Thank you for purchasing the VERNIER HEIGHT GAUGE. Please read this manual thoroughly before use for proper operation.

APPLICATIONS AND FEATURES

- Ideal for marking and measuring work for molds, jigs, and tooling.
- Sliding main carriage for fast, easy adjustment.
- Easy to read scale using 3x magnifying lens.
- Carbide tipped scribe.
- Made of stainless steel for rust protection.
- Dial Indicator mounting arm accepts φ6mm, φ8mm, and dovetail type indicators.

SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>VH15</th>
<th>VH20</th>
<th>VH30</th>
<th>VH60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring Range</td>
<td>150</td>
<td>200</td>
<td>300</td>
<td>600</td>
</tr>
<tr>
<td>Graduation</td>
<td>±0.05</td>
<td>±0.05</td>
<td>±0.02</td>
<td>±0.02</td>
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<tr>
<td>Accuracy</td>
<td>±0.05</td>
<td>±0.05</td>
<td>±0.04</td>
<td>±0.08</td>
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<tr>
<td>Slide Carriage Fine Adjustment Range</td>
<td>approx. 8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Main Scale Adjustment Range</td>
<td>approx. 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accessories</td>
<td>Dial Indicator Holder</td>
<td>Scribe</td>
<td>Scribe Clamp</td>
<td>Magnifier Lens</td>
</tr>
</tbody>
</table>

NOTES

- Before using for the first time, please wipe off the corrosion protectant with an oiled cloth.
- This is a precision instrument, handle with care. Do not drop or subject to excessive forces.
- Please avoid damage to post. Also, do not scratch instrument, for example by writing ID number.
- Keep away from direct sunlight. Do not store instrument in extreme temperatures.

PART IDENTIFICATION

- Illustration based on VHK-15, 20, there will be some difference for VHK-30, 60.
- Main Scale Lock Screws
- Fine Adjust Carriage Lock Screw
- Fine Adjust Carriage
- Slide Carriage
- Slide Carriage Lock Screw
- Scribe Clamp Screw
- Scribe Clamp
- Scribe
- Jaw
- Magnifier Lens
- Vernier Scale
- Base Reference Plane

ACCESSORIES

- Dial Indicator Holder
- Indicator Clamp Screw
- φ6mm Mounting Hole
- φ8mm Mounting Hole
- Scribe Clamp Screw
- Scribe Clamp
- Scribe
- Dial Indicator (Sold Separately)

OPERATION

1. Mounting the Magnifying Lens
   Slide the magnifying lens onto the lens support from the top, with the support inside the mounting groove.

2. Installing the Scribe
   1. Loosen the scribe clamp screw and insert the scribe into the scribe clamp. (Figure : ①)
   2. After inserting the scribe, adjust to desired overhang and tighten clamp screw. (Figure : ②)

3. Dial Indicator Holder
   The supplied dial indicator holder can be used in place of the scribe to mount a dial indicator (sold separately.)
   1. Attach the dial indicator (sold separately) to the dial indicator holder. Secure by tightening clamp screw.
   2. Loosen the scribe clamp screw and insert the holder arm into the scribe clamp in place of the scribe.
   3. After inserting the dial indicator holder, adjust to desired overhang and tighten clamp screw.
**SLIDE CARRIAGE OPERATION**

1. **Fine Adjust Feed Operation**
   1. Tighten the fine adjust lock screw, and loosen the slide carriage lock screw.
   2. Turn the fine adjust feed screw to attain the desired height setting.

2. **How to Read the Scale**
   As with vernier calipers, the scale is read off the main scale and off the vernier scale at the point where the lines match.

   **<EXAMPLE>**
   
   **Graduation : 0.05mm(VHK-15,20)**
   
<table>
<thead>
<tr>
<th>Vernier Scale Reading</th>
<th>Main Scale Reading</th>
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<tbody>
<tr>
<td>0.45</td>
<td>81.00</td>
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   **Graduation : 0.02mm(VHK-30,60)**
   
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<th>Main Scale Reading</th>
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</thead>
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<td>0.46</td>
<td>81.00</td>
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**SERVICE**

- If height gauge is not working properly, or if you have any questions, please contact distributor or place of purchase.
- Please note, manufacturer is unable to respond to inquiries or provide service directly. Please contact distributor or place of purchase.