

# Product information

## GAUGES

**NEW** **NEW GAUGE SERIES** Custom made gauges are available on request. **Class H7**

To determine the fit of a shaft in a hole the gauge has Go/No-Go sides for testing minimum allowable dimensions.

### LIMIT PLUG GAUGES H7 (for manufacturing)

LP Series  $\phi 3\sim 40\text{mm}$

Additional larger sizes are available.



**MATERIAL**

- Gauge part : Alloy tool steel
- Handle part : Aluminum

**SPECIFICATIONS**

- Hardness HV660 ~ 780

### CARBIDE LIMIT PLUG GAUGES H7 (for manufacturing)

TLP Series  $\phi 10\sim 30\text{mm}$

Carbide gauge type for high durability and thermal-expansion resistance.



**MATERIAL**

- Gauge part : Carbide
- Handle part : Aluminum

**FEATURES**

- Excellent wear resistance for 20-30 times longer service life than steel.

### CERAMIC LIMIT PLUG GAUGES H7 (for manufacturing)

CLP Series  $\phi 10\sim 30\text{mm}$

Easy to use, economical!



**MATERIAL**

- Gauge part : Ceramics
- Handle part : Aluminum

**FEATURES**

- Material has coefficient of thermal expansion similar to steel.

Go/No-Go gauge for testing the fit of shaft in hole based on maximum and minimum allowable dimensions.

### LIMIT STEP PLUG GAUGE Carbide / Ceramic $\phi 10\sim 30\text{mm}$

New design! Two gauges (Go/No-Go) at one side. No need to flip over.



**FEATURES**

- Go/No-Go gauge at one side. No need to flip over, work efficiency goes up.

### LIMIT STEEL RING GAUGES h7 (with protective cover)

HKLR Series  $\phi 5\sim 20\text{mm}$

Go/No-Go gauges paired by a protective cover. No risk of losing one, Easy to use.



**MATERIAL**

- Gauge part : Alloy tool steel
- Protective cover : Aluminum

### STEEL PIN GAUGE SET AA series

SUB-ZERO Treatment (Cryogenic hardened)

JCSS Calibration available



**FEATURES**

- The most popular type. Long life use / Sub zero treatment
- Individual Pin Gauges are also available
- Custom made Pin Gauges are available on request
- Aluminum Pin Vise is included with AA-0A to AA-9B
- Pin Vise is included with AA-0E to AA-6F
- For above 1.000mm, the nominal size is marked on gauge

**SPECIFICATIONS**

Nominal Size (mm)	Length (mm)	Tolerance ( $\mu\text{m}$ )	Out of Roundness/Cylindricity ( $\mu\text{m}$ )	Hardness (HV)
0.05 ... 0.09	5~10	$\pm 0.5$	0.5	More than 650
0.10 ... 0.19				
0.200 ... 0.999				
1.000 ... 10.000	40	$\pm 0.8$	0.5	
10.01 ... 20.00				
20.01 ... 30.00				
30.01 ... 41.00				

### STEEL RING GAUGE

SUB-ZERO Treatment (Cryogenic hardened) for improved durability

LAPPED FINISH

Use Ring Gauge as master gauge for "0" adjustment of measuring tools such as bore gauge, inside micrometer, dial caliper, etc.

**SPECIFICATIONS**

Size (mm)	Out of Roundness ( $\mu\text{m}$ )	Out of Cylindricity ( $\mu\text{m}$ )	Tolerance ( $\mu\text{m}$ )	Hardness (HV)
1 to less than 30	0.5	0.5	$\pm 1.0$	653
30 to less than 50	0.8	0.8	$\pm 1.5$	
50 to less than 60	1.0	1.0	$\pm 2.0$	772
60 to less than 80				
80 to less than 100				
100 to less than 200	2.0	2.0	$\pm 5.0$	



### CARBIDE RING GAUGE

LAPPED FINISH

**FEATURES**

- Durable and long life
- Less likely to be damaged due to high hardness

**SPECIFICATIONS**

Size (mm)	Out of Roundness/Cylindricity ( $\mu\text{m}$ )	Tolerance ( $\mu\text{m}$ )
1 to less than 30	0.5	$\pm 1$
30 to less than 50	0.8	$\pm 1.5$



### CERAMIC RING GAUGE

LAPPED FINISH

**FEATURES**

- Free from rust and corrosion, and easy maintenance
- Non-magnetic body

**SPECIFICATIONS**

Size (mm)	Step (mm)	Out of Roundness/Cylindricity ( $\mu\text{m}$ )	Tolerance ( $\mu\text{m}$ )
1 to less than 30	0.5 step	0.5	$\pm 1$
30 to less than 50		0.8	$\pm 1.5$



## ANGLES

### LEVELNIC DIGITAL ANGLE METER

**NEW**

**DP-30XY**

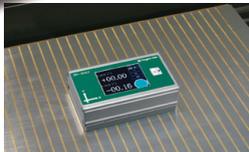
Enables measurement in X-axis and Y-axis at the same time.

