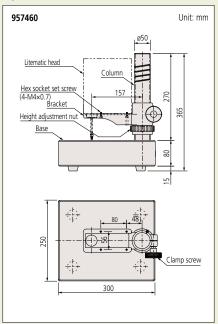
Optional Stand for VL-50S-B



Optional Accessories

- Foot switch: 937179T
- Dedicated stand: 957460*1
- SPC cable (1 m): 936937*2
- SPC cable (2 m): 965014*2
- VL weight part: 02AZE375*³
- Recommended spare contact points: Shell type: 101118 (Approx. 0.02 N)*4 Carbide tipped spherical contact point, ø7.5: 120059 (Approx. 0.03 N)*4 Carbide tipped spherical contact point, ø10.5: 120060 (Approx. 0.06 N)*4
- Carbide tipped needle contact point, ø0.45: 120066 (Approx. 0.01 N)*⁴
- *1 Only VL-50S is available.
- *2 Refer to page G-18 for details of the RS link. *3 Not applicable to **VL-50-100-B** and **VL-50S-100-B**
- *4 Values in parentheses indicate the measuring force of a 0.01 N model fitted with the respective optional points



Mitutoyo

Refer to the Litematic Brochure (E13006) for more details.

VL-50-B/50S-B Litematic SERIES 318 — High-accuracy/resolution Measuring Machine

- With a measuring force of only 0.01 N, the Litematic is ideal for measuring easily deformed workpieces or high-accuracy components.
- For workpieces for which 0.01 N is recommended.
- The motor-driven spindle moves up/down and stops when the contact point touches the workpiece. Then the maximum, minimum and runout values are measured under a constant force.
- High resolution of 0.01 µm, and wide measuring range of 50 mm.
- Measuring system VL-50-B, integrated display type, and VL-50S-B, a separate display type, are available.
- insufficient, either the 0.15 N or 1 N model is The measuring table supplied with VL-50-B is ceramic, which is corrosion free, for easier maintenance and storage.
 - The spindle is made of low thermal expansion material.

SEE

318-226

P



318-221



Order No.	318-221 * ⁴	318-222 * ⁴	318-223* ⁴	318-226* ⁴	318-227* ⁴	318-228 * ⁴
Model	VL-50-B	VL-50-15-B	VL-50-100-B	VL-50S-B	VL-50S-15-B	VL-50S-100-B
Measuring range	0 to 50 mm (0 to 2 in)					
Resolution	0.01/0.1/1.0 μm (0.0000005 in/0.000005 in/0.00005 in)					
Display unit	8 digits/14 mm (0.6 in) character height (without signs)					
Scale type	Reflection type linear encoder					
Stroke	51.5 mm (2 in) (when using a standard contact point)					
Measuring accuracy (20 °C)*1	(0.5 + L/100) μm L=arbitrary measuring length (mm)					
Accuracy guaranteed temperature* ²	20±1 ℃					
Repeatability*1	σ=0.05 μm					
Measuring force*1	0.01 N	0.15 N* ³	1 N* ³	0.01 N	0.15 N* ³	1 N* ³
Feed Measurement	Approx. 2 mm/s (0.08 in/s) or 4 mm/s (0.16 in/s) (changeable by parameter)					
speed Fast feed	Approx. 8 mm/s (0.3 in/s)					
Contact point	ø3 mm carbide tipped (fixing screw: M2.5 (P=0.45) ×5), standard contact point: 901312					
Measuring table	ø100 (ceramic, grooved, removable) — —					
Input	Foot switch input (when optional foot switch is used) External Control					
Output	Digimatic output/RS-232C output (changeable by parameter)					
Rating Power supply	85 to 264 V AC (depends on AC adapter)					
Power consumption	Max. 12 W (12 V, 1 A)					
Standard Accessories	AC adapter: 357651 , Grounding wire: 09CAA985 , AC cable (Japan): 02ZAA000 , AC cable (USA): 02ZAA010 , AC cable (EU): 02ZAA020 , AC cable (UK): 02ZAA030 , AC cable (China): 02ZAA040 , AC cable (Korea): 02ZAA050 Hex wrench (2 pcs. for fixing contact point and for removing fixing bracket)					

*1 Normal measurement using standard contact point.
*2 Under less temperature change, and hot or cold direct air flow should be avoided.
*3 0.15 N, 1 N types are factory-installed option.

*4 To denote your AC power cable add the following suffixes to the order No.: A for UL/CSA, D for CEE, DC for CCC, E for BS, F for SAA, K for KC, C and No suffix are required for PSE.

Note: Motor life is approximately 100,000 operations, after which replacement is advisable.

This maintenance factor is particularly important to bear in mind when the machine is used frequently, such as on a production line. DIMENSIONS

