

Height Master

SERIES 515

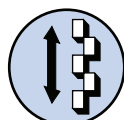
FEATURES

- Models with the staggered arrangement of blocks have two measuring faces on the same level, one facing up and the other down (except for **515-310**).

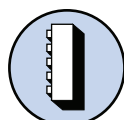
- Each Height Master is supplied with a gauge block for reference-height setting.
- Fitted wooden case supplied.



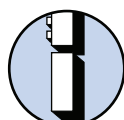
515-322



Staggered 20mm blocks (movable)



Vertical orientation



Riser block



SPECIFICATIONS

Metric		
Range (H)	Order No.	Block step
5 < H ≤ 310mm	515-322	20mm (staggered)

Inch		
Range (H)	Order No.	Block step
.2" < H ≤ 12.2"	515-310	.5" (straight)
.2" < H ≤ 12.2"	515-311	1" (staggered)



(Refer to page IV for details.)

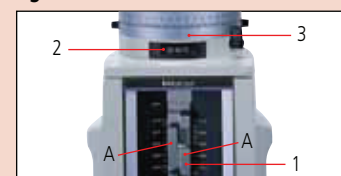
Technical Data

Measuring range (H): Refer to the list of specifications.
 Graduation: 0.001mm or .00001"
 Block arrangement: Staggered (515-310: straight)
 Micrometer adjustment: 20mm or 1"
 Micrometer feed: 0.5mm/rev or .025"/rev
 Block pitch accuracy: ±1.5μm
 Parallelism of blocks: 1μm
 Feed error: ±1μm
 Retrace error: 1μm
 Mass: 23kg

Optional Accessories

515-112: Auxiliary block kit for bore gauge (mm)
515-119: Auxiliary block kit for bore gauge (for **515-310**)
515-121: Auxiliary block kit for bore gauge (for **515-311**)
 —: Riser block (see page E-29.)

Reading



Height A

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

Digital Height Master

SERIES 515

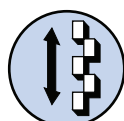
FEATURES

- Standard model with a digital display, featuring all essential specifications required for a versatile height standard.

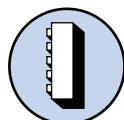
- SPC output.
- Each Height Master is supplied with a gauge block for reference-height setting.



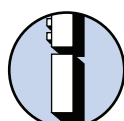
515-374



Staggered 20mm blocks (movable)



Vertical orientation



Riser block



SPECIFICATIONS

Metric		
Range (H)	Order No.	Block step
10 < H ≤ 310mm	515-374	20mm (staggered)
10 < H ≤ 460mm	515-376	20mm (staggered)
10 < H ≤ 610mm	515-378	20mm (staggered)

Inch		
Range (H)	Order No.	Block step
.5" < H ≤ 12"	515-375	1" (staggered)
.5" < H ≤ 18"	515-377	1" (staggered)
.5" < H ≤ 24"	515-379	1" (staggered)



(Refer to page IV for details.)



Technical Data

Measuring range (H): Refer to the list of specifications.
 Graduation: 0.001mm or .00001"
 Block arrangement: Staggered
 Micrometer adjustment: 20mm or 1"
 Micrometer feed: 0.5mm/rev or .025"/rev
 Block pitch accuracy: ±1.5μm (0 < H ≤ 310mm)
 ±2.5μm (310 < H ≤ 450mm)
 ±3.5μm (450 < H ≤ 610mm)
 Parallelism of blocks: 2.0μm (0 < H ≤ 310mm)
 2.5μm (310 < H ≤ 610mm)
 Feed error: ±2.0μm (**515-378, 515-379**: ±2.5μm)
 Retrace error: 2.0μm (**515-378, 515-379**: 2.5μm)
 Display: LCD
 Battery: SR44 (2 pcs.), **938882**
 Battery life: Approx. 1.8 years under normal use
 Mass: 9.5kg (**515-374, 515-375**)
 13.6kg (**515-376, 515-377**)
 16kg (**515-378, 515-379**)

Function

Zero setting, Presetting, ABS/INC switching, Data hold, Data output, inch/mm conversion (inch/mm models)
 Alarm: Low voltage, Counting value composition error

Optional Accessories

515-111: Auxiliary block kit for bore gauge (mm)
515-120: Auxiliary block kit for bore gauge (inch)
 —: Riser block (see page E-29.)
959149: SPC cable (1m)
959150: SPC cable (2m)

Auxiliary Block Kit

SERIES 515 — for Bore Gauge

FEATURES

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

Bore gauge reference-setting



SPECIFICATIONS

Metric	
Order No.	Model
515-110	Universal Height Master
515-111	Digital Height Master
515-112	Height Master

Inch	
Order No.	Model
515-119	Universal Height Master, Height Master (515-310)
515-120	Digital Height Master
515-121	Height Master (515-310)

Riser Blocks

SERIES 515

FEATURES

- These riser blocks are specially designed for standard/Digimatic height masters.



SPECIFICATIONS

Metric			
Height	Order No.	Accuracy	Mass
150mm	515-113	$\pm 0.6\mu\text{m}$	5.7kg
300mm	515-114	$\pm 1.0\mu\text{m}$	11.3kg
600mm	515-115	$\pm 2.0\mu\text{m}$	31kg

Inch			
Height	Order No.	Accuracy	Mass
6"	515-116	$\pm 20\mu\text{in}$	12.5 lbs.
12"	515-117	$\pm 40\mu\text{in}$	24.9 lbs.
24"	515-118	$\pm 80\mu\text{in}$	68.2 lbs.