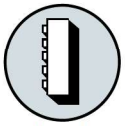
Height Master
SERIES 515

- For calibrating and setting height gages.
- Staggered arrangement of block stack have two measuring faces on the same level, one facing up and the other down (except for **515-310**).

515-322

Staggered 20 mm blocks (movable)

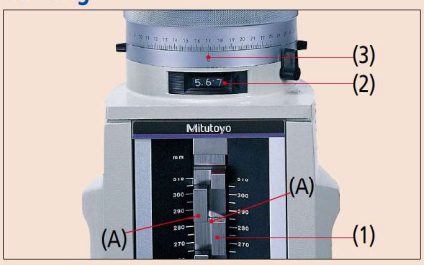


Vertical orientation

Riser block

Typical application

Reading



(A) Height A

(1) Scale	280.	mm
(2) Counter	5.67	mm
(3) Thimble	0.000	mm
	285.670	mm

SPECIFICATIONS

Metric

Code No.	515-322
Range (H)	5 < H ≤ 310 mm
Graduation (analog scale)	0.001 mm
Block step	20 mm (staggered)
Micrometer adjustment	20 mm
Micrometer feed	0.5 mm/rev
Block pitch accuracy	±1.5 µm
Parallelism of blocks	1.0 µm
Feed error	±1.0 µm
Retrace error	1.0 µm
Mass	23 kg

Inch

Code No.	515-310	515-311
Range (H)	0.2 in < H ≤ 12.2 in	
Graduation (analog scale)	0.00001 in	
Block step	0.5 in (straight)	1 in (staggered)
Micrometer adjustment	1 in	
Micrometer feed	0.025 in/rev	
Block pitch accuracy	±50 µin	
Parallelism of blocks	40 µin	
Feed error	±40 µin	
Retrace error	40 µin	
Mass	23 kg	

Note 1: The block pitch accuracy and the parallelism of blocks are relative to the main unit reference surface.
Note 2: Supplied with a wooden storage case as standard.

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Data Management Software by Mitutoyo

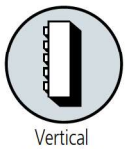
PROPRIETARY INSPECTION CERTIFICATE

Digital Height Master
SERIES 515

- For calibrating and setting height gages.
- Staggered arrangement of block stack have two measuring faces on the same level, one facing up and the other down.
- Equipped with a data output port that enables incorporation into measurement networking and statistical process control systems. (Refer to page 09-3 for details)

515-374

Staggered 20 mm blocks (movable)



Vertical orientation

Riser block

Function

Zero setting
Origin-setting
Origin restoration
Data hold
Auto power off
Data output

Optional Accessories

Code No.	Type	Description
959149	C	connection cable (1 m)
959150	C	connection cable (2 m)

SPECIFICATIONS

Metric

Code No.		515-374	515-376	515-378
Range (H)		10 < H ≤ 310 mm	10 < H ≤ 460 mm	10 < H ≤ 610 mm
Resolution (digital display)		0.001 mm		
Block step		20 mm (staggered)		
Micrometer adjustment		20 mm		
Micrometer feed		0.5 mm/rev		
Block pitch accuracy	0 < H ≤ 310 mm	±1.5 µm		
	310 < H ≤ 460 mm	—	±2.5 µm	
	460 < H ≤ 610 mm	—	—	±3.5 µm
Parallelism of blocks	0 < H ≤ 310 mm	2.0 µm		
	310 < H ≤ 610 mm	—	2.5 µm	
Feed error		±2.0 µm		±2.5 µm
Retrace error		2.0 µm		2.5 µm
Mass		9.5 kg	13.6 kg	16 kg

Inch

Code No.		515-375	515-377	515-379
Range (H)		0.5 in < H ≤ 12 in	0.5 in < H ≤ 18 in	0.5 in < H ≤ 24 in
Resolution (digital display)		0.0001 in		
Block step		1 in (staggered)		
Micrometer adjustment		1 in		
Micrometer feed		0.025 in/rev		
Block pitch accuracy	0 < H ≤ 12 in	±100 µin		
	12 in < H ≤ 18 in	—	±100 µin	
	18 in < H ≤ 24 in	—	—	±150 µin
Parallelism of blocks	0 < H ≤ 12 in	50 µin		
	12 in < H ≤ 18 in	—	100 µin	
Feed error		±100 µin		
Retrace error		100 µin		
Mass		9.5 kg	13.6 kg	16 kg

- Display: 6 digits
- Power source: SR44 battery (2 pcs.), **938882** included as standard (for operational checks)
- Battery life: Approx. 1.8 years under normal use

Note: The block pitch accuracy and the parallelism of blocks are based on main unit reference surface, which does not include the retrace error.

