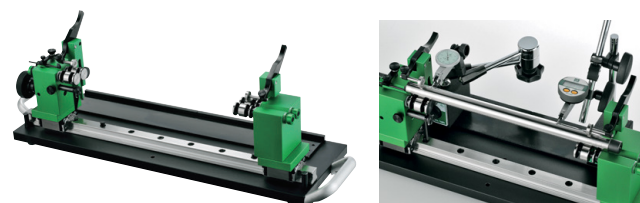


# RUN-OUT GAUGE SYSTEM

## ■FOR LONG OBJECT

ROG-581S

Capable of measuring up to 300mm length work.



### SPECIFICATIONS

- Accuracy: Within  $4\mu\text{m}$   
\* $4\mu\text{m}$ =When measuring  $\phi 20\text{mm}$  workpiece (in-house measurements)
- Operating temperature:  $0\sim 40^{\circ}\text{C}$
- Storage temperature:  $-10\sim 50^{\circ}\text{C}$
- Base material: Aluminum, carbon steel
- Roller material: Tool steel
- Provided with an aluminum carrying case

### MEASURABLE WORK CONDITIONS

- ROG-581S ●OD:  $\phi 4\sim 30\text{mm}$  ●Length:  $5\sim 300\text{mm}$
- ROG-307S ●OD:  $\phi 10\sim 110\text{mm}$  ●Length:  $5\sim 80\text{mm}$
- Shape: Cylindrical
- Reference portion of the workpiece must have enough length to clamp to the rollers.
- The two reference parts must be coaxial and of the same diameter. (ROG-581S only)

\*Measurement error increases at with increasing distance from rollers.  
\*Soft materials such as non-ferrous (aluminum) and plastics may deflect and cause measurement errors depending on the outer diameter and length.

## ■FOR LARGE DIAMETER

ROG-307S

Capable of measuring up to  $\phi 110\text{mm}$  of work OD.



## ■WITH DOUBLE CARRIERS

ROG-241SSW

Capable of simultaneous measurement at two points, in front of/ behind the workpiece.



### SPECIFICATIONS (mutual)

- Accuracy: Within  $2\sim 3.5\mu\text{m}$  \* $2\mu\text{m}$  = When measuring  $\phi 20\text{mm}$  workpiece (in-house measurements)
- Operating temperature:  $0\sim 40^{\circ}\text{C}$  ●Storage temperature:  $-10\sim 50^{\circ}\text{C}$
- Base material: Carbon steel ●Roller material: Tool steel
- Provided with an aluminum carrying case

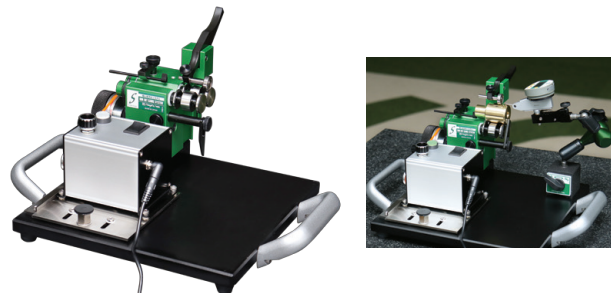
### SPECIFICATIONS (ROG-251SM only)

- Power (To be used with the included AC adapter): AC100~240V 50/60Hz
- Speed setting range of main roller:  $5.5\sim 9.5\text{min}^{-1}$  (OD of main roller:  $\phi 21.9\text{mm}$ )
- Power consumption: Max. 5W

## ■WITH MOTOR

ROG-251SM

The motor drives enables continuous run-out measurement. (with/ without motor switchable)



### MEASURABLE WORK CONDITIONS

- OD:  $\phi 4\sim 30\text{mm}$   
\*A custom roller for measuring under  $\phi 4\text{mm}$  is also available.
- Length:  $5\sim 80\text{mm}$  ●Shape: Cylindrical
- Reference portion of the workpiece must have enough length to clamp to the rollers.

\*Measurement error increases at with increasing distance from rollers.  
\*Soft materials such as non-ferrous (aluminum) and plastics may deflect and cause measurement errors depending on the outer diameter and length.

Order No.	Model No.	Base size (mm)	Roller type	Carrier type	Weight
010215	ROG-581S	580 × 190	Slit roller	No carrier	13 kg
010216	ROG-307S	300 × 160	Flat roller	No carrier	13 kg
010217	ROG-241SSW	236 × 185	Slit roller	Shaft carrier	6.3kg
010218	ROG-251SM	250 × 240	Slit roller	No carrier	10 kg

## MEASURING FIXTURE FOR RUN-OUT GAUGE SYSTEM

### <Applicable Products>

- No carrier (Either long or short base)  
(ROG-221S • 223S • 351S • 353S • 225S • 355S)
- Clamp base (ROG-101S • 103S • 105S)
- With motor (ROG-251SM)

## ■ADJUSTABLE ROLLER HOLDER

LRH-Y1

Suitable for measuring a long length or stepped workpiece.  
Measuring fixture with adjustable height.