#### FEATURES

- Precision angle measurement and working reference for assembly of machinery, tooling, jigs, etc.
- Easy to read, touch-panel Color LCD

#### SPECIFICATIONS

- Measurement Range:  $\pm 30^\circ$
- Resolution: 0.01° (0.1mm/m) switchable
- Readout Accuracy:  $\pm 0.05^\circ$  (at 20°C)
- Temperature dependent factor of 0.015%/°C
- XY Orthogonal accuracy: 1%



### LEVELNIC DL-S3

High accuracy Level with Simple & Clear Operation  
Worlds first Digital Level with built-in Microcomputer

■ Digital Display 0.001mm/m

#### SPECIFICATIONS

Measuring Range <sup>※1</sup>	$\pm 5.00\text{mm/m} \pm 0.286^\circ$
Minimum Reading	$\pm 0.001\text{mm/m} \pm 0.0001^\circ$ (0 ~ $\pm 2\text{mm/m} \cdot 0 \sim \pm 0.115^\circ$ ) $\pm 0.01\text{mm/m} \pm 0.001^\circ$
Accuracy <sup>※2</sup>	17 ~ 23°C $\pm 0.85\% \text{rdg}$ (0 ~ $\pm 2\text{mm/m} \cdot 0 \sim \pm 0.115^\circ$ )
	0 ~ 40°C $\pm 1.0\% \text{rdg}$ ( $\pm 2 \sim \pm 5\text{mm/m} \pm 0.115^\circ \sim \pm 0.286^\circ$ ) $\pm 2.6\% \text{rdg}$ (0 ~ $\pm 2\text{mm/m} \cdot 0 \sim \pm 0.115^\circ$ ) $\pm 2.7\% \text{rdg}$ ( $\pm 2 \sim \pm 5\text{mm/m} \pm 0.115^\circ \sim \pm 0.286^\circ$ )
Repeatability	Within $\pm 0.005\text{mm/m} \pm 0.0003^\circ$
Output Signal	Conforms to RS-232C

※1: For DEG (°) Display mode, "0 (Zero)" before the decimal point is not displayed.  
For 0.001mm/m (0.0001°) display mode, maximum reading which can be displayed is less than  $\pm 1.999\text{mm/m} (\pm 0.1145^\circ)$

※2: % rdg indicates the percentage of displayed value



## TAPER GAUGES

Measure openings, slot width, hole size etc.



### TAPER GAUGES (KAIDAN SCALE) TPG-700AKD

New stepped millimeter graduation prevents misreading!

**NEW**

#### FEATURES

- Increasing height of each mark makes it easier for eye to distinguish 1mm steps
- Sequential number style can be read directly without checking the surrounding numbers, 2mm point markings
- FRONT: width scale
- BACK: length scale
- With a conversion table

### TAPER GAUGES TPG-700A

Standard graduation



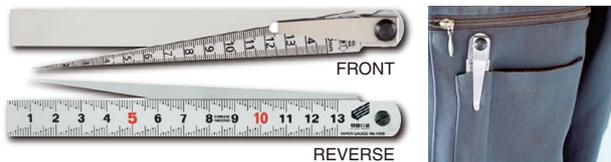
Measuring of tubing, bore, slot width, hole size and flange face to face dimension, etc.



### TAPER GAUGE WITH A STRAIGHT KAIDAN SCALE 700SKD

New stepped millimeter graduation prevents misreading!

**NEW**



### TAPER GAUGES TPG-700S

Standard graduation



#### FEATURES

- Convenient set, taper gauge 700A with 130mm ruler
- Folds safely with pocket clip, easy to carry.

## WELDING GAUGES

For measuring fillet weld, bead weld, Undercut depth (WGU-7M) etc.

#### MATERIAL

- Stainless steel (SUS410)

#### FEATURES

- Efficient for welding and quality control
- Tough and portable (with vinyl case)

#### SPECIFICATIONS

Model No.	Height of Bead Weld	Throat thickness	Undercut depth
WG-1 (M)	10mm	10mm	—
WGU-7M	25mm	15mm	25mm



REVERSE



REVERSE

## BEVEL BOX Compact design digital angle meter

For all processes that require precise angle measurement, such as assembly, molding, machining and fixtures.

**BB-180A**



■ BB-180A Equipped with Absolute measurement mode

#### SPECIFICATIONS

Measuring Range	Resolution	Accuracy <sup>※</sup>	Repeatability
$\pm 180.0^\circ$	0.1°	$\pm 0.2^\circ$	0.1°

※ Quantization Error ( $\pm 1$  digit) not included

## LEVEL METER

Measurement of inclination angle.

Analog type goniometer with magnetic base

**LM-90**



Analog type goniometer with magnet for vertical surfaces

**LM-360**



#### SPECIFICATIONS

Measuring range : 0 ~ 90°  
Graduation : 1°  
Accuracy :  $\pm 0.5^\circ$

#### SPECIFICATIONS

Measurement range : 0 ~ 360°  
Graduation : 1°  
Reading accuracy :  $\pm 0.5^\circ$

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※ Please note product specifications are subject to change without notice for improvement

※ The colors might be slightly different from the actual product



■ Distributor