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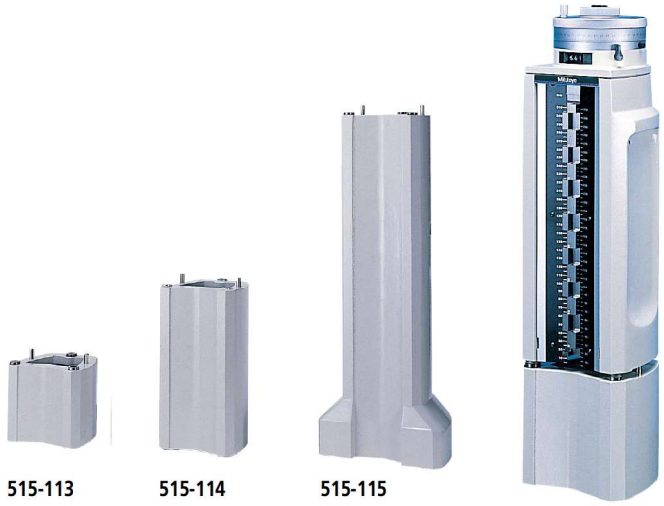
Height Master
SERIES 515 — Optional accessories

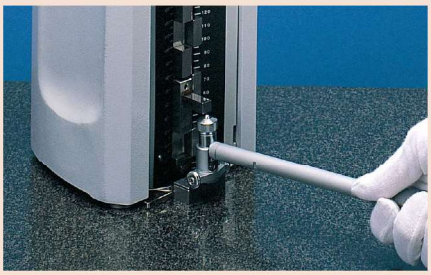
Riser Blocks
SERIES 515

- The measuring range of a Height Master can be extended by using riser blocks.
- They can also be used on Square Master models **311-215** and **311-225**. (Refer to page 01-48 for details)



515-113 515-114 515-115

Typical application



Bore gage zero-setting

SPECIFICATIONS

Metric

Code No.	Height (mm)	Accuracy (µm)	Variation in length (µm)	Mass (kg)
515-113	150	±0.6	0.6	5.7
515-114	300	±1.0	0.8	9.8
515-115	600	±2.0	1.0	26.8

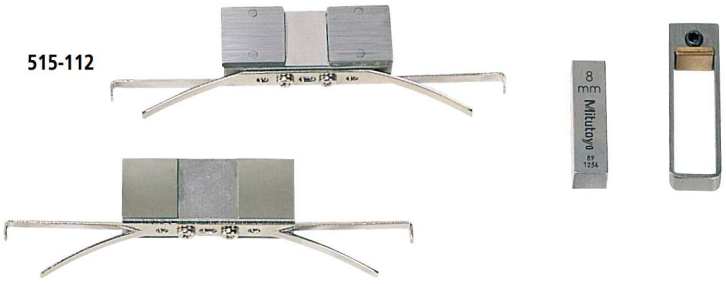
Inch

Code No.	Height (in)	Accuracy (µin)	Variation in length (µin)	Mass (kg)
515-116	6	±20	20	4.8
515-117	12	±40	30	11.3
515-118	24	±80	40	31

Auxiliary Block Kit
SERIES 515 – for Bore Gage

- Used for efficient zero-setting of dial bore gages and tubular inside micrometers (18 - 150 mm) on a Height Master.

515-112



SPECIFICATIONS

Metric

Code No.	Model
515-110	Universal Height Master
515-111	Digital Height Master (**515-374**/**376**/**378**)
515-112	Height Master (**515-322**)

Inch

Code No.	Model
515-119	Universal Height Master, Height Master (**515-310**)
515-120	Digital Height Master (**515-375**/**377**/**379**)
515-121	Height Master (**515-311**)