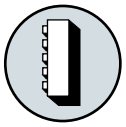
Universal Height Master
SERIES 515 — Usable in Vertical and Horizontal Orientations

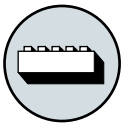
- The Universal Height Master is designed for both vertical and horizontal orientation, providing a wide range of applications such as accuracy checking of machine tool table movements.
- Analog display by the built-in counter – the appearance and specifications are the same as **515-322**.
(Refer to page 01-37 for details)

515-520

Single-row 10 mm blocks (movable)



Vertical orientation



Horizontal orientation

Riser block

SPECIFICATIONS

Metric

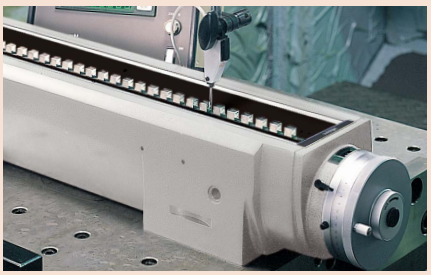
Code No.		515-520	515-523
Range (H)		5 < H ≤ 610 mm	5 < H ≤ 1010 mm
Graduation (analog scale)		0.001 mm	
Block step		10 mm (straight)	
Micrometer adjustment		20 mm	
Micrometer feed		0.5 mm/rev	
Block pitch accuracy	H ≤ 310 mm	±1.5 µm	
	310 < H ≤ 610 mm	±2.5 µm	
	610 < H ≤ 1010 mm	—	±3.5 µm
Parallelism of blocks	H ≤ 610 mm	1.5 µm	
	610 < H ≤ 1010 mm	—	2.0 µm
Feed error		±1.2 µm	±1.5 µm
Retrace error		1.2 µm	1.5 µm
Mass		42 kg	63.5 kg

Inch

Code No.		515-512	515-510	515-513
Range (H)		0.2 in < H ≤ 18.2 in	0.2 in < H ≤ 24.2 in	0.2 in < H ≤ 40.2 in
Graduation (analog scale)		0.00001 in		
Block step		0.5 in (straight)		
Micrometer adjustment		1 in		
Micrometer feed		0.025 in/rev		
Block pitch accuracy	H ≤ 12 in	±50 µin		
	12 in < H ≤ 24 in	—	±100 µin	
	24 in < H ≤ 40 in	—	—	±150 µin
Parallelism of blocks	H ≤ 24 in	60 µin		
	24 in < H ≤ 40 in	—	80 µin	
Feed error		±40 µin		±60 µin
Retrace error		40 µin		60 µin
Mass		42 kg		63.5 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.

Typical application



Using in horizontal orientation

Optional Accessories

Supporting base
900574 (Dedicated for the Universal Height Master. Provided for **515-523** and **515-513** as standard.)
- Stable vertical orientation is available.