### SPECIFICATIONS

- Height setting range:  
 $73\pm 8\text{mm}$  (bottom base ~ center of the rollers)
- Fine feed vertical stroke: 2.5mm or over
- Magnetic base (ON/ OFF switchable)



Order No.	Model No.
NEW 010219	LRH-Y1

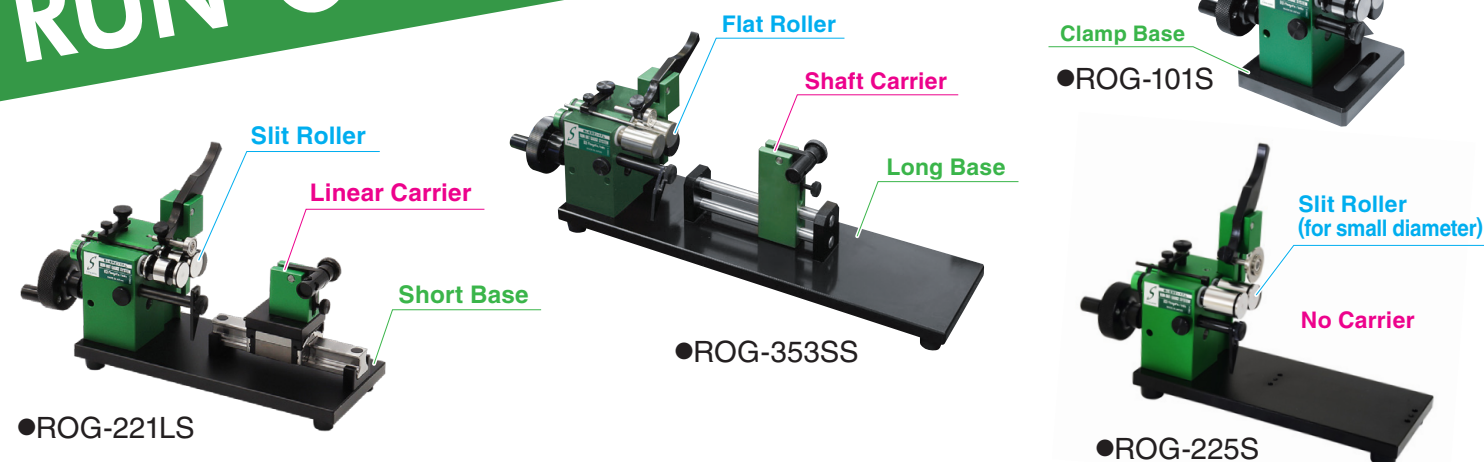
## ■Distributor

\*Size and Weight are approximate value.  
\*Appearance and specifications are subject to change without notice for product improvement.  
\*Colors may vary slightly between printed and actual product.  
\*Magnetic base and indicator not included.

**SE Niigata Seiki Co., Ltd.**  
5-3-14, Tsukanome, Sanjo, Niigata, Japan, 955-0055  
Tel. : +81-256-33-5522 Fax. : +81-256-33-5518  
MAIL intl.sales@niigataseiki.co.jp  
URL http://www.niigataseiki.co.jp

SE Niigata Seiki

# —MADE IN JAPAN QUALITY— RUN-OUT GAUGE SYSTEM



- ✓ For those who handle a large number of cylindrical parts (small diameter) ...
- ✓ For those who use V-Blocks ...
- ✓ For those with variability in measurement by workers ...

If any of those apply to you,  
why not install our  
**RUN OUT GAUGE SYSTEM.**

- Easy to measure concentricity by mounting your current indicator.
- Three base length, three rollers and three carriers (incl. no carrier type), **total 21 product configurations** available.
- **Up to  $2\mu$  accuracy.** Highly accurate measurement is possible. \*Up to  $3\mu\text{m}$  accuracy when slit roller (for small diameter).
- Smooth measurement with grip handle and timing belt & pulley operation system.
- Carrier with angle fine adjustment for easy zero-setting of measuring instruments.
- Free movement in Z-direction enables **measurement at the optimum position.**
- Equipped with work retainer for holding front and rear of workpiece and to enable measurement of axial run-out.

### <Configurations>

Order No.	Model No.	Base type	Roller type	Carrier type	Weight
010201	ROG-221S	Short base	Slit roller	No carrier	3.6kg
010202	ROG-221SS			Shaft carrier	4.0kg
010203	ROG-221LS			Linear carrier	4.3kg
010204	ROG-223S		Flat roller	No carrier	3.7kg
010205	ROG-223SS			Shaft carrier	4.1kg
010206	ROG-223LS			Linear carrier	4.4kg
010224	ROG-225S	Long base	Slit roller (for small diameter)	No carrier	3.7kg
010225	ROG-225SS			Shaft carrier	4.1kg
010226	ROG-225LS			Linear carrier	4.4kg
010207	ROG-351S		Slit roller	No carrier	4.6kg
010208	ROG-351SS			Shaft carrier	5.0kg
010209	ROG-351LS			Linear carrier	5.3kg
010210	ROG-353S	Clamp base	Flat roller	No carrier	4.7kg
010211	ROG-353SS			Shaft carrier	5.1kg
010212	ROG-353LS			Linear carrier	5.4kg
010227	ROG-355S		Slit roller (for small diameter)	No carrier	4.7kg
010228	ROG-355SS			Shaft carrier	5.1kg
010229	ROG-355LS			Linear carrier	5.4kg
010213	ROG-101S	Clamp base	Slit roller	No carrier	2.5kg
010214	ROG-103S		Flat roller	No carrier	2.6kg
010230	ROG-105S		Slit roller (for small diameter)	No carrier	2.6kg

### SPECIFICATIONS

- Accuracy  
Slit/ Flat roller type: Within  $2\sim 3.5\mu\text{m}$   
\* $2\mu\text{m}$  = When measuring  $\phi 20\text{mm}$  workpiece (in-house measurements)  
Slit roller type (for small diameter): Within  $3\sim 6.5\mu\text{m}$   
\* $3\mu\text{m}$  = When measuring  $\phi 8\text{mm}$  workpiece (in-house measurements)
- Operating temperature:  $0\sim 40^{\circ}\text{C}$  ●Storage temperature:  $-10\sim 50^{\circ}\text{C}$
- Base material: Carbon steel ●Roller material: Tool steel
- Provided with a carrying case

### MEASURABLE WORK CONDITIONS

- OD Slit/ Flat roller type:  $\phi 4\sim 30\text{mm}$   
Slit roller (for small diameter) type:  $\phi 1\sim 8\text{mm}$
- Length:  $5\sim 80\text{mm}$  ●Shape: Cylindrical
- Reference portion of the workpiece must have enough length to clamp to the rollers.  
\*Measurement error increases at with increasing distance from rollers.  
\*Soft materials such as non-ferrous (aluminum) and plastics may deflect and cause measurement errors depending on the outer diameter and length.

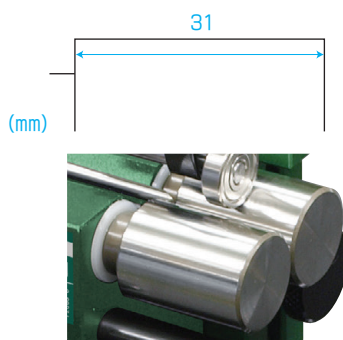
More  
details  
INSIDE



## Main rollers (lower rollers)

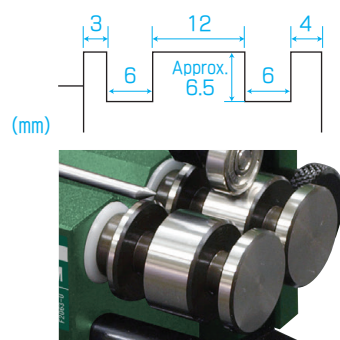
### Flat roller

No slit.  
Ideal for measuring non-flanged workpiece such as a round bar.  
Model No.: 103/223/353 series



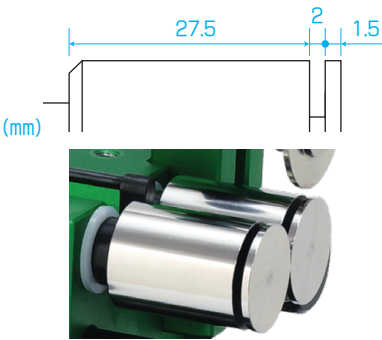
### Slit roller

With slits.  
Ideal for measuring flanged workpiece.  
Model No.: 101/221/351 series



### Slit roller (for small diameter)

For small diameter.  
Ideal for workpiece of  $\phi 1-8$ .  
Model No.: 105/225/355 series

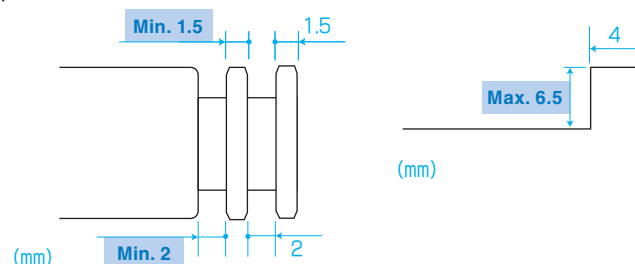


Customization of main roller possible.

We will produce to meet your request as much as possible.

\*Conditions of customization  
Roller width: Min. 1.5mm  
Slit width: Min. 2mm  
Slit depth: Max. 6.5mm  
(Please refer to the drawing on the right)

<Example>



## Top roller (upper roller)

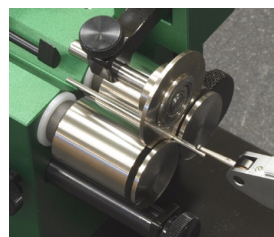
### Regular top roller

Top roller for the flat/ slit main rollers.



### For slit main rollers (small diameter)

Matching top roller of slit main rollers models (for small diameter).  
To be used in a narrow groove on Slit Roller (main roller).



Customization of top roller possible.

### ex.1 For increasing work holding force!

Triple (or double) bearing for stronger work holding force. The clamp spring can be replaced to increase the holding force.



### ex.2 In case worried about scratches on the work!

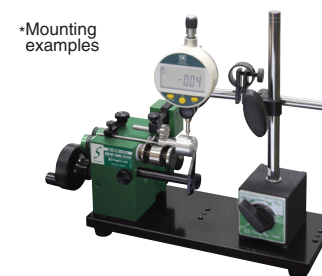
Can be resolved by using scratch-resistant rollers made by resin.



## Carrier (Indicator holder)

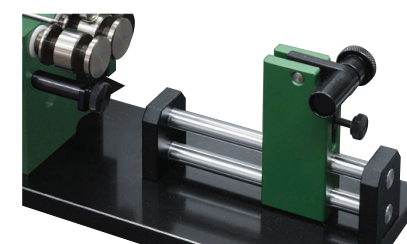
### No carrier

Mountable of your current magnetic base on the base of the product.  
Model No.: ROG-□□□S series



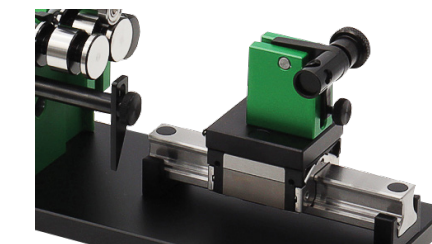
### Shaft carrier

Standard carrier capable of mounting a measuring device and positioning its location according to length of workpiece.  
Model No.: ROG-□□□SS series



### Linear carrier

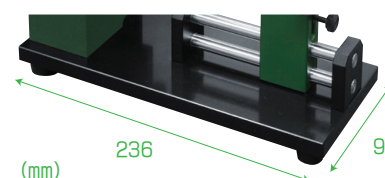
Linear slide carrier provides smooth movement for accurate positioning.  
Model No.: ROG-□□□LS series



## Base

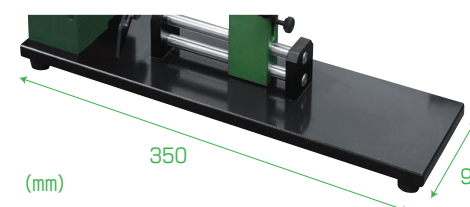
### Short base

Compact and space-saving size.  
Model No.: ROG-22□ series



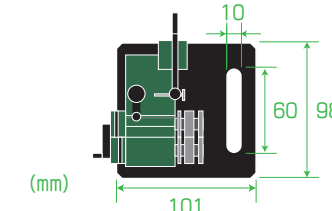
### Long base

The largest size in the series.  
Easy to measure multiple points at the same time by mounting your current magnetic base.  
Model No.: ROG-35□ series



### Clamp base

Super-compact base with a long hole, which is suitable for placing on the stage of large measuring instruments.  
Model No.: ROG-10□ series



## Example of use

### ex.1 Run-out measurement of outer diameter (one measuring point)

<Tools used>

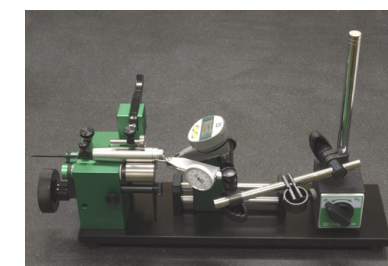
- ROG-221SS: Short base/Slit roller/Shaft carrier
- S-line digital indicator: DET-234S1



### ex.2 Run-out measurement of outside and inside diameter (two measuring points)

<Tools used>

- ROG-353SS: Long base/Flat roller/Shaft carrier
- S-line digital indicator: DET-234S1
- Dial indicator



### ex.3 Run-out measurement of inside diameter and end surface (two measuring points)

<Tools used>

- ROG-351SS: Short base/Slit roller/Shaft carrier
- S-line digital indicator: DET-234S1
- Dial indicator



The new model for small work-diameter is newly added.  
Total 21 configurations plus optional custom are available to meet various requirements.