	ø8, ø9.53	With fine adjustment of 1 mm range
215-156-10	300×250×80	275	ø8, ø9.53, ø20	With fine adjustment over entire travel

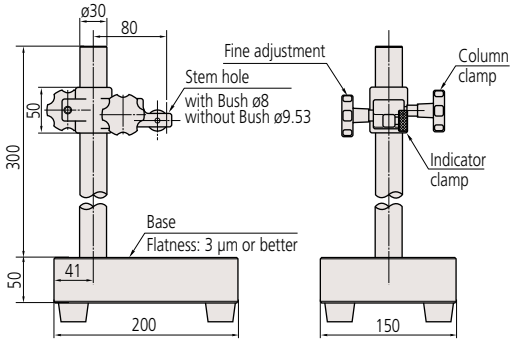
Note 1: Perpendicularity of the stem hole to the anvil is better than 0.2 mm/100 mm.
Note 2: Take note that when mounting high-accuracy Linear Gages (with resolution of 0.1 µm or better) to these stands, accuracy may be affected depending on the perpendicularity of the mounting hole to the top surface of the anvil (cosine effect).
Note 3: Compact dial indicators (bezel ø31, ø36) are not suitable for use with these stands.

DIMENSIONS

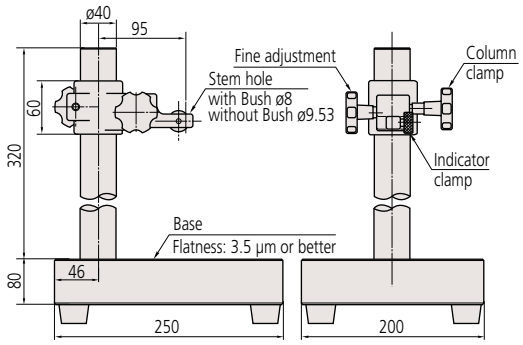
Unit: mm



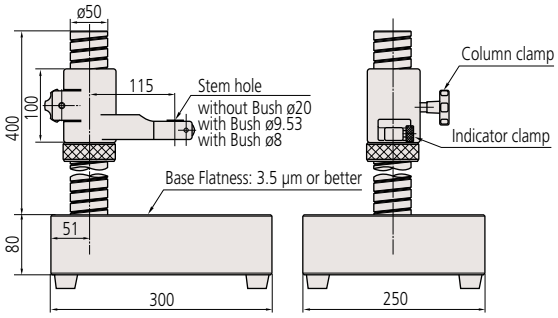
215-150-10
• Clamping range on column: 0 to 110 mm



215-151-10
• Clamping range on column: 0 to 250 mm



215-153-10
• Clamping range on column: 0 to 260 mm



215-156-10
• Clamping range on column: 0 to 275 mm

SERIES 215 — Cast Iron Base Comparator Stands

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

- These stands have a very stable cast-iron base that enables precise measurement.
- 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.

215-405-10

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)

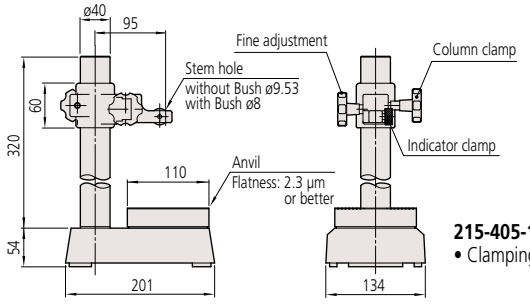
SPECIFICATIONS

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

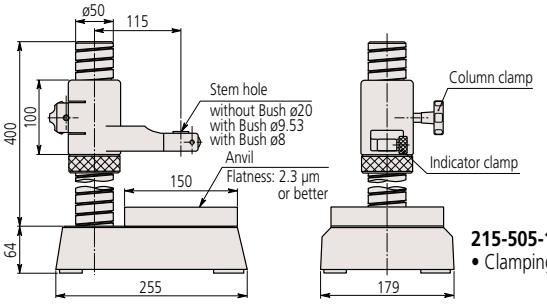
Note 1: Perpendicularity of the stem hole to the anvil is better than 0.4 mm/100 mm.
Note 2: Take note that when mounting high-accuracy Linear Gages (with resolution of 0.1 µm or better) to these stands, accuracy may be affected depending on the perpendicularity of the mounting hole to the top surface of the anvil (cosine effect).
Note 3: Compact dial indicators (bezel ø31, ø36) are not suitable for use with these stands.

DIMENSIONS

Unit: mm



215-405-10
- Clamping range on column: 0 to 235 mm



215-505-10
- Clamping range on column: 0 to 275 mm

F

Mitutoyo

SERIES 519 — Transfer Stands

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

519-109-10
(with a serrated anvil)

SPECIFICATIONS

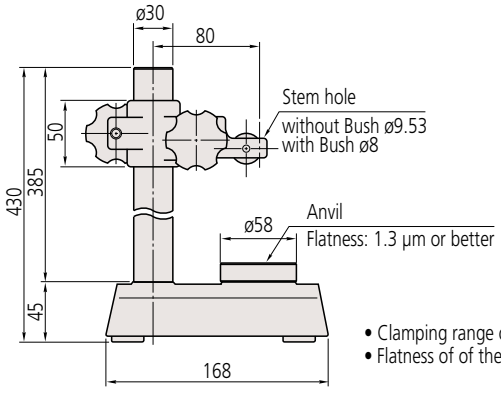
Metric

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

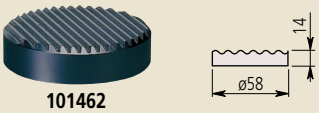
Unit: mm



- Clamping range on column: 0 to 320 mm
- Flatness of of the bottom surface: 0.003 mm

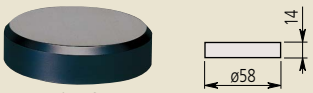
Accessories

101462: Hardened steel serrated anvil (standard accessory)



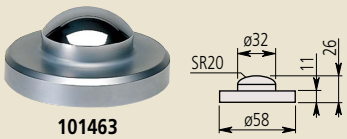
101462

101461: Hardened steel non-serrated anvil (optional)



101461

101463: Hardened steel domed anvil (optional)



101463