

# VACUUM CLAMPING BASE

Model No. VB-200

Thank you for purchasing the Niigata Seiki Vacuum Clamping Base.

This product is for mounting measuring instrument to non-magnetic surfaces, such as a granite surface plate.

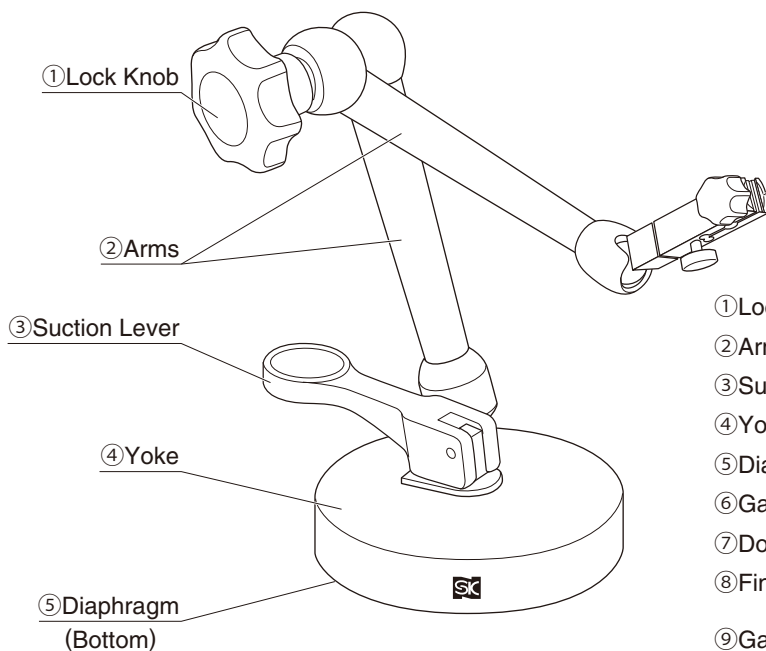
●For safe and proper use of this product, please read this instruction manual before use and follow the procedures described.

Please keep manual where it is accessible to user for future reference.

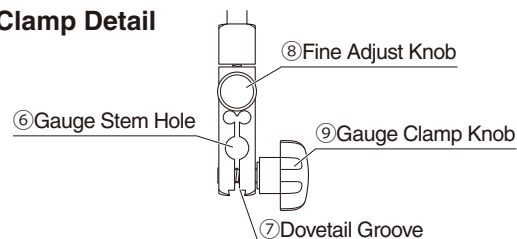
●Keep this manual with the instrument if transferred or leased to a third party.

●For inquiries about this product, please contact dealer or Niigata Seiki at the address listed on the following page.

## ■PART IDENTIFICATION AND FUNCTION



### Clamp Detail



※⑥ A Stem Hole bushing is supplied for use with Gauges that have  $\phi 6\text{mm}$  stem. Please use as required to fit the Gauge Stem.

- ①Lock Knob ..... Locks the position of the Arms.
- ②Arms ..... Adjustable for setting position of Gauge.
- ③Suction Lever ..... Controls suction holding to surface.
- ④Yoke ..... Diaphragm Cover.
- ⑤Diaphragm ..... Creates vacuum to hold to surface.
- ⑥Gauge Stem Hole ..... Insert Gauge to attach.
- ⑦Dovetail Groove ..... For attaching dovetail type gauges.
- ⑧Fine Adjust Knob ..... Fine control of clamp tip for precise positioning of Gauge.
- ⑨Gauge Clamp Knob ... Tighten to secure the Gauge.

## SAFETY PRECAUTIONS

### Please Observe

To prevent injury to yourself and others, and to prevent damage to property, always follow the procedures marked with the following symbols.



Denotes a prohibition –  
You **MUST NOT** do



Denotes a requirement –  
You **MUST** do



### WARNING

Indicates risk of **personal injury** or **property damage** if not followed.



#### Read the manual and follow the instructions.

- Use of product other than as described in the manual may cause accident.



#### Use only for measuring instruments.

- Use for any purpose other than measuring may damage or wear the instrument. Improper use may also cause accident.



#### Handle with Care.

- Do not drop or subject instrument to excessive shock. Do not place under heavy objects. Improper handling may cause damage or poor accuracy.
- Do not scratch instrument, for example by writing ID number.



#### Use In Proper Environment.

- Please do not use instrument in rain or locations with excessive humidity. Do not use at extreme high or low temperatures. Keep out of direct sunlight.



This is a high power tool intended for use in industrial applications. If used in office or residential environment, please use caution.



#### Confirm Holding Force.

- Test suction force before use to make sure it is sufficient.
- The holding force will be reduced if the surface is:
  - Dirty or dusty
  - Uneven or curved
  - Rough or textured
- The holding force is much greater than the force required to slide the base. For vertical use, pay special attention to make sure base will not slide off.



#### Promptly remove base and disconnect gauge after use.

- Suction force decreases with time depending on application and will easily dislodge. Base may fall or tip over and cause accident if left unattended.



#### Do not disassemble or modify.

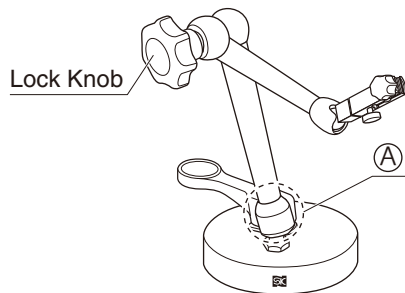
- Do not disassemble or modify as it may cause damage.

# HOW TO USE

Please follow the procedures below.

## ●Setting Arm Position

Loosen the Lock Knob, and all the joints will loosen to allow adjusting the Clamp position. When in desired position, tighten the Lock Knob.

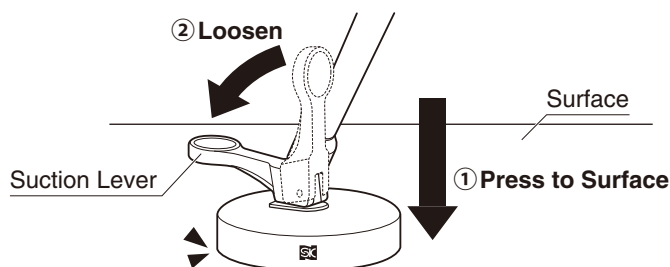


※When Lock Knob is tight, do not attempt to move the Arms. Forcing will cause the joint at (A) to loosen and Lock Knob will no longer function.

## ●To Secure to Surface

Hold the base to the surface and lower the Suction Lever. This will create a vacuum force to hold the base in place. Please confirm that base is held secure.

※If base is not secure, there is risk that the holder will come loose from the surface. Some surface materials or textures may not provide sufficient holding force.



⚠ Confirm that holding force is sufficient.

# CARE AND STORAGE AFTER USE

## ●Keep the Diaphragm and Arms free from dirt.

Store away from direct sunlight or moisture.

# SPECIFICATIONS

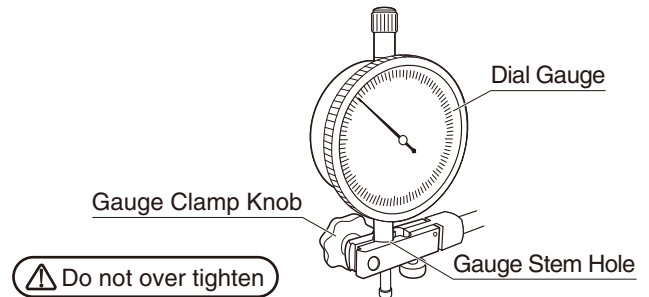
- Model No.: VB-200
- Holding Force: approx. 200N
- Diaphragm Size:  $\phi$  90mm
- Arm Lengths: 115, 100, 50mm
- Gauge Mounting Hole:  $\phi$  8mm (with  $\phi$  6mm bushing)
- Material: Body... Aluminum, Diaphragm... Rubber
- With Dovetail Groove
- Weight: approx. 540g

# GAUGE MOUNTING

## ●For Mounting an Indicator Gauge

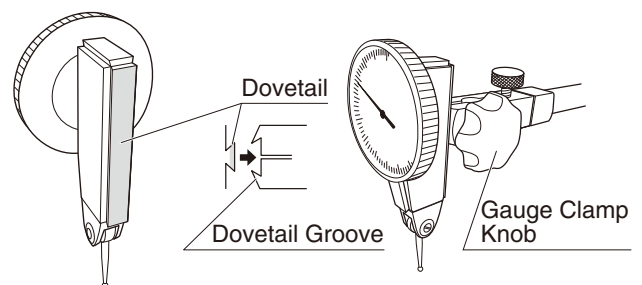
Loosen the Clamp Knob and insert the gauge stem into the Gauge Stem Hole. Secure the gauge by tightening the Knob.

- ※Please do not tighten the Gauge Clamp too strongly.
- ※When mounting a Gauge with a  $\phi$  6mm stem, please use the accessory bushing.



## ●For Mounting a Gauge using the Dovetail

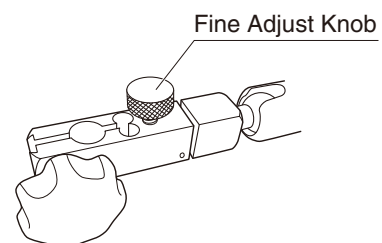
Loosen the Clamp Knob and slid the dovetail into the groove. Secure the gauge by tightening the Knob.



## FINE ADJUST

## ●Fine Adjustment of Gauge Position

Rotate the knob right or left to fine-tune the angle of the clamp end for positioning the attached measuring instrument.